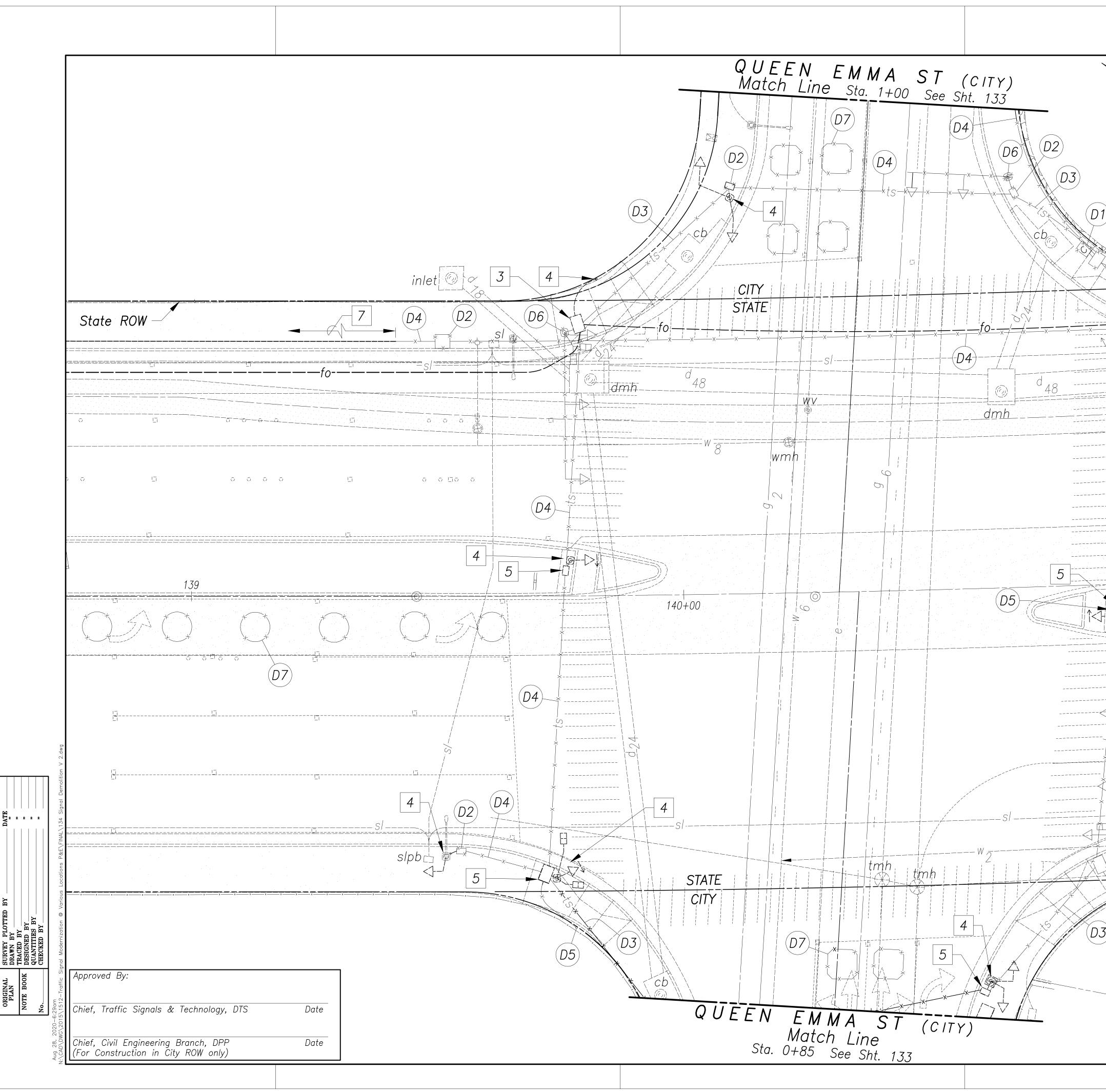


	Not	tes:
	1	The traffic signal system shall remain operational at all times Existing poles, traffic signal lights, and pedestrian signal heads only after new equipment is operational.
	2	Deliver salvaged equipment to C&C Dept. of Transportation Ser & Technology baseyard at 999 Makolu Street (ph: 768–5323).
	3	Existing pullbox to remain. Remove unnecessary existing tra The Contractor shall not damage existing fiber optic cables
	4	Existing traffic signal standard and/or pedestrian push butt remain.
	5	Existing pullbox to remain.
	6	Abandon vehicle loop detectors in place.
	7	Existing inter-connect duct to remain.
	8	Existing duct to remain.
	9	Existing HECO meter, signal power source to remain.
	Der	nolition Callouts:
	(D1)	Remove and salvage traffic signal controller and cabinet. dispose of concrete base one foot below finish grade.
	<i>D2</i>	Demolish and dispose of traffic signal pullbox. The Contraddamage asbestos—cement ducts to be abandoned.
	<i>D3</i>	Remove traffic signal cables. The Contractor shall verify con Abandon asbetos—cement ducts in place, fill with lean cond may be demolished and removed to facilitate construction.
	<b>D4</b>	Remove traffic signal cables. Abandon ducts in place. Fill concrete.
	(D5)	Remove pedestrian push button and pedestal. Salvage ped button and pedestal.
	<i>D6</i>	Remove and salvage existing traffic signal standard. Demoli concrete foundation two feet below finish grade. Remove ar signal heads, pedestrian signal heads, pedestrian push butte
smh	== (D7)	Abandon vehicle detectors in place.
ID:311997		Remove and salvage pedestrian signal heads.
	./	
( <sup>®</sup> )		
 (D)		
	5	Approved By:
		Chief, Traffic Signals & Technolo
		Chief, Civil Engineering Branch, L (For Construction in City ROW of

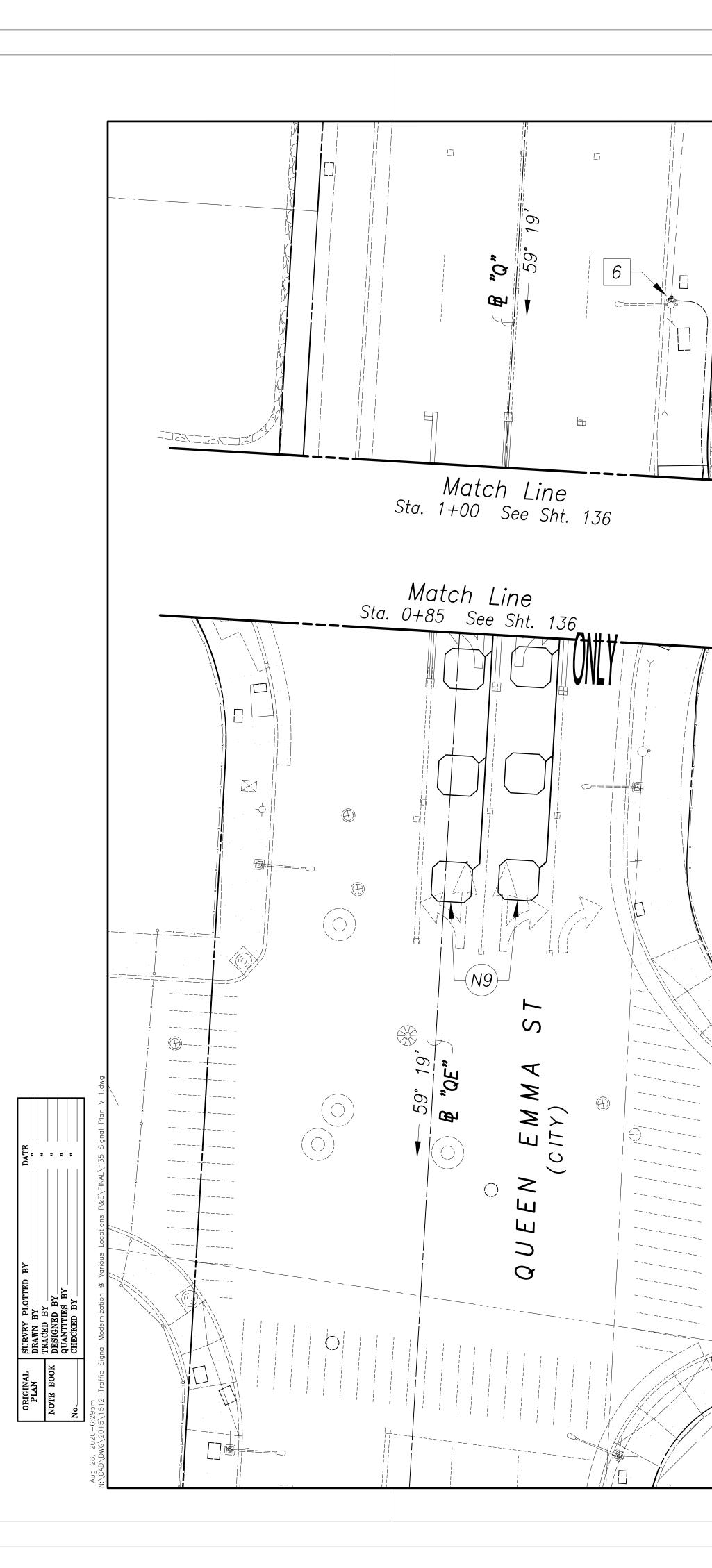
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during construction.		ST. NO. HAWAII	HAW.	PROJ. NO. STP-0300(163)	YEAR 2020	NO. 133	SHEETS 284
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ffic signal cables. to remain.							
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Demolish and							
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*				highways div	ISION		
	No. 6763-C			Blvd & Qı			—
gy, DTS Date OF THIS WO	e Expiration Date <u>04–30–22</u> DRK WAS PREPARED BY ME OR SUPERVISION AND CONSTRUCTION S PROJECT WILL BE UNDER MY ON AS DEFINED IN HAR TITLE 16,			<u>ic Signal Mo</u> <u>Oahu, Pha</u>	<u>se 1</u>		,
PP Date CHAPTER PROFESSIO SUF	115, RULES OF THE BOARD OF MAL ENGINEERS, ARCHITECTS AND RVEYORS, STATE OF HAWAII. ad Higgabutoma	Scale:	1"=1	d Project No 0'	Date:	July	2020
nly)		S	HEET	No. <i>TS-38</i> OF		SHEET 3	S

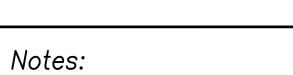


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NOTE

FED ROAD DIST. NO. FED AID PROJ. NO. FISCALSHEETTOTALYEARNO.SHEETS STATE нам. STP-0300(163) 2020 134 284 True North HAWAII 078  $\left[ D3\right]$ (D6)(D4)(D7)-(D4) 5 BLVD. VINEYARD (STATE) 0 0 0 0 (D6) \_\_\_\_ STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION (D2)(D3)LICENSED PROFESSIONAL SIGNAL DEMOLITION ENGINEER No. 6763-0 Vineyard Blvd & Queen Emma St License Expiration Date <u>04-30-22</u> <u>Traffic Signal Modernization,</u> <u>Oahu, Phase 1</u> THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAR TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII. <u>Federal—Aid Project No. STP—0300(163)</u> 1"=10' Date: July 2020 Scale: Convad Higashionna SHEET No. TS-39 OF 113 SHEETS 134





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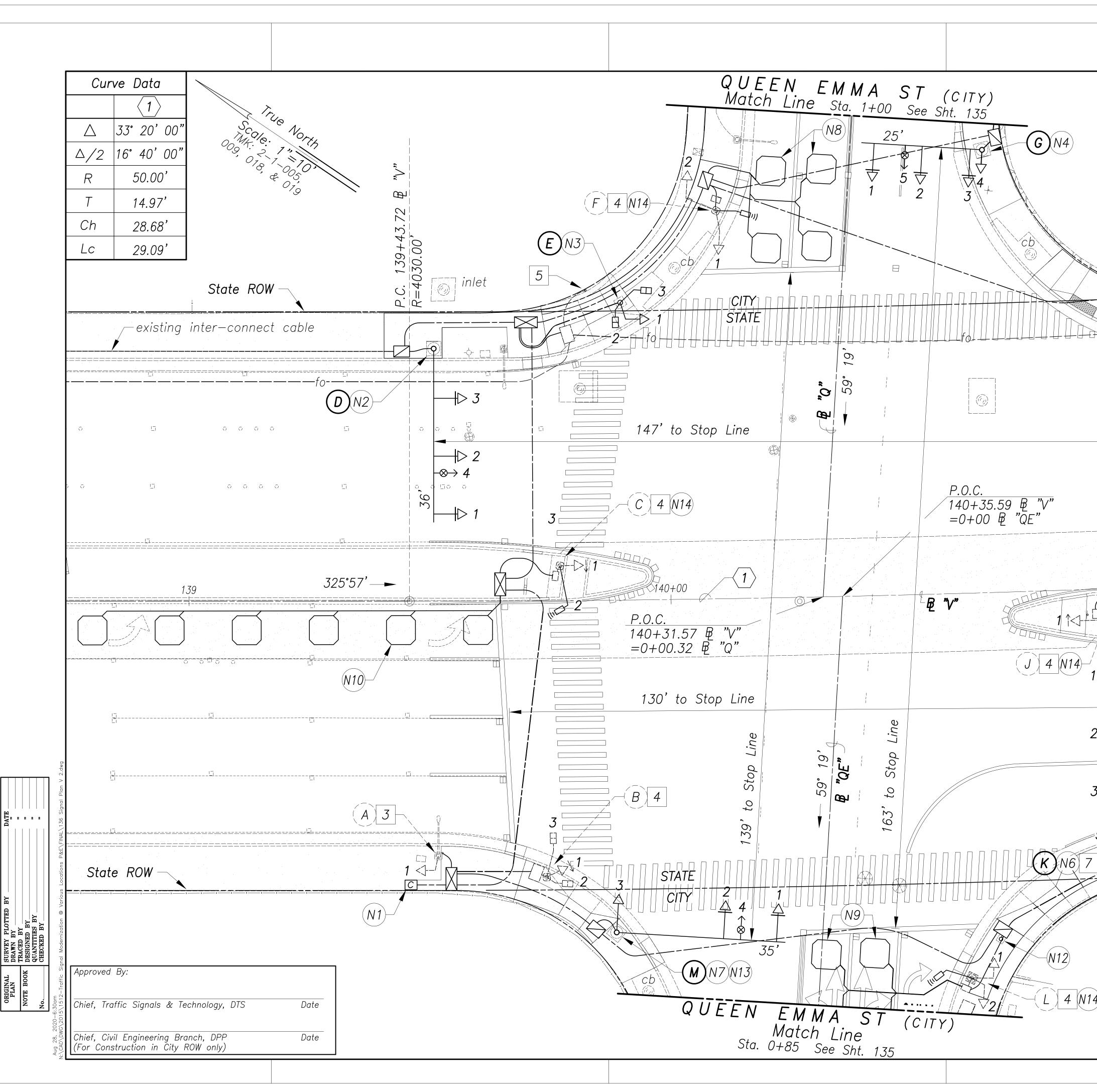
 $(\widehat{\mathbb{H}})^{(\widehat{\mathbb{H}})}$ 

- 2 For location of traffic signal pullboxes, see New Duct L
- 3 Existing street light standard with signal head to rem
- 4 Type I traffic signal standard to remain.
- 5 Existing pedestrian push button (ppb-1 & 2) to rem
- 6 Existing power source. Existing HECO meter on joint
- 7 Relocate 2-inch water lateral, see sheet 54.
- 8 See sheet 140 for new signal work schedules.

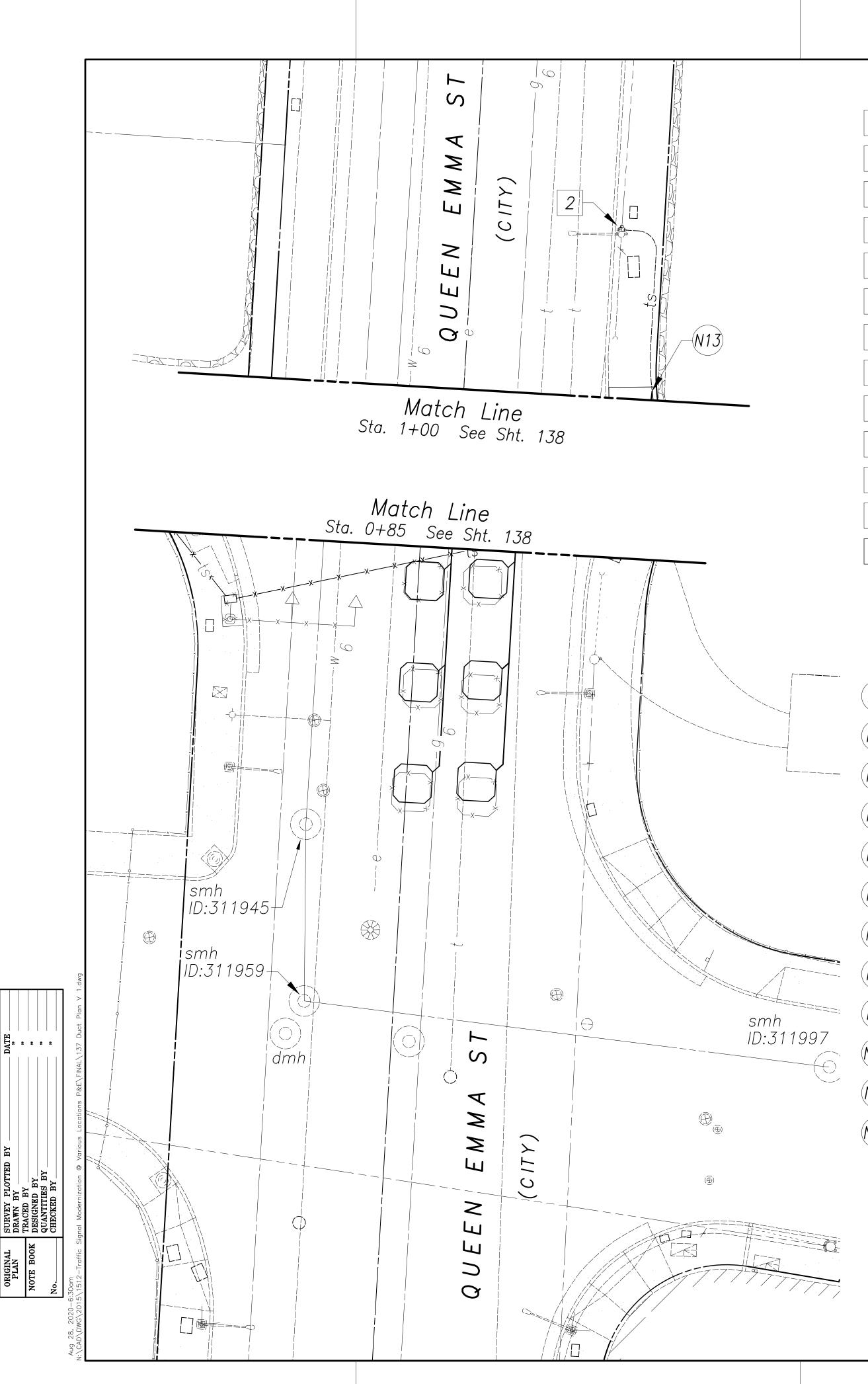
## New Signal Work Callouts:

- (N1) Install Controller Assembly with Software 139+46.03 ₽ "V" (76.5' Rt.)
- (N2) Install Type II Traffic Signal Standard with 36−foot m and drilled shaft foundation. 139+71 ₽ "V" (54' Lt.
- (N3) Install Type I Traffic Signal Standard, 10−feet height, foundation. 139+88 ₽ "V" (61.7' Lt.)
- (N4) Install Type II Traffic Signal Standard with 25−foot m and drilled shaft foundation. 140+67 段 "V" (88' Lt.
- N5) Install Type I Traffic Signal Standard, 10−feet height, foundation. 141+02.98 ₽ "V" (53.74' Lt.)
- (N6) Install Type II Traffic Signal Standard with 38−foot m and drilled shaft foundation. 140+92.25 ₽ "V" (53.5
- (N7) Install Type II Traffic Signal Standard with 35−foot m and drilled shaft foundation. 139+88.50 ₽ "V" (68.5)
- (N8) Install Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 2 Loo centered in lane
- (N9) Install Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 4 Loo centered in lane
- (N10) Install Loop Detector Sensing Unit (6 Ft. x 6 Ft.) 6 Loo centered in lane
- (N11) Install pedestrian push button PPB–3, ADA compliant, traffic signal standard.
- (N12) Install pedestrian push button PPB-4, ADA compliant, mounted on a pedestal with foundation.
- (N13) Install pedestrian push buttons PPB–5 and PPB–6, A compliant, mounted on traffic signal standard.
- (N14) Install temporary Approach—Only Microwave Vehicle Det on existing traffic signal standard.

tical pole.					ED ROAD DIST. NO. HAWAII	STATE HAW.	FED AID PROJ. NO. STP-0300(163)	FISCAL YEAR 2020	SHEET NO. 135	total sheets <i>284</i>
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nain.	I.D. LABEL	SOIL TYPE	GRADE	٨	IAST AR LENGTH (feet)		DRILLED SHA DIAMETER (inches)	FT DR	RILLED LENG (fee	
nain. pole.	<b>D</b> *	Sand & Gravel	Level		36		30		10	
pore.	6*	Sand & Gravel	Level		25		30		7	
	(K)*	Sand & Gravel	Level		38		30		10	
	(M)*	Sand & Gravel	Level		35		30		9	
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nast arm .)	<u>C/</u> st	<u>AUTION!</u> eel pipe	HECO that i	138 's no	3kV duo ot cond	ct ba crete	nk consists encased.	of co	onduits	and
with					Approved	By:				
nast arm 5' Rt.)							nals & Technology eering Branch, DP			Date Date
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etector		(*(	LICENSED PROFESSIONAL ENGINEER No. 6763-C	*			HIGHWAYS DIV / SIGNA Blvd & Qu	LW		
		License Ex THIS WORK UNDER MY SUF OF THIS PR OBSERVATION / CHAPTER 115 PROFESSIONAL SURVEY	piration Date <u>04</u> WAS PREPARED BY PERVISION AND CON OJECT WILL BE UN AS DEFINED IN HAR B, RULES OF THE BE ENGINEERS, ARCHI ORS, STATE OF HAW HI Gammo	ME OR NSTRUCTION DER MY TITLE 16, BOARD OF TECTS AND WAII.	<u>Feder</u> Scale:	<u>Trafi</u> al—Ai 1"=1	fic Signal Mo <u>Oahu, Pha</u> d Project No 0'	<u>derniz</u> <u>se 1</u> . STP- Date	<u>ation,</u> —0300 : July	<u>(163)</u> 2020
					\$	SHEET	No. <i>TS-40</i> OF	13 <sup>±</sup>	_	S



		FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL SHEE YEAR NO.	TOTAL SHEETS
		HAWAII	HAW. ST	P–0300(163)	2020 136	284
	A HECO standby in excavation is within FTB enclosure surro	spector 10 fee ounding	<u>must</u> be t of the 138kV c	e on—site outside able pipe	anytime t face of th s.	the ne
	<u>CAUTION!</u> HECO 13 steel pipe that is r	38kV duc not conc	et bank Frete end	consists cased.	of conduit	s and
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	S HIGASH LICENSED PROFESSIONAL ENGINEER		DEPARTM	STATE OF HA ENT OF TRA HIGHWAYS DIV	ANSPORTATIO	N
	ROFESSIONAL ENGINEER No. 6763−C		VEW	SIGNA	L WOR	<u>K</u>
	License Expiration Date <u>04-30-2</u>				<u>leen Emr</u>	
14	THIS WORK WAS PREPARED BY ME O UNDER MY SUPERVISION AND CONSTRUC OF THIS PROJECT WILL BE UNDER M OBSERVATION AS DEFINED IN HAR TITLE			<u>Oahu, Pha</u>		
	CHAPTER 115, RULES OF THE BOARD PROFESSIONAL ENGINEERS, ARCHITECTS SURVEYORS, STATE OF HAWAII. 	AND <u>Feder</u> Scale:	1"=10'		Date: July	2020
		<u> </u>	SHEET N	0. 15-4101	F 113 SHEE	.15



## Notes:

1Tie-down of traffic signal controller & pullboxes is to center2Existing power source.Existing HECO meter mounted on join

3 20 L.F. Reinforced Concrete Jacket on 8" sewer.

4 11 L.F. Reinforced Concrete Jacket on 8" sewer.

- 5 Existing pullbox PB-10 to remain.
- 6 Existing pullbox PB-11 to remain.
- 7 Existing pullbox PB-13 to remain.
- 8 Existing pullbox PB-15 to remain.
- 9 Existing pullbox PB-16 to remain.
- 10 Existing pullbox PB-17 to remain.
- 11 Existing pullbox PB-18 to remain.
- 12 Existing pullbox PB-19 to remain.
- 13 Precast pull boxes shall be set on six (6) inches of level, 95% compacted crushed rock fill, 3/4 inch to one (1) inch size, ext twelve (12) inches beyond the pull box on each side. Granular be compacted by a minimum of four passes with a plate type

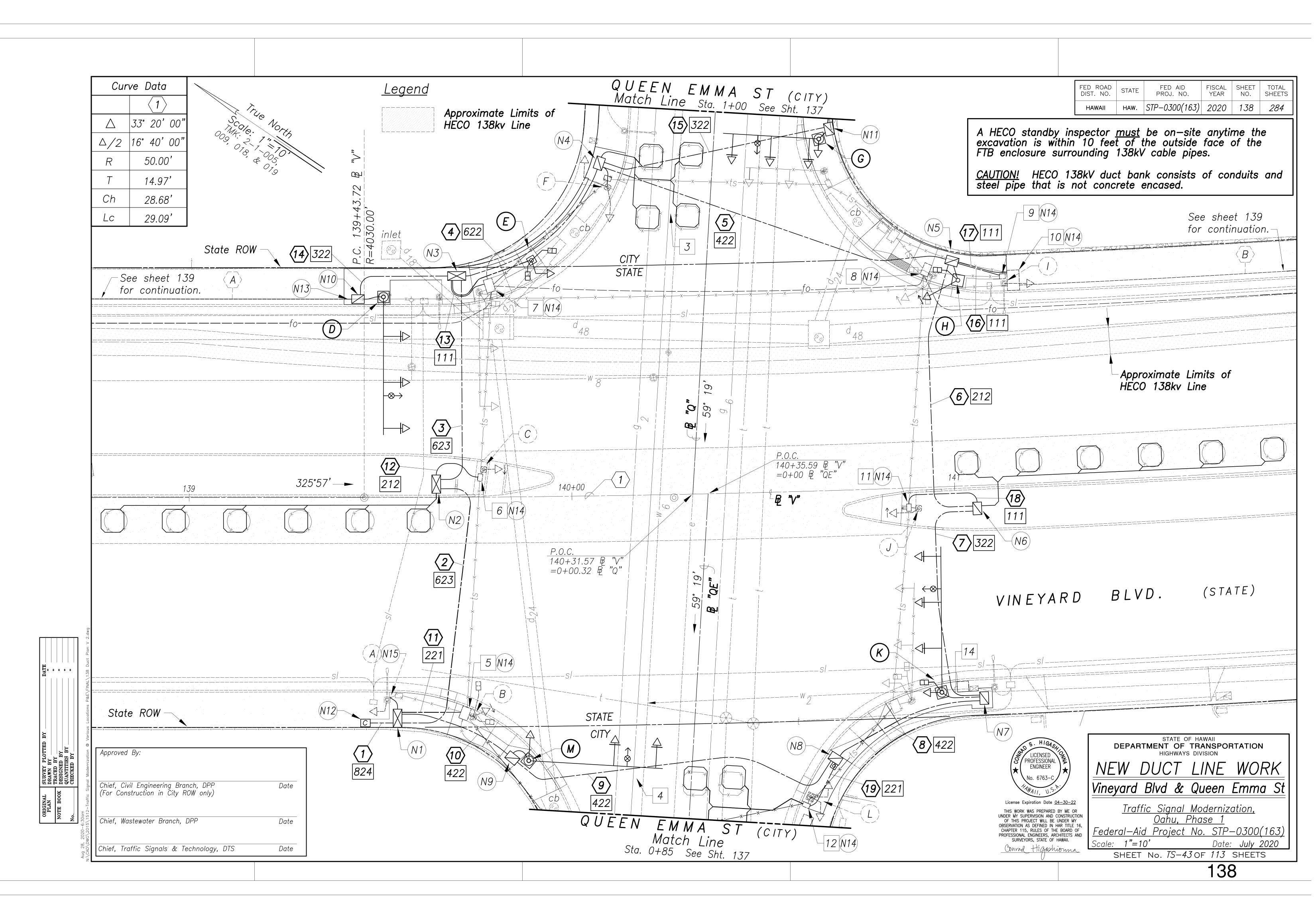
## New Duct Line Work Callouts:

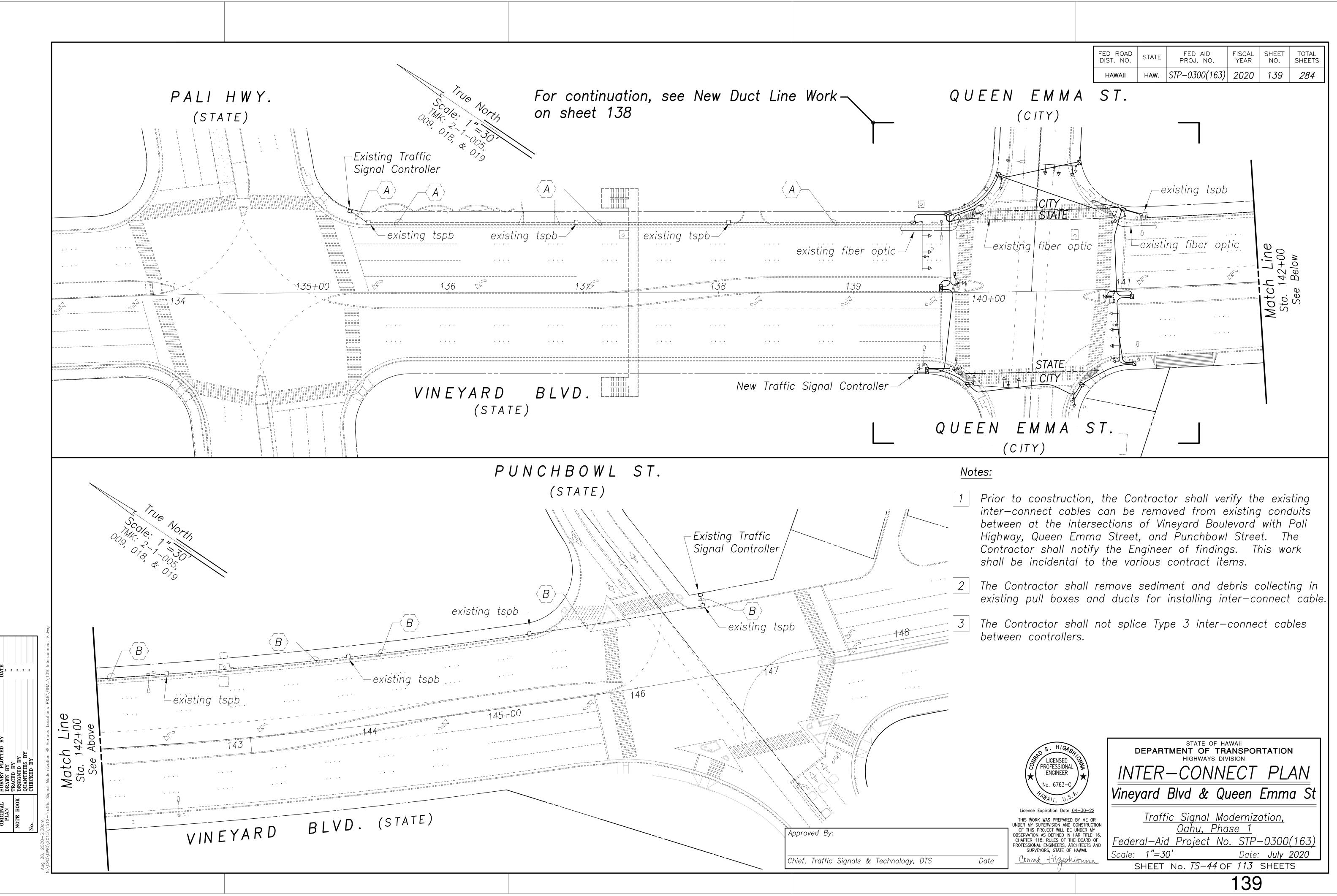
<u>N1</u>	Install	Туре	С	Pullbox	PB-1.	139+87 B	"V" (72' Rt.)
(N2)	Install	Туре	С	Pullbox	PB-2.	139+87 B	"V" (5' Lt.)
(N3)	Install	Туре	С	Pullbox	PB-3.	139+69 🖻	"V" (58.52' Lt.)
<u>N4</u>	Install	Туре	В	Pullbox	PB-4.	140+07.50	₽ "V" (87.20' Lt.
(N5)	Install	Туре	В	Pullbox	PB-5.	141+00 🖻	"V" (58' Lt.)
<u>N6</u>	Install	Туре	В	Pullbox	PB-6.	140+94 B	"V" (5' Rt.)
(N7)	Install	Туре	В	Pullbox	PB-7.	140+97 B	"V" (56' Rt.)
<b>N8</b>	Install	Туре	В	Pullbox	PB-8.	140+61 月	"V" (86' Rt.)
N9	Install	Туре	В	Pullbox	PB-9.	139+87 B	"V" (72' Rt.)
N10	Install	Туре	В	Pullbox	PB-12.	139+42 B	"V" (51.8' Lt.)
N11	Install	Туре	В	Pullbox	PB-14.	140+69.50	₽ <b>"</b> V" (92.09'Lt.
N12	New tr	raffic	sig	gnal con	troller.	139+46.03	₿ "V" (76.5'Rt.)

Approved By: Chief, Civil Engineering Branch, DPI (For Construction in City ROW only, Chief, Wastewater Branch, DPP Chief, Traffic Signals & Technolog

			FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
er of box.			HAWAII	HAW.	STP-0300(163)	2020	137	284
oint pole.	F C	HECO standby xcavation is with TB enclosure sur <u>AUTION!</u> HECO teel pipe that is	rrounding 138kV du	138k\ ct baı	/ cable pip nk consists	es.		
	Not	tes continued:						
	14	Relocate 2–inch	water lo	ateral,	see sheet	54.		
	15	See sheet 140	for new	duct l	ine work so	chedul	es.	
	16	The Contractor horizontal or ve Honolulu right—c vertical alignmen approval from t prior to constru	rtical alig of—way. nt within he Depar	nmen All ch City r	t within City anges in h ight—of—wa	y & Ĉ orizon y requ	ounty tal or iire re	of evision
% ktending r fill shall vibrator.								
	New	v Duct Line Work	< Callouts	cont	inued:			
	N13	Connect new co	oncrete er	ncased	l conduit to	o exist	ing c	onduit.
	N14	Connect new co shall drill thru e non—shrink grou pullbox. Remove	existing p it. Cut o	ull bo abando	x wall and oned ducts	patch at ins	hole side fo	with
.)	N15	Connect new co standard with tr			•	street	light	
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		ROFESSIONAL			MENT OF TR	ANSPOF		
pp v)	Date	No. 6763-C	) <u> NE</u>		DUCT L Blvd & Qi			
y)	Date	License Expiration Date <u>04-30</u> THIS WORK WAS PREPARED BY ME UNDER MY SUPERVISION AND CONSTE OF THIS PROJECT WILL BE UNDER OBSERVATION AS DEFINED IN HAR TI	-22 E OR RUCTION & MY IF 16	<u>Traff</u>	ic Signal Mo Oahu, Pho	oderniz ise 1	ation,	
gy, DTS	Date	CHAPTER 115, RULES OF THE BOAF PROFESSIONAL ENGINEERS, ARCHITEC SURVEYORS, STATE OF HAWAII. CONVAL Higashiom	rd of TS AND <u>Fede</u> Scale:	1"=1		Date:	July	2020
				SHEET	No. <i>TS-42</i> 0	f <i>113</i>	SHEET	S

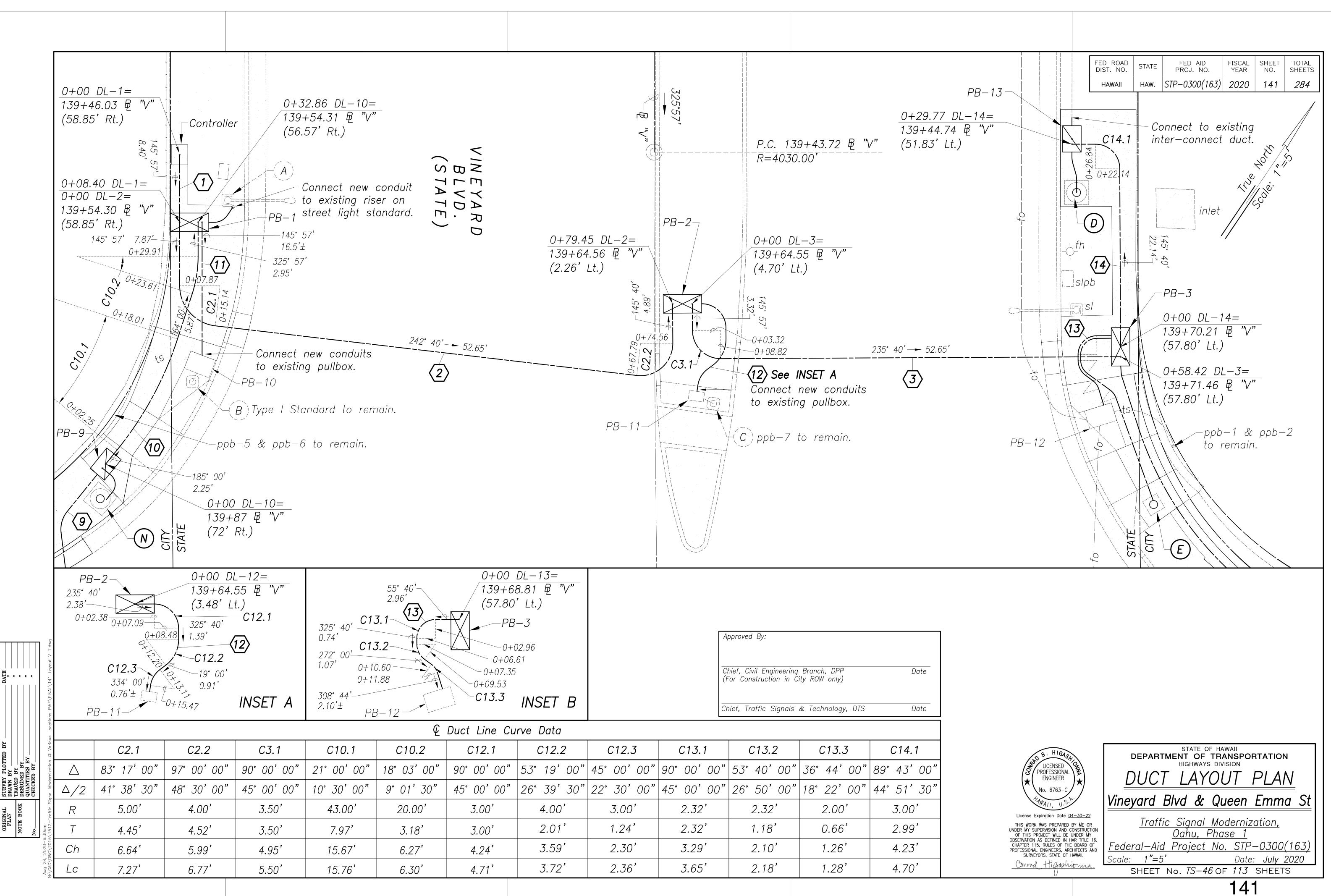
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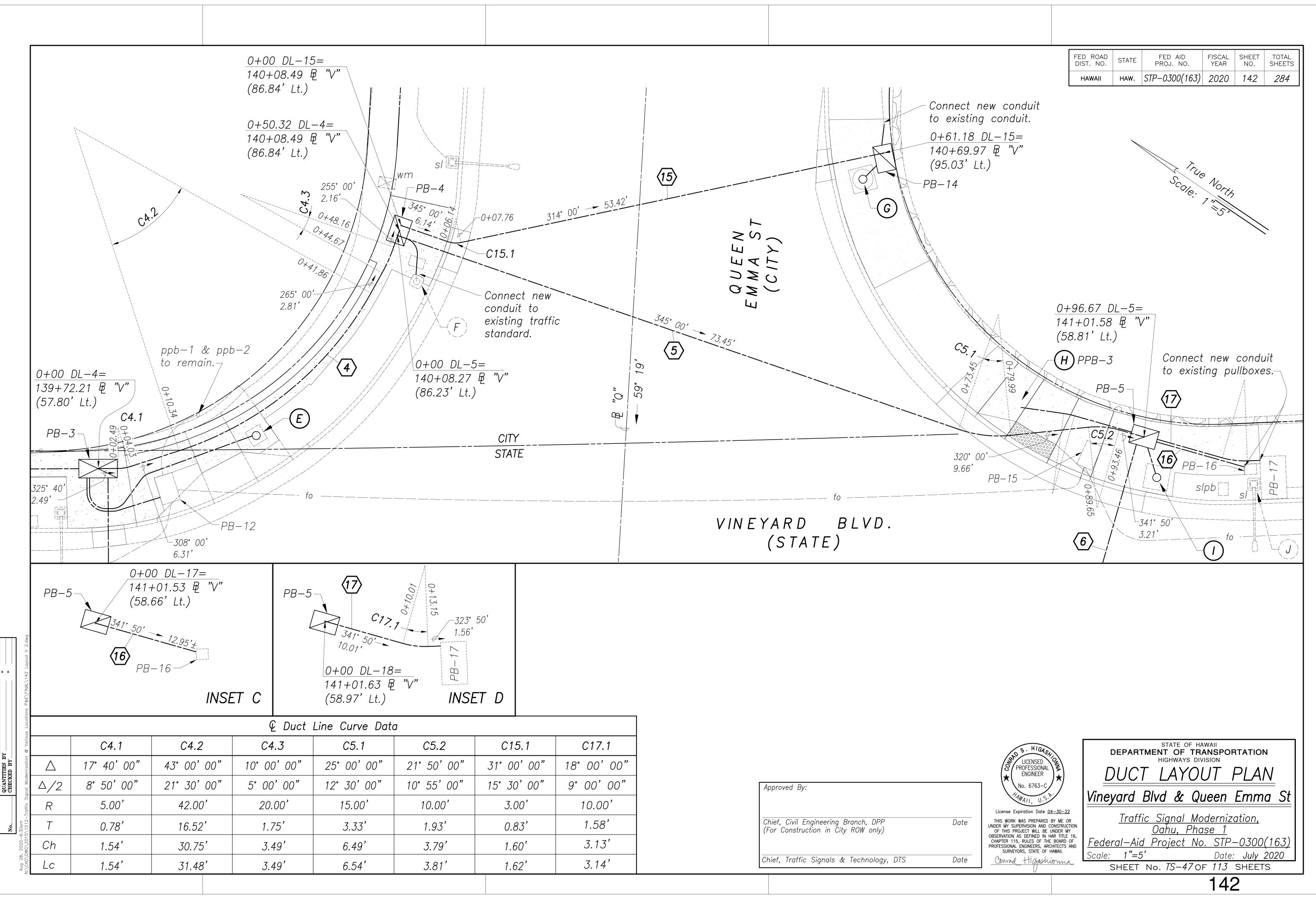


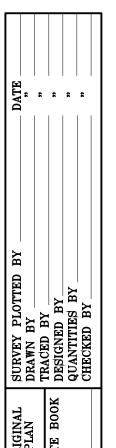
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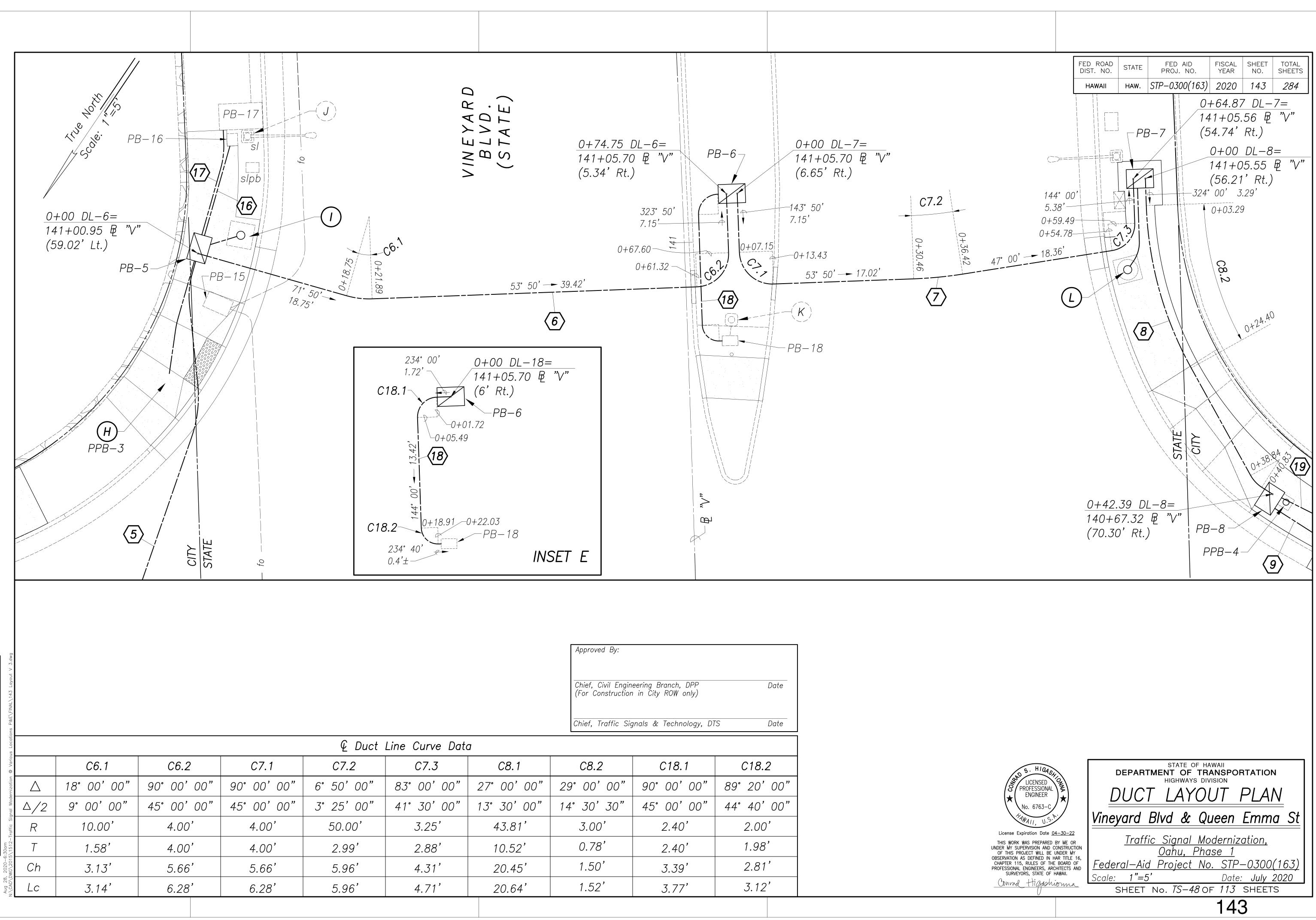
					CONDUIT-CABL	<u>LE</u> S(	<u>SHEDU</u>	ILE			SIGNAL HEAD	SCHEDULE	<b>]</b> [ <sup>F</sup>	FED ROAD DIST. NO.STATEFED AID PROJ. NO.FISCAL YEARSHEET NO.
$\bigcirc$	FROM	Λ Τ(	го	CONDUIT	CABLE	$\bigcirc$	FROM	ТО	CONDUIT	CABLE	Head Type and Description	Pole Letter – Signal Head		hawaii haw. STP-0300(163) 2020 140 PEDESTRIAN PUSH BUTTO
(1)	CONTF	TR. PB-	-1	New 8–2" Sch. 40 Concrete Encased	1—Type 1, Ground Wire 4—Type 2 3—Type 2		PB-8	3 PB-9	New 4–2" Sch. 40 Concrete Encased	1—Type 1, Ground Wire 3—Type 2 1—Type 7 Spare		Number A-1* I-1* D-1** K-1** D-2** K-2** D-3** K-3**		SCHEDULE Description New Signal Pole Work Callout PPE
					2—Type 3 1—Type 6 4—Type 7 Spare	(10)	PB-9	9 PB-10	) New 4–2" Sch. 40 Concrete Encased	1–Type 1, Ground Wire 2–Type 2 2–Type 7 Spare		E-1 K-4 F-1* L-1* F-2* L-2* G-1** M-1** G-2** M-2** G-3** M-3 G-4		$\begin{array}{c c} & & & & \\ \hline \\ \hline$
2	PB-1	I PB-	3–2	New 6–2" Sch. 40 Concrete Encased	1—Type 1, Ground Wire 4—Type 2 2—Type 3		PB-1	Exist. PB-10		2—Туре 2 1—Туре 5	R Red Ball	B-1* H-1		N13 PP1
				i	1—Туре 6 2—Туре 7	(12)	PB-2		New 2–2" Sch. 40 Concrete Encased	1–Type 5	Yellow Arrow (Left) Green Arrow (Left) $12" R \leftarrow \leftarrow$			
3	PB-2	-2 PB-	-3	New 6–2" Sch. 40 Concrete Encased	Spare 1-Type 1, Ground Wire 5-Type 2 2-Type 3 1-Type 6 2-Type 7		PB-5 PB-3	5 Exist. PB-12 3 <b>PB-13</b>	New 1–2" Sch. 40 Concrete Encased New 3–3" Sch. 40 Concrete Encased		TrafficSignalHead $R$ RedBall $P$ YellowArrow(Left) $P$ </td <td></td> <td></td> <td></td>			
4	PB-3	3 PB	-4	New 6–2" Sch. 40 Concrete Encased	2-Type 7 Spare 1-Type 1, Ground Wire 4-Type 2			4 PB-14 4 Exist.	4 New 3–2" Sch. 40 Concrete Encased New 1–2" Sch. 40	1—Туре 6 1—Туре 7	Programmed Visibility Traffic Signal Head Countdown Pedestrian Signal Head	B-2* E-2 B-3* E-3 H-2		
					1—Type 3 1—Type 6 1—Type 7 Spare		PB-5	Meter 5 Exist. 78-16	Concrete Encased		* Existing signal he ** Install Backplate Retroreflective Bo	K–5 lead to remain with		
<u>(5</u> )	PB-4	-4 PB-	-5	New 4–2" Sch. 40 Concrete Encased	1-Type 2		PB-5	PD-17	7 New 1–2" Sch. 40 Concrete Encased	1—Type 3	OPTICOM SC			
6	PB-5				1–Type 3 Spare 1–Type 1, Ground Wire	(19)	PB-6	<i>FD</i> -10	New 1–2" Sch. 40 Concrete Encased	1–Type 5	Mounting Type	Pole Letter – Opticom Number		1
		5 PB- 6 PB-		New 2–2" Sch. 40 Concrete Encased New 3–2" Sch. 40	I-Type I, Ground Wire Spare 1-Type 1, Ground Wire	(20)		FD-19	Concrete Encased	1—Туре 2 1—Туре 5	Mast Arm, One—Way	D-4 K-6 G-5 M-4		9/16/20 Revised conduit 10 cable sched DATE REVISION
	Γυ ς			New 3–2 Sch. 40 Concrete Encased	1–Type 1, Ground whe 1–Type 2 Spare	$\langle A \rangle$	<b>PB-12</b> PB-17	- Exist.	Exist. $1-2$	1—Туре 3 1—Туре 3			Stru LICENSED PROFESSIONAL ENGINEER	DATE REVISION STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION NEW WORK SCHEDU
8	PB-7	' PB-	3-8	New 4–2" Sch. 40 Concrete Encased	1—Type 1, Ground Wire 1—Type 2 1—Type 7 Spare			′ Contr.			Approved By:		No. 6763-C HAMAII, U.S. License Expiration Date 04-30-22 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAR TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.	Vineyard Blvd & Queen Emr   Traffic Signal Modernization   Oabu   Oabu



C10.2	C12.1	C12.2	C12.3	C13.1	C13.2	C13.3	C14
°03'00"	90°00'00"	53°19'00"	45°00'00"	90°00'00"	53°40'00"	36°44'00"	89° 43
01'30"	45°00'00"	26° 39' 30"	22° 30' 00"	45°00'00"	26°50'00"	18°22'00"	44°51
20.00'	3.00'	4.00'	3.00'	2.32'	2.32'	2.00'	3.0
3.18'	3.00'	2.01'	1.24'	2.32'	1.18'	0.66'	2.9
6.27'	4.24'	3.59'	2.30'	3.29'	2.10'	1.26'	4.2
6.30'	4.71'	3.72'	2.36'	3.65'	2.18'	1.28'	4.7



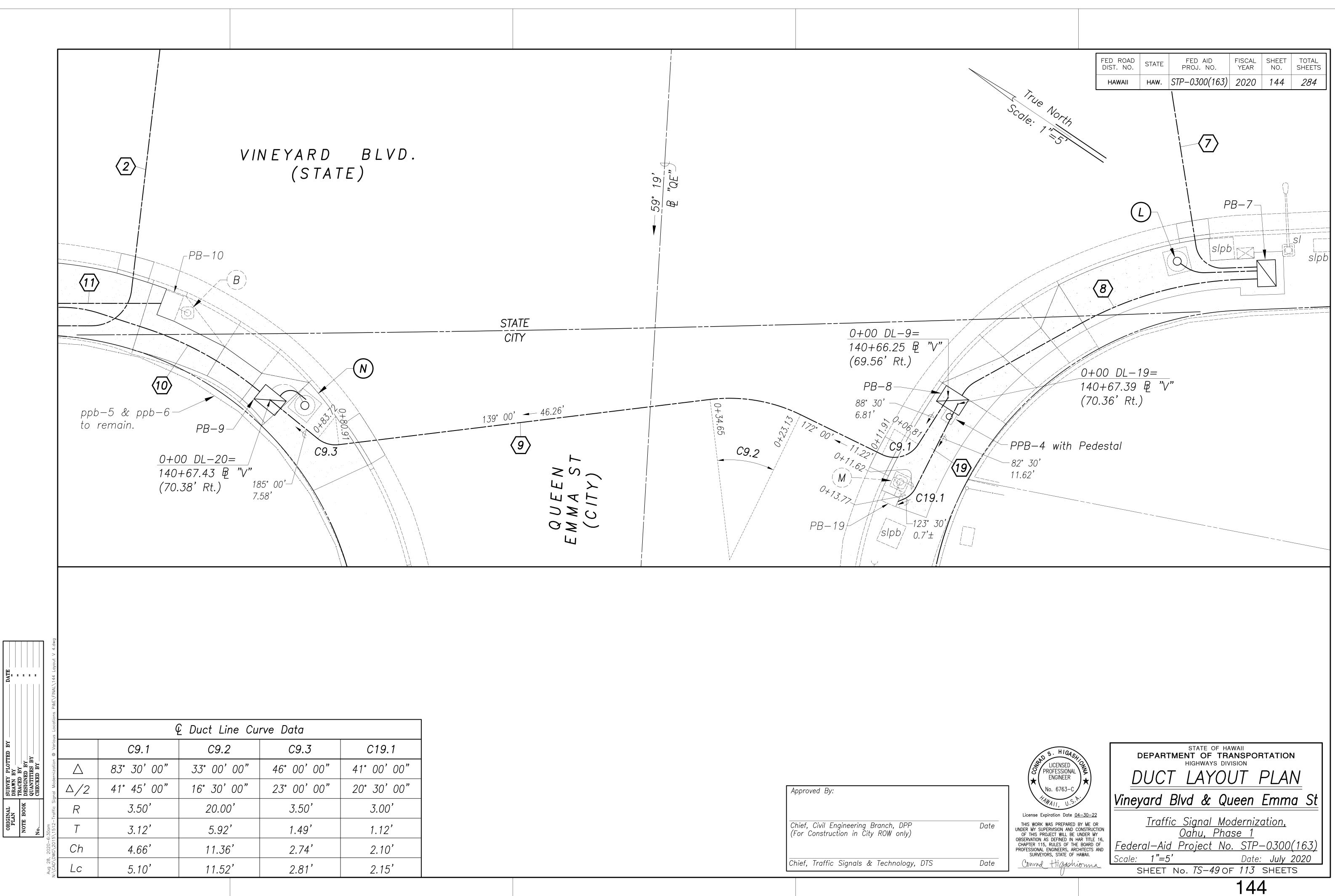




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SURVEY PLC DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY	
ORIGINAL PLAN		NOTE BOOK		No.	

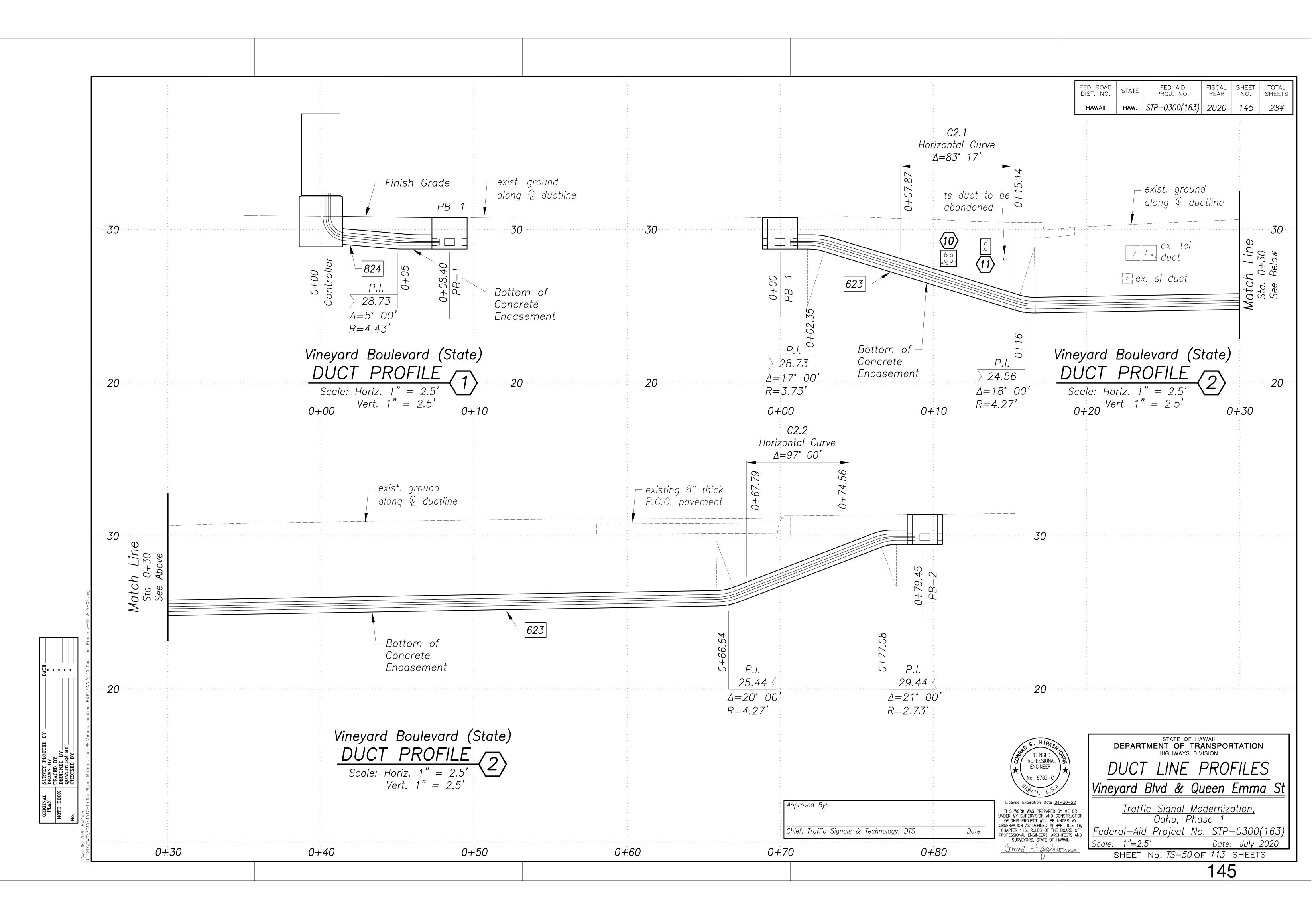
Approved By:		
Chief, Civil Engine (For Construction	eering Branch, DPP in City ROW only)	Date
Chief, Traffic Sig	nals & Technology, DT	S Date
C8.2	C18.1	C18.2

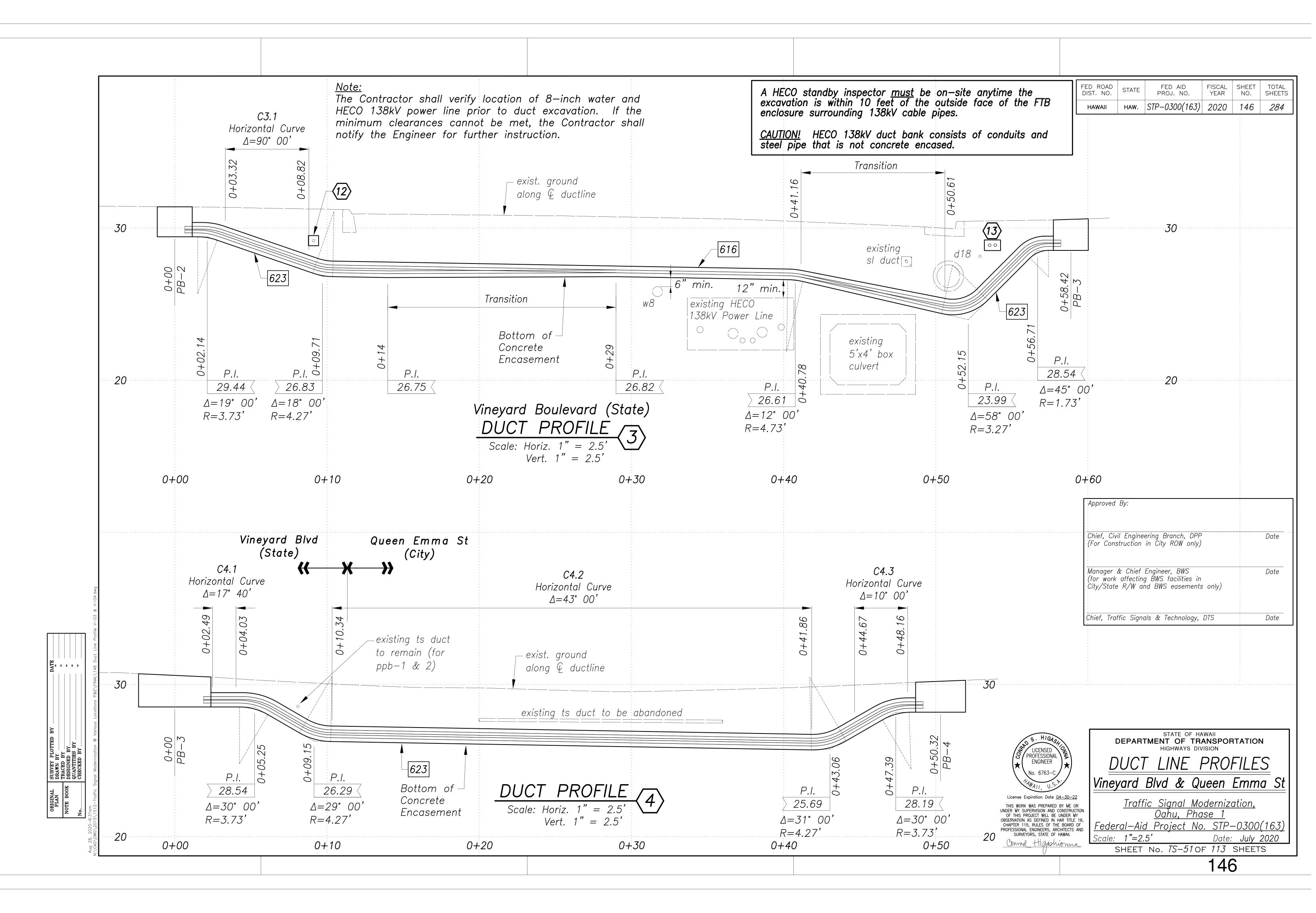
Duct	Line Curve Date	a			
	C7.3	C8.1	C8.2	C18.1	C18.2
00"	83°00'00"	27°00'00"	29°00'00"	90°00'00"	89°20'00"
00"	41° 30' 00"	13°30'00"	14° 30' 30"	45°00'00"	44°40'00"
,	3.25'	43.81'	3.00'	2.40'	2.00'
,	2.88'	10.52'	0.78'	2.40'	1.98'
,	4.31'	20.45'	1.50'	3.39'	2.81'
,	4.71'	20.64'	1.52'	3.77'	3.12'

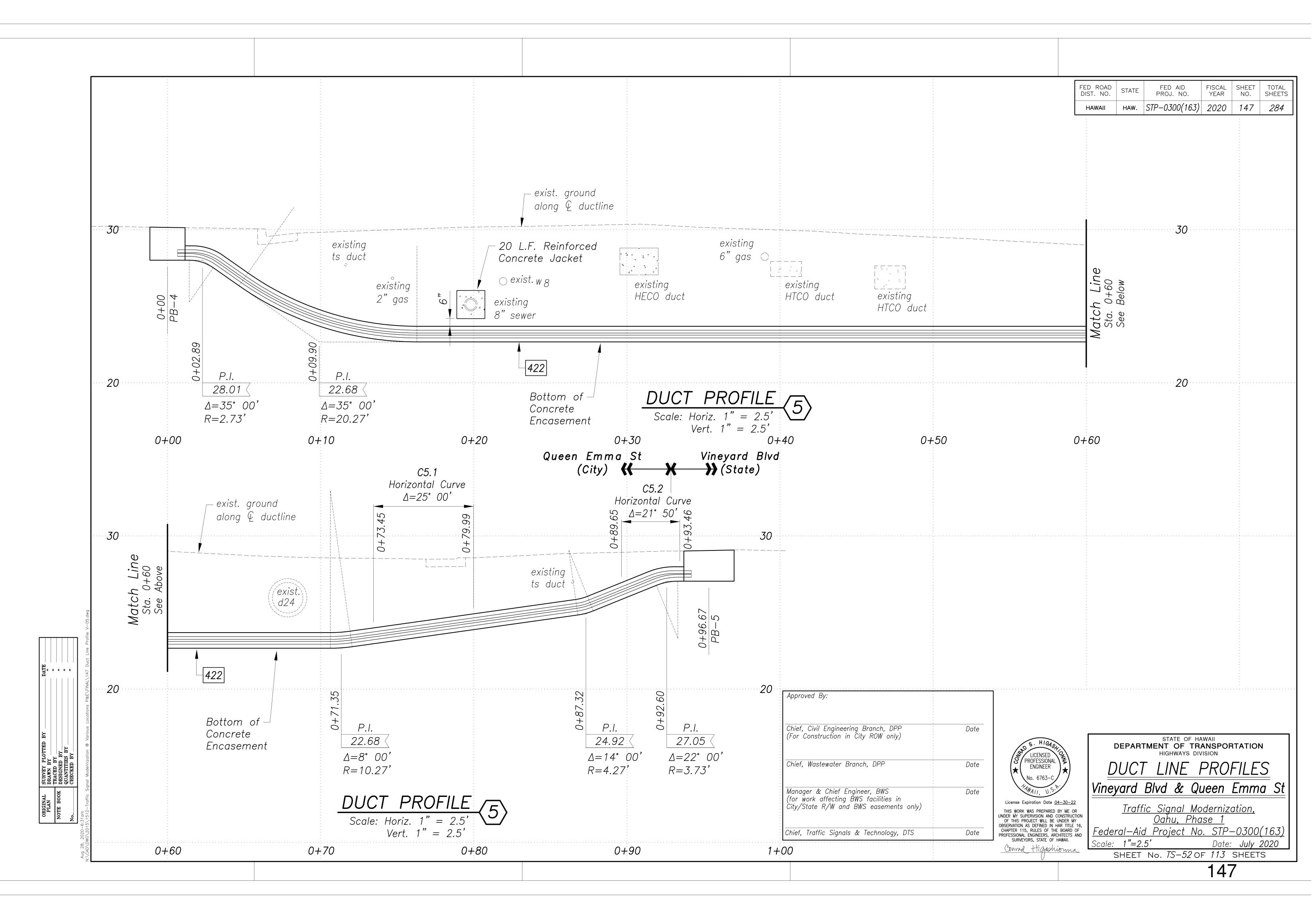


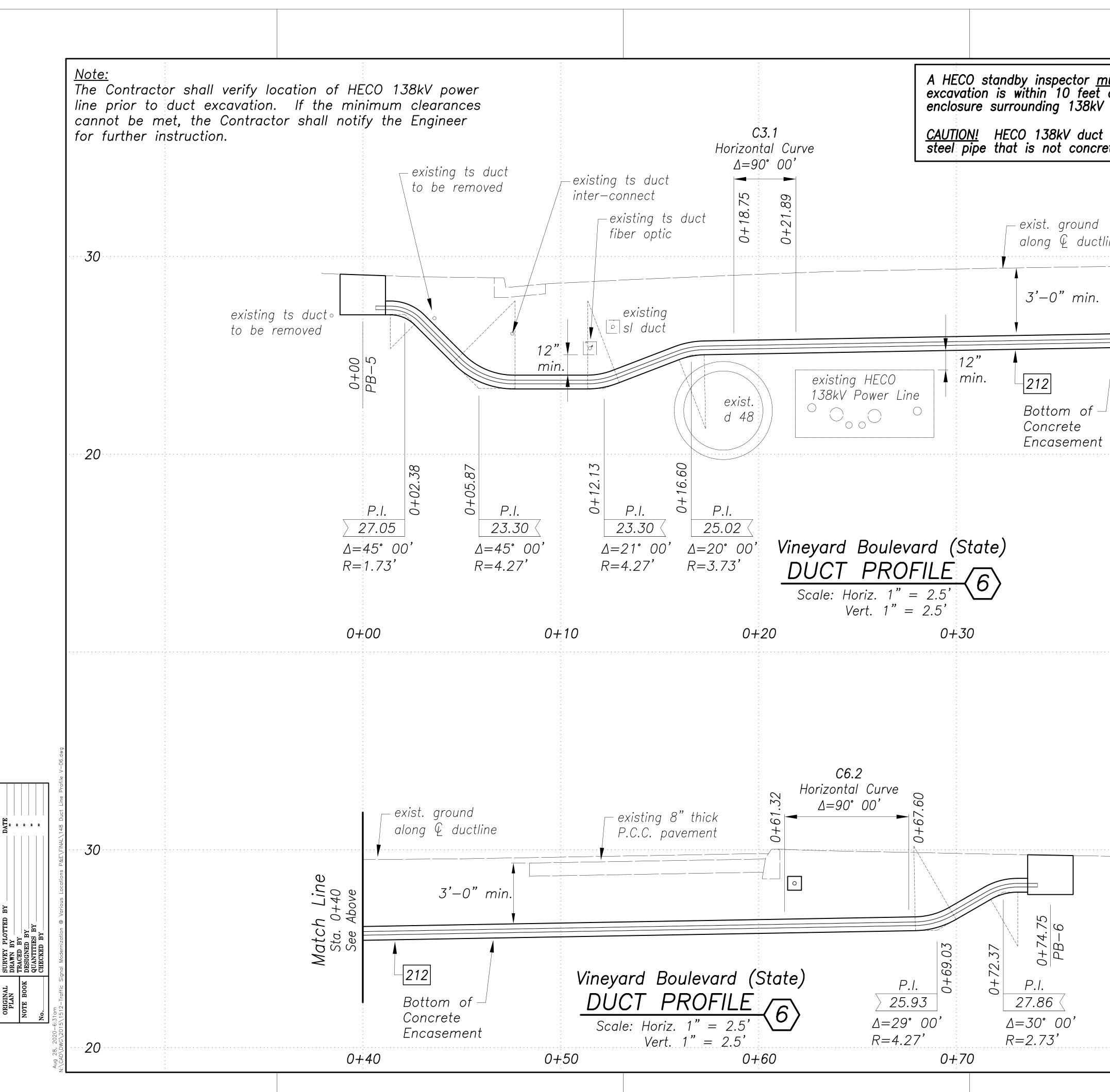
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S. HIGASH UICENSED PROFESSIONAL ENGINEER		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION							
		DUCT LINE PROFILES							
No. 6763-C		Vineyard Blvd & Queen Emma St							
License Expiration Date ( THIS WORK WAS PREPARED	04-30-22 BY ME OR		fic Signal Mo	derniz					
UNDER MY SUPERVISION AND OF THIS PROJECT WILL BE OBSERVATION AS DEFINED IN CHAPTER 115, RULES OF TH	UNDER MY HAR TITLE 16, IE BOARD OF Fodou	ral—Ai	<u>Oaĥu, Pha</u> d Project No		-0.300	(16.3)			
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