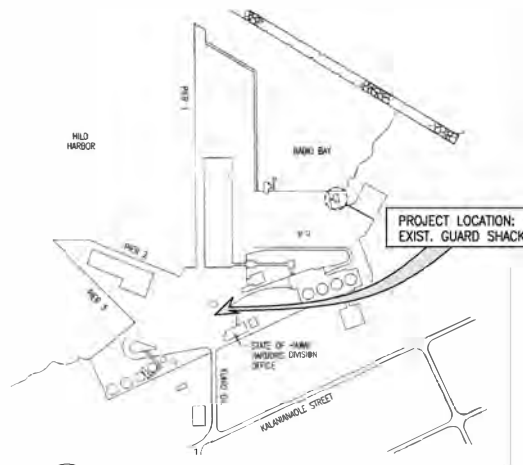


REPAIR GUARD SHACK HILO HARBOR ISLAND OF HAWAII, HAWAII

FOR THE
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

H.C. 50173



CONSULTANTS:

USHIJIMA ARCHITECTS, INC.
ARCHITECT

AKINAKA & ASSOCIATES, LTD.
CIVIL ENGINEER

MKE ASSOCIATES LLC.
STRUCTURAL ENGINEER

MECHANICAL ENTERPRISES, INC.
MECHANICAL ENGINEER

ECS, INC.
ELECTRICAL ENGINEER

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED BY:

Apr 26, 2023

FOR DIRECTOR OF TRANSPORTATION

DATE

HEET

T-1

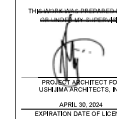
1 of 22 sheets

INDEX TO DRAWINGS

SHEET NO.	SHEET TITLE
T-1	ISLAND OF HAWAII MAP, VICINITY MAP, CONSULTANTS
T-2	INDEX TO DRAWINGS, GENERAL NOTES
C-1	OVERALL SITE PLAN
C-2	MISCELLANEOUS DETAILS 01
C-3	MISCELLANEOUS DETAILS 02
C-4	MISCELLANEOUS DETAILS 03
C-5	MISCELLANEOUS DETAILS 04
A-1	EXIST. PLOT PLAN, EXIST./DEMO. FLOOR PLAN & EXTERIOR ELEVATIONS
A-2	NEW PLOT PLAN, NEW GUARD BOOTH FLOOR PLAN, SECTION AT LANDING, STAIRS & PLATFORM, HANDRAIL-POST CONNECTION DETAIL
A-3	NEW CANOPY ROOF PLAN & DETAILS
A-4	NEW WORK EXTERIOR ELEVATIONS
S-1	STRUCTURAL NOTES
S-2	TYPICAL DETAILS
S-3	FOUNDATION AND FLOOR FRAMING PLANS
S-4	ROOF FRAMING PLAN
S-5	ELEVATIONS
S-6	DETAILS
S-7	STRUCTURAL STEEL DETAILS
M-1	MECHANICAL GENERAL NOTES, LEGEND, SCHEDULE, PLAN, DETAILS
E-1	ELECTRICAL SYMBOL LIST AND GENERAL ELECTRICAL NOTES
E-2	OVERALL ELECTRICAL SITE PLAN, ENLARGED BUILDING PLAN
E-3	GUARD SHACK ELECTRICAL PLAN

GENERAL NOTES

- VERIFY ALL DIMENSIONS AND ACTUAL CONDITIONS ON SITE PRIOR TO THE SUBMITTAL OF ANY BIDS, OR THE INITIATION OF ANY WORK. IMMEDIATELY NOTIFY THE HARBORS DIVISION OF ANY DISCREPANCIES PRIOR TO ANY ADDITIONAL WORK.
- PATCH ALL SURFACES AFFECTED BY SELECTIVE DEMOLITION TO MATCH ADJACENT AND/OR EXISTING CONDITIONS UNLESS NOTED OTHERWISE.
- CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN SHALL BE DAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE, LANDSCAPING OR STRUCTURE TO THE ORIGINAL CONDITIONS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A REASONABLY NEAT AND SAFE CONDITION. ALL WORK SHALL BE PERFORMED WITHIN LIMITS OF WORK AREAS COORDINATED WITH THE CONSTRUCTION ENGINEER. DELIVERY OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED TO MINIMIZE DISRUPTION OF EXISTING OPERATIONS. CONTRACTOR TO PROVIDE AND MAINTAIN SUITABLE BARRIERS AS REQUIRED TO PREVENT PUBLIC ENTRY AND TO PROTECT THE WORK AND EXISTING FACILITIES FROM CONSTRUCTION OPERATIONS, REMOVE WHEN NO LONGER REQUIRED, OR AT THE COMPLETION OF THE WORK.
- WORKMANSHIP SHALL BE OF GOOD QUALITY IN ACCORDANCE TO INDUSTRY STANDARDS. NEW MATERIALS SHALL BE USED THROUGHOUT. ALL WORK SHALL BE DONE IN A MANNER SO AS TO MATCH ADJACENT WORK AND FINISHES AS APPROVED BY THE CONSTRUCTION ENGINEER.
- AREAS FOR THE CONTRACTOR ZONE LIMITS, MATERIAL STORAGE SCHEDULING OF WORK TRASH DISPOSAL, WORKMEN'S PARKING, ETC. SHALL BE COORDINATED WITH THE HARBORS DIVISION. COORDINATE ALL WORK SCHEDULING, STAGING, AND ADMINISTRATIVE REQUIREMENTS WITH THE HARBORS DIVISION CONSTRUCTION ENGINEER.
- GENERAL CONTRACTOR SHALL REPAIR, REPLACE OR PAY THE EXPENSE TO REPAIR DAMAGES RESULTING FROM CONTRACTOR'S FAULT OR NEGLIGENCE.
- TO THE BEST OF OUR KNOWLEDGE THIS PROJECT CONFORMS TO ADA ACCESSIBILITY GUIDELINES.
- CONTRACTOR TO COORDINATE ALL TRENCHING REQUIRED FOR INSTALLATION OF NEW WORK WITH MECHANICAL UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER. 2006 NFPA 1.
- BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE (IBC 2006) AND ICC A117.1.
CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE OR THE FAIR HOUSING ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE. CONSTRUCTION OF PUBLIC BUILDINGS OR FACILITIES IN COMPLIANCE WITH HRS 103-50 SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE.
- THE CONTRACTOR SHALL COMPLY WITH THE CLEAN WATER ACT AND THE STATE HARBORS DIVISION STORMWATER MANAGEMENT PROGRAM. NO POLLUTANTS WILL BE DISCHARGED DIRECTLY OR INDIRECTLY THROUGH THE HARBORS SMALL MS4 OR OTHER POTENTIAL PATHWAYS INTO HILO HARBOR.
- THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC BEST MANAGEMENT PRACTICE PLAN TO HARBORS ENGINEER BRANCH PRIOR TO THE START OF ANY CONSTRUCTION WORK.
- IN CASE OF SPILL, LEAK, OR OTHER RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL, THE CONTRACTOR SHALL NOTIFY APPROPRIATE FACILITY PERSONNEL, EMERGENCY RESPONSE AGENCIES, AND REGULATORY AGENCIES FOLLOWING NOTIFICATION PROCEDURES, AND SHALL NOTIFY HARBORS CONSTRUCTION ENGINEER IMMEDIATELY (I.E. WITHIN 24-HOURS). SUCH CONTACT INFORMATION MUST BE IN LOCATIONS THAT ARE READILY ACCESSIBLE AND AVAILABLE.



REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE INDEX TO DRAWINGS AND GENERAL NOTES				
DESIGNED BY	TH			SHEET
DRAWN BY	UAI			T-2
CHECKED BY	SU			
DATE	FEB, 2023	JOB NUMBER		
EXPIRATION DATE OF LICENSE		H.C. 50173		2 of 22 SHEETS
SCALE	AS NOTED			

TRUE NORTH
SCALE: 1" = 10'

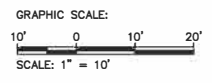
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2	160°03'59"	80°01'59"	4.00	22.76	7.88	11.17

- 1 DEMO EXIST. GUARD SHACK
- 2 DEMO EXIST. A.C. CURB & PAV'T
- 3 REMOVE EXIST. PAVEMENT MARKINGS
- 4 DEMO EXIST. WHEEL STOPS, BOLLARDS, SIGNS
- 5 RELOCATE EXIST. PORTABLE SIGN POST WITH "SPEED LIMIT" & "KEEP RIGHT" REGULATORY SIGNS
- 6 RELOCATE EXIST. 20' CONC. JERSEY BARRIERS WITH FENCING. IF ADD'L BARRIERS ARE NEEDED, INSTALL NEW 20' CONC. JERSEY BARRIERS WITH FENCING. SEE DET
- 7 INSTALL NEW 20' CONC. JERSEY BARRIERS, SEE DET WITHOUT FENCE
- 8 INSTALL NEW 10' CONC. JERSEY BARRIER
- 9 INSTALL NEW 10' CONC. JERSEY BARRIER WITH FENCE
- 10 NEW GUARD SHACK & STAIRS, SEE ARCH. DWGS FOR DET
- 11 NEW BARRIER GATE OPERATOR. NEW CONC. EQUIPMENT PAD PER BARRIER GATE MANUFACTURER'S REQ'S. SEE ARCH. DWGS FOR DET
- 12 NEW BARRIER GATE ARM, SEE ARCH. DWGS FOR DET
- 13 OUTLINE OF NEW AWNING (ABOVE) W/ 30' HIGH CLEARANCE
- 14 INSTALL NEW 2" SCH 40 PVC A/C DRAIN LINE & A/C CONDENSATE SEEPAGE PIT, SEE MECH. SHTS FOR DET
- 15 NEW CONC. CURB, SEE DET
- 16 INSTALL NEW A.C. PAV'T, SEE DET
- 17 INSTALL NEW BOLLARDS, SEE DET
- 18 NEW TIRE SPIKE STRIP, ROADSHARK LPC ONE-WAY BARRIER, OR APPROVED EQUAL. INSTALL PER EQUIPMENT MANUFACTURER'S REQ'S, SEE DET
- 19 INSTALL NEW CONC. 4" HIGH RAISED WALKWAY & CURB RAMP, SEE DET
- 20 INSTALL NEW A.C. 4" HIGH RAISED WALKWAY & CURB RAMPS, SEE DET
- 21 PAINT NEW PEDESTRIAN CROSSWALK, SEE DET
- 22 INSTALL NEW DETECTABLE WARNING STRIP, SEE DET
- 23 INSTALL NEW 8" HIGH CHAIN LINK FENCE & 3 STRANDS OF BARBED WIRE, SEE DET
- 24 INSTALL NEW 4" WIDE, 8" HIGH CHAIN LINK GATE, SEE DET
GATE TO BE LOCKED IN OPEN POSITION DURING FACILITY HOURS (CHAIN WITH PADLOCK TO ADJACENT CORNER FENCE POST). LOCK GATE IN CLOSED POSITION AFTER HOURS.
- 25 INSTALL NEW 6" PRECAST WHEEL STOP, SEE DET
- 26 INSTALL RS-1 30" X 30" (FACING OPPOSITE TRAFFIC) NEW SIGN POST, SEE DET
- 27 INSTALL NEW SIGN POST WITH TIRE DAMAGE SIGN "A" (ABOVE), SEE DET
- 28 PAINT NEW VAN ACCESSIBLE ADA STALL, SEE DET
- 29 INSTALL NEW ADA STALL & ACCESS SIGNS. SEE DET
- 30 PAINT NEW 4" WHITE LINE ON PAV'T
- 31 PAINT NEW "STOP" WORD
- 32 PAINT NEW PAV'T ARROW SEE DET

INSTALL TIRE DAMAGE SIGN "A" 18" X 24" (FACING OPPOSITE TRAFFIC, BELOW R5-1)

INSTALL TIRE DAMAGE SIGN "B" 18" X 24" (FACING EXITING TRAFFIC)

- NOTES:
1. ALL PAVEMENT STRIPING SHALL BE THERMOPLASTIC EXTRUSION MARKINGS. PAINTING IS NOT ACCEPTABLE.
 2. ALL MARKING TAPE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 3. ALL REGULATORY SIGNS SHALL BE HIGH INTENSITY.
 4. GAPS BETWEEN NEW FENCING AND THE EXISTING BUSINESS OFFICE CANNOT EXCEED 6". SEE DET
 5. SURROUND WORK AREAS THAT DISTURB EXIST. A.C. PAV'T BASE COURSE WITH FILTER SOCKS DURING CONSTRUCTION, SEE DET
- LEGEND
- EXIST. CONCRETE
 - NEW CONCRETE
 - AC PAVEMENT RESTORATION
 - DETECTABLE WARNING PANEL
 - EXIST. CONTOURS
 - FINISH CONTOURS



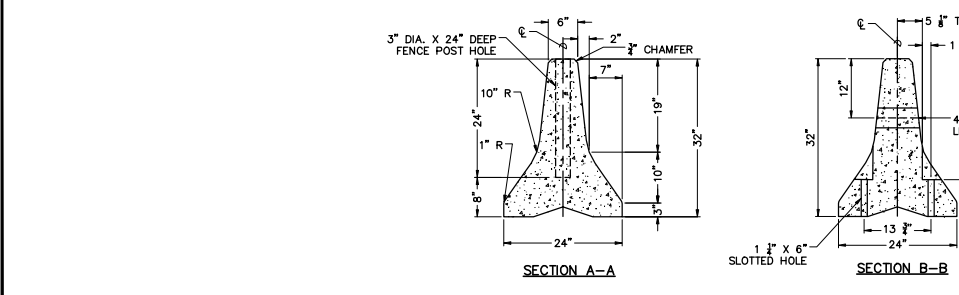
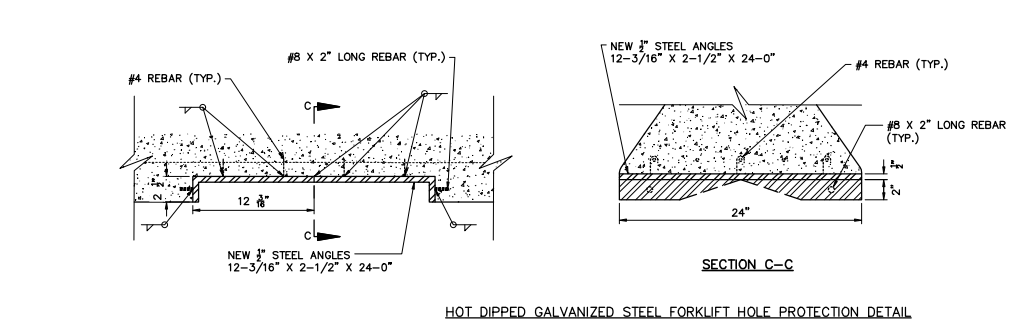
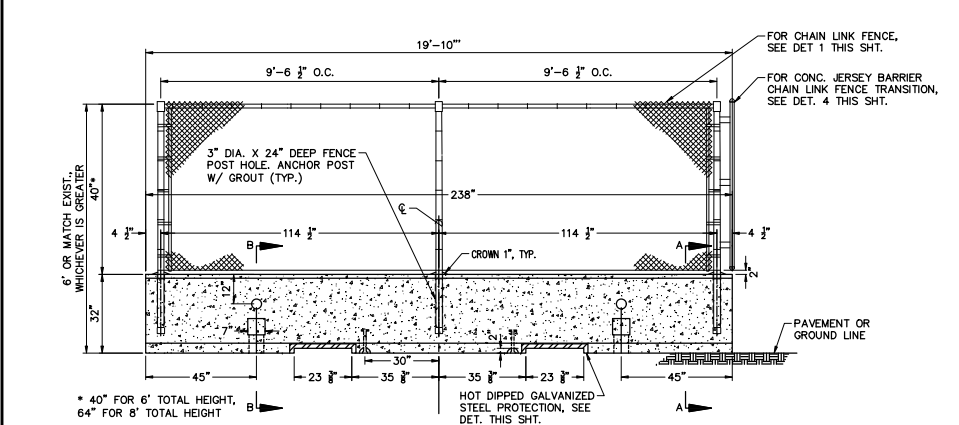
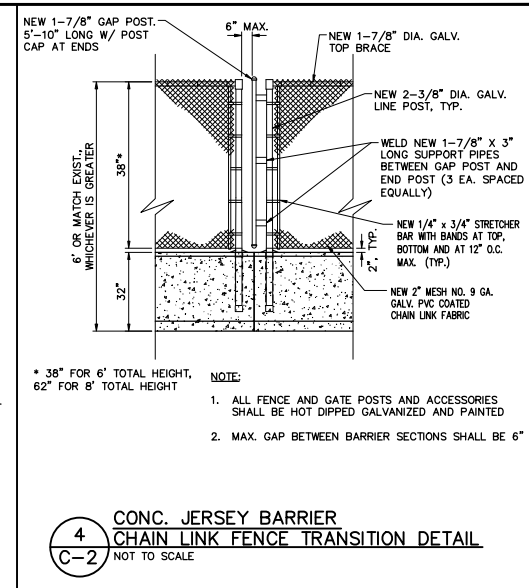
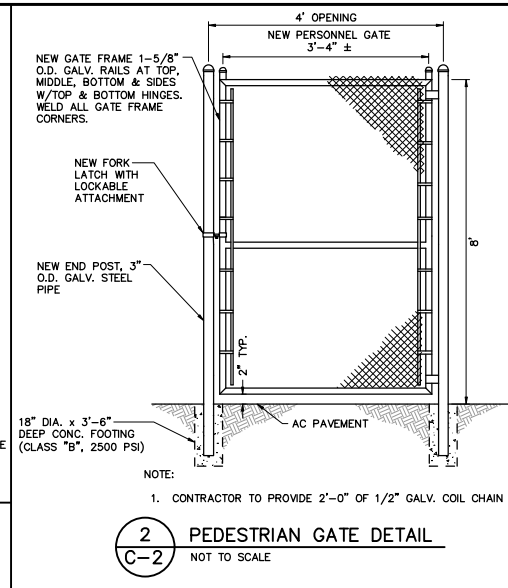
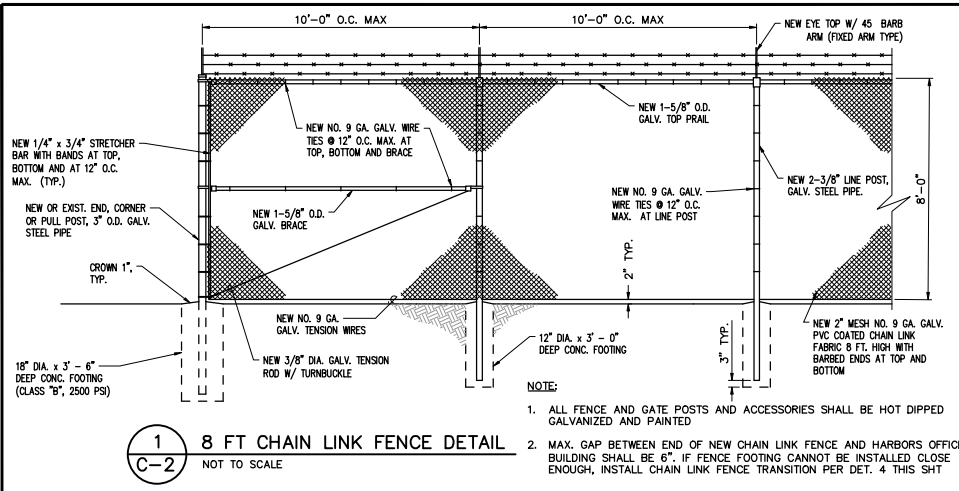
OVERALL SITE PLAN
SCALE: 1" = 10'



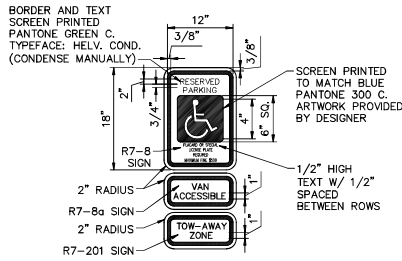
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DESIGNED BY: SAK
DRAWN BY: KJM
CHECKED BY: SAK
DATE: FEB. 2023
EXPIRATION DATE OF LICENSE: AS NOTED

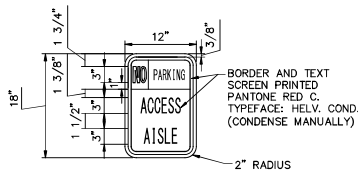
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE OVERALL SITE PLAN				
DESIGNED BY: SAK				C-1
DRAWN BY: KJM				
CHECKED BY: SAK				3 of 22 SHEETS
DATE: FEB. 2023				
EXPIRATION DATE OF LICENSE: AS NOTED				H.C. 50173
SCALE: AS NOTED				



	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE MISCELLANEOUS DETAILS 01				
DESIGNED BY: SAK DRAWN BY: KJM CHECKED BY: SAK DATE: FEB, 2023 EXPIRATION DATE OF LICENSE:		PROJECT ENGINEER FOR ANIWAKA ASSOCIATES LTD. APRIL 30, 2024		JOB NUMBER H.C. 50173	
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION					SHEET C-2 4 of 22 SHEETS



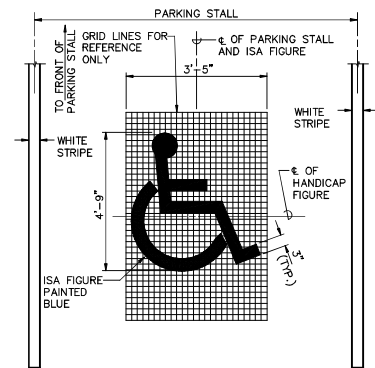
RESERVED PARKING SIGN FOR VAN ACCESSIBLE STALL



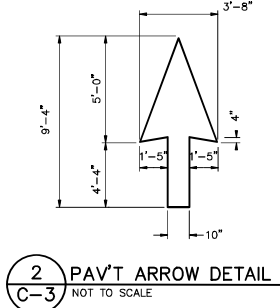
TYPICAL ACCESS AISLE SIGN

- NOTES:**
1. SIGNS SHALL BE ALUM. T6061 SHEET COVERED WITH ENGINEERING GRADE REFLECTIVE SHEETING.
 2. SIGN LETTERING SHALL BE UPPERCASE LETTERS OF THE TYPE APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
 3. ALL NEW ADA PARKING SIGNS TO BE MOUNTED ON NEW CHAIN LINK FENCE AT A HEIGHT OF 5' FROM FINISH GRADE.

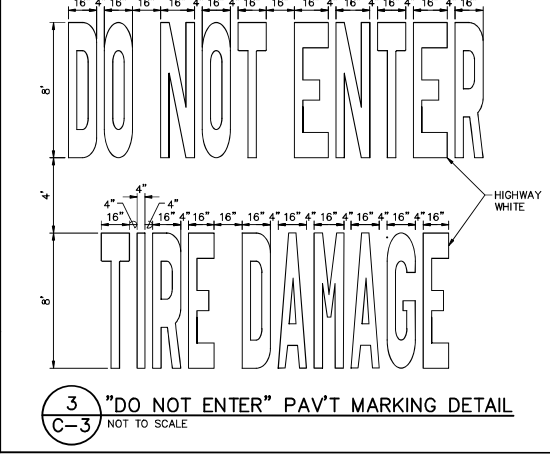
1 ACCESS PARKING SIGN
C-3 NOT TO SCALE



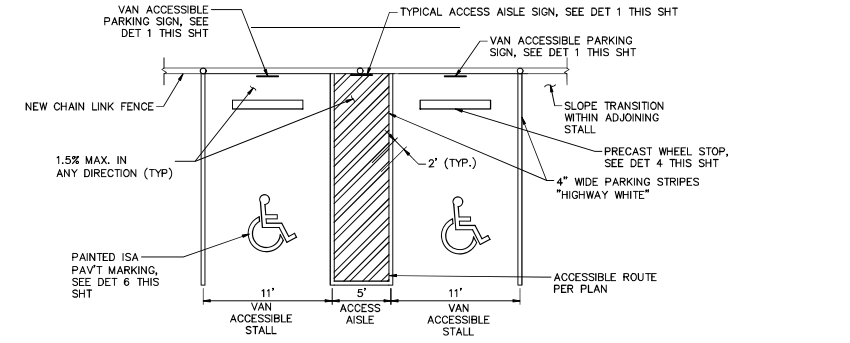
6 HANDICAPPED PAV'T FIGURE
C-3 NOT TO SCALE



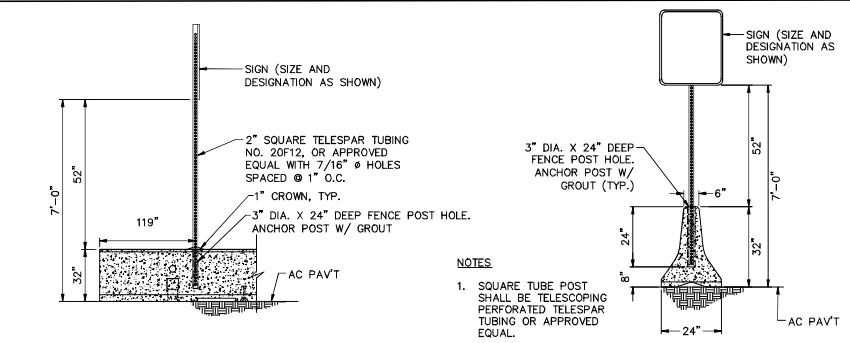
2 PAV'T ARROW DETAIL
C-3 NOT TO SCALE



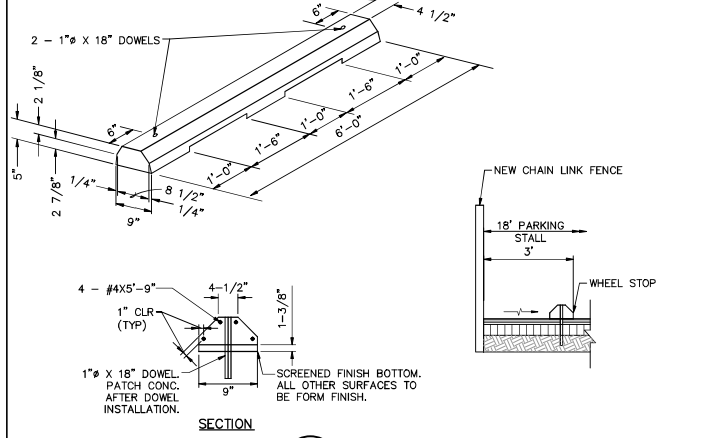
3 "DO NOT ENTER" PAV'T MARKING DETAIL
C-3 NOT TO SCALE



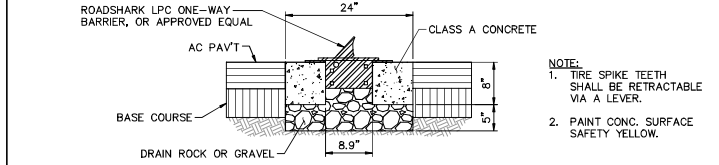
5 STD VAN ACCESSIBLE ADA PARKING LAYOUT
C-3 SCALE: 1"=5'



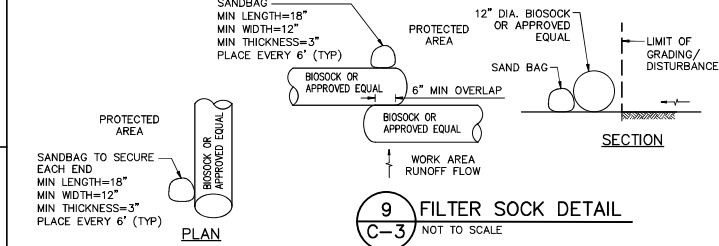
7 TYP SIGN INSTALLATION IN CONC. JERSEY BARRIER
C-3 NOT TO SCALE



4 6' PRECAST WHEEL STOP
C-3 NOT TO SCALE

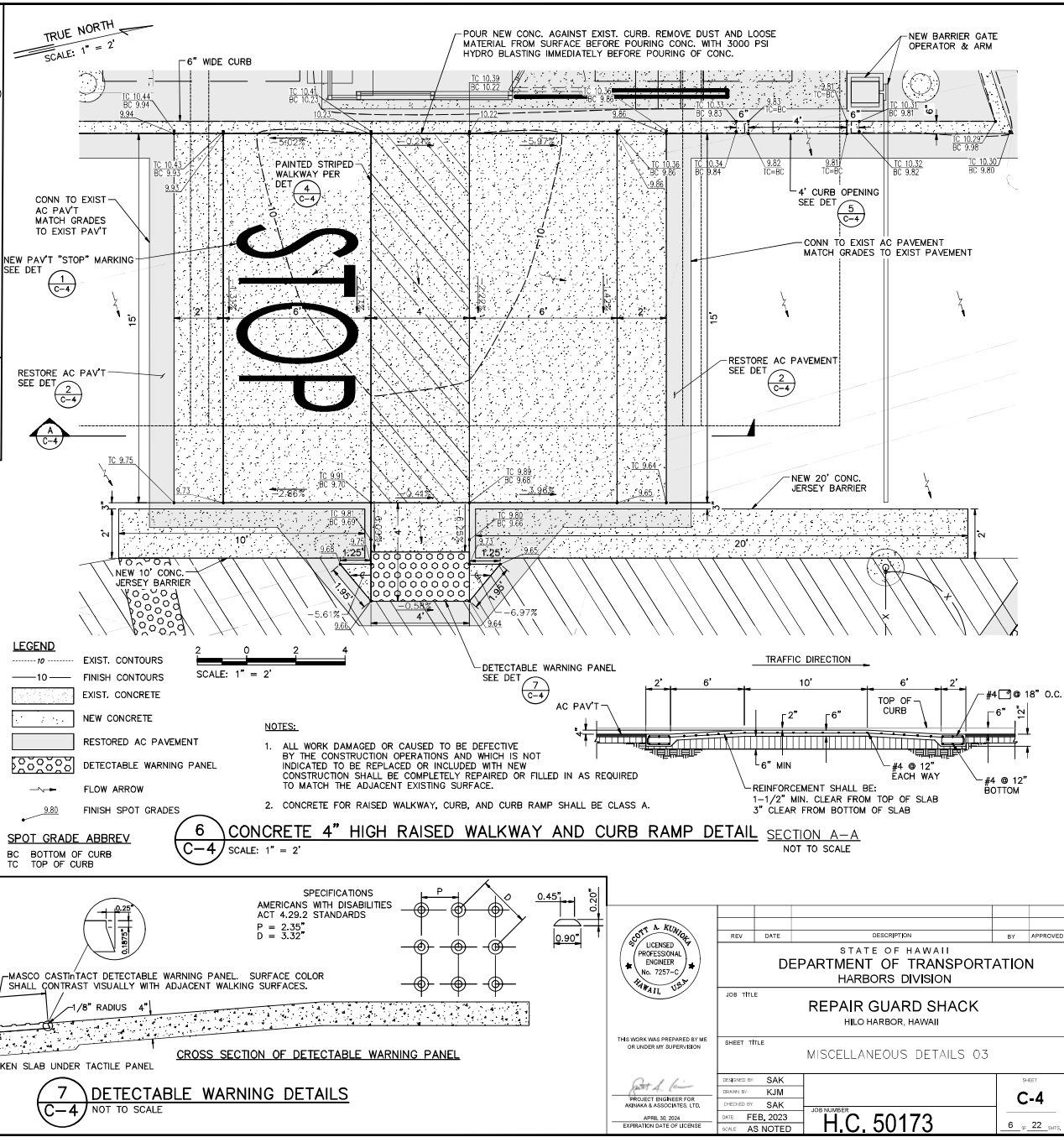
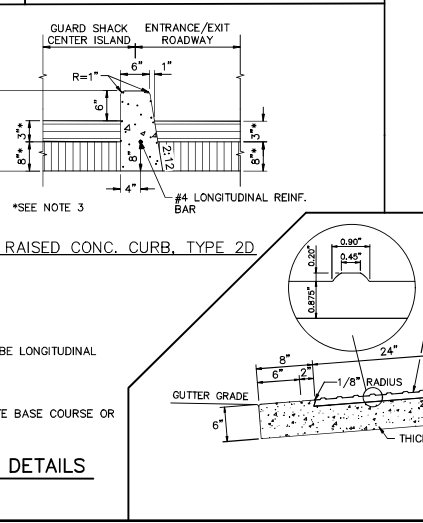
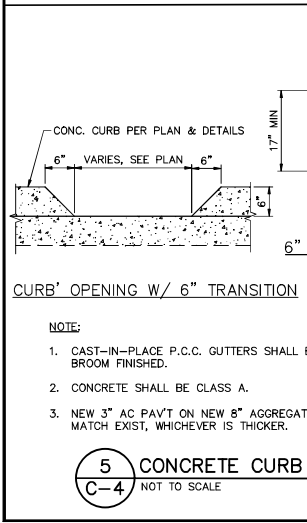
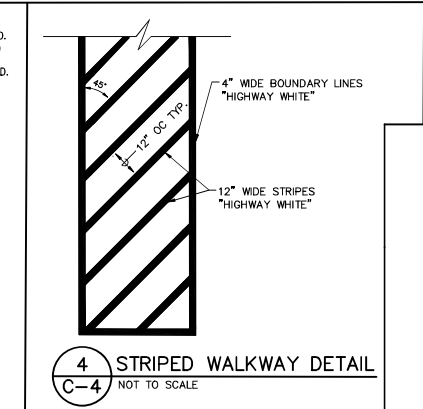
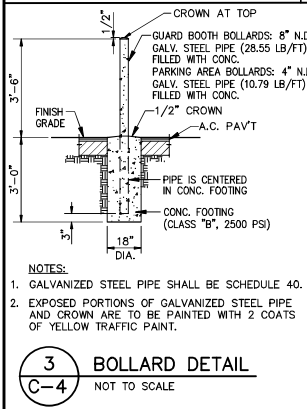
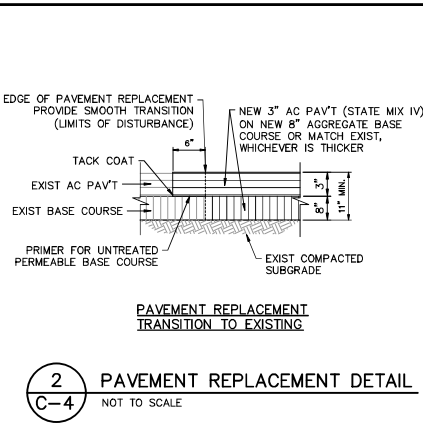
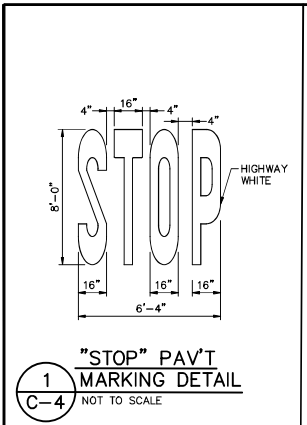


8 TIRE SPIKE STRIP SECTION DETAIL
C-3 NOT TO SCALE



9 FILTER SOCK DETAIL
C-3 NOT TO SCALE

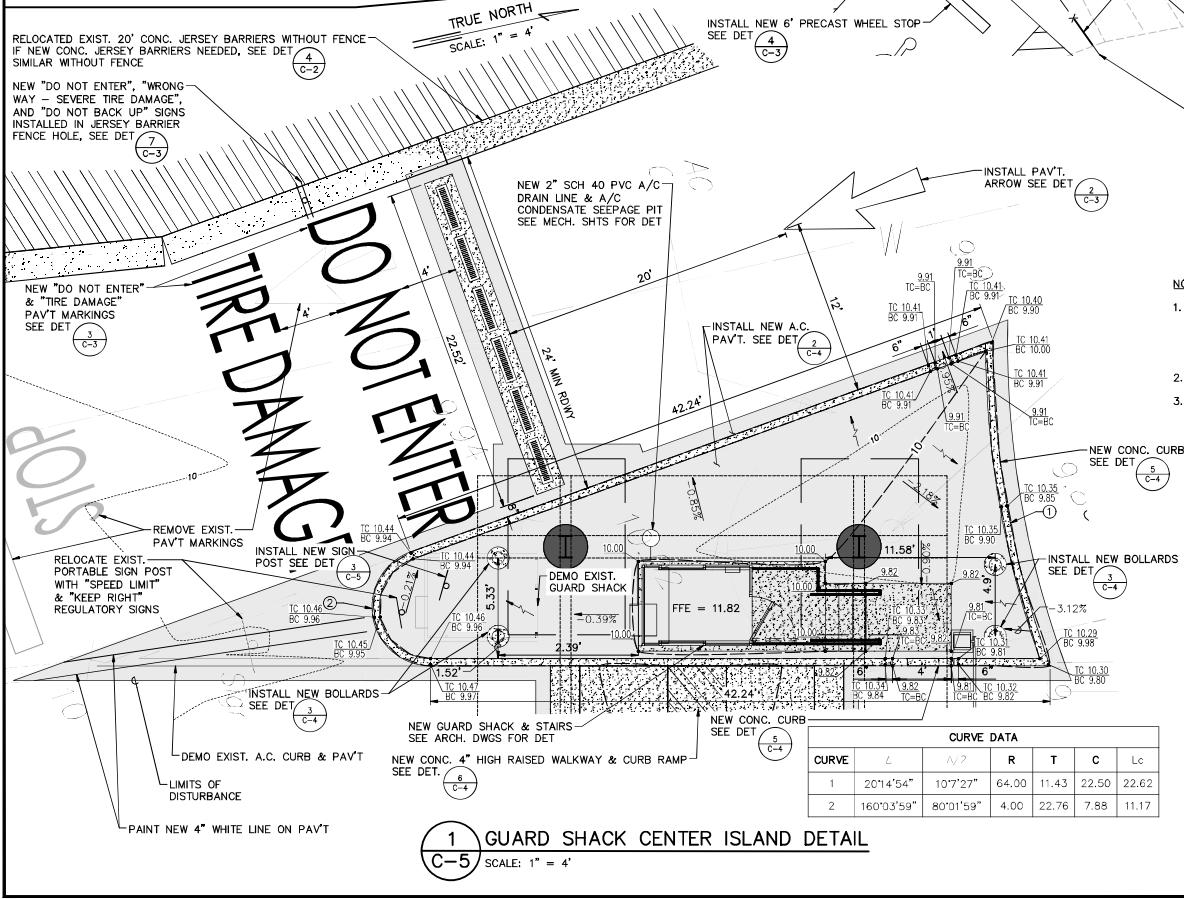
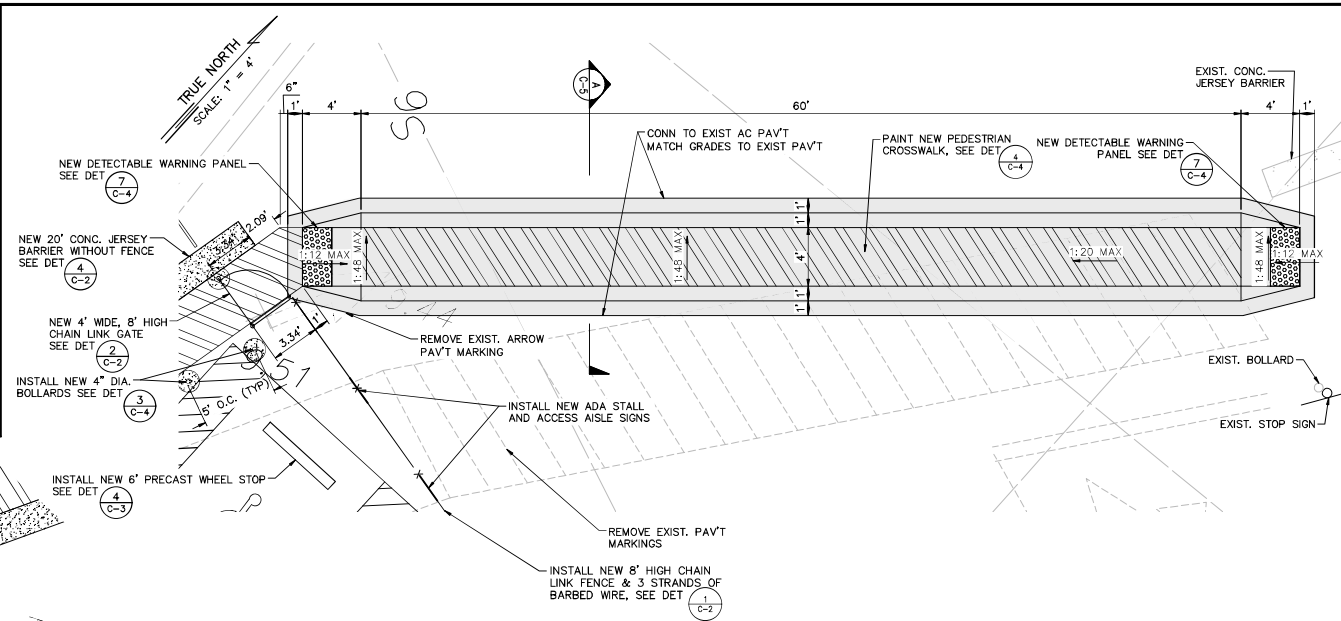
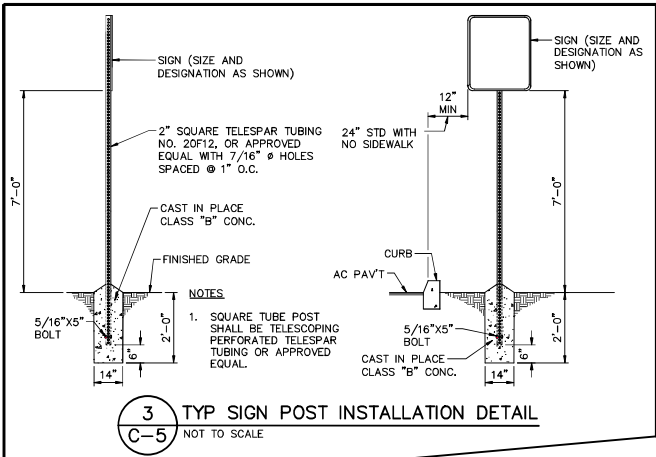
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	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE MISCELLANEOUS DETAILS 02				
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION PROJECT ENGINEER FOR ANHAKA & ASSOCIATES, LTD. APRIL 16, 2024 EXPIRATION DATE OF LICENSE					
DESIGNED BY	SAK	CHECKED BY	KJM	SHEET	
DATE	FEB, 2023	JOB NUMBER	H.C. 50173	C-3	
SCALE	AS NOTED				5 of 22 SHEETS



PROFESSIONAL ENGINEER
KIM J. MURPHY
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE MISCELLANEOUS DETAILS 03				
DESIGNED BY	SAK	CHECKED BY	SAK	DATE
DRAWN BY	KJM	DATE	FEB, 2023	PROJECT NUMBER
DATE	FEB, 2023	EXPIRATION DATE OF LICENSE	APRIL 30, 2024	JOB NUMBER
SCALE	AS NOTED	H.C. 50173		SHEET
				C-4
				6 of 22 SHEETS

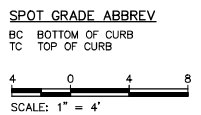


CURVE DATA

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2	160°03'59"	80°01'59"	4.00	22.76	7.88	11.17

- NOTES:**
- ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.
 - CONCRETE FOR RAISED WALKWAY, CURB, AND CURB RAMP SHALL BE CLASS A.
 - CONTRACTOR TO VERIFY THE EXISTING ELEVATIONS AND GRADES IN THE FIELD PRIOR TO CONSTRUCTION.

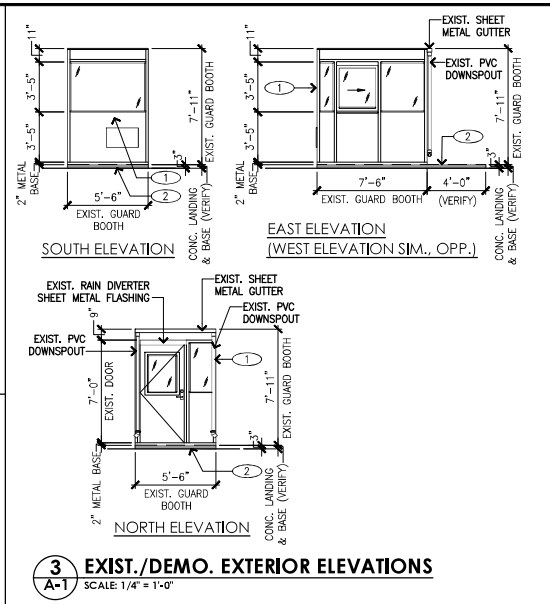
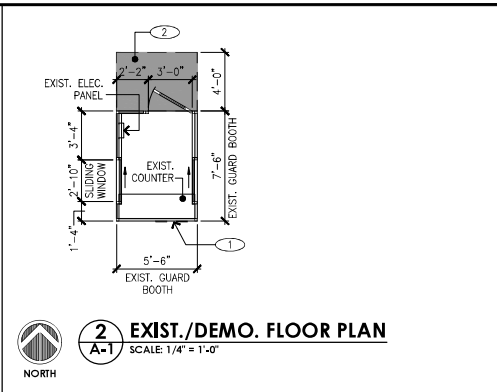
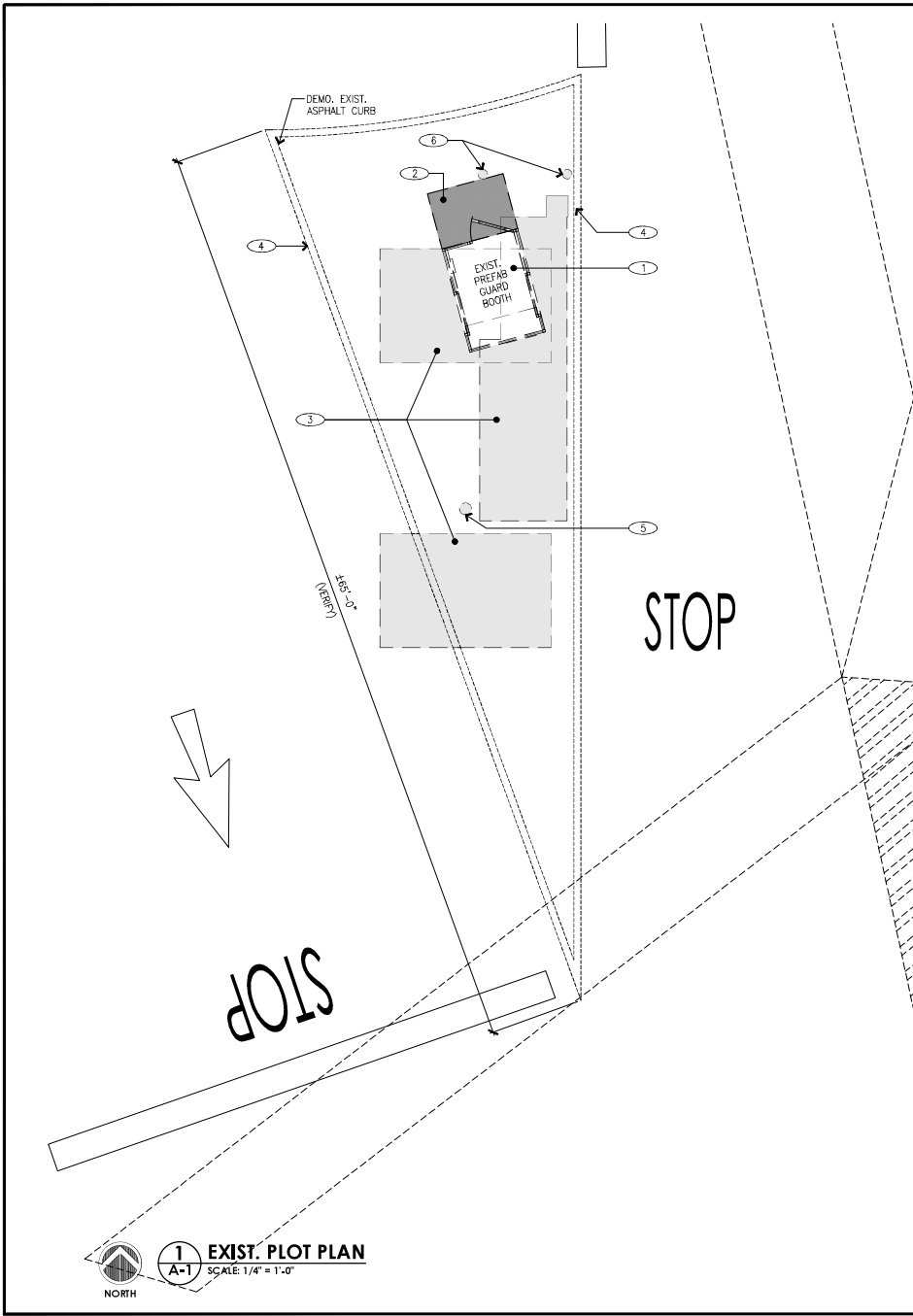
- LEGEND**
- 10 --- EXIST. CONTOURS
 - 10 --- FINISH CONTOURS
 - --- EXIST. CONCRETE
 - --- NEW CONCRETE
 - --- RESTORED AC PAVEMENT
 - --- DETECTABLE WARNING PANEL
 - --- FLOW ARROW
 - 9.50 --- FINISH SPOT GRADES



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PROJECT ENGINEER FOR ANTHONY & ASSOCIATES, LTD.
APRIL 16, 2024
EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE MISCELLANEOUS DETAILS 04				
DESIGNED BY	SAK	CHECKED BY	SAK	DATE
DRAWN BY	KJM	DATE	FEB, 2023	AS NOTED
JOB NUMBER H.C. 50173				9-667 C-5
TWO				7 of 22 SHEETS

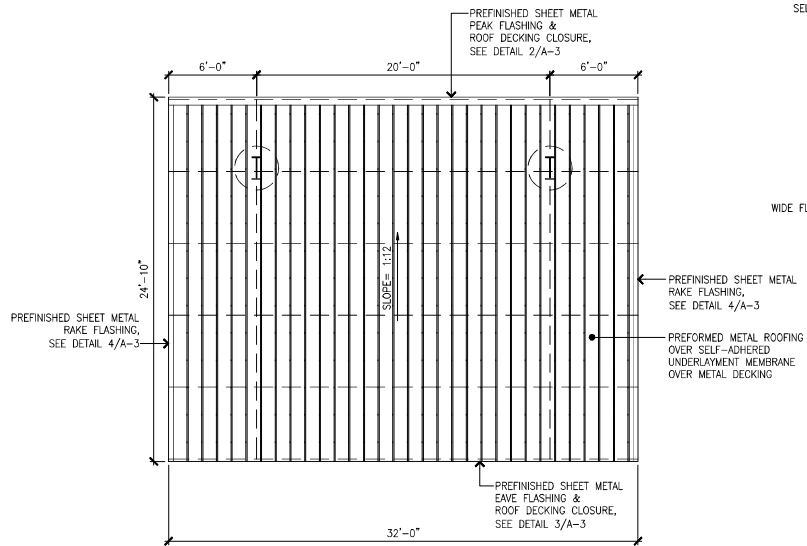


KEY NOTES AND SCOPE OF WORK

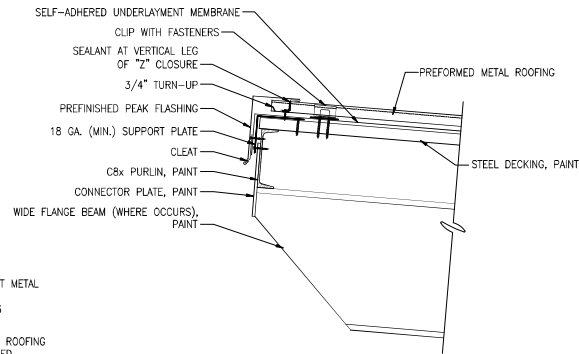
MARK	DESCRIPTION
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②	DEMO. EXIST. CONCRETE SLAB-ON-GRADE LANDING AND GUARD BOOTH BASE.
③	DEMO. ASPHALT CONCRETE PAVING FOR CONSTRUCTION OF NEW CONCRETE STAIRS AND LANDING, NEW GUARD BOOTH CONCRETE BASE, & CONSTRUCTION OF NEW FOOTINGS AND COLUMNS (SHOWN SHADED) FOR NEW AWNING. COORDINATE ACTUAL LOCATIONS WITH STRUCTURAL DRAWINGS.
④	DEMO. EXIST. ASPHALT CONCRETE PAVING CURB.
⑤	DEMO. ASPHALT CONCRETE PAVING FOR CONSTRUCTION OF NEW CONCRETE WINDOW AC CONDENSATE DRYWELL. COORDINATE SIZE AND LOCATION WITH CIVIL AND MECHANICAL DRAWINGS.
⑥	DEMO. ASPHALT CONCRETE PAVING FOR CONSTRUCTION OF NEW PIPE BOLLARDS AND FOUNDATIONS. COORDINATE SIZE AND LOCATION WITH STRUCTURAL DRAWINGS.



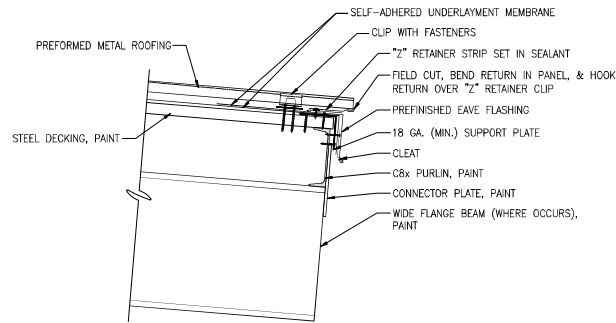
REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE EXIST. PLOT PLAN, EXIST./DEMO. FLOOR PLAN, EXIST./DEMO. EXTERIOR ELEVATIONS				
DESIGNED BY: TH		DRAWN BY: UAI		JOB NUMBER H.C. 50173
CHECKED BY: SU		DATE: FEB, 2023		
EXPIRATION DATE OF LICENSE		SCALE: AS NOTED		SHEET A-1



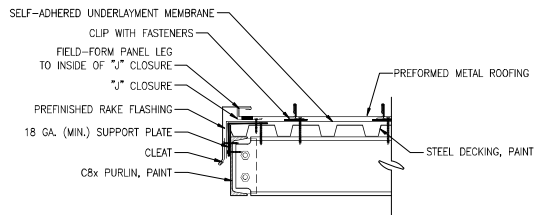
1 NEW CANOPY ROOF PLAN
SCALE: 1/4" = 1'-0"



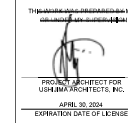
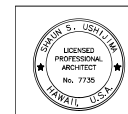
2 PEAK FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



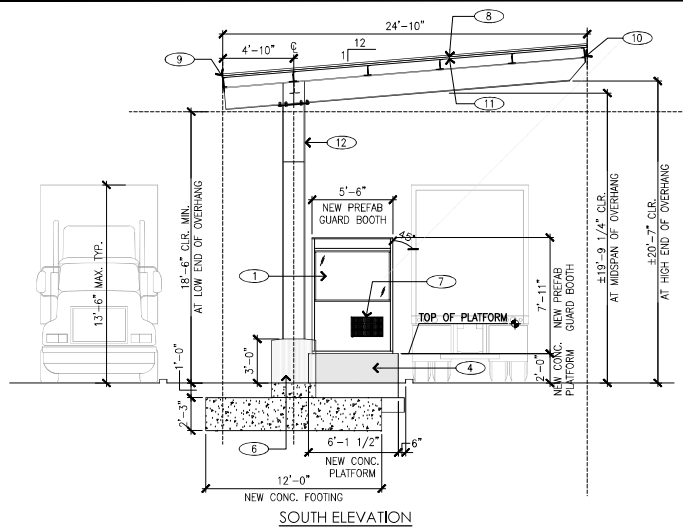
3 EAVE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



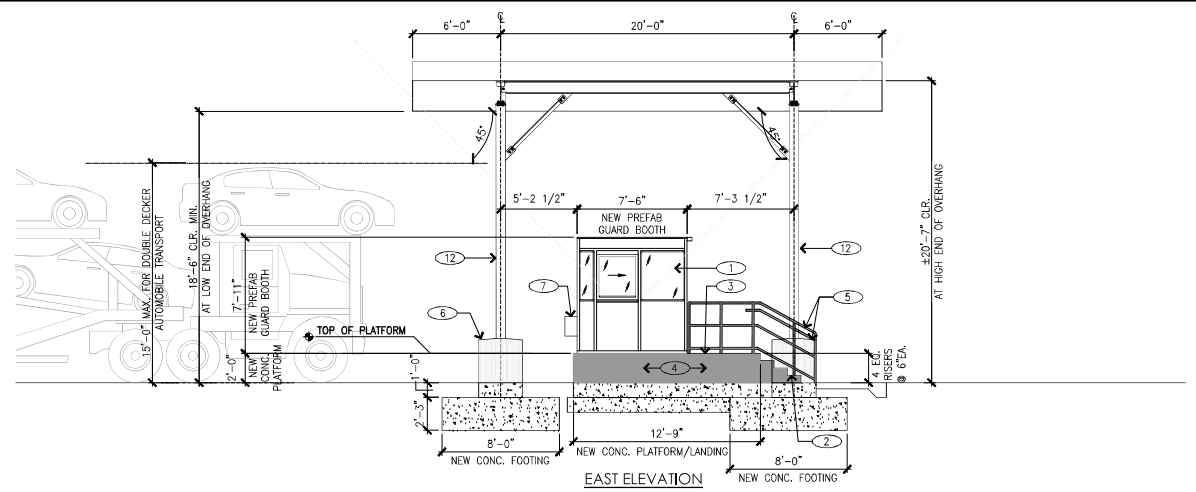
4 RAKE FLASHING DETAIL
SCALE: 1-1/2" = 1'-0"



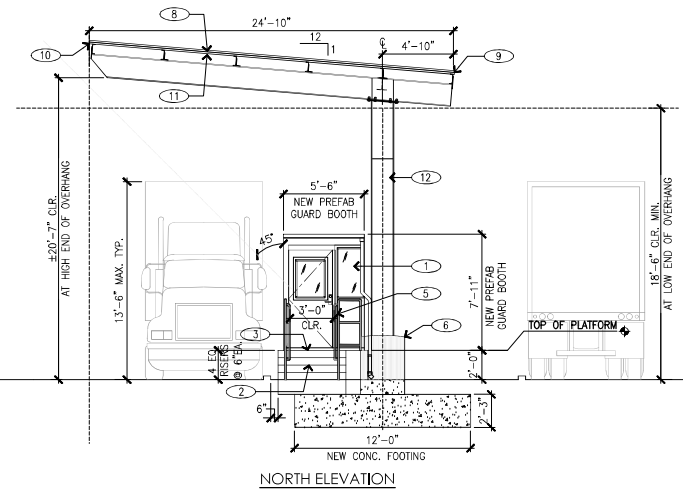
REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE NEW CANOPY ROOF PLAN & DETAILS				
DESIGNED BY: TH		DRAWN BY: UAI		JOB NUMBER H.C. 50173
CHECKED BY: SU		DATE: FEB, 2023		
EXPIRATION DATE OF LICENSE		SCALE: AS NOTED		SHEET A-3 10 of 22 SHEETS



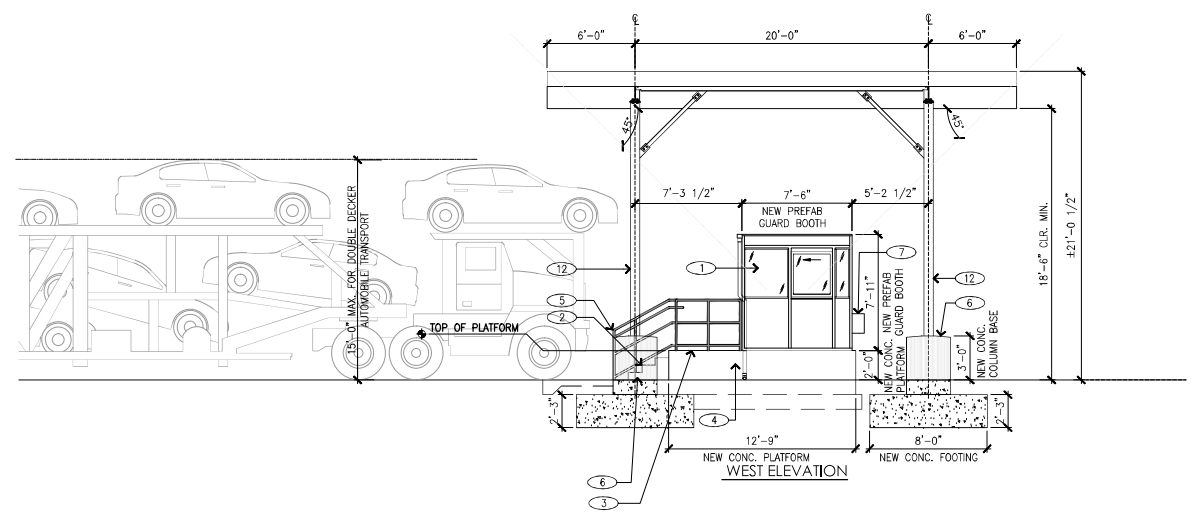
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

NEW WORK EXTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"

KEY NOTES AND SCOPE OF WORK

MARK	DESCRIPTION	MARK	DESCRIPTION
1	NEW PREFAB GUARD SHACK.	8	STANDING SEAM METAL ROOFING OVER GALV. STL. DECKING OVER PURLINS & BEAMS, PAINT UNDERSIDE OF DECKING AND ALL EXPOSED PURLIN AND BEAM SURFACES
2	NEW CONCRETE STAIRS, APPLY CONCRETE SEALER ON ALL EXPOSED SURFACES. APPLY SEALER WITH GRIP ADDITIVE ON TREADS.	9	PREFINISHED SHEET METAL EAVE FLASHING & ROOF DECKING CLOSURE.
3	NEW CONCRETE LANDING, APPLY CONCRETE SEALER ON ALL EXPOSED SURFACES. APPLY SEALER WITH GRIP ADDITIVE ON TOP SURFACE.	10	PREFINISHED SHEET METAL HEAD FLASHING & ROOF DECKING CLOSURE.
4	NEW CONC. PLATFORM, APPLY CONCRETE SEALER ON ALL EXPOSED SURFACES.	11	PREFINISHED SHEET METAL RAKE FLASHING.
5	NEW 1-1/2" DIA. GALV. PIPE GUARDRAILS & HANDRAILS, PAINT.	12	NEW STEEL COLUMN, PAINT.
6	NEW 3'-0" DIA. CONCRETE BASE FOR NEW STEEL COLUMNS, PAINT.		
7	WINDOW AIR CONDITIONING UNIT (INCLUDED WITH PREFAB GUARD BOOTH).		



REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE NEW WORK EXTERIOR ELEVATIONS				
DESIGNED BY: TH		DRAWN BY: LUAI		SHEET A-4
CHECKED BY: SUJ		DATE: FEB. 2023		
EXPIRATION DATE OF LICENSE		JOB NUMBER H.C. 50173		11 of 22 SHEETS

STRUCTURAL NOTES:

GENERAL:

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE HAWAII STATE BUILDING CODE (AMENDED IBC, 2018 EDITION). HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE HARBORS DIVISION CONSTRUCTION ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE HARBORS DIVISION CONSTRUCTION ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- THE CONTRACTOR SHALL RESOLVE ANY DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. NO EXTRA PAYMENT SHALL BE ALLOWED ON ACCOUNT OF WORK MADE NECESSARY BY CONTRACTOR'S FAILURE TO VISIT THE SITE AND/OR FAILURE TO RESOLVE DISCREPANCIES AND QUESTIONS.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND STRUCTURES IN AND ADJACENT TO THE PROJECT SITE. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE HARBORS DIVISION CONSTRUCTION ENGINEER AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.
- NOTES AND DETAILS ON THE STRUCTURAL PLANS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. SHOULD THERE BE CONFLICTS BETWEEN THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.

DESIGN CRITERIA:

- DESIGN LIVE LOADS
 - ROOF 20 PSF
- WIND
 - BASIC WIND SPEED=120 MPH
 - RISK CATEGORY II
 - WIND EXPOSURE D
 - TOPOGRAPHIC FACTOR $K_{zt}=1.0$
 - DIRECTIONALITY FACTOR $K_d=0.85$
 - INTERNAL PRESSURE COEFFICIENT $G_{CPI} = \pm 0.00$
- SEISMIC
 - $S_s=1.500$
 - $S_1=0.500$
 - RISK CATEGORY II
 - SITE CLASS D
 - SEISMIC IMPORTANCE FACTOR $I_e=1.0$
 - SEISMIC DESIGN CATEGORY D
 - SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY CANTILEVERED COLUMN SYSTEMS

SPECIAL INSPECTION:

- THE FOLLOWING STRUCTURAL WORK REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE IBC:
 - CONCRETE
 - BOLTS INSTALLED IN CONCRETE
 - REINFORCING STEEL
 - STRUCTURAL WELDING
 - HIGH STRENGTH BOLTING
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE HAWAII STATE BUILDING CODE, 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 STATE AND PAY FOR RE-INSPECTION.
- CONTRACTOR SHALL PROVIDE THE NAME AND LICENSE OR CERTIFICATION NUMBER OF THE SPECIAL INSPECTOR PRIOR TO START OF WORK. A COPY OF THE INSPECTOR'S REPORT SHALL BE SUBMITTED TO THE HARBORS DIVISION CONSTRUCTION ENGINEER WITHIN 3 DAYS OF THE WORK PERFORMED. COST OF SPECIAL INSPECTION SHALL BE BORNE BY THE CONTRACTOR.

FOUNDATION:

- FOUNDATION DESIGN IS BASED ON CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATION FROM SURFACE WATER, GROUND WATER OR SEEPAGE.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL UNDERPINNING, CRIBBING, SHEETING, AND SHORING NECESSARY TO PRESERVE EXCAVATIONS AND EARTH BANKS.
- FOOTINGS SHALL BEAR ON UNDISTURBED IN-SITU FIRM SOILS. BOTTOM OF FOOTINGS SHALL BE COMPACTED TO PROVIDE A RELATIVELY FIRM AND SMOOTH BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. IF SOFT AND/OR LOOSE MATERIALS ARE ENCOUNTERED AT THE BOTTOM OF FOOTING EXCAVATIONS, THEY SHALL BE OVER-EXCAVATED TO EXPOSE THE UNDERLYING FIRM MATERIALS. THE OVER-EXCAVATION SHALL BE BACKFILLED WITH SELECT GRANULAR MATERIAL COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION OR THE FOOTING BOTTOM MAY BE EXTENDED DOWN TO THE UNDERLYING COMPETENT MATERIAL.
- EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE HARBORS DIVISION CONSTRUCTION ENGINEER PRIOR TO PLACEMENT OF CONCRETE AND REINFORCING.
- EXCAVATIONS SHALL BE PROPERLY BACKFILLED.
 - BACKFILL MATERIAL SHALL CONSIST OF SOIL WHICH IS FREE OF ORGANICS, EXPANSIVE CLAY AND DEBRIS. BACKFILL MATERIAL SHALL BE LESS THAN 3 INCHES IN GREATEST DIMENSION.
 - BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS.
 - EACH LAYER OF BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557 TEST PROCEDURE.
- DURING CONSTRUCTION, DRAINAGE SHALL BE PROVIDED TO MINIMIZE PONDING OF WATER ADJACENT TO OR ON FOUNDATION AND PAVEMENT AREAS. PONDING AREAS SHALL BE DRAINED IMMEDIATELY. ANY SUBGRADE SOIL THAT HAS BECOME SOFT DUE TO PONDING SHALL BE REMOVED TO FIRM MATERIAL AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS FROM LATERAL LOADS UNTIL ATTACHING SLABS ARE COMPLETELY IN PLACE AND HAVE ATTAINED THEIR FULL DESIGN STRENGTH.

CONCRETE:

- CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE ACI 318-14.
- CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI. MIX SHALL INCLUDE CORTEC MCI-2005 NS MIGRATING CORROSION INHIBITING ADMIXTURE, OR APPROVED EQUAL.
- MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO SHALL BE 0.40.
- CONCRETE DELIVERY TICKETS SHALL RECORD ALL FREE WATER IN THE MIX; AT BATCHING BY PLANT, FOR CONSISTENCY BY DRIVER, AND ANY ADDITIONAL REQUEST BY CONTRACTOR IF PERMITTED BY THE MIX DESIGN.
- ALL INSERTS, ANCHOR BOLTS, PLATES, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
- REINFORCING BARS, ANCHOR BOLTS, INSERTS, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE.
- CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB OR FOOTING AND NOT CONFORMING TO TYPICAL DETAILS SHALL BE LOCATED AND SUBMITTED TO THE HARBORS DIVISION CONSTRUCTION ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES. SUBMIT LOCATION OF CONSTRUCTION JOINTS TO THE HARBORS DIVISION CONSTRUCTION ENGINEER FOR APPROVAL, UNLESS OTHERWISE NOTED.
- SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADI, DRIPS, REGLETS, FINISHES AND OTHER NON-STRUCTURAL ITEMS NOT SHOWN OR SPECIFIED ON THE STRUCTURAL DRAWINGS.
- NON-SHRINK GROUT SHALL BE A PREMIXED NON-METALLIC FORMULA, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 1 DAY AND 5,000 PSI IN 28 DAYS.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - FOOTINGS, ETC. CAST AGAINST EARTH 3"
 - FOOTINGS, ETC. FORMED AND EXPOSED TO EARTH OR WEATHER 2"
 - PEDESTALS
PRIMARY REINFORCEMENT, STIRRUPS, AND TIES 2"
- REINFORCING STEEL SHALL BE SPLICED WHERE INDICATED ON PLANS. PROVIDE LAP SPLICE LENGTH OF 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED.
- BAR BENDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE WITH ACI 318.
- TIE WIRE SHALL BE PLASTIC-COATED, STAINLESS STEEL, OR MADE OF DIELECTRIC OR OTHER ACCEPTABLE MATERIAL. ALL LOOSE REINFORCING STEEL SHALL BE SECURED WITH TIES AT ALL INTERSECTIONS WITH ADJACENT REINFORCING STEEL.

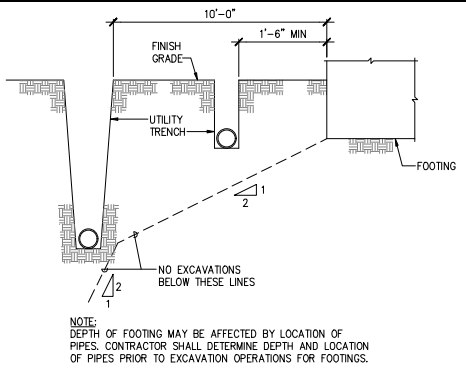
STRUCTURAL STEEL:

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, FIFTEENTH EDITION.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.
- STEEL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992.
- HIGH-STRENGTH STEEL PLATES SHALL CONFORM TO ASTM A572, GRADE 50.
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325N, TYPE 1.
- TENSION-CONTROL, HIGH-STRENGTH, BOLT-NUT-WASHER ASSEMBLIES SHALL CONFORM TO ASTM F3125, GRADE F1852, TYPE 1.
- HEADED ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55, GALVANIZED.
- WELDS AND WELDING PROCEDURES SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
- WELDING SHALL BE PERFORMED BY WELDERS PREQUALIFIED FOR WELDING PROCEDURES TO BE USED.
- WELDING ELECTRODES SHALL BE E70XX.
- ALL STEEL SHALL BE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, ASTM A153, AND ASTM F2329.
- GALVANIZING REPAIR PAINT SHALL CONFORM WITH ASTM A780.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE HARBORS DIVISION CONSTRUCTION ENGINEER FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL CONTAIN DETAILS OF FABRICATION AND ERECTION. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF THE CONTRACT DRAWINGS.

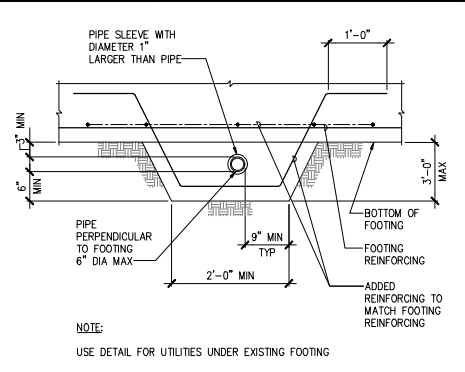
STEEL DECK:

- STEEL DECK AND ACCESSORIES SHALL BE OF THE TYPE AND GAGE CALLED FOR ON THE DRAWINGS.
- STEEL DECK AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653 SS GRADE 50 WITH G90 GALVANIZED COATING.
- DECK SHALL BE THREE SPAN CONTINUOUS WHERE POSSIBLE. DO NOT LOCATE SINGLE SPANS AT EDGES OR CORNERS.
- MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2 INCHES.
- DECK FASTENERS SHALL BE HILTI X-R STAINLESS STEEL POWDER ACTUATED DECK FASTENERS AS MANUFACTURED BY HILTI, INC. OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- SCREWS SHALL BE STAINLESS STEEL SELF-DRILLING NO. 12 SCREWS. MINIMUM EDGE DISTANCE AND CENTER TO CENTER SPACING SHALL BE 3/4 INCH.

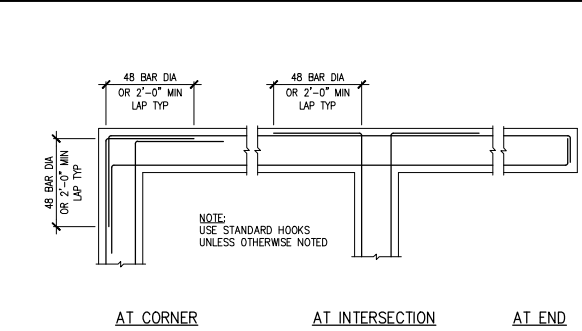
 <p>LOGAN A. LEE LICENSED PROFESSIONAL ENGINEER No. 16319-D HAWAII, U.S.A.</p> <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p>  <p>WME ASSOCIATES LLC APRIL 10, 2024 EXPIRATION DATE OF LICENSE</p>	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE STRUCTURAL NOTES				
DESIGNED BY	LL	CHECKED BY	DL	DATE	FEB, 2023
DRAWN BY	BK	DATE	FEB, 2023	SCALE	AS NOTED
JOB NUMBER H.C. 50173				SHEET S-1	
					12 of 22 SHEETS



1
S-2
TYPICAL UTILITY TRENCH ADJACENT TO FOOTING
NOT TO SCALE

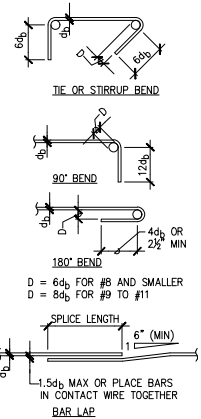


2
S-2
TYPICAL UTILITY UNDER FOOTING
NOT TO SCALE

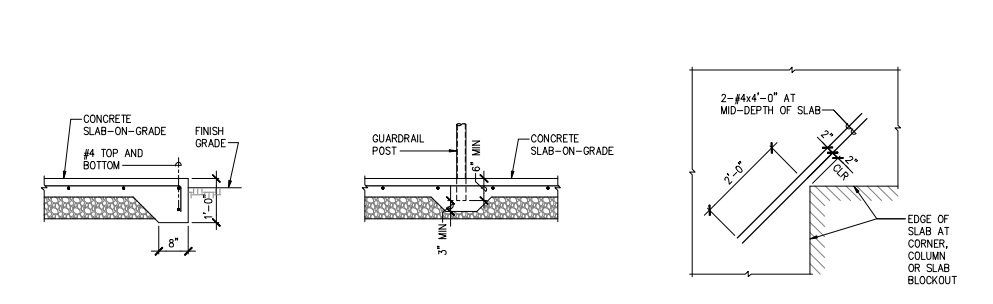


3
S-2
FOOTING INTERSECTION REINFORCEMENT
NOT TO SCALE

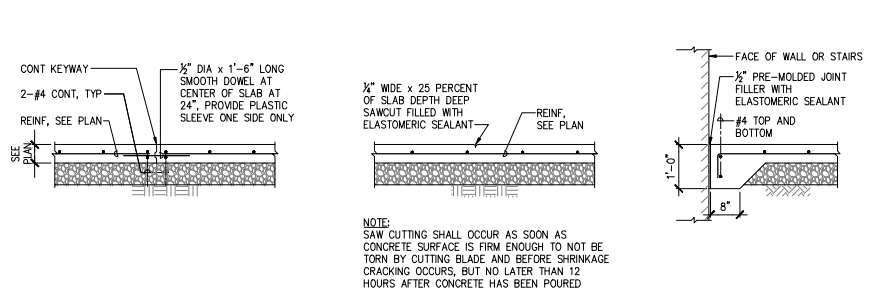
MINIMUM SPLICE & EMBEDMENT LENGTHS						
CONCRETE STRENGTH = 5,000 PSI						
BAR SIZE	LAP SPLICE		EMBEDMENT			
	BOT BAR OR WALL BAR	TOP BAR	BOT BAR OR WALL BAR	TOP BAR	W/ STD HOOK	
#3	16"	20"	12"	16"	9"	
#4	16"	20"	12"	16"	9"	
#5	17"	22"	13"	17"	11"	
#6	20"	26"	15"	20"	13"	
#7	29"	38"	22"	29"	15"	
#8	33"	43"	25"	33"	17"	
#9	37"	49"	29"	37"	19"	
#10	42"	55"	32"	42"	22"	
#11	47"	61"	36"	47"	24"	



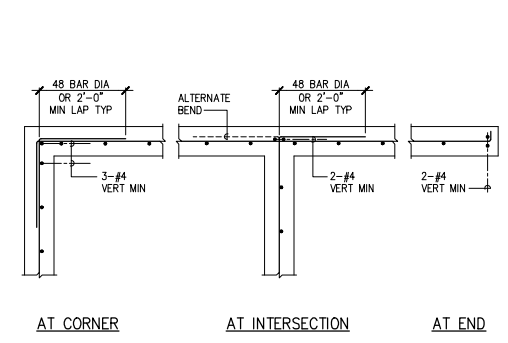
4
S-2
REBAR SPLICE AND EMBEDMENT LENGTH SCHEDULE
NOT TO SCALE



5
S-2
TYPICAL SLAB-ON-GRADE DETAILS
NOT TO SCALE



6
S-2
TYPICAL SLAB-ON-GRADE JOINT DETAILS
NOT TO SCALE



7
S-2
WALL INTERSECTION REINFORCEMENT
NOT TO SCALE

LOGAN A. LEE
LICENSED PROFESSIONAL ENGINEER
No. 16319-D
HAWAII, U.S.A.

REV	DATE	DESCRIPTION	BY	APPROVED

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION

REPAIR GUARD SHACK
HILO HARBOR, HAWAII

SHEET TITLE
TYPICAL DETAILS

LOGAN A. LEE
MSE ASSOCIATES LLC
APRIL 10, 2024
EXPIRATION DATE OF LICENSE

DESIGNED BY: LL
DRAWN BY: DL
CHECKED BY: BK

DATE: FEB, 2023
SCALE: AS NOTED

JOB NUMBER
H.C. 50173

SHEET
S-2

13 of 22 SHEETS

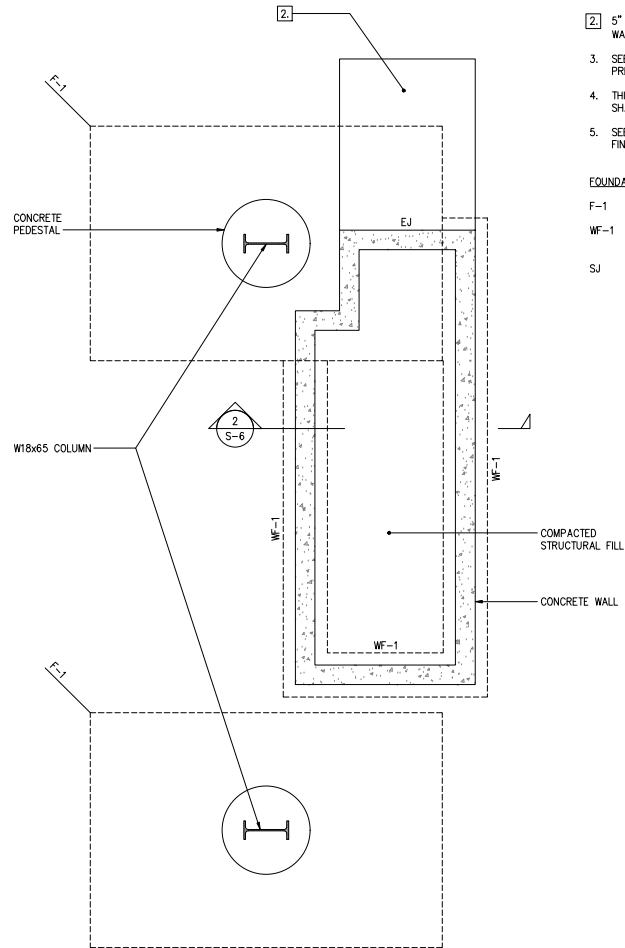
FOUNDATION NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. 5" CONCRETE SLAB-ON-GRADE WITH #4 AT 15" EACH WAY AT 2" BELOW TOP OF SLAB OVER 6" BASE COURSE.
3. SEE GENERAL NOTES SHEET S-1 FOR SUBGRADE PREPARATION.
4. THICKNESS OF SLAB-ON-GRADE SHOWN IS MINIMUM AND SHALL BE MAINTAINED AT ALL SLOPED AREAS.
5. SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND FINISHED FLOOR ELEVATIONS.

FOUNDATION LEGEND:

- F-1 INDICATES FOOTING TYPE, SEE FOOTING SCHEDULE
 WF-1 INDICATES WALL FOOTING TYPE, SEE FOOTING SCHEDULE
 SJ INDICATES SLAB JOINT TYPE, SEE 6/S-2

FOOTING SCHEDULE	
MARK	REFERENCE
F-1	1/S-6
WF-1	2/S-6

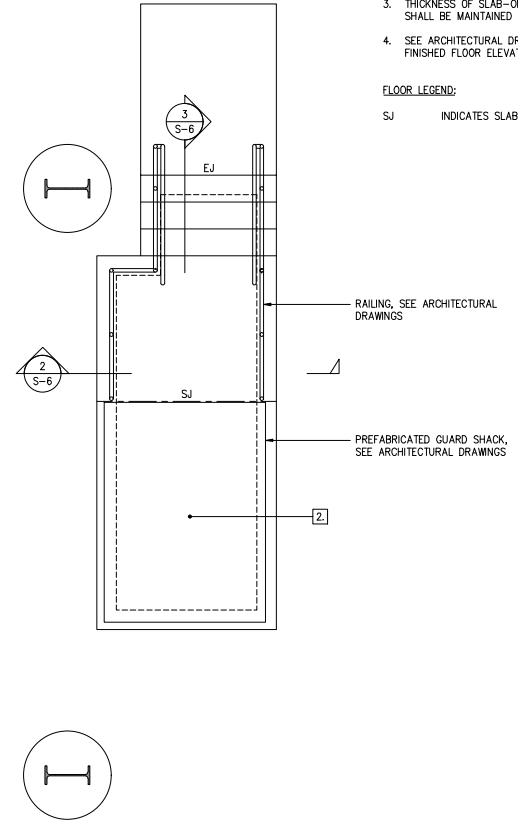


FLOOR NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. 5" CONCRETE SLAB-ON-GRADE WITH #4 AT 15" EACH WAY AT 2" BELOW TOP OF SLAB OVER 6" BASE COURSE.
3. THICKNESS OF SLAB-ON-GRADE SHOWN IS MINIMUM AND SHALL BE MAINTAINED AT ALL SLOPED AREAS.
4. SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND FINISHED FLOOR ELEVATIONS.

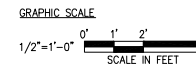
FLOOR LEGEND:

- SJ INDICATES SLAB JOINT TYPE, SEE 6/S-2



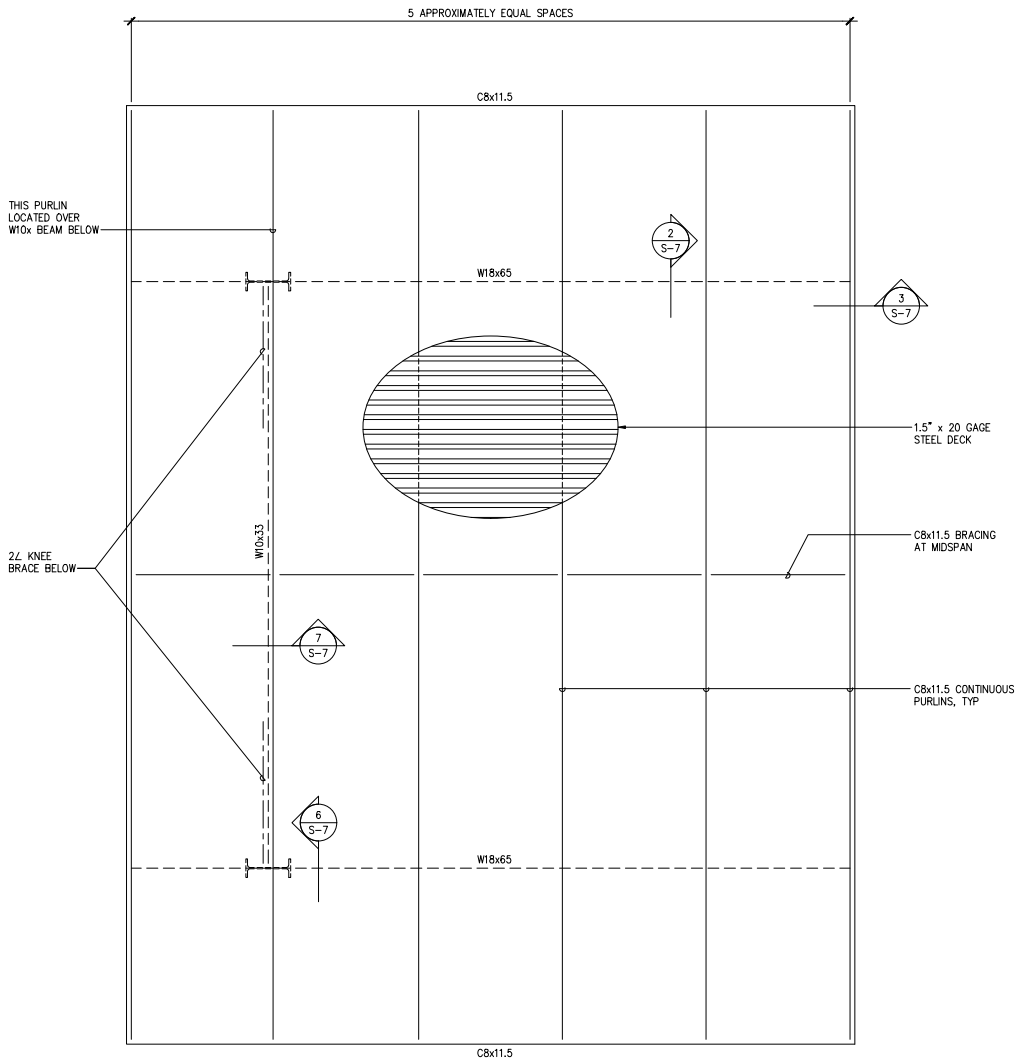
FOUNDATION PLAN
 SCALE: 1/2" = 1'-0"

FLOOR FRAMING PLAN
 SCALE: 1/2" = 1'-0"

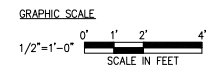


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	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE FOUNDATION AND FLOOR FRAMING PLANS				
DESIGNED BY	LL	DRAWN BY	DL	CHECKED BY	BK
DATE	FEB, 2023	JOB NUMBER	H.C. 50173		
EXPIRATION DATE OF LICENSE	APRIL 30, 2024	SCALE	AS NOTED		

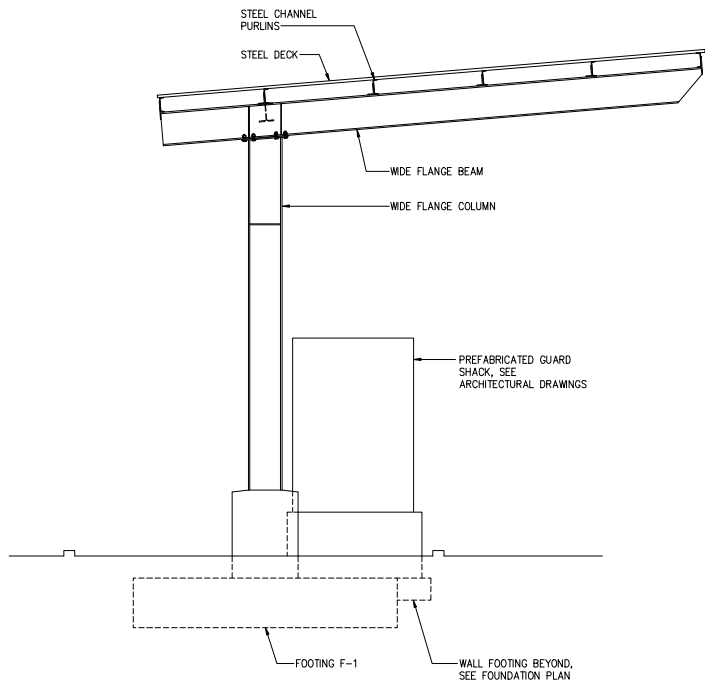
SHEET
S-3
14 of 22 SHEETS



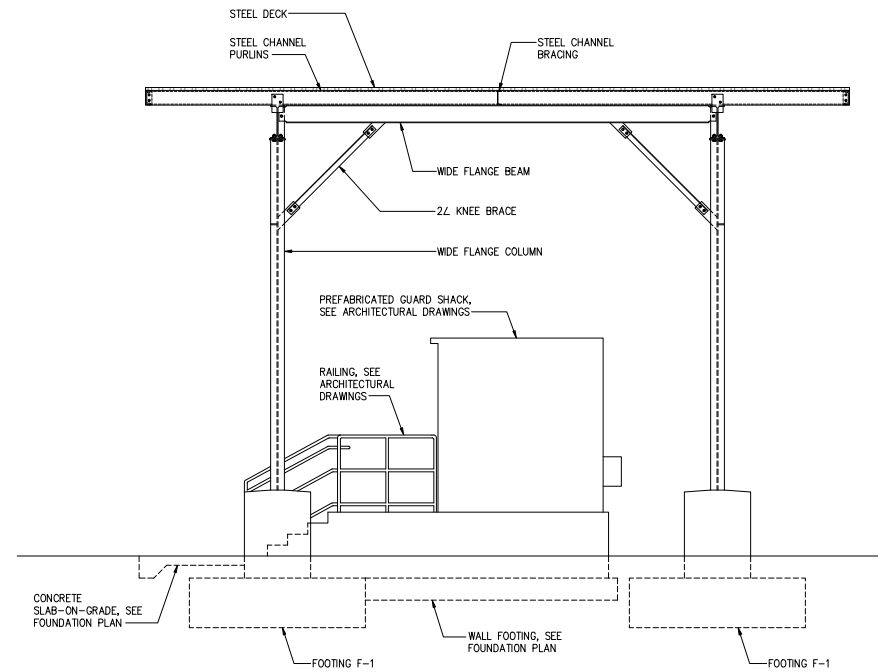
ROOF FRAMING PLAN
SCALE: 1/2" = 1'-0"



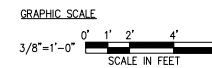
	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE ROOF FRAMING PLAN				
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION 					
DESIGNED BY: LL DRAWN BY: DL CHECKED BY: BK		DATE: FEB, 2023 SCALE: AS NOTED		SHEET NUMBER S-4 JOB NUMBER H.C. 50173	
EXPIRATION DATE OF LICENSE APRIL 30, 2024				15 of 22 SHEETS	



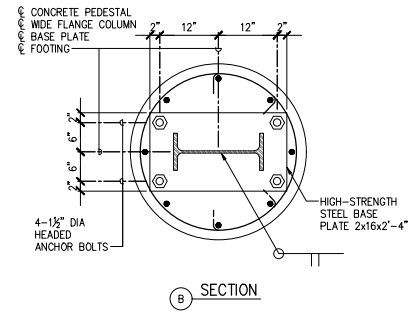
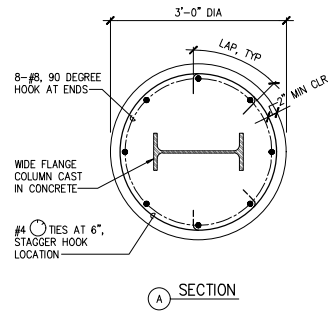
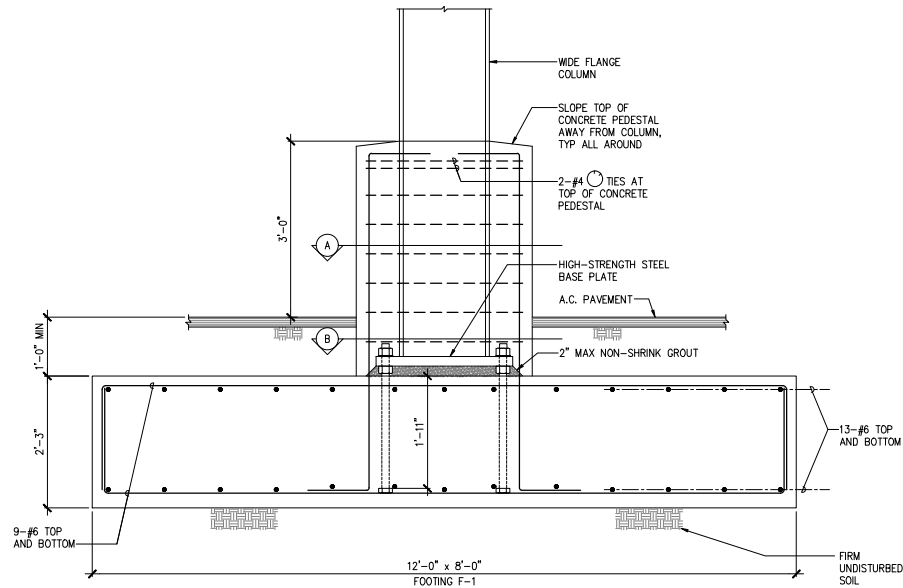
1 ELEVATION
S-5 SCALE: 3/8" = 1'-0"



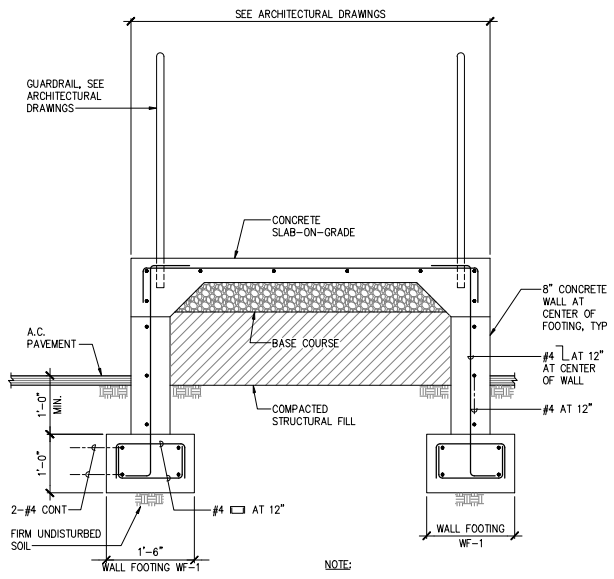
2 ELEVATION
S-5 SCALE: 3/8" = 1'-0"



<p>LOGAN A. LEE LICENSED PROFESSIONAL ENGINEER No. 16315-D HAWAII, U.S.A.</p> <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p> <p>MIKE ASSOCIATES LLC APRIL 30, 2024 EXPIRATION DATE OF LICENSE</p>	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE ELEVATIONS				
DESIGNED BY: LL					SHEET S-5
DRAWN BY: DL					
CHECKED BY: BK					JOB NUMBER H.C. 50173
DATE: FEB, 2023					
SCALE: AS NOTED					16 of 22 SHEETS



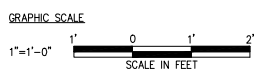
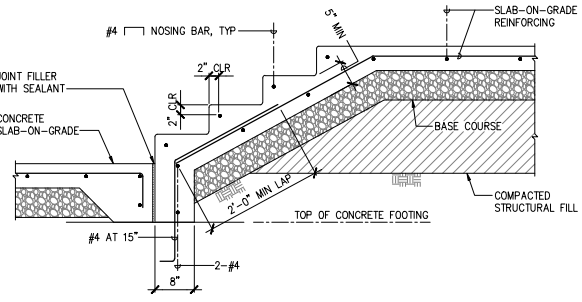
1
S-6 FOOTING F-1
SCALE: 1" = 1'-0"



NOTE:
1. BRACE OR PROTECT WALLS FROM LATERAL LOADS UNTIL ATTACHING SLAB IS COMPLETELY IN PLACE AND HAS ATTAINED ITS FULL DESIGN STRENGTH.

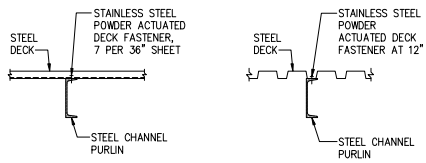
2
S-6 SECTION
SCALE: 1" = 1'-0"

- NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
 2. SEE ARCHITECTURAL DRAWINGS FOR GUARDRAILS. GUARDRAILS BEYOND NOT SHOWN FOR CLARITY.



3
S-6 SECTION
SCALE: 1" = 1'-0"

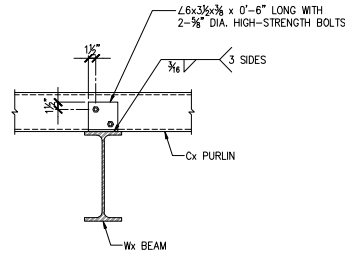
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	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE DETAILS				
DESIGNED BY: LL DRAWN BY: DL CHECKED BY: BK		JOB NUMBER H.C. 50173		SHEET S-6	
APRIL 30, 2024 EXPIRATION DATE OF LICENSE		DATE: FEB, 2023 SCALE: AS NOTED		17 of 22 SHEETS	



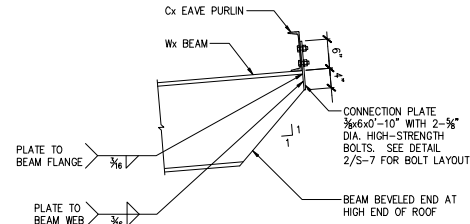
NOTES:

- MINIMUM SECTION PROPERTIES OF STEEL DECK AT ROOF SHALL BE:
 $I = 0.240 \text{ IN}^4/\text{FT}$
 $S+ = 0.228 \text{ IN}^3/\text{FT}$
 $S- = 0.236 \text{ IN}^3/\text{FT}$
 DEPTH = 1.5 IN
 GAGE = 20
- PROVIDE #12 STAINLESS STEEL SCREWS AT 24" AT SIDELAPS.

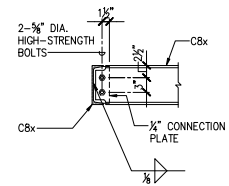
1 STEEL DECK CONNECTIONS
 S-7 NOT TO SCALE



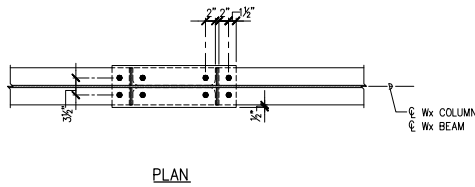
2 TYPICAL PURLIN TO BEAM CONNECTION
 S-7 SCALE: 1" = 1'-0"



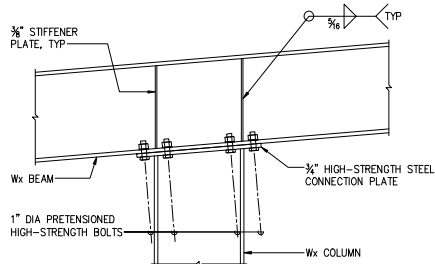
3 EAVE PURLIN TO BEAM CONNECTION
 S-7 SCALE: 1" = 1'-0"



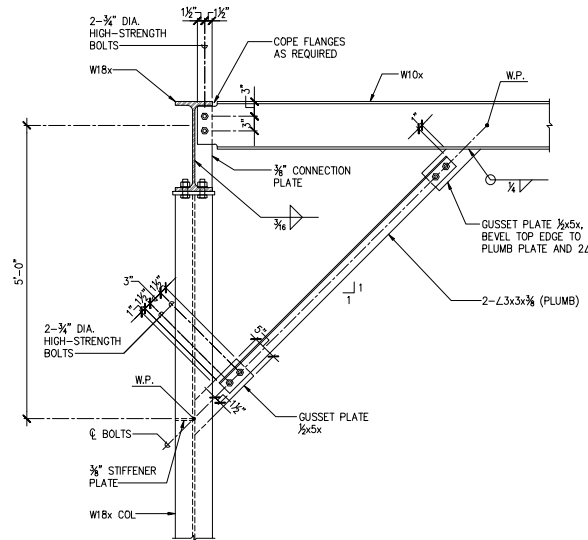
4 TYPICAL Cx TO Cx CONNECTION
 S-7 SCALE: 1" = 1'-0"



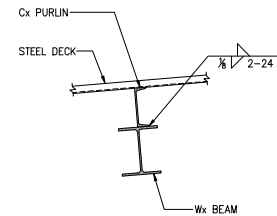
PLAN



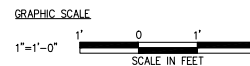
5 BEAM TO COLUMN CONNECTION
 S-7 SCALE: 1" = 1'-0"



6 TYPICAL KNEE BRACE DETAIL
 S-7 SCALE: 1" = 1'-0"



7 SECTION
 S-7 SCALE: 1" = 1'-0"



	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII					
SHEET TITLE STRUCTURAL STEEL DETAILS					
DESIGNED BY: LL DRAWN BY: DL CHECKED BY: BK DATE: FEB, 2023 EXPIRATION DATE OF LICENSE: AS NOTED	JOB NUMBER H.C. 50173				SHEET S-7 18 of 22 SHEETS

GENERAL NOTES:

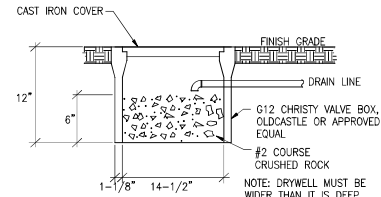
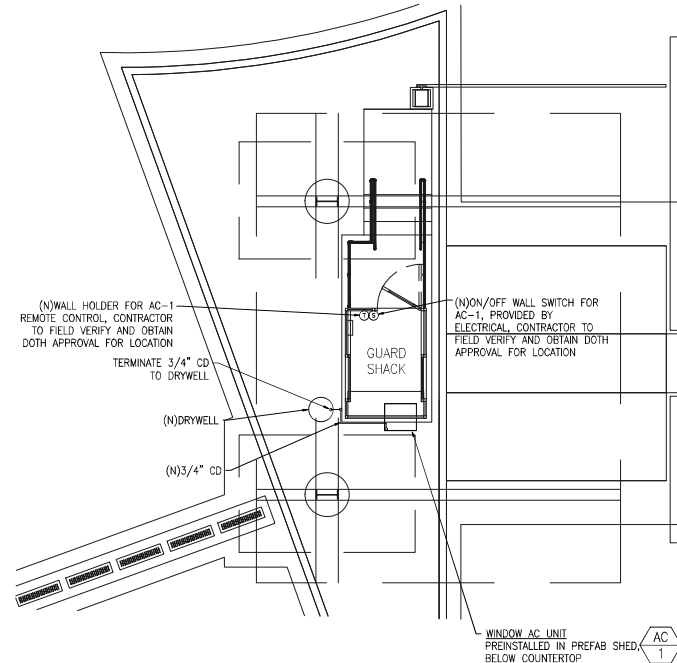
- CONFORM TO ALL REQUIREMENTS OF THE 2018 IBC, 2018 UPC, 2018 IECC AND 2012 NFPA 1 CODES OF THE COUNTY OF HAWAII, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
- EXAMINE ALL PROJECT PLANS AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
- INSTALLATION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR ONE YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LINE SIZES, CONDITIONS, AND INVERTS PRIOR TO BID AND CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- PAY FOR ALL PERMITS AND APPLICATIONS.
- CAULK ALL PENETRATIONS WATERTIGHT. PROVIDE ALL CUTTING, PATCHING, AND RESTORING OF EXISTING SURFACES TO MATCH ORIGINAL SURFACE FINISHES. SPOT PAINT TO MATCH EXISTING SURFACES/COLOR.
- PREPARE SIX (6) SETS OF SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. NO REPRODUCTIONS OF ANY KIND OF THE CONTRACT DOCUMENTS SHALL BE ACCEPTABLE AS SHOP DRAWINGS. PROVIDE ONE SET OF REPRODUCIBLE AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITIONS AND SUBMIT TO THE OWNERS UPON COMPLETION OF WORK.
- CONTRACTOR SHALL PROVIDE SUBMITTALS IN ONE COMPLETE PACKAGE. PIECEMEAL SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- ALL EQUIPMENT AND FIXTURES SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOTTED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT AND FIXTURES ARE TO BE INSTALLED PRIOR TO ORDERING OF ITEMS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND FIXTURES.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY EXACT DETAIL OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT/ENGINEER FOR REVIEW/APPROVAL PRIOR TO PROCEEDING WITH WORK.
- COORDINATE ALL WORK WHICH WILL AFFECT AREAS WITH BUILDING SUPERVISOR. SCHEDULE OFF-HOUR WORK WHEN REQUIRED TO MINIMIZE DISRUPTIONS.
- COORDINATE ALL SWITCH LOCATIONS WITH USER/OFFICER-IN-CHARGE PRIOR TO INSTALLATION TO AVOID INTERFERENCES WITH PAINTING, BULLETIN BOARDS, FURNITURE, ETC. ANY ITEM NOT PROPERLY COORDINATED SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- ALL STEEL SHALL BE HOT DIPPED GALVANIZED. GALVANIZED STEEL EXPOSED TO WEATHER SHALL HAVE WEATHER PROOF PAINT TO MATCH SURFACES. PROVIDE TWO EXTRA COATS OF EPOXY PAINT.
- ALL ELECTRICAL AND CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE GALVANIZED STEEL PIPE CONDUIT FOR EXPOSED TO WEATHER CONDUIT.
- ALL SWITCHES AND CONTROL ITEMS SHALL BE ADA ACCESSIBLE AND SHALL BE MOUNTED AT 44" AFF AS PER ADA REQUIREMENTS OR ACCORDING TO OWNER'S INSTRUCTIONS.
- PROVIDE SERVICE DURING ONE YEAR GUARANTEE PERIOD TO SATISFY USER'S REQUIREMENTS.
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.
- SEISMICALLY BRACE ALL EQUIPMENT, PIPING, AND DUCTWORK IN ACCORDANCE WITH THE CURRENT BUILDING CODE AND THERE RESPECTIVE SEISMIC ZONE LOCATIONS.
- TONE AND LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED TRENCH WORK PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- PROVIDE DIELECTRIC UNIONS OR SEPARATIONS AT ALL DISSIMILAR METALS. PROVIDE UNIONS AFTER ALL SHUTOFF VALVES
- ALL PENETRATIONS THRU EXISTING WALLS, FOUNDATIONS, AND FLOOR SLABS SHALL BE IN TOTAL COMPLIANCE WITH ARCHITECTURAL/STRUCTURAL PROCEDURES AND DRAWINGS.
- ALL PENETRATIONS THRU RATED WALLS AND CEILINGS SHALL BE EQUIPPED WITH APPROVED FIRE STOPPING AND OR FIRE & SMOKE DAMPERS.
- DRAWING FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OR ANY OTHER PURPOSE.
- 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.

WINDOW AIR CONDITIONING UNIT SCHEDULE (FOR INFORMATION ONLY, PROVIDED PREINSTALLED BY SHED MANUFACTURER)

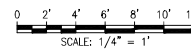
UNIT	MANUFACTURER & MODEL	TOTAL COOLING CAPACITY (BTUH)	SA CFM	OA CFM	ENT. COIL WB/DB (DEG. °F)	EER	ELECTRICAL					MAX DBA	WT. (LBS)	REMARKS
							V	HZ	PH	FLA	WATTS			
AC 1	GE AJEQ12DWH	11,700	285	15	75/63	9.5	208	60	1	5.9	1210	59	79	ELECTRICAL TO PROVIDE AN ON/OFF WALL SWITCH FOR AC UNIT. UNIT DELIVERY INCLUDES A HANDHELD REMOTE CONTROL. CONTRACTOR TO FIELD VERIFY AND OBTAIN BOTH APPROVAL FOR THE SWITCH AND REMOTE CONTROL LOCATIONS.

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
GENERAL		
Ø	#	DIAMETER
DN	DN	DOWN
MAX	MAX	MAXIMUM
NTS	NTS	NOT TO SCALE
HVAC		
AC	AC	AIR CONDITIONER
CD	CD	CONDENSATE
CFM	CFM	CUBIC FEET PER MINUTE
DEG	DEG	DEGREES
DB	DB	DRY BULB
EER	EER	ENERGY EFFICIENCY RATIO
FLA	FLA	FULLY LOADED AMPS
HZ	HZ	HERTZ
PH	PH	PHASE
OA	OA	OUTDOOR AIR
SA	SA	SUPPLY AIR
Ø	Ø	SWITCH
Ⓢ	TSTAT	THERMOSTAT
V	V	VOLTS
WB	WB	WET BULB
WT	WT	WEIGHT



MECHANICAL FLOOR PLAN
 SCALE: 1/4" = 1'-0"



<p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</p> <p>MECHANICAL INTERPRETS, INC.</p> <p>APRIL 30, 2024 EXPIRATION DATE OF LICENSE</p>	REV	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	SHEET TITLE MECHANICAL GENERAL NOTES, LEGEND, SCHEDULE, PLAN, DETAILS				
DESIGNED BY: MEI	DATE: FEB, 2023	SCALE: AS NOTED	JOB NUMBER: H.C. 50173		SHEET: M-1
					19 of 22 SHEETS

ELECTRICAL SYMBOL LIST

EXISTING	NEW	DESCRIPTION
	①	LUMINAIRE, WALL MOUNTED (NUMERAL IN CIRCLE CORRESPONDS TO LUMINAIRE SCHEDULE)
	Ⓢ	LIGHT SWITCH, WALL MOUNTED, 1P20A, 120/277V, 1HP MAX., (LETTER INDICATES LUMINAIRES CONTROLLED); M.H. = +36" TO TOP OF DEVICE PLATE
	Ⓢ ₂	TWO POLE SWITCH, 120/277V, 1HP MAX
⊕		DUPLEX RECEPTACLE, PROVIDED WITH PREFABRICATED, PREWIRED GUARD SHACK
⊕		DUPLEX RECEPTACLE, GROUNDING TYPE, NEMA 5-20R
⊕		SINGLE RECEPTACLE, PROVIDED WITH PREFABRICATED, PREWIRED GUARD SHACK
⊕		PANELBOARD, PROVIDED WITH PREFABRICATED, PREWIRED GUARD SHACK
	Ⓜ	GATE ARM CONTROL STATION, CONTROL STATION BY GATE ARM SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR
	Ⓜ	JUNCTION BOX, WALL MOUNTED
	Ⓜ	JUNCTION BOX, LARGE, MOUNTED ON COLUMN UNDER BUILDING
	---	CONDUIT CONCEALED BELOW GRADE OR IN FLOOR SLAB
Ⓜ	Ⓜ	HOMERUN ARROW TO PANELBOARD. LETTER INDICATES PANELBOARD, NUMBERS INDICATES CIRCUITS, HASHMARKS INDICATE QUANTITY OF CURRENT-CARRYING WIRES WITHIN, NO HASHMARKS INDICATE 2 CURRENT-CARRYING WIRES WITHIN
---	---	SURFACE MOUNTED RACEWAY, PROVIDE STRAP 8'-0" ON CENTER MAXIMUM, HASHMARKS INDICATE QUANTITY OF CURRENT-CARRYING WIRES WITHIN, NO HASHMARKS INDICATE 2 CURRENT-CARRYING WIRES WITHIN
	Ⓜ	EQUIPMENT TERMINATION WITH FLEXIBLE CONDUIT WHIP
	Ⓜ	DETAIL INDICATOR: TOP HALF DENOTES DETAIL NUMBER, BOTTOM HALF DENOTES SHEET NUMBER
	GND	GROUND
	KVA	KILOVOLT-AMPERE
	WP	WEATHERPROOF
	×	DENOTES DEMOLITION/REMOVAL

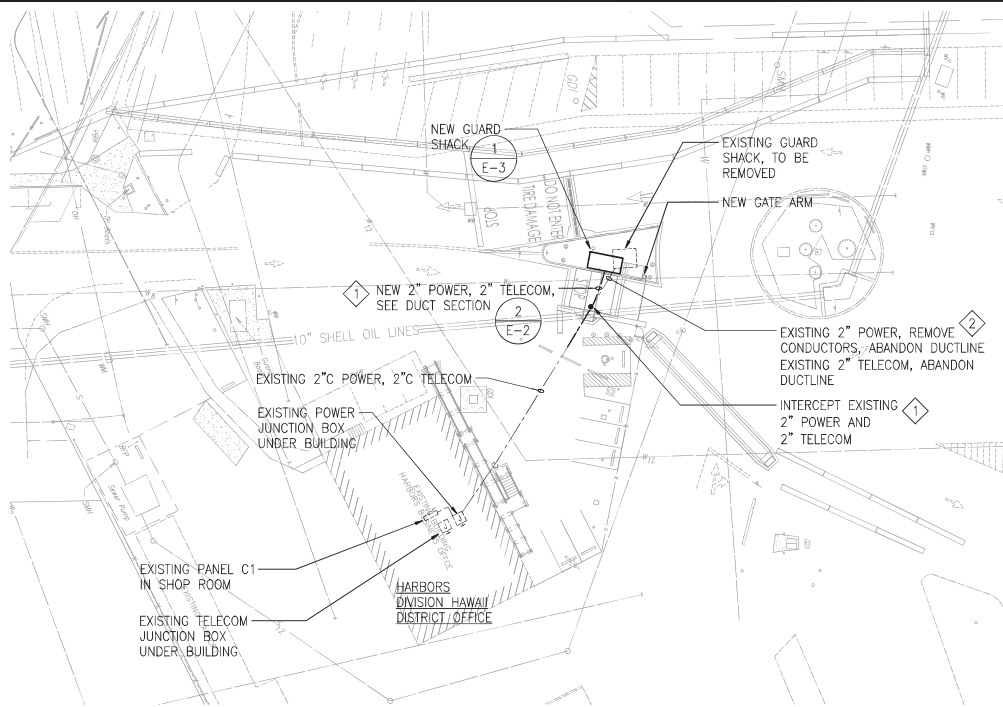
LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS
①	LED WALL PACK, BOTTOM AT +7'-2" TO TOP OF CONCRETE PLATFORM, DIE-CAST ALUMINUM HOUSING, FULLY SHIELDED OPTICS, DARK BRONZE POLYESTER POWDER COAT COASTAL FINISH, IMPACT RESISTANT TEMPERED GLASS LENS, WET LOCATION, TYPE IV ASYMMETRIC FORWARD THROW DISTRIBUTION, 2800K TRUE AMBER WITH LESS THAN 2% BLUE LIGHT CONTENT, 3,700 NOMINAL LUMENS, 120/277V DRIVER GE #EWAS01-44AF-7-28-N-BKBZ OR APPROVED EQUIVALENT	32W

GENERAL ELECTRICAL NOTES:

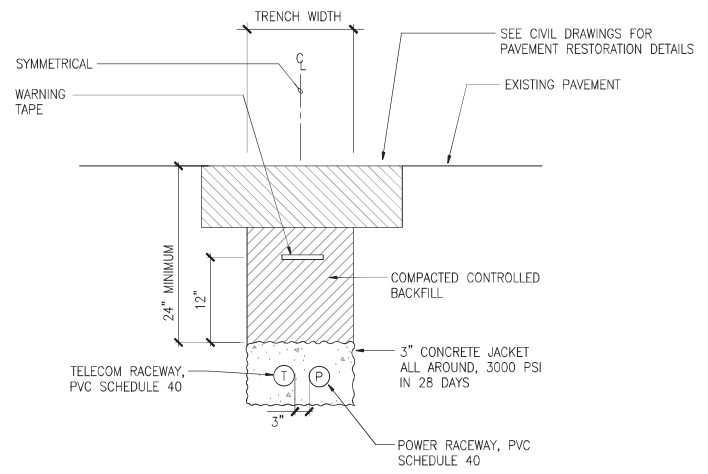
- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE AND BUILDING ORDINANCES OF THE CITY AND COUNTY OF HONOLULU. CONSTRUCTION PRACTICES SHALL CONFORM TO THE LATEST EDITION OF AMERICAN ELECTRICIANS' HANDBOOK BY CROFT, AND APPLICABLE INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIAL SUPPLIED FOR THIS PROJECT.
- THE DRAWINGS DO NOT REFLECT ALL THE EXISTING CONDITIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE EXTENT OF ANY DEMOLITION, RELOCATION, RECONNECTION, AND THE NEW WORK PRIOR TO THE START OF ON-SITE CONSTRUCTION ACTIVITIES. REPORT ANY DISCREPANCIES AND/OR DIFFERENCES BETWEEN THE EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS TO THE STATE. RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE AND RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK REQUIRED BY THE CONTRACTOR'S FAILURE TO DO SO.
- EXISTING DEVICE LOCATIONS, CIRCUIT ASSIGNMENTS, WIRING CONNECTIONS, AND CONDUIT RUNS INDICATED WERE DERIVED FROM AVAILABLE REFERENCE DOCUMENTS AND LIMITED FIELD INVESTIGATION. FIELD VERIFY ALL EXISTING CONDITIONS AND MAKE ANY NECESSARY ADJUSTMENTS TO SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- RE-ROUTE ALL EXISTING CONDUIT, WIRING AND CABLING TO REMAIN WITHIN THE PROJECT AREA AS NECESSARY TO FACILITATE THE REMOVAL OF EXISTING EQUIPMENT AS WELL AS THE INSTALLATION OF ALL NEW EQUIPMENT. REMOVE AND RE-INSTALL ELECTRICAL EQUIPMENT, INCLUDING LIGHTS, TO REMAIN AS REQUIRED.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO IN THE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- THE LOCATION OF ALL ELECTRICAL APPARATUS AND DEVICES ARE APPROXIMATE AND BEFORE INSTALLING, STUDY THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DETAILS AND MAKE INSTALLATION IN THE MOST LOGICAL MANNER. ANY PIECE OF EQUIPMENT/DEVICE MAY BE RELOCATED WITHIN 10' BEFORE INSTALLATION AT THE DIRECTION OF THE STATE WITHOUT ADDITIONAL CHARGE TO THE PROJECT.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF THE PROJECT'S WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE AN ALTERNATE METHOD TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS TO REFLECT THE PROPOSED ALTERNATE METHODS TO THE STATE FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION SHALL NOT BE CONSIDERED AN ITEM FOR EXTRA COST.
- MAINTAIN CONTINUITY OF ALL CIRCUITS THAT PASS THROUGH THE PROJECT LIMITS AND SERVE OTHER AREAS OR EQUIPMENT INDICATED TO REMAIN. PROVIDE NEW JUNCTION BOXES, CONDUITS & WIRING, AND THE LABOR REQUIRED TO FACILITATE SAID CONTINUITY. BOXES, CONDUITS AND WIRING SHALL BE IN ACCORDANCE WITH THE NEC.
- AN ADHESIVE VINYL NAMEPLATE SHALL BE PROVIDED FOR ALL SWITCHES, RECEPTACLES, POWER CONNECTIONS AND MISCELLANEOUS DEVICES REQUIRING POWER. THE NAMEPLATE SHALL INDICATE THE PANELBOARD SERVING THE DEVICE AND THE CORRESPONDING CIRCUIT ASSIGNMENT. LETTERING SHALL BE A MINIMUM OF 1/4" HIGH. UTILIZE BROTHER "P-TOUCH" LABEL MAKER OR APPROVED SUBSTITUTE.
- A GREEN, EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC ARTICLE 250 SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS WHETHER INDICATED ON CONTRACT DRAWINGS OR NOT.
- DO NOT USE A COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS INSTALLED IN A COMMON CONDUIT. PROVIDE A DEDICATED NEUTRAL FOR EACH INDIVIDUAL CIRCUIT. WHERE MULTIPLE DEDICATED NEUTRALS ARE INSTALLED IN A COMMON CONDUIT, PROVIDE COLOR CODING OF THE DIFFERENT NEUTRAL CONDUCTORS IN ACCORDANCE WITH NEC 2017 ARTICLE 200.6 (WHITE, GRAY, THREE CONTINUOUS WHITE OR GRAY STRIPES, ETC.).
- ALL EXISTING ELECTRICAL EQUIPMENT AND FACILITIES NOT SCHEDULED FOR DEMOLITION SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL MINIMIZE OUTAGES AND COORDINATE WITH THE HARBORS DIVISION CONSTRUCTION ENGINEER, HARBORS DIVISION HAWAII DISTRICT AND ALL USERS AND TENANTS AT LEAST TWO WEEKS PRIOR TO ALL OUTAGES.

		REV DATE DESCRIPTION BY APPROVED	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION			
JOB TITLE		REPAIR GUARD SHACK HILO HARBOR, HAWAII	
SHEET TITLE ELECTRICAL SYMBOL LIST AND GENERAL ELECTRICAL NOTES			
DESIGNED BY: AM DRAWN BY: JP CHECKED BY: MA APRIL 10, 2024 EXPIRATION DATE OF LICENSE	JOB NUMBER H.C. 50173	SHEET E-1 20 of 22 SHEETS	SCALE AS NOTED

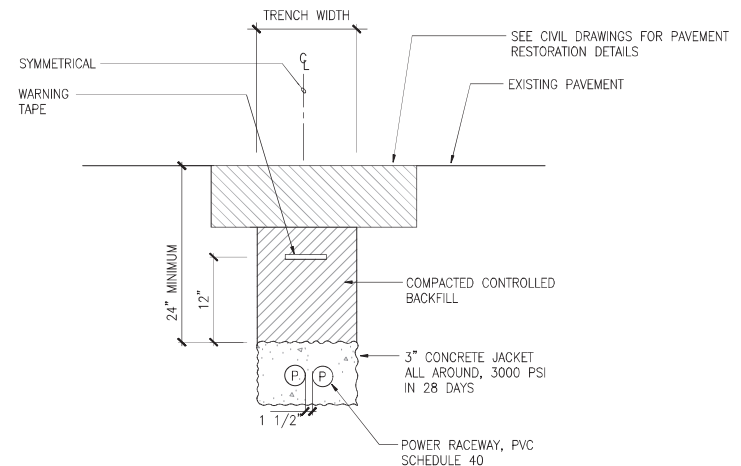


1 OVERALL ELECTRICAL SITE PLAN
E-2 SCALE: 1" = 20'-0"

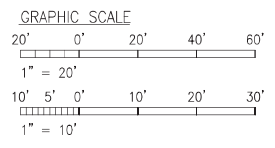
- NOTE:**
- 1** PROVIDE PULL STRING IN TELECOM CONDUIT
 - 2** REMOVE STUBUPS AT EXISTING GUARD SHACK TO 12" BELOW GRADE



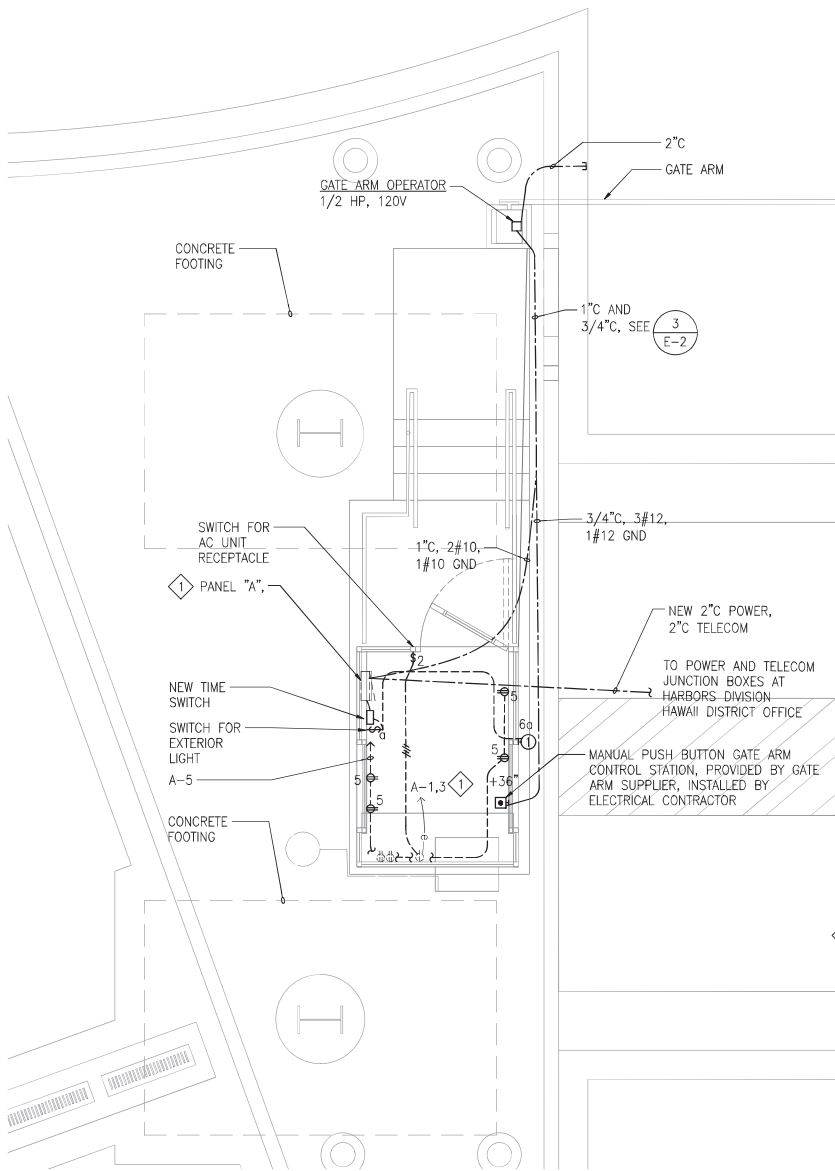
2 TYPICAL TELECOM AND POWER CONCRETE ENCASED DUCT SECTION
E-2 NOT TO SCALE



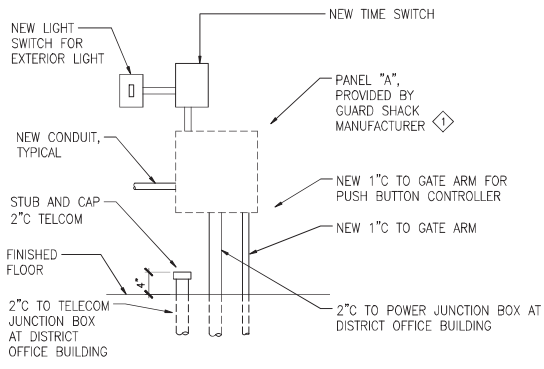
3 TYPICAL POWER CONCRETE ENCASED DUCT SECTION
E-2 NOT TO SCALE



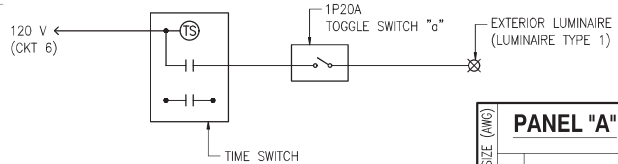
	STATE OF HAWAII		REV	DATE	DESCRIPTION	BY	APPROVED
	DEPARTMENT OF TRANSPORTATION		REPAIR GUARD SHACK HILO HARBOR, HAWAII				
	HARBORS DIVISION						
	SHEET TITLE		OVERALL ELECTRICAL SITE PLAN, ENLARGED BUILDING PLAN				
DESIGNED BY: AM DRAWN BY: JP CHECKED BY: MA DATE: FEB, 2023 EXPIRATION DATE OF LICENSE: APRIL 30, 2024		JOB NUMBER: H.C. 50173		SHEET: E-2			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION 		SCALE: AS NOTED		21 of 22 SHEETS			



1 GUARD SHACK ELECTRICAL PLAN
 E-3 SCALE: 1/2" = 1'-0"

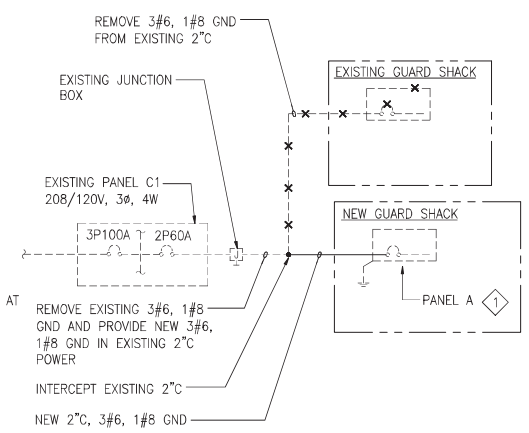


2 PANEL A ELEVATION
 E-3 NOT TO SCALE



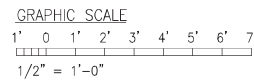
3 LIGHTING CONTROL DIAGRAM
 E-3 NO SCALE

NOTE:
 THE GUARD SHACK IS A PREFABRICATED, PREWIRED ASSEMBLY, COMPLETE WITH A 120/208V, 1Ø, 3W, LOADCENTER, INTERIOR LUMINAIRES, WIRING DEVICES, AND ASSOCIATED BRANCH CIRCUITING. UNLESS OTHERWISE INDICATED, WORK SHOWN ON THE DRAWINGS IS NOT PART OF THE PREWIRED ASSEMBLY AND SHALL BE PROVIDED BY THE CONTRACTOR.



4 ONE-LINE DIAGRAM
 E-3 NO SCALE

WIRE SIZE (AWG)		PANEL "A"						MOUNTING: SURFACE		WIRE SIZE (AWG)			
CKT NO	USE	POLE	AMP	PHASE A	PHASE B	AMP	POLE	USE	CKT NO	WIRE SIZE (AWG)			
* 1	AC UNIT	2		2.7	0.4		20	1	RECEPTACLES	2	12		
* 3			20			2.7	0.6		20	1	INTERIOR LIGHTS	4	12
12	5 RECEPTACLES	1	20	0.8	0.4				20	1	EXTERIOR LIGHT	6	12
- 7	PFB	1	-			-	1.2		20	1	GATE ARM	8	12
- 9	PFB	1	-			-			-	1	PFB	10	-
- 11	PFB	1	-			-			-	1	PFB	12	-
CONNECTED LOAD/PHASE				4.3	4.5	* BREAKER AND BRANCH CIRCUIT PROVIDED AS PART OF PREWIRED GUARD SHACK ASSEMBLY							
TOTAL CONNECTED LOAD				8.7		NEW 1P20A BREAKER IN PFB SPACE							
DEMAND FACTOR				0.8									
TOTAL DEMAND LOAD				7		KVA = 19 AMPS							



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Michelle N. Adair
 EES, INC.
 APRIL 30, 2024
 EXPIRATION DATE OF LICENSE

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII				
SHEET TITLE GUARD SHACK ELECTRICAL PLANS				

DESIGNED BY: AM	JOB NUMBER H.C. 50173	SHEET E-3
DRAWN BY: IP		
CHECKED BY: MA	SCALE: AS NOTED	22 of 22 SHEETS