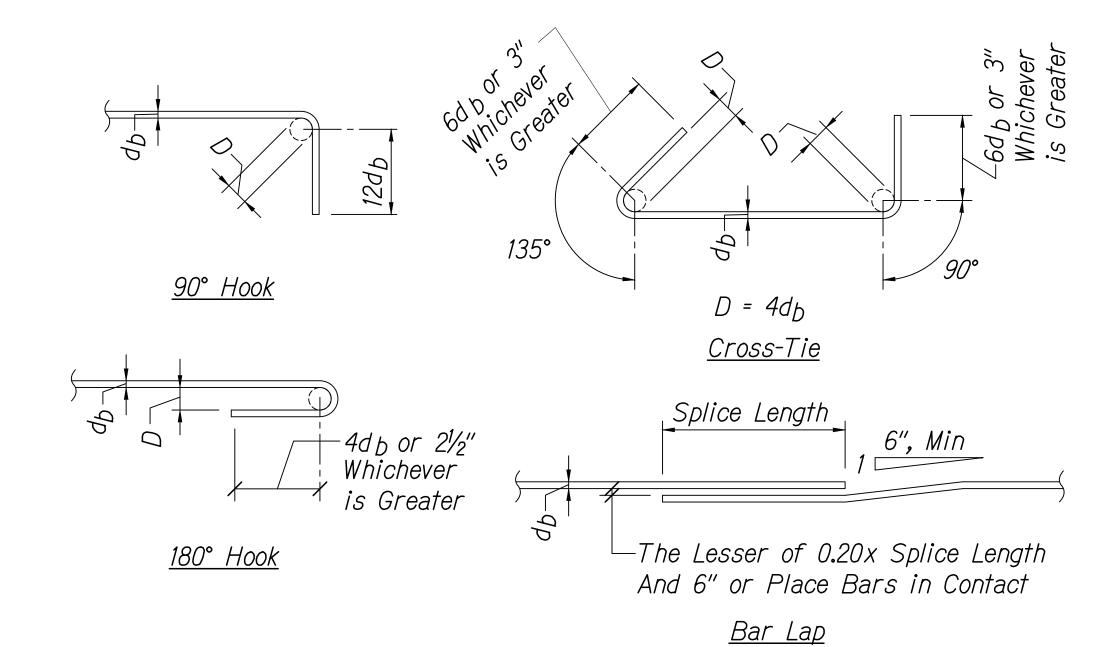
MINIMUM SPLICE & EMBEDMENT LENGTHS							
	CONCRETE STRENGTH = 4,000 PSI						
	LAP SPL.	ICE	EMBEDMENT				
		STRAIGHT		HT.			
BAR SIZE	OTHER BARS	TOP BAR	OTHER BARS	TOP BAR	WITH STANDARD 90° HOOK		
#4	19"	25"	15"	19"	8"		
#5	24"	31"	18"	24"	10"		
#6	28"	37"	22"	28"	12"		
#7	36"	47"	28"	36"	14"		
#8	47"	61"	36"	47"	16"		
#9	60"	78"	46"	60"	18"		
#10	76"	98"	58"	76"	20"		
#11	93"	121"	72"	93"	22"		

COLOR:

approval.

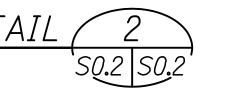
- 1. "Top Bars" are horizontal bars with 12" or more of concrete cast below.
- 2. Embedment lengths for bars with 90° hook are bars with side cover, normal to plane of hook, of not less than 2½" and cover on bar extension beyond hook not less than 2". Increase embedment length by 25% for bars not meeting these requirements.

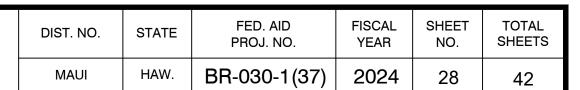


D = 6d_b for #8 and Smaller

D = 8d_b for #9 to #11

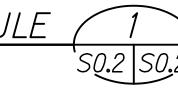
STANDARD HOOKS AND CROSS-TIE DETAIL Not to Scale





ABBREVIATIONS					
B	Baseline	Galv	Galvanized		
Bot	Bottom	Horiz	Horizontal		
Btwn	Between	HSB	High Strength Bolt		
<u>¢</u>	Centerline	I.D.	Inside Diameter		
CJ Cons	struction Joint	Max	Maximum		
CIr	Clear	Mech	Mechanical		
Conc	Concrete	Min	Minimum		
Cont	Continuous	Misc	Miscellaneous		
Dbl	Double	No. or #	Number		
Dia	Diameter	N.T.S.	Not to Scale		
Dwg	Drawing	O.C.	On center		
Ea	Each	O.D.	Outside Diameter		
E.F.	Each Face	Opng	Opening		
Elev	Elevation	Орр	Opposite		
Eq	Equal	PL or P	Plate		
E.W.	Each Way	Prefab	Prefabricated		
Exist or (E)	Existing	Ref	Reference		
Ext	Exterior	Reinf R	einforced or Reinforcing		
Fin	Finish	Sim	Similar		
Ft	Foot or Feet	Sp	Spaces or Spacing		
Ftg	Footing	SS	Stainless Steel		

TYPICAL	REBAR	<i>SPLICE</i>	AND	EMBEDMENT	LENGTH	SCHEDUL
Not to Scale						



		PAINT SCHE	DULE	
	SPECIAL COAT	ING SCHEDULE FOR ZIN	C COATED METAL BRIDGE F	RAILING
	OPTION 1	OPTION 2	<u>OPTION 3</u>	<u>OPTION 4</u>
PREPARATION:	Carboline thinner #2 or surface cleaner #3, per SSPC-SP1, ApplyRustbond Penetrating Sealer.	Solvent clean per SSPC-1, and as recommended by the manufacturer	Solvent clean per SSPC-SP1, and as recommended by the manufacturer	Solvent clean per SSPC- SP1. Apply Galvanized Zinc Treatment (Acid Etching)
1ST COAT:	Carboline Carboguard 890 epoxy DFT 5 mil (min) WFT 7 mil (min)	Tnemec High-Build Epoxoline II Series N69 DFT 5 mil (min) WFT 7 mil (min)	Sherwin Williams Tile Clad High Solids B62 Series DFT 4 mil (min) WFT 7 mil (min)	Ameron Amercoat 385 epoxy DFT 5 mil (min) WFT 8 mil (min)
RECOATING TIME:	8 HRS (min) 2 Days (max)	10 HRS (min) 2 Days (max)	8 HRS (min) 14 Days (max)	8 HRS (min) 2 Days (max)
TOP COAT:	Carboline Carbothane 133HB Alyphatic polyurethane DFT 5 mil (min) WFT 7 mil (max)	Tnemec Endura-Shield Series 75 DFT 4 mil (min) WFT 7 mil (min)	Sherwin Williams Corothane II B65 W200 Series/B60V2 DFT 4 mil (min) WFT 7 mil (min)	
TOP COAT	Medium Shade Green, submit color chips for			

BRIDGE LOAD CAPACITY RATING SUMMARY					
Design Load Ratin Facto		Controlling Member	Controlling Load Effect	Live Load Distribution Factor	
HL-93 Inventory	1.12	Exterior Tee Beam	Tension Stress	0.751	
HL-93 Operating	1.45	Exterior Tee Beam	Tension Stress	0.751	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION

Typical Details, Schedules and *Abbreviations*

<u>Honoapi'ilani Highway</u> <u>Rehabilitation of Honolua Bridge</u> F.A.P No. BR-030-1(37)

Scale: As Shown

Date: August 2024 SHEET No. SO.2 OF 42 SHEETS