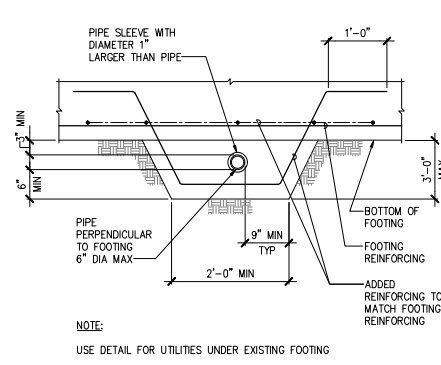
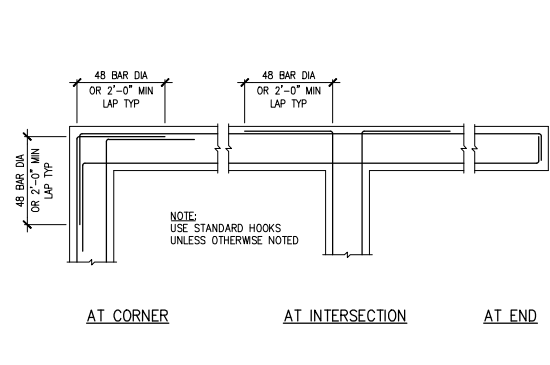


1
S-2
TYPICAL UTILITY TRENCH
ADJACENT TO FOOTING
NOT TO SCALE



2
S-2
TYPICAL UTILITY UNDER FOOTING
NOT TO SCALE

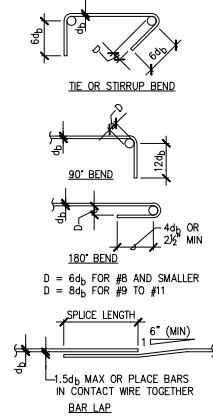


3
S-2
FOOTING INTERSECTION REINFORCEMENT
NOT TO SCALE

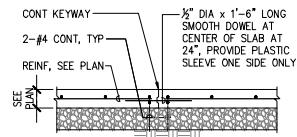
MINIMUM SPLICE & EMBEDMENT LENGTHS						
CONCRETE STRENGTH = 5,000 PSI						
BAR SIZE	LAP SPLICE		EMBEDMENT			
	BOT BAR OR WALL BAR	TOP BAR	STRAIGHT	BOT BAR OR WALL BAR	TOP BAR	W/ STD HOOK
#3	16"	20"	12"	16"	9"	
#4	16"	20"	12"	16"	9"	
#5	17"	22"	13"	17"	11"	
#6	20"	26"	15"	20"	13"	
#7	29"	38"	22"	29"	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"	

NOTES:
1. LENGTHS ARE FOR CONCRETE WITH REBAR SPACED 6 BAR DIAMETERS MIN OC. INCREASE BAR LENGTH 25% FOR BARS SPACED LESS THAN 6 BAR DIAMETERS OC.
2. *TOP BARS* ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE CAST BELOW

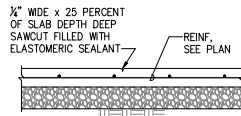
4
S-2
REBAR SPLICE AND EMBEDMENT LENGTH SCHEDULE
NOT TO SCALE



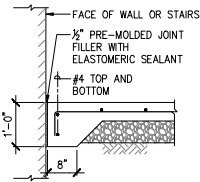
5
S-2
TYPICAL SLAB-ON-GRADE DETAILS
NOT TO SCALE



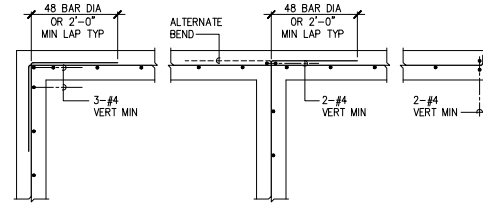
CONSTRUCTION JOINT (CJ)



SAWCUT JOINT (SJ)



EXPANSION JOINT (EJ)



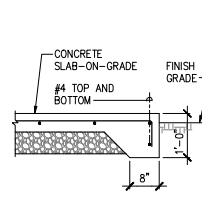
AT CORNER

AT INTERSECTION

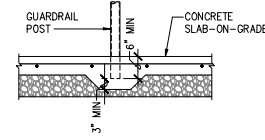
AT END

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

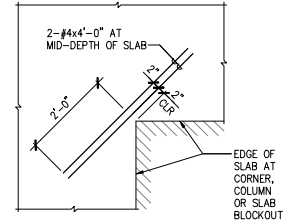
7
S-2
WALL INTERSECTION REINFORCEMENT
NOT TO SCALE



SLAB EDGE



THICKENED SLAB AT POST



RE-ENTRANT CORNER

		REV DATE DESCRIPTION BY APPROVED	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION			
JOB TITLE REPAIR GUARD SHACK HILO HARBOR, HAWAII			
SHEET TITLE TYPICAL DETAILS			
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION 		SHEET S-2	
DATE FEB 2023		JOB NUMBER H.C. 50173	
EXPIRATION DATE OF LICENSE APRIL 30, 2024		SCALE AS NOTED	