

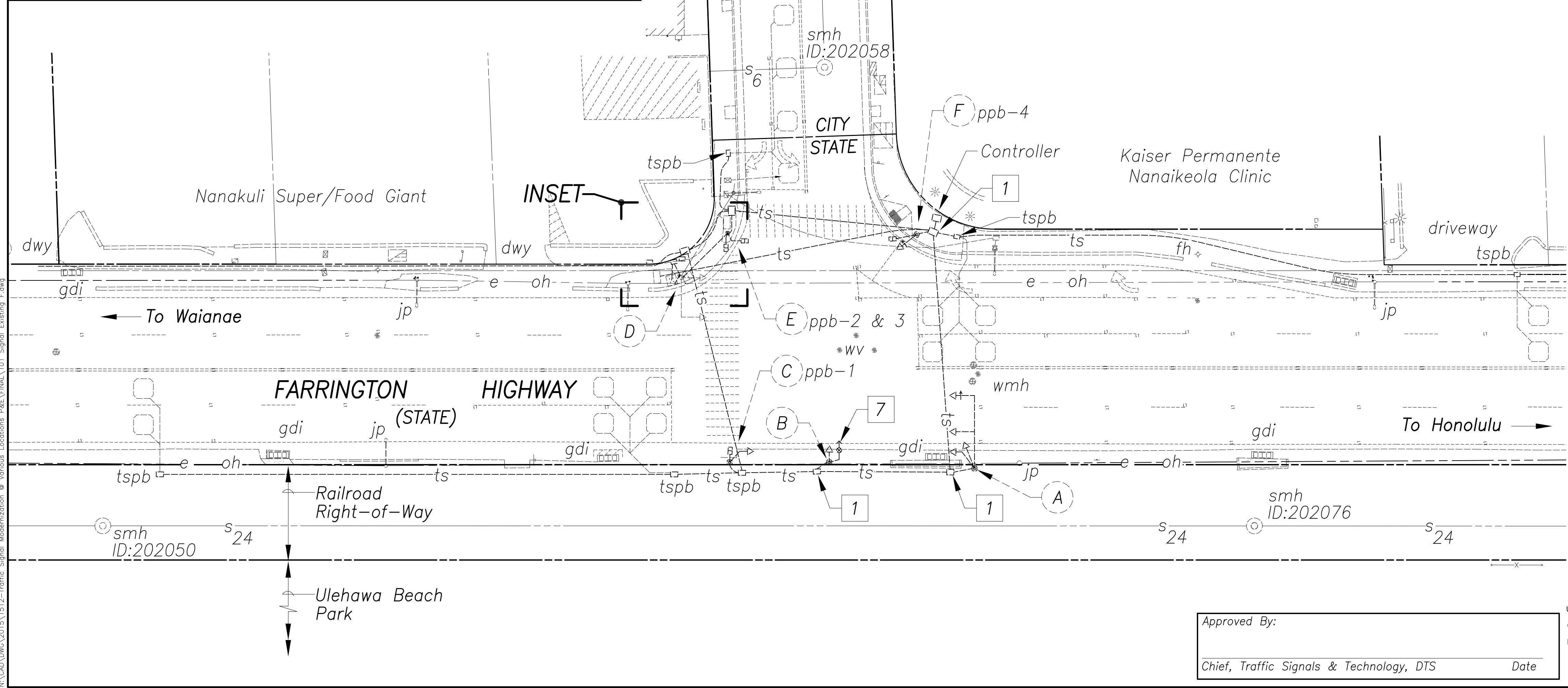
NANAIKEOLA STREET
(CITY)

True North
Scale: 1"=20'
TMK: 8-7-0-4

Notes:

- 1 Prior to construction, the Contractor shall verify location of conduits and cables within pull boxes; and report any discrepancies to the Engineer. The Contractor shall remove sediment and debris collecting in pull boxes; and shall uncover conduits and cables buried within pull box. This work shall be incidental to the various contract items.
- 2 Foundation for knocked-down traffic signal standard.
- 3 Overhead cable connecting overhead power lines, along joint pole, to temporary wooden pole.
- 4 Overhead cable connecting overhead lines to street light pole.
- 5 Temporary wooden pole with traffic signal mast arm, signal heads, and Hawaiian Electric Company meter no. 576634.
- 6 Overhead Type 5 signal drop cable.
- 7 Prior to construction, the Contractor shall verify existing Opticom is operational and inform the Engineer. This work shall be incidental to the various contract items.

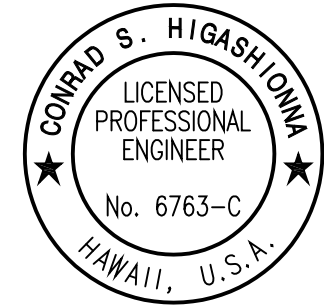
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	101	284



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NOTE BOOK	
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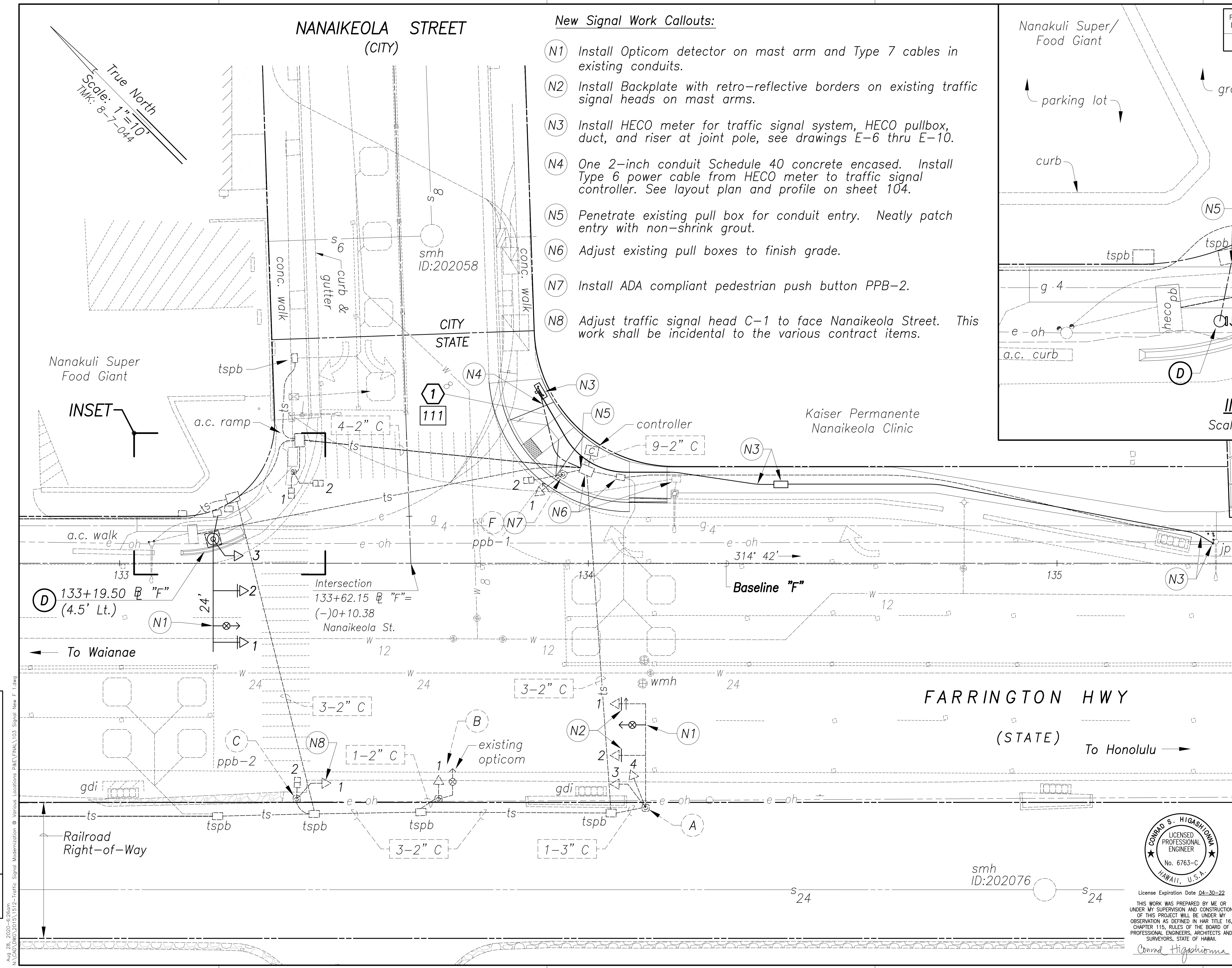
Aug 28, 2020-14:30m
N:\CADD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\01 Signal Existing F.dwg

Approved By: _____
Chief, Traffic Signals & Technology, DTS
Date _____

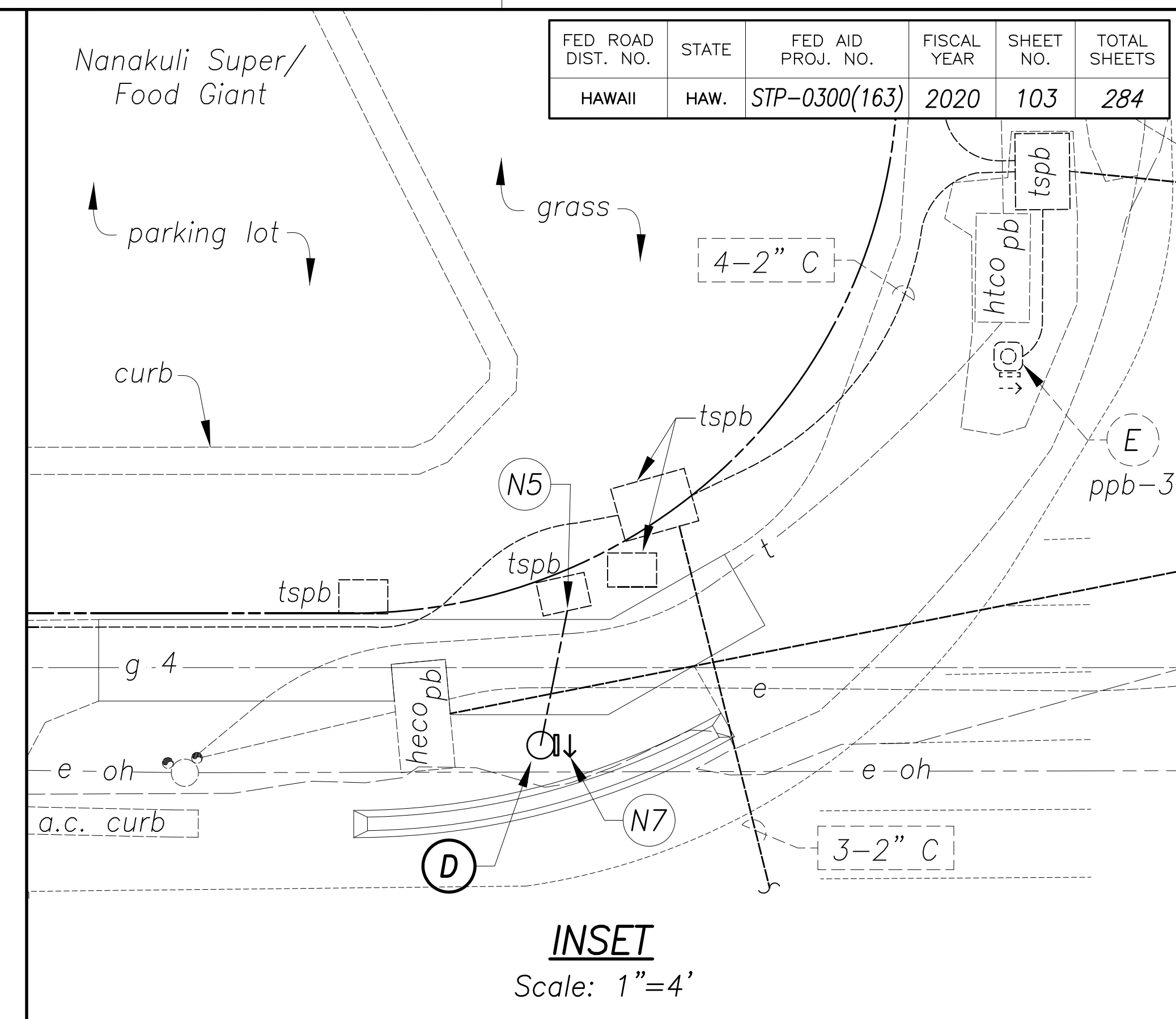


License Expiration Date 04-30-22
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAWAII TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.
Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EXISTING SIGNAL PLAN
Farrington Hwy & Nanaikeola St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=20' Date: July 2020
SHEET No. TS-6 OF 113 SHEETS



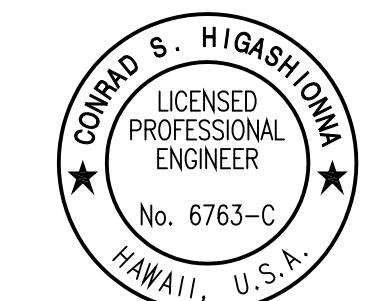
- New Signal Work Callouts:**
- (N1) Install Opticom detector on mast arm and Type 7 cables in existing conduits.
 - (N2) Install Backplate with retro-reflective borders on existing traffic signal heads on mast arms.
 - (N3) Install HECO meter for traffic signal system, HECO pullbox, duct, and riser at joint pole, see drawings E-6 thru E-10.
 - (N4) One 2-inch conduit Schedule 40 concrete encased. Install Type 6 power cable from HECO meter to traffic signal controller. See layout plan and profile on sheet 104.
 - (N5) Penetrate existing pull box for conduit entry. Neatly patch entry with non-shrink grout.
 - (N6) Adjust existing pull boxes to finish grade.
 - (N7) Install ADA compliant pedestrian push button PPB-2.
 - (N8) Adjust traffic signal head C-1 to face Nanaikeola Street. This work shall be incidental to the various contract items.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	103	284

Approved By: _____
Chief, Traffic Signals & Technology, DTS _____ Date _____

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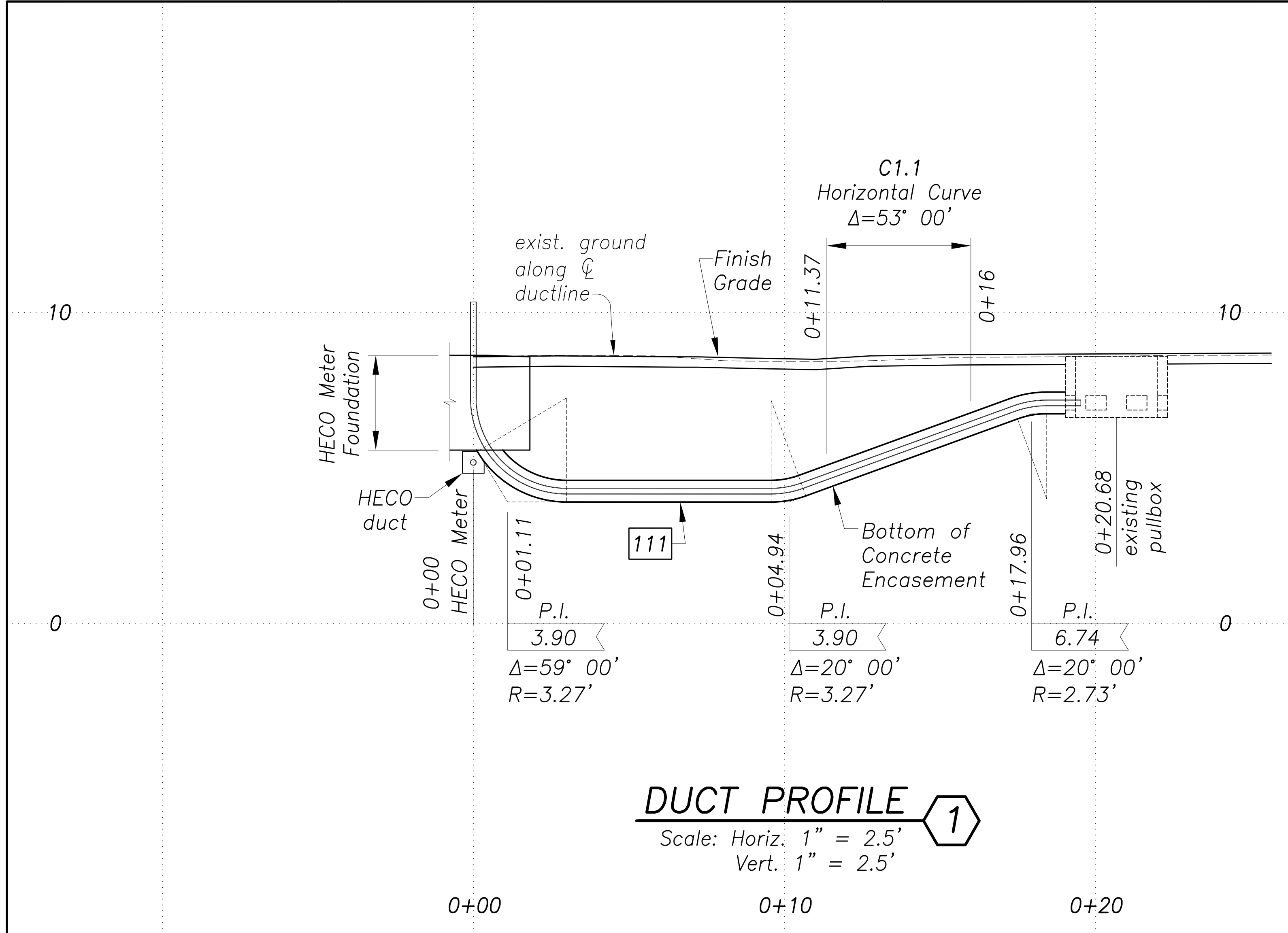


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NEW SIGNAL WORK
Farrington Hwy & Nanaikeola St

Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=10' Date: July 2020
SHEET No. TS-8 OF 113 SHEETS

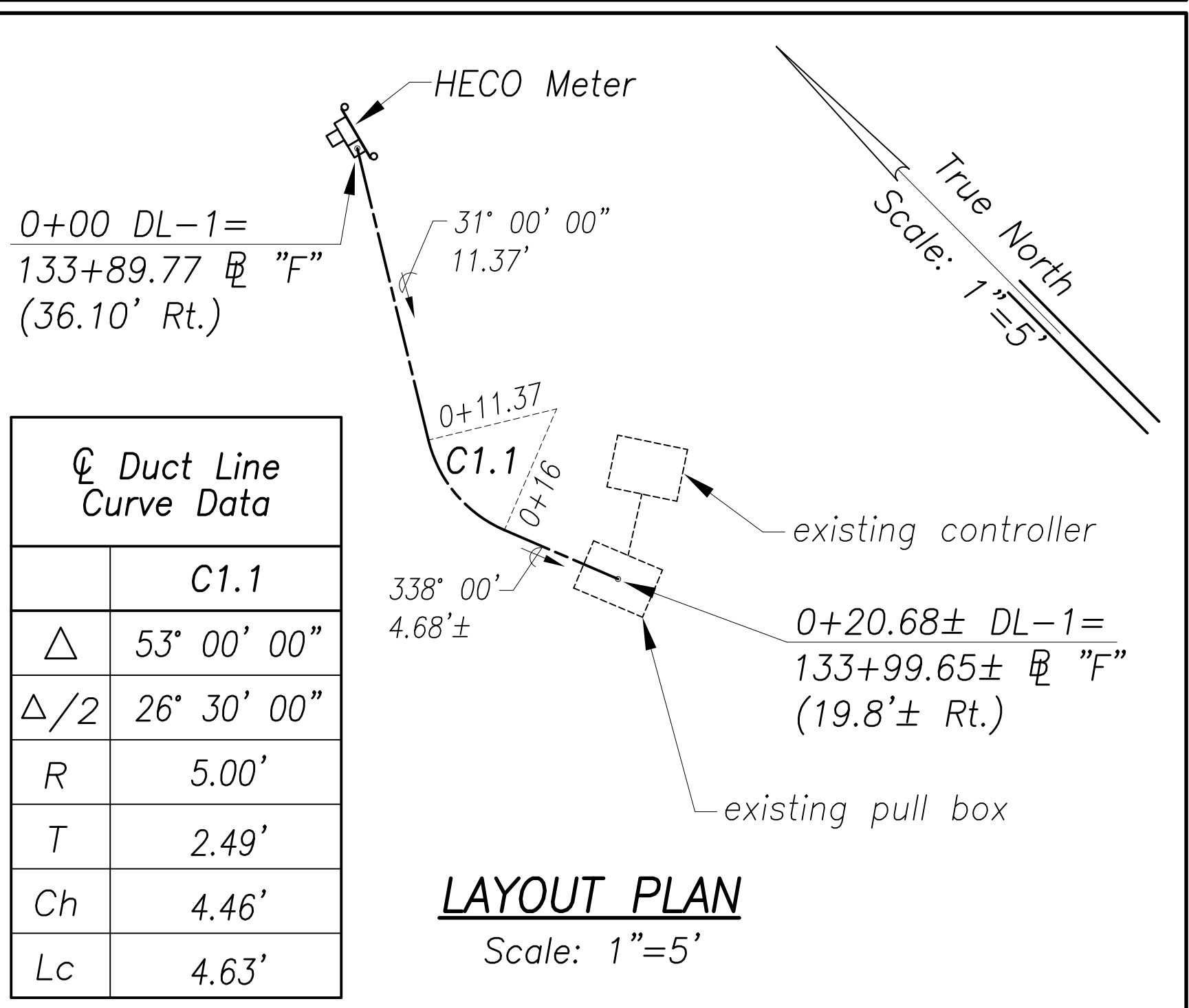


DRILLED SHAFT FOUNDATIONS
for Type II Traffic Signal Standards

I.D. LABEL	SOIL TYPE	GRADE	MAST ARM LENGTH (feet)	DRILLED SHAFT DIAMETER (inches)	DRILLED SHAFT LENGTH (feet)
(A)*	Sand & Gravel	Level	24	30	9

* For drilled shaft foundation details, see 2008 Standard Plans TE-33A.1 & TE-33A.2 – below ground water table.

No boring for soils data conducted for this site.



Duct Line Curve Data	
	C1.1
Δ	53° 00' 00"
Δ/2	26° 30' 00"
R	5.00'
T	2.49'
Ch	4.46'
Lc	4.63'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	104	284

SIGNAL INDICATIONS

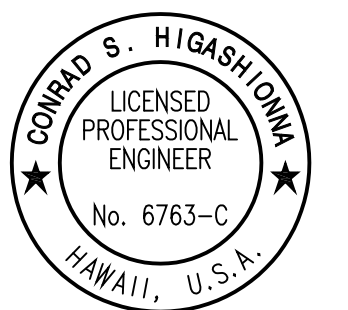
Head Type	Pole Letter – Signal Head Number
<div><div>R</div><div>Y</div><div>G</div><div>←</div>Green Arrow</div>	A-1*** F-1*
<div><div>R</div><div>Y</div><div>G</div></div>	A-2*** D-3 B-1* C-1* D-1** D-2**
<div><div>R</div><div>Y</div><div>↑</div>Green Arrow</div>	A-3*
<div><div>R</div><div>←</div><div>←</div>Yellow Arrow Green Arrow</div>	A-4*
<div><div>←</div><div>←</div><div>←</div></div>	C-2* E-1* E-2* F-2*

- * Existing signal head to remain
- ** Install Backplate with Retroreflective Borders
- *** Install Backplate with Retroreflective Borders on existing signal head to remain

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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Aug 28, 2020-14:30m
N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\104 Signal New F 2.dwg

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STATE OF HAWAII
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NEW SIGNAL WORK
Farrington Hwy & Nanaieola St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: As noted Date: July 2020
SHEET No. TS-9 OF 113 SHEETS