	INDEX TO STRUCTURAL
<u>SHEET NO.</u>	DESCRIPT
S-0	INDEX TO STRUCTURAL DRAWINGS
S-1	STRUCTURAL GENERAL NOTES
S-2	HECO GUY WIRE RELOCATION PHASES
S-3	FURNISHING AND INSTALLING TEMPORARY
S-4	HECO FURNISHED AND INSTALLED STEEL
S-5	DRILLED SHAFT ELEVATION, NOTES, HECC
S-6	MISCELLANEOUS DETAILS RELOCATED HAD

ME- 7\ OD ONGOING\ 19-DOR H3 GLIY WIRE POLE - WSP\ D1 CAD\ D2-15-22 BID\ HGW-SOD-SD1 GNOTES DWG PLOT TIME: 04-15-22, 10:40 AM)

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			FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET	TOTAL
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			HAWAII	HAW.	I-H3-1(75), UNIT VIIC	2022	16	50
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# AL DRAWINGS

PTION

RY CONCRETE BLOCKS

EL STUB POLE

CO FURNISHED ANCHOR BOLTS

ALAWA ACCESS ROAD

S. MIYAH	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
PROFESSIONAL ENGINEER ★ NO. 9444-S FRATE	INDEX TO STRUCTURAL DRAWINGS
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>INTERSTATE ROUTE H-3</u> <u>H-3 FINISH, UNIT VIIC</u> FAIP NO. I-H3-1(75), UNIT VIIC
4-30-24 Signature Expiration date of the license	Scale: None Date: Feb. 2022
	SHEET No. <i>S-0</i> OF 7 SHEETS
	16

<ul> <li>A. Hawaii Department of Transportation, Hawaii Standard Specifications for Road and Bridge Construction, 2005 together with Special Provisions prepared for this Cort.</li> <li>2. DESIGN SPECIFICATIONS:         <ul> <li>A. AASHTO 2017 LRFD Bridge Design Specifications (8th Edition) and its subsequent interim specifications with interim supplements and modifications by the HDOT Hit Division.</li> <li>B. HDOT Document dated January 8, 2018 with subject thit "Design Criteria for Bridges and Structures".</li> <li>C. AASHTO LRFD Specifications for Structural Supports Highways, Signs, Luminaries, and Traffic Signals (Firse Edition) 2015 and its subsequent interim specifications interim supplements and modifications by the HDOT Hit Division.</li> <li>D. National Electrical Safety Code (NESC) per Hawaii Administrative Rules (HAR), Chapter 6-73.</li> <li>IOADS:</li></ul></li></ul>	1.	.GE	NERAL SPECIF	<u>IC</u> AT .	IONS:							
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<ul> <li>"Design Criteria for Bridges and Structures".</li> <li>C. AASHTO LRFD Specifications for Structural Supports Highways, Signs, Luminaries, and Traffic Signals (First Edition) 2015 and its subsequent interim specifications interim supplements and modifications by the HDOT Hi Division.</li> <li>D. National Electrical Safety Code (NESC) per Hawaii Administrative Rules (HAR), Chapter 6-73.</li> <li>3. LOADS: <ul> <li>A. Wind Load: In accordance with NESC 2017 Edition:</li> <li>Extreme Wind Loading for Grade B Structure (50-90 Year Mean Recurrence) Load in pounds = .00256 V<sup>2</sup>k<sub>2</sub> G<sub>RF</sub>IC<sub>f</sub>A</li> <li>V Hawaii = 105 mph k<sub>2</sub> Structure = 1.2 k<sub>2</sub> Wire = 1.3 G<sub>RF</sub> Structure = 0.89 G<sub>RF</sub> Wire = 0.83 I Importance = 1.0 Cf Shape Factor = 1.0 A Projected Area = in ft<sup>2</sup></li> </ul> </li> <li>B. Seismic Load: In accordance with AASHTO 2017 LRFE Bridge Design Specifications 8th Editio</li> <li>A<sub>5</sub> Spectrum Acceleration = 0.3 S<sub>DS</sub> Short Period Acceleration = 0.3</li> </ul>		Α.	Edition) and in interim supple	's sul	bsequent in	terim s	pecific	ations	s wit	h		
Highways, Signs, Luminaries, and Traffic Signals (First Edition) 2015 and its subsequent interim specifications interim supplements and modifications by the HDOT Hi Division.D. National Electrical Safety Code (NESC) per Hawaii Administrative Rules (HAR), Chapter 6-73.3. LOADS: A. Wind Load: In accordance with NESC 2017 Edition: Extreme Wind Loading for Grade B Structure (50-90 Year Mean Recurrence) Load in pounds = .00256 $V^2k_2 G_{RF}IC_{F}A$ VHawaii = 105 mph $k_2$ Structure $G_{RF}$ Structure = 1.3 $G_{RF}$ Structure = 0.89 $G_{RF}$ Wire = 0.83 I Importance A Projected Area = in ft²B. Seismic Load: In accordance with AASHTO 2017 LRFE Bridge Design Specifications 8th Edition $A_S$ Spectrum Acceleration $= 0.3$		В.							ect ti	i†		
Administrative Rules (HÅR), Chapter 6-73. 3. LOADS: A. Wind Load: In accordance with NESC 2017 Edition: Extreme Wind Loading for Grade B Structure (50-90 Year Mean Recurrence) Load in pounds = .00256 $V^2k_2 G_{RF}IC_{fA}$ V Hawaii = 105 mph $k_2$ Structure = 1.2 $k_2$ Wire = 1.3 $G_{RF}$ Structure = 0.89 $G_{RF}$ Wire = 0.83 I Importance = 1.0 Cf Shape Factor = 1.0 A Projected Area = in ft <sup>2</sup> B. Seismic Load: In accordance with AASHTO 2017 LRFD Bridge Design Specifications 8th Edition $A_S$ Spectrum Acceleration = 0.3 $S_{DS}$ Short Period Acceleration = 0.3		С.	Highways, Sign Edition) 2015 a interim supple	ns, Lu and it	uminaries, a s subseque	and Tra ent inte	ffic Si rim spe	gnals ecific	s (Fin ation	re S		
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$\begin{array}{rcl} k_2 & Structure & = & 1.2 \\ k_2 & Wire & = & 1.3 \\ G_{RF} & Structure & = & 0.89 \\ G_{RF} & Wire & = & 0.83 \\ I & Importance & = & 1.0 \\ Cf & Shape Factor & = & 1.0 \\ A & Projected Area & = & in ft^2 \\ \end{array}$ B. Seismic Load: In accordance with AASHTO 2017 LRFD Bridge Design Specifications 8th Editio A_S & Spectrum Acceleration & = & 0.2 \\ S_{DS} & Short Period Acceleration & = & 0.2 \\ \end{array}			(5)	0-90 X	Year Mean pounds = .	Recurre	ence)	RFIC <sub>f</sub> A	4	<i>י</i> דנ		
Cf Shape Factor = 1.0 A Projected Area = in ft <sup>2</sup> B. Seismic Load: In accordance with AASHTO 2017 LRFD Bridge Design Specifications 8th Editio A <sub>S</sub> Spectrum Acceleration = 0.2 S <sub>DS</sub> Short Period Acceleration = 0.2				G <sub>RF</sub> G <sub>RF</sub>	Structure Wire Structure Wire	)	=	1.2 1.3 0.89 0.83				
Bridge Design Specifications 8th Editio A <sub>S</sub> Spectrum Acceleration = 0.2 S <sub>DS</sub> Short Period Acceleration = 0.5				Cf	Shape Fa	nctor	=	1.0	7 <sup>2</sup>			
S <sub>DS</sub> Short Period Acceleration = 0.		В.	Seismic Load:									
				S <sub>DS</sub>	Short Pe	riod Ac	celerati		= 0	).{		

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## <u>STRUCTURAL GENERAL NOTES</u>

### 4. <u>MATERIALS:</u>

### A. All concrete strengths shall be as noted below:

ontract.				Compressive	Max <b>.</b> Water	Max. Cementitious
	Item <u>No.</u>		<u>Structural Parts</u>	Strength <u>f'c (28 Days)</u>	Cementitious (W/C)	
h th Highways	(1)		lled Shafts Note (D) in this section	4500 psi	0.45	720
itle	(2)	See	lled Shaft Pedestal, Notes (C) and (D) this section	4500 psi	0.40	670
s for rst hs with Highways	(3)	Mol	" Conc. Curb with unted Fence (See Sht. 5) See Note (I) in this Sec	4000 psi ction	0.49	620
	(4)	A//	Other	4000 psi	0.49	620
		В.	The use of calcium chlor	ide in any co	oncrete is p	rohibited.
ctures		С.	A shrinkage reducing add SRA20 by BASF or Eclip added to the concrete min dosage requirement shall recommended by the manu	se 4500 or a x for Item N be 128 ounce	opproved equipproved equipolation (2). The	ual, shall be minimum
		D.	A migrating corrosion inh admixture such as Corted shall be added to the con The dosage shall be 24	c MCI 2005 i ncrete mix fo	VS or appro or Items No.	oved equal (1), and (2).
-D		Ε.	Non-shrink Grout shall be non-staining, non-metallic and plasticizing agents of compressive strength of 28 days. The non-shrink grams of migrating amine admixture per 0.4 to 0.5	aggregate ce apable of de 4000 psi in grout shall e carboxylat	ement, water veloping a n 3 days and contain at n e corrosion	r reducing minimum 7000 psi in least 10 inhibiting
ion: 0.25g 0.56g 0.26g		F.	Cure concrete as specifie Remove curing that may a requiring future bonding SINAK Lithium Cure or a bond and provide equal o	affect bindin unless a cui accepted equa	g from all a ring agent s al that does	areas such as not affect

- G. Unless otherwise noted, all reinforcing steel shall conform to the requirements of ASTM A615 and shall be deformed, Grade 60.
  - (1) The covering measured from the surface of the concrete to the face of any reinforcing bars shall be as follows, except as otherwise shown:

= 4"

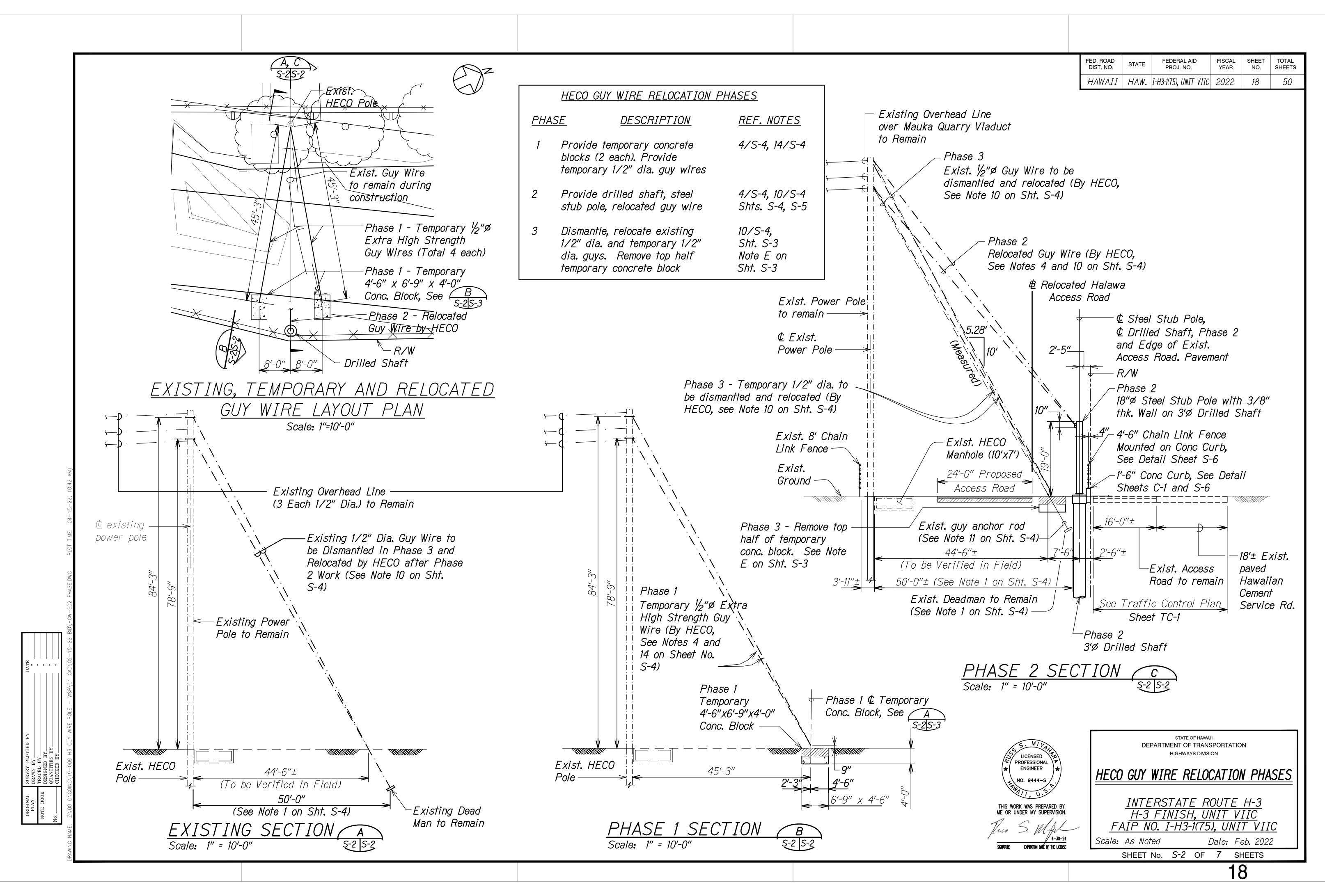
(a) Drilled Shafts

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VIIC	2022	17	50

4. MATERIALS (Cont.):

- (b) Concrete Cast Against and = 3" Permanently Exposed to Earth
- (c) All Others Unless Otherwise = 2" Noted
- H. Glass Fiber Reinforced Polymer (GFRP) rebar shall comply with ASTM D7957 and shall have a minimum modulus of elasticity of 6,500,000 psi. See Special Provisions for additional requirements.
  - (1) The clear covering from surface of concrete to the face of any GFRP rebar shall be 1-inch.
  - (2) Minimum lap splice length for GFRP reinforcing shall be 42 bar diameters or 2'-6", whichever is greater.
- I. A 1 1/2" long macro-synthetic fiber such as Forta Ferro, Strux 90/40, Masterfiber Mac Matrix or approved equal shall be added to the concrete mix for Item No. (3). The dosage shall be 7.5 lbs. per cubic yard of concrete or the equivalent amount of approved equal to achieve similar properties.
- J. Unless otherwise noted, and/or HECO furnished, all anchor bolts, washers, and nuts shall be ASTM A 307, F436, and A563 respectively; and ASTM A153 hot dip galvanized after fabrication, unless otherwise specified.
- K. Epoxy for anchoring threaded rods or deformed bars shall be HILTI-RE-500-V3 or approved equal. Follow Manufacturer's recommendations for storage and use.

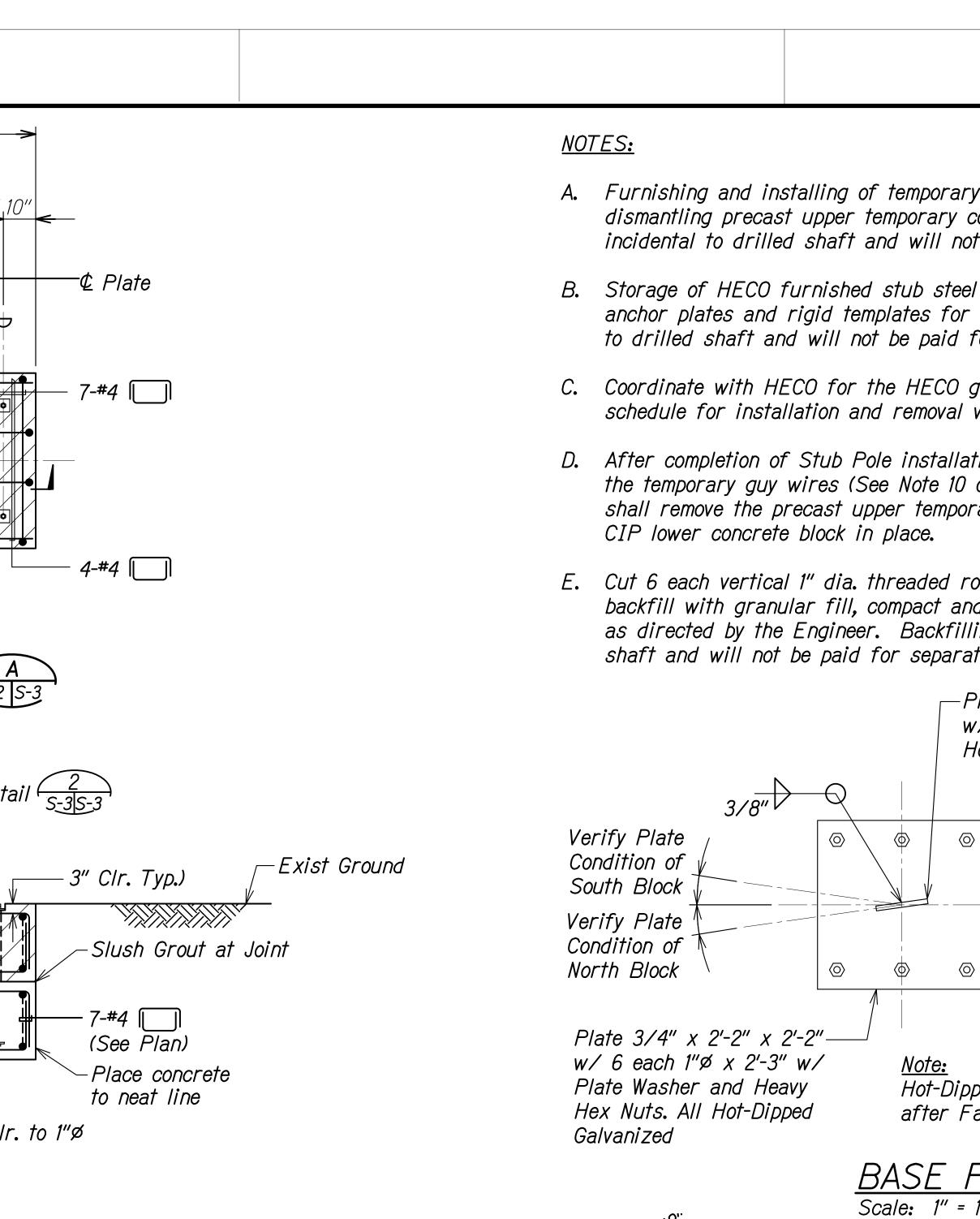
55. MIYAH	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
C NO. 9444−S	STRUCTURAL GENERAL NOTES
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>INTERSTATE ROUTE H-3</u> H-3 FINISH, UNIT VIIC
The S. M. Ja-30-24	FAIP NO. I-H3-1(75), UNIT VIICScale: NoneDate: Feb. 2022
Signature expiration date of the license	SHEET No. S-1 OF 7 SHEETS
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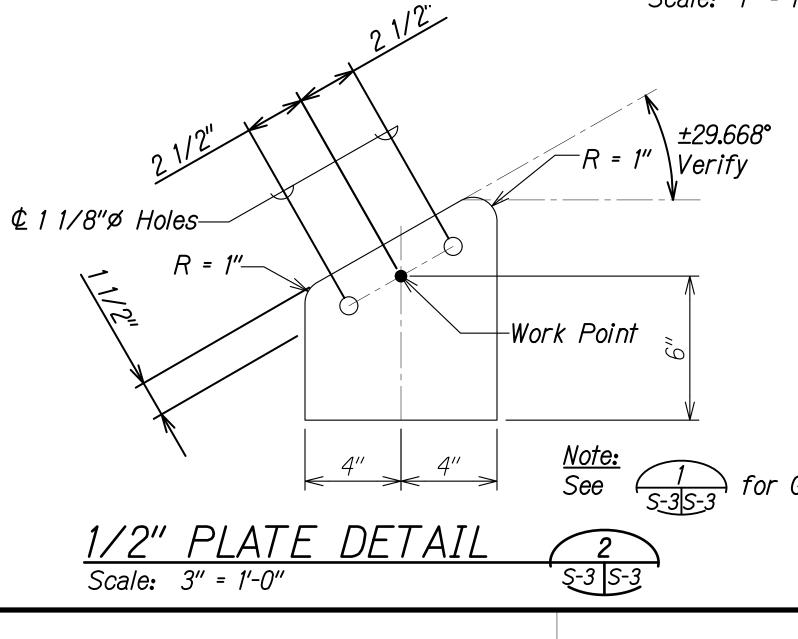
6'-9" <-<sup>2′-3″</sup>→ Embed 6 Each 1" dia. x 4'-0" 10" 1'-5" 2'-6 1/2"10" Threaded Rods w/ Plate Washer 4"x4"x1/2" and Heavy Hex Nut at First Pour and w/ Plate Washers 4"x4"x1/2" and Double Hex Nuts at Top 2'-3" 4'-6" B 5-35-3 .a" 2'-∕<mark>᠊╈╭╴╈╯┊╈╵╱╈╱╴╈╱╶╪┷</mark> See Detail *\_\_\_\_3" CIr*. (Тур.) SECTION/PLAN Scale: 1/2" = 1'-0" 5-2 5-3 <u>S-3</u> Precast Upper 4'-6" x 6'-9" x 2'-0"w/ #4 [\_\_] @ 12" EW w/ 6 Each -See Detail <u>2</u> <u>s-3</u>5-3 2" Dia. Holes and Recessed Top to Receive Plate Washers 4" x 4" x 1/2" and Double Heavy Hex Nuts. Recess 6"x6"x2" Deep 2'-0" recast CIP Lower-Place concrete to neat line 4-#4 🔲 (See Plan) └─ 3" CIr. to 1"ø <u>SECTIO</u>N Scale: 1/2" = 1'-0" S-2 S-3 S-3 TEMPORARY CONCRETE BLOCK (See Note A on Sht. S-3)

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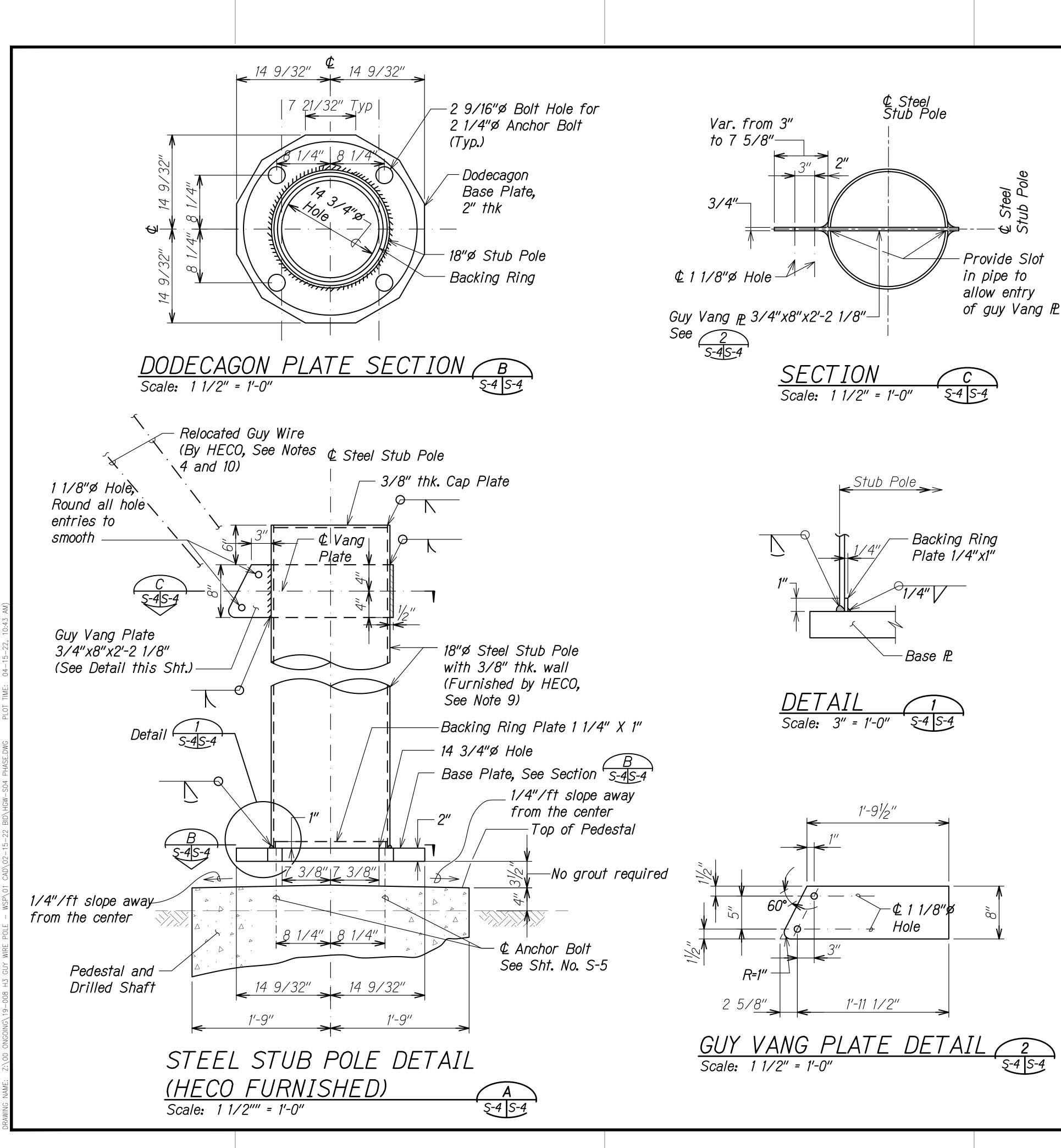
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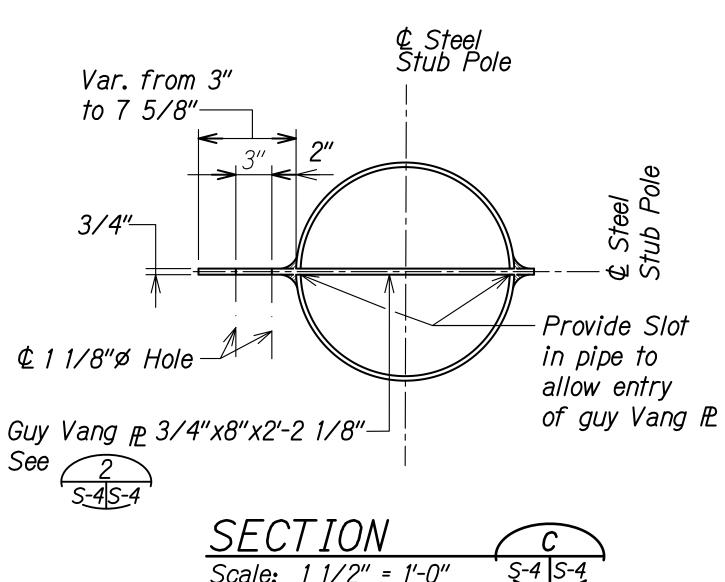


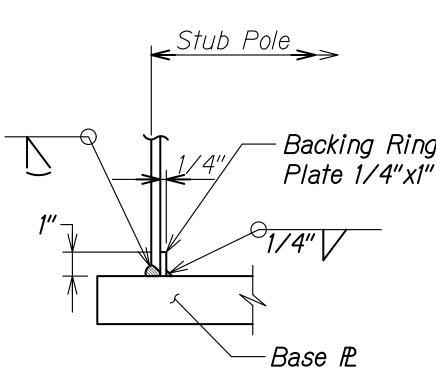


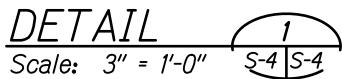
	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ry concrete blocks and concrete block will be considered ot be paid for separately.	HAWAII	HAW.	I-H3-1(75), UNIT VIIC	2022	19	50
el pole, guy wires, anchor bolts, r anchor bolts will be incidental for separately.						
guy wire relocation work work.						
ation and HECO's dismantling of on Sht. S-4), the Contractor prary concrete block and leave the						
rods at top of CIP lower block, nd finish to match adjacent or lling shall be incidental to drilled ately.						
Plate 1/2" x 0'-8" w/ 2 each 1 1/8" $\emptyset$ Holes $\frac{Eq.}{6'}$	Eq.	ify/	Non-Si Grout	hrink		
$ \begin{array}{c} \begin{array}{c} \end{array}{c} \end{array} $		/	6 Each			
pped Galvanize Fabrication $\frac{10''}{1-5''}$	1'-1 1/2"					
PLATE DETAIL 1 1'-0" S-3 S-3						
S. MIYAH LICENSED PROFESSIONAL KENGINEER NO. 9444-S		RNIS	STATE OF HAWAI PARTMENT OF TRANS HIGHWAYS DIVISI CHING AND ARY CONCE	on INST	ALLIN	
Galvanizing THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. This WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.		<u>INTE</u> <u>H-3</u> IP N	ERSTATE R FINISH, U 0. I-H3-1(75	OUTE NIT V	<u>H-3</u> <u>IIC</u> T VII	<u></u>
Signature expiration date of the license			No. <i>S-3</i> OF	7 SI	е <i>в. 2021</i> неетs <b>9</b>	<b>I</b>
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT VIIC	2022	20	50

#### STUB POLE GENERAL NOTES:

- 1. The construction of drilled shaft shall not interfere with the existing guy wire anchor deadman. The Contractor shall verify the location of existing deadman by probing and notify the Engineer the result of the probing prior to construction of drilled shaft. Payment for verifying and probing existing guy anchor rod will be incidental to drilled shaft and shall not be paid for seperately. Also see Note 14.
- 2. The steel stub pole shall be steel pipe conforming to ASTM A572, Grade 65 or ASTM A871, Grade 65 and shall be not-dipped galvanized after fabrication, and shall be painted in shop to color specified by HECO (Furnished by HECO).
- 3. The cap plate, base plate, and guy vang plate shall be structural steel conforming to ASTM A36 and shall be hot-dipped galvanized after fabrication (Furnished by HECO).
- 4. Relocated guy wire shall be galvanized  $\frac{1}{2}$ "ø strand conforming to ASTM A475 Extra High Strength (EHS) Grade (Furnished by HECO).
- 5. All anchor bolts shall be steel bolt conforming to ASTM A307, Grade A, or ASTM A615, Grade 75, and shall be hot-dipped galvanized. (HECO Furnished Anchor Bolts are ASTM A615, Grade 75).
- 6. All anchor bolt nuts shall be steel nuts conforming to ASTM A563, Grade DH and shall be hot-dipped galvanized. (HECO Furnished).
- 7. All anchor bolt washers shall be steel conforming to ASTM F436, Type 1 and shall be hot-dipped galvanized. (HECO Furnished).
- 8. Unless otherwise noted, all exposed concrete edges in pedestal shall be chamfered 3/4"x3/4".
- 9. The material and fabrications of steel stub pole and guy wires in Notes 2, 3, and 4 will be furnished and delivered to site by HECO. HECO shall install the steel stub pole in place in accordance with details shown. The Contractor shall store and protect the HECO furnished steel stub pole, anchor bolts, anchor plates, templates and guy wires from any damages until HECO crews start to dismantle and relocate the guy wires. (See Note B on Sheet S-3).
- 10. After completion of steel stub pole installation, HECO to dismantle and relocate the existing  $\frac{1}{2}$ "ø guy wires.
- 11. After completion of guy wire dismantlement and temporary relocation, the Contractor shall remove the abandoned existing guy anchor rod to 1'-6" below the existing ground.
- 12. For 4'-6" chain link fence mounted on concrete curb, details See Sheet No. S-6.
- 13. Prior to construction of drilled shaft, the Contractor shall furnish and install the temporary concrete blocks in the location as shown on Sheet No. S-2, and inform HECO to connect the temporary guy wire after completion of installations of the temporary concrete blocks.
- 14. Anchor plates shall be structural steel conforming to ASTM A36 and shall be hot-dipped galvanized after fabrications. (HECO Furnished).

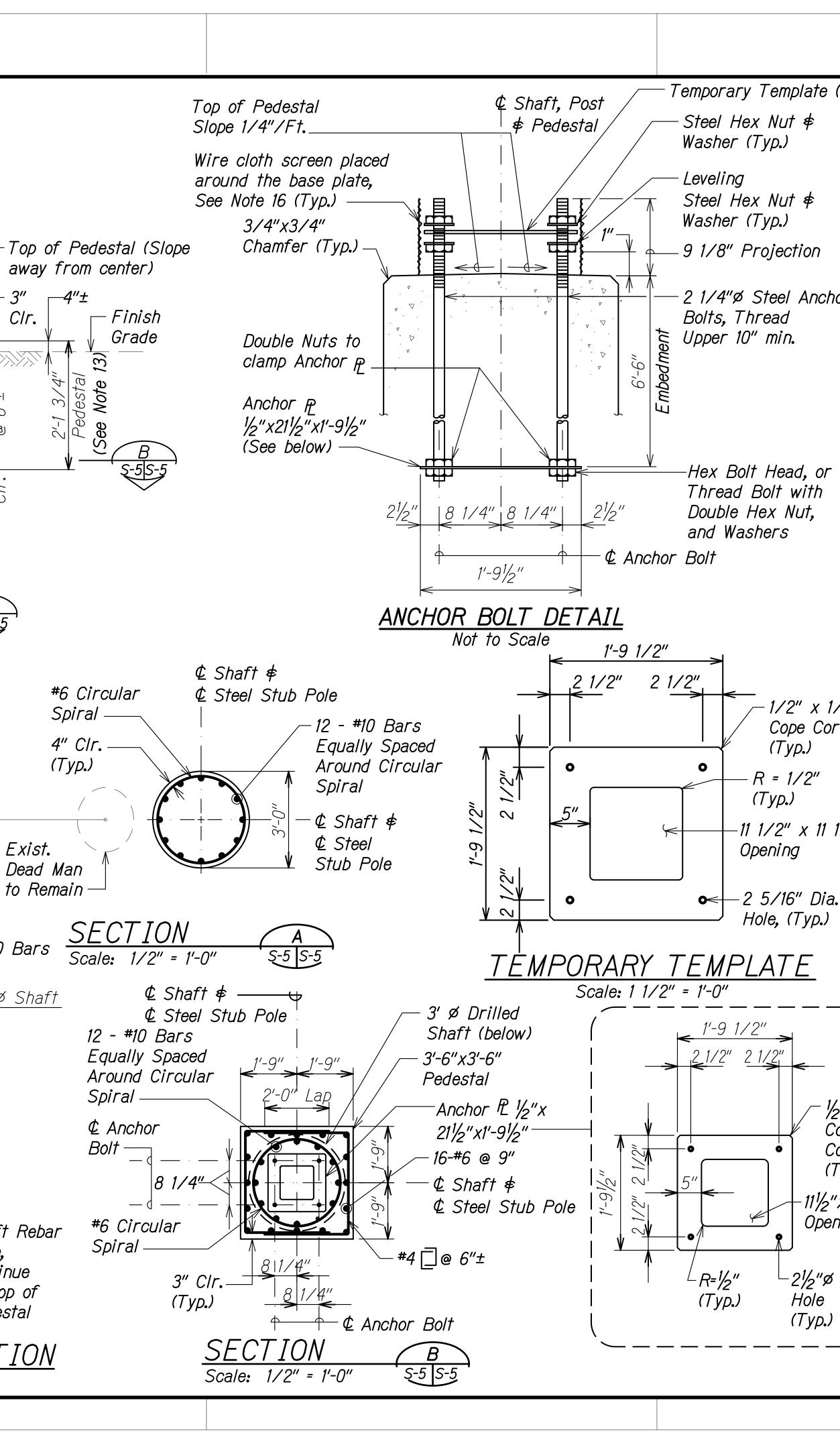
MIN	
SS MITAL	DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<u>HECO FURNISHED AND</u>
NO. 9444-S	INSTALLED STEEL STUB POLE
11, 0.5	INTERSTATE ROUTE H-3
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	
Ven S. Min	<u>FAIP NO. I-H3-1(75), UNIT VIIC</u>
4-30-24 Signature expiration date of the license	Scale: As Noted Date: Feb. 2022
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⊈ Shaft ¢ € Steel Stub Pole 1'-9'' 1'-9'' 8 1/4" 8 1/4" ∉ Anchor Bolts (Total 4 Each)-Top of Ŵ Shaft – in (a) © 3" Pitch β″, CIΓ. 10'-0 |Q|A <u>\$-5</u>\$-5 35'-0" - 11 – Exist. aft Dead Man to Remain  $\mathcal{O}$ Drilled ģ of Bal Circl ength  $\mathcal{O}$ ଡ 9# 12-#10 Bars 3'-0"ø Shaft Circular Spiral @ 3" Pitch *d'-0* 9# Shaft Rebar Cage, Continue to Top of Pedestal DRILLED SHAFT ELEVATION Not to Scale

RAWING NAME: 7:) ON ONGOING) 19-008 H3 GLIY WIRE POLE - WSD\ 01 CAD\ 02-15-22 BID\ HGW-SO5 PHASE DWG PI OT TIME: 04-15-22 10:43 AM)

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			HAWAII	HAW.	I-H3-1(75), UNIT VIIC	2022	21	50
	<u>DR1</u>	LLED SHAFT NO	<u>TES:</u>					
	1.	Provide sizing hoop cage.	s as a guide	for th	ne fabrication	of th	ne reb	ar
	2.	Provide concrete or guide for the placer			•			
chor	3.	Provide temporary s lifting. Stiffeners a	stiffeners to s	trengi	then the reba	ar cag	e duri	•
	4.	Splices in the longit as not to occur at t The staggered shall	the same horiz	•	•		•••	
	5.	Use No. 6 circular s used in drilled shaf	spiral for reba	•		ies sh	all no	t be
r	6.	The rebar cage sha distortion during tra	ll be fabricate ansportation to	ed and o the	l stored so a job site and	to ave		
	7	contamination with n						
	7. 8.	For slump of concre Placement of drilled Section 511 - Drilled	l shaft concre	te sha	all follow the	requi	remen	ts of
	9.	For installation of a furnished rigid temp maintain the anchor	anchor bolts, t plates (Same a	he Co as the	ntractor shal anchor plate	'l use		
	10.	Concrete for drilled days compressive st	shafts and p	edesta	als shall have	e a mi	inimun	n 28
	11.	All reinforcing steel	•	•				
1/2"	12.	Furnish and install control the drilled h		5 feet	long tempora	ary ca	sing t	0
orner,	13.	Pedestal will be con be paid for separate		ental i	to drilled sha	aft and	d will	not
	14.	Assembly and install drilled shaft and wa vendor shall furnish	ill not be paid	sepa	rately. HECO	's stee		)
1/2″	15.	There may be obstru strands from previo during drilled shaft	uction such as ous demolitions	bould for of p	ders or exist recasting bec	ting st 1s enc	ounter	red
a.		equipment capable of reference drawings sheets.	•					ition
	16 <b>.</b>	After completion of screen shall be place of the pedestal and a 3 inches minimum	ced vertically l wrapped hori	betwee zontal	en the base p Ily around the	olate a e base	nd the plate	e top e with

stainless steel self-tapping 1/4 inch diameter screws with stainless steel washers spaced at 9 inches on centers. Cope (Typ.) -111/2"x111/2" Opening

″ø e p.)

