

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

**ADDENDUM NO. 2
FOR
TRAFFIC SIGNAL MODERNIZATION, OAHU, PHASE 2A
DISTRICT OF HONOLULU
ISLAND OF OAHU
FEDERAL-AID PROJECT NO. STP-0300(214)**

NOVEMBER 8, 2024

This Addendum shall make the following amendment(s) to the Solicitation:

A. TABLE OF CONTENTS

1. Delete **TABLE OF CONTENTS**, dated 12/21/22, in its entirety and replace with the attached **TABLE OF CONTENTS**, dated r11/8/2024.

B. SPECIFICATIONS

1. Delete **SECTION 623 – TRAFFIC SIGNAL SYSTEM**, dated 7/1/18, in its entirety and replace with the attached **SECTION 623 – TRAFFIC SIGNAL SYSTEM**, dated r11/8/2024.
2. Add and make a part of the specifications the attached **SECTION 770 – TRAFFIC SIGNAL MATERIALS**, dated r11/8/2024.

C. PROPOSAL SCHEDULE

1. Delete **PROPOSAL SCHEDULE** Pages P-8 through P-21, dated 8/27/24, and replace them with the attached **PROPOSAL SCHEDULE** pages P-8 through P-21, dated r11/8/2024.

D. PLANS

1. Delete **PLAN SHEET NO. 18 EROSION & SEDIMENT CONTROL PLAN (ESCP)** and replace them with attached **PLAN SHEET NO. ADD. 18 EROSION & SEDIMENT CONTROL PLAN (ESCP)**.

2. Delete **PLAN SHEET NO. 97 PLAN – DUCT LINE 5 / PROFILE – DUCT LINE 5 / ELEVATION – POLE C** and replace them with attached **PLAN SHEET NO. ADD. 97 PLAN – DUCT LINE 5 / PROFILE – DUCT LINE 5 / ELEVATION – POLE C**.
3. Delete **PLAN SHEET NO. 100 PLAN – DUCT LINE 9 & 29 / PROFILE – DUCT LINE 9 / ELEVATION – POLE F** and replace them with attached **PLAN SHEET NO. ADD. 100 PLAN – DUCT LINE 9 & 29 / PROFILE – DUCT LINE 9 / ELEVATION – POLE F**.
4. Delete **PLAN SHEET NO. 102 PLAN – DUCT LINE 11 & 31 & 32 / PROFILE – DUCT LINE 11 / ELEVATION – POLE H / ELEVATION – POLE G** and replace them with attached **PLAN SHEET NO. ADD. 102 PLAN – DUCT LINE 11 & 31 & 32 / PROFILE – DUCT LINE 11 / ELEVATION – POLE H / ELEVATION – POLE G**.
5. Delete **PLAN SHEET NO. 106 PLAN – DUCT LINE 15 & 36 / PROFILE – DUCT LINE 15 / ELEVATION – POLE J** and replace them with attached **PLAN SHEET NO. ADD. 106 PLAN – DUCT LINE 15 & 36 / PROFILE – DUCT LINE 15 / ELEVATION – POLE J**.

The following is provided for information:

E. PRE-BID MEETING MINUTES

1. The attached **PRE-BID MEETING MINUTES** are provided for information and includes a list of attendees.

F. RESPONSES TO REQUEST FOR INFORMATION (RFI's/QUESTIONS)

1. The attached **RESPONSES TO REQUEST FOR INFORMATION** is provided for your information.

Please acknowledge receipt of this **ADDENDUM NO. 2** by recording the date of its receipt in the space provided on the **PAGE P-4** of the Proposal.



BRYAN J. KIMURA
Traffic Branch Head

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1 **SECTION 623 – TRAFFIC SIGNAL SYSTEM**

2
3 Make the following amendment to said Section:

4
5 **(I) Amend Section 623.04 - Measurement** by replacing lines 578 to 579 to read:

6
7 **“623.04 Measurement.** The Engineer will not measure software for
8 controller and interconnect risers for payment.

9
10 **(A)** The Engineer will measure work to Verify Location of Existing
11 Underground Utilities and Hawaiian Electric Company service connection
12 fees on a force account basis according to Subsection 109.06 – Force
13 Account Provisions and Compensation.

14
15 **(B)** The Engineer will measure the controller assembly with software,
16 foundation for traffic signal controller, traffic signal standard, traffic signal or
17 pedestrian signal assembly, pedestrian pushbutton, pull box, loop detector
18 sensing unit, and emergency vehicle preemption optical receiver per each
19 in accordance with the contract documents.

20
21 **(C)** The Engineer will measure traffic signal duct line and cables per
22 linear foot in accordance with the contract documents.

23
24 **(D)** The Engineer will measure Traffic Signal Hardware Modification as
25 requested by Engineer on a force account basis in accordance with
26 Subsection 109.06 – Force Account Provisions and Compensation.”

27
28 **(II) Amend Section 623.05 – Payment** by replacing lines 581 to 594 to read:

29
30 **“623.05 Payment.** The Engineer will pay for investigation work to Verify
31 Location of Existing Underground Utilities; and Hawaiian Electric Company service
32 connection fees on a force account basis according to Subsection 109.06 – Force
33 Account Provisions and Compensation. An estimate amount for the force account
34 is allocated in the proposal schedule under Verify Location of Existing
35 Underground Utilities and Hawaiian Electric Company Service Connection Fees.
36 The actual amount to be paid will be the sum shown on the accepted force account
37 records whether this sum be more or less than the estimated amount allocated in
38 the proposal schedule.

39
40 The Engineer will pay for the controller assembly with software at the
41 contract unit price per each complete in place. The price includes full
42 compensation for submitting the equipment list and drawing; furnishing and
43 mounting the controller cabinet; furnishing, assembling, wiring, software, and
44 housing the controller and auxiliary equipment; painting the controller cabinet;
45 testing; providing turn-on service; submitting warranty; and furnishing equipment,
46 tools, labor, materials and other incidentals necessary to complete the work.

48 The Engineer will pay for the traffic signal standard at the contract unit price
49 per each complete in place. The price includes full compensation for submitting
50 the equipment list and drawing; furnishing and installing the traffic signal standard;
51 wiring; bonding and grounding; testing; providing turn-on service; submitting
52 warranty; and furnishing equipment, tools, labor, materials; and other incidentals
53 necessary to complete the work.

54
55 The Engineer will pay for the foundation for controller cabinet at the contract
56 unit price per each complete in place. The price includes full compensation for
57 excavating and backfilling; forming; furnishing and placing the reinforcing steel;
58 mixing, placing, and curing the concrete; furnishing and setting the anchor bolts;
59 restoring the pavement; and furnishing equipment, tools, materials and other
60 incidentals necessary to complete the work.

61
62 The Engineer will pay for traffic signal and pedestrian signal assembly at
63 the contract unit price per each complete in place. The price includes full
64 compensation for submitting the equipment list and drawing; assembling the signal
65 heads; wiring; bonding and grounding; painting the signal head mounting; testing;
66 providing turn-on service; submitting warranty; and furnishing equipment, tools,
67 labor, materials and other incidentals necessary to complete the work.

68
69 The Engineer will pay for the pedestrian pushbutton with instruction sign at
70 the contract unit price per each complete in place. The price includes full
71 compensation for submitting the equipment list and drawing; furnishing and
72 installing the pedestrian pushbutton with the instruction sign; wiring; bonding and
73 grounding; testing; providing turn-on service; submitting warranty; and furnishing
74 equipment, tools, labor, materials; and other incidentals necessary to complete the
75 work.

76
77 The Engineer will pay for the pull box at the contract unit price per each
78 complete in place. The price includes full compensation for submitting the
79 equipment list and drawing; furnishing and installing the pull box at the designated
80 locations; saw cutting; excavating and backfilling; restoration of concrete
81 sidewalks, asphalt concrete pavement and landscaping; coating the frames and
82 covers; and furnishing equipment, tools, labor, materials and other incidentals
83 necessary to complete the work.

84
85 The Engineer will pay for the loop detector sensing unit at the contract unit
86 price per each complete in place. The price includes full compensation for saw
87 cutting; cleaning and blowing the saw cut areas; furnishing and inserting the loop
88 cable; splicing in the pull box; filling the saw cut groove with epoxy sealer or hot
89 applied rubberized sealant; and furnishing equipment, tools, labor, materials and
90 other incidentals necessary to complete the work.

91
92 The Engineer will pay for the emergency vehicle preemption (EVP) optical
93 receiver at the contract unit price per each complete in place. The price includes
94 full compensation for submitting the equipment list and drawing; furnishing and

95 installing the EVP; wiring; bonding and grounding; testing; providing turn-on
96 service; submitting warranty; and furnishing equipment, tools, labor, materials; and
97 other incidentals necessary to complete the work.
98

99 The Engineer will pay for the traffic signal duct lines at the contract unit price
100 per linear foot complete in place. The price includes full compensation for saw
101 cutting; trenching; excavating and backfilling, including asphalt concrete
102 pavement, hot mix asphalt base course, aggregate base course and aggregate
103 subbase course for trench repair; concrete curb and/or gutter and concrete
104 sidewalk repair; furnishing and placing the reinforcing steel for concrete
105 encasement; mixing, placing, and curing the concrete for encasement; furnishing,
106 installing, bonding, and grounding the conduits and interconnect subducts; and
107 furnishing equipment, tools, labor, materials and other incidentals necessary to
108 complete the work.
109

110 The Engineer will pay for the traffic signal cables at the contract unit price
111 per linear foot complete in place. The price includes full compensation for
112 furnishing, installing, splicing, and taping the cable; furnishing and installing
113 interconnect fabric subducts; making the connections; providing turn-on service;
114 and furnishing equipment, tools, labor, materials and other incidentals necessary
115 to complete the work.
116

117 The Engineer will not pay for the inter-connect risers. The work includes
118 furnishing and installing the riser; and furnishing equipment, tools, labor, materials,
119 and other incidentals necessary to complete the work. The Engineer will consider
120 the cost for risers as included in the contract price for the various contract items.
121

122 The Engineer will consider full compensation for additional materials and
123 labor not shown in the contract that are necessary to complete the installation of
124 the various systems incidental to the various contract items. The Engineer will not
125 allow additional compensation.
126

127 The Engineer will pay for the following pay items when included in the
128 proposal schedule:
129

130 Pay Item	131 Pay Unit
132 Verify Location of Existing Underground Utilities	133 Force Account
134 Hawaiian Electric Company service connection fees	135 Force Account
136 Controller Assembly with Software	137 Each
138 Type _____ Traffic Signal Standard _____	139 Each
140 Foundation for _____	141 Each

142	_____ Signal Assembly _____	Each
143		
144	Pedestrian Pushbutton with Instruction Sign	Each
145		
146	_____ Type _____ Pullbox	Each
147		
148	Loop Detector Sensing Unit (6 Ft. x 6 Ft.) _____ Loops	Each
149		
150	EVP Optical Receiver with _____	Each
151		
152	Traffic Signal Ductline _____	Lin. Ft.
153		
154	EVP Cable	Lin. Ft.
155		
156	No. _____, _____ Cable	Lin. Ft.
157		
158	Traffic Signal Hardware Modification	Force Account

159

160 An estimated amount for the force account is allocated in the proposal

161 schedule under Traffic Signal Hardware Modification, which includes the removal,

162 relocation, and/or reinstallation of new or existing traffic signal hardware, such as

163 the controller, modules, sensor, etc. The actual amount to be paid will be the sum

164 shown on accepted force account records, whether this sum is more or less than

165 the estimated amount allocated in the proposal schedule.”

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END OF SECTION 623

1 **SECTION 770 – TRAFFIC SIGNAL MATERIALS**

2
3 Make the following amendments to said Section:

4
5 **(I) Amend Subsection 770.02(A) – Standard Traffic Signal Heads** by
6 revising the first paragraph from line 211 to 216 to read:

7
8 **“(b)** To ensure quality and performance, LED head shall
9 have prior history of testing and use by CALTRANS and shall
10 exceed ITE standards. Failure on one LED shall not affect
11 other LED’s. LED head shall have fully-encapsulated
12 electronic circuitry and configuration for 12-inch ball.”

13
14 **(II) Amend Subsection 770.02(A)(4) – Back Plates** from line 285 to 290 to
15 read:

16
17 **“(4) Back Plates.** Louvered back plates shall be furnished and
18 installed on mast arm mounted signal heads. Back plates shall be
19 constructed of aluminum alloy 3003-H14 sheet having minimum
20 thickness of 0.058 inch and minimum dimensions equal to signal
21 head size plus five-inch border, with a one-inch retro-reflective
22 border around the outside edge of the front surface. Back plates
23 shall be dull black in color.”

24
25 **(III) Amend Subsection 770.04 – Pedestrian Signal** from line 444 to 600 to
26 read:

27
28 **“(A) Purpose.** The purpose of this specification is to provide the minimum
29 requirements for the LED “walking person” and “hand” icon pedestrian signal
30 modules with countdown. This specification is only for the nominal overall
31 message-bearing surface of 16 x 18 in. This specification is not intended to
32 impose restrictions upon specific designs and materials that conform to the
33 purpose and the intent of this specification. This specification refers to
34 definitions and practices described in “Pedestrian Traffic Control Signal
35 Indications” published in the *Equipment and Materials Standards of the*
36 *Institute of Transportation Engineers*, (referred to in this document as
37 “PTCSI”) and in the Applicable Sections of Manual on Uniform Traffic Control
38 Devices (MUTCD) 2009 Section 4E.

39
40 **(B) Physical and Mechanical Requirements.** The modules shall fit
41 into existing pedestrian signal housings built for the PTCSI sizes stated in
42 Section 1 of the “walking person” and “hand” icon pedestrian signal
43 indication Standard without modification to the housing and shall not require
44 special tools for installation.

45
46 Installation of a retrofit replacement module into existing pedestrian
47 signal housing shall only require the removal of the existing optical unit

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components, shall be weather tight and fit securely in the housing; and shall connect directly to existing electrical wiring. The LED module shall have a visual appearance similar to that of an incandescent lamp (ie: Smooth and non-pixelated). Screwed on lenses are not allowed. Only modules with internal mask shall be utilized. No external silk-screen shall be permitted.

When not illuminated, the WALKING PERSON, UPRAISED HAND, and COUNTDOWN DIGITS shall not be readily visible. The countdown digits of the pedestrian signal module shall be located to the right of the associated UPRAISED HAND. The display of the number of remaining seconds shall begin only at the beginning of the pedestrian change interval. After the countdown displays zero, the display shall remain dark until the beginning of the next countdown. The walking person, hand icons and countdown digits shall be incandescent looking.

The units shall not have any external attachments, dip switches, toggle switches or options that will allow the mode to be changed from counting the clearance cycle, to the full walk/don't walk cycle or any other modification to the icons or digits.

For each nominal module, use the corresponding minimum H (height) and W (width) measurements:

Module Size	Icon Height	Icon Width	Countdown Height	Countdown Width	Countdown Segment Width
16x18 in	11 in	7 in	9 in	7 in	0.7 in

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All exposed components of a module shall be suitable for prolonged exposure to the environment. As a minimum, the module shall be rated for use in the ambient operating temperature range, measured at the exposed rear of the module, of -40°C to +74°C (-40°F to +165°F).

The module shall be a single, self-contained device, not requiring on-site assembly for installation into an existing pedestrian signal housing. The power supply shall be located inside the pedestrian signal module. The assembly and manufacturing process for the module shall be designed to assure all internal LED and electronic components are adequately supported to withstand mechanical shock and vibration from high winds and other sources.

The front window shall be a transparent polycarbonate material with internal masking to prevent the icons and digits from being visible when not in operation. External masking or silk-screen technology shall not be permitted.

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Each module shall be identified on the backside with the manufacturer's name, model, serial number and operating characteristics. The operating characteristics shall include the nominal operating voltage and stabilized power consumption, in watts and/or Volt-Amperes.

(C) Photometric Requirements. For a minimum period of 60 months, the maintained minimum luminance values for the modules under operating conditions, when measured normal to the plane of the icon surface, shall not be less than:

- Walking person: 2,200 cd/m²;
- Hand: 1,400 cd/m².
- Countdown digits: 1,400 cd/m²;

The luminance of the emitting surface, measured at angles from the normal of the surface, may decrease linearly to a value of 50% of the values listed above at an angle of 15 degrees. The LED module shall have a visual appearance similar to that of an incandescent lamp (i.e.: Smooth and non-pixilated).

Maximum permissible luminance: When operated within the temperature range, the actual luminance for a module shall not exceed three times the required peak value of the minimum maintained luminance. Luminance uniformity: The uniformity of the signal output across the emitting section of the module lens (i.e. the hand, person or countdown icon) shall not exceed a ratio of 5 to 1 between the maximum and minimum luminance values (cd/m²).

The standard colors for the LED Pedestrian Signal Module shall be White for the walking person and Portland Orange for the hand icon and the countdown digits.

(D) Electrical Requirements. All wiring and terminal blocks shall meet the requirements of Section 13.02 of the VTCSH Standard. Maximum of three secured, color coded, 1 meter (39 in) long 600 V, 16 AWG minimum, jacketed wires, conforming to the National Electrical Code, rated for service at +105°C, are to be provided for electrical connection. The conductors shall be color coded with orange for the hand, blue for the walking person and white as the common lead.

LED modules shall operate from a 60 ± 3 Hertz ac line power over a voltage range from 80 to 135 VAC RMS. Nominal operating voltage for all measurements shall be 120 ± 3 VAC RMS. Fluctuations in line voltage over the range of 80 to 135 VAC RMS shall not affect luminous intensity by

134 more than $\pm 10\%$. To prevent the appearance of flicker, the module circuitry
135 shall drive the LEDs at frequencies greater than 100 Hz when modulated, or
136 at DC, over the voltage range specified.
137

138 Low Voltage Turn Off: There should be no illumination of the module
139 when the applied voltage is less than 35 VAC RMS. To test for this condition,
140 each icon must first be fully illuminated at the nominal operating voltage. The
141 applied voltage shall then be reduced to the point where there is no
142 illumination. This point must be greater than 35 VAC RMS.
143

144 Turn-ON and Turn-OFF Time: A module shall reach 90% of full
145 illumination (turn-ON) within 75 msec of the application of the nominal
146 operating voltage. The signal shall cease emitting visible illumination (turn-
147 OFF) within 75 msec of the removal of the nominal operating voltage.
148

149 Default Condition: For abnormal conditions when nominal voltage is
150 applied to the unit across the two-phase wires (rather than being applied to
151 the phase wire and the neutral wire) the pedestrian signal unit shall default
152 to the hand symbol. The on-board circuitry of a module shall include voltage
153 surge protection:
154

- 155 • To withstand high-repetition noise transients and low-repetition
156 high-energy transients as specified in NEMA Standard TS-2 2003;
157 Section 2.1.8
- 158 • Section 8.2 IEC 1000-4-5 & Section 6.1.2 ANSI/IEEE C62.41.2-
159 2002, 3kV, 2 ohm
- 160 • Section 8.0 IEC 1000-4-12 & Section 6.1.1 ANSI/IEEE C62.41.2-
161 2002, 6kV, 30 ohm
162

163 The LED signal and associated on-board circuitry shall meet the
164 requirements of the Federal Communications Commission (FCC) Title 47,
165 Subpart B, Section 15 regulations concerning the emission of electronic noise
166 by Class A digital devices. The modules shall provide a power factor of 0.90
167 or greater when operated at nominal operating voltage, and 25°C (77°F).
168 Total harmonic distortion induced into an AC power line by the module,
169 operated at nominal operating voltage, and at 25°C (77°F) shall not exceed
170 20%.
171

172 The current draw shall be sufficient to ensure compatibility and proper
173 triggering and operation of load current switches and conflict monitors in
174 signal controller units. Off State Voltage Decay: When the module is
175 switched from the On state to the Off state the terminal voltage shall decay
176 to a value less than 10 VAC RMS in less than 100 milliseconds when driven
177 by a maximum allowed load switch leakage current of 10 milliamps peak (7.1
178 milliamps AC).

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(E) Module Functions. The module shall operate in one mode: *Clearance Cycle Countdown Mode Only*. The module shall start counting when the flashing don't walk turns on and will countdown to "0" and turn off when the steady "Don't Walk" signal turns on. *The module shall not have user accessible switches or controls for the purpose of modifying the cycle, icons or digits.* At power on, the module enters a single automatic learning cycle. During the automatic learning cycle, the countdown display shall remain dark. The unit shall re-program itself if it detects any increase or decrease of Pedestrian Timing. The digits shall go blank once a change is detected and then take one complete pedestrian cycle (with no counter during this cycle) to adjust its buffer timer.

The module shall allow for consecutive cycles without displaying the steady Hand icon ("Don't Walk"). The module shall recognize preemption events and temporarily modify the crossing cycle accordingly. If the controller preempts during the walking man, the countdown shall follow the controller's directions and shall adjust from walking man to flashing hand. It shall start to count down during the flashing hand. If the controller preempts during the flashing hand, the countdown shall continue to count down without interruption. The next cycle, following the preemption event, shall use the correct, initially programmed values. This specification is worded such that the flashing don't walk time is not modified.

If the controller output displays Don't Walk steady condition or if both the hand/person go dark and the unit has not arrived to zero, the unit suspends any timing and the digits shall go dark.

(F) Warranty. Manufacturers will provide the following warranty provisions. Replacement or repair of an LED signal module that fails to function as intended due to workmanship or material defects within the first 5 years (60 months) from the date of project acceptance."

(IV) Amend Subsection 770.05(A)- Controller Assembly from line 617 to 625 to read:

(1) The traffic signal controller shall be a 2070 LX on CALTRANS QPL. Each controller shall be furnished with the latest firm ware. Each controller shall be able to communicate with HDOT's traffic signal central server.

(2) Each controller assembly listed in Table 770.05-1 – Controller Assembly Requirements contains sufficient equipment for full 8-vehicle, 4-pedestrian, and 4-preemption phase intersection, even though the contract documents may not require it.

TABLE 770.05-1 – CONTROLLER ASSEMBLY REQUIREMENTS	
<u>Item</u>	<u>Quantity</u>
Model 2070 LX Controller	1
332A Aluminum Cabinet (Non-QPL)	1
Model 200 Load Switches	12
Model 204 Flasher	All
Model 242L Isolators	2
Model FS/ST Isolator	All
Flash Transfer Relays (Non-QPL)	All
Firmware	1
Model 2010ECL Conflict Monitor (Crimp and Poke Type, such as Molex Dualcon TM Straight/on Edge Dual Position Connectors, or approved equal)	1
Model 662T Time Delay Detector Amplifiers (Non-QPL)	8
Model M762 Preempt. Car (Non-QPL) with M768 Auxiliary Input Panel	2

225

226 **(V)** Amend **Subsection 770.05(B)- Model 170E Controller** by deleting lines
227 627 to 643.

228

229 **(VI)** Amend **Subsection 770.05(C)(5)- Cabinet** by deleting lines 660 to 665.

230

231 **(VII)** Amend **Subsection 770.05(D)- Auxiliary Equipment** from line 697 to 741
232 to read:

233

234 **“(1) Model M762 Optical Preemption Module with M768**
235 **Auxiliary Input Panel.** M762 shall be card-type and shall interface
236 with Model 170 cabinet preemption slots of input file. Each M762
237 Module shall have two channels of preemption. M762 shall include
238 firmware to discriminate between two valid priority signals, to
239 prioritize valid same priority signals on a first come, first served basis,
240 and to override low priority signal if high priority is received. M762
241 Module shall receive input signals (9.639 and 14.035 Hz) to permit
242 priority preemption operation within 170 local intersection program.
243 M762 shall optically isolate output signals and shall trigger active low
244 signal to controller for high priority and pulsed active low signal for
245 low priority. M768 Auxiliary Input Panel shall be used to interconnect

246 M762 with the terminals inside the traffic cabinet. The State's
247 preemption systems employ the 3M/Global Traffic Technologies
248 Opticom System. New preemption equipment shall be 3M/Global
249 Traffic Technologies Opticom or accepted equal that is fully
250 compatible with 3M/Global Traffic Technologies Opticom.

251
252 **(2) Security Tumbler for Signal Cabinet.** The signal control
253 cabinet door locks (2 locks for each cabinet) are keyed to take Best
254 Lock Series tumblers. The contractor shall furnish and install 2 lock
255 cylinders that will fit in the current locks on the signal cabinet. The
256 lock cylinders keys shall be one of a kind, licensed to DTS, and each
257 cylinder shall have 2 sets of keys with "do not duplicate" stamped on
258 each key."
259

260 **(VIII) Amend Subsection 770.06(G) – Type 7 Preemption Detector**
261 **(Opticom) Cables** from line 788 to 798 to read:

262
263 **“(G) Type 7 - Preemption Detector (Opticom) Cables.** Preemption
264 detector (Opticom) cables are specific cables that run continuously from
265 optical detectors mounted on traffic signal standards to terminal blocks for
266 M762 phase module located in controller cabinet. Each detector shall be
267 furnished with its own cable running back to controller cabinet. 3M/Global
268 Traffic Technologies' M138 Optical Detector Cable shall be furnished for
269 detector cable because it is compatible and consistent with requirements
270 for Opticom Preemption System. M138 cable shall be furnished that is
271 BerkTek Type B, shield jacket, three - insulated conductor cable, 20 AWG,
272 one - 20 AWG bare stranded ground, 600 Volts, orange-blue-yellow color
273 coded and 5/16-inch diameter.”

274
275 **(IX) Amend Subsection 770.11 – Preemption Detectors** from line 997 to
276 1009 to read:

277
278 **“(A) Description.** Preemption Detectors shall be located on traffic signal
279 standards to convert optical signals emitted from an emergency vehicle to
280 electrical pulses for emergency preemption of traffic signals. Electrical
281 signals from optical detector shall be transmitted by 4-conductor cable to
282 preemption module M762 located in input slot of controller cabinet. M762
283 preemption module shall direct and hold controller in preemption mode until
284 signal disappears. Preprogrammed selection of phases and signal displays
285 shall be controlled by Local Intersection Program. The State's preemption
286 system employ 3M/Global Traffic Technologies Opticom System. New
287 preemption equipment shall be by 3M/Global Traffic Technologies Opticom
288 or equal accepted by the Engineer, that is fully compatible with 3M/Global
289 Traffic Technologies Opticom. Astro-mini brackets or similar device for
290 attaching preemption detector to poles shall be included.”

291

292 (X) Amend **Subsection 770.11 – Preemption Detectors** from line 1012 to
293 1021 to read:

294
295 “(1) **Type 7 Cable.** Type 7 preemption detector (Opticom) cables
296 shall be specific cables that run continuously from optical detectors
297 mounted on traffic signal standards to terminal blocks for M762
298 phase module in controller cabinet. Type 7 preemption detector
299 cable shall be compatible with 3M/Global Traffic Technologies’ M138
300 Optical Detector cable and shall be consistent with requirements for
301 Opticom Preemption System. M138 cable shall be BerkTek Type B,
302 shield jacket, 3-insulated conductor, 20AWG stranded copper, 1-
303 20AWG bare stranded ground, 600 volts, orange-blue-yellow color
304 coded, and 5/16-inch diameter.”

305
306 (XI) Add **Subsection 770.12 – Pedestrian Signal Push Button With Integral**
307 **Sign** to read:

308
309 “(A) **Description.** The pedestrian push button unit shall consist of an
310 assembly that can be secured to traffic poles with standard screws, be
311 tamper proof, weatherproof, and constructed so that electrical shocks are
312 impossible to receive.

313
314 (B) **Materials.**

315
316 (1) The housing for the push button assembly shall be of cast
317 and/or machined aluminum. The push button assembly shall be
318 weatherproof with a water diverting groove set in the outside
319 diameter of the actuator button receptor. The housing shall be
320 designed to reduce vandalism and shall mount on the side or top of
321 a pole with a minimum 2-inch diameter button. The push button
322 housing shall be capable of mounting in an ‘up button’ or ‘down
323 button’ configuration. All wire connections shall be accessible from
324 the back of the assembly.

325
326 (2) An ADA acceptable raised directional sign shall be installed
327 with stainless steel fasteners to the housing. The sign shall consist
328 of a raised walking person and a raised arrow indication. Paint the
329 unit black and paint the raised walking person and arrow white. The
330 sign shall be capable of mounting in an ‘up button’ or ‘down button’
331 configuration. The raised walking person and arrows shall be
332 directional and match the indication as shown in the plans.

333
334 (3) The pushbutton shall extend from the sign faceplate
335 approximately three inches. The pushbutton actuator shall be
336 convex in design having a flat area on the face for uses of a stylus,
337 ADA acceptable, two inches in diameter, and have a tension of less

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than five pounds when pressed. The button shall be manufactured in a way that it cannot be stuck in a closed (constant call) position.

The pedestrian push button shall be a piezo electric type and be UL listed. The button shall have a stainless steel actuator and shall be mounted within the housing with stainless steel, non-corrosive, tamper proof fasteners. The unit shall operate between 12-24V DC or AC, 3 inch round mounts with 4 mounting bolts. The pedestrian button shall give an audio and visual signal each time the pedestrian button is activated.”

END OF SECTION 770

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0100	Clearing and Grubbing	200	S.Y.	\$ _____	\$ _____
201.0200	ISA Certified Arborist	F.A.	F.A.	F.A.	\$10,000.00
202.0101	Removal of Sign and Post	5	Each	\$ _____	\$ _____
202.1002	Removal of Sign	3	Each	\$ _____	\$ _____
202.2010	Removal of Asphalt Concrete Pavement	1,070	S.Y.	\$ _____	\$ _____
202.2020	Removal of P.C.C. Pavement	45	S.Y.	\$ _____	\$ _____
202.5030	Removal of Concrete Curb	275	S.Y.	\$ _____	\$ _____
202.5040	Removal of Concrete Curb and Gutter	320	L.F.	\$ _____	\$ _____
202.5050	Removal of Concrete Sidewalk and Curb Ramps	230	S.Y.	\$ _____	\$ _____
202.6060	Removal of Guardrail	380	L.F.	\$ _____	\$ _____
202.6070	Removal of Terminal Impact Attenuators	2	Each	\$ _____	\$ _____
202.6000	Removal of Traffic Signal System	L.S.	L.S.	L.S.	\$ _____
203.0100	Roadway Excavation	45	C.Y.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.0100	Installation, Maintenance, Monitoring, & Removal of BMP	L.S.	L.S.	L.S.	\$ _____
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ <u>5,000.00</u>
219.0100	Determination and Characterization of Fill Material	L.S.	L.S.	L.S.	\$ _____
219.0200	Testing for Lead Based Paint	F.A.	F.A.	F.A.	\$ <u>4,000.00</u>
301.0100	Hot Mix Asphalt Base Course	30	Ton	\$ _____	\$ _____
304.0100	Aggregate Base Course	65	C.Y.	\$ _____	\$ _____
314.0100	Controlled Low-Strength Material	10	C.Y.	\$ _____	\$ _____
401.0100	PMA Pavement, Mix No. IV (with PG 64E-22)	125	Ton	\$ _____	\$ _____
411.0100	14-inch Concrete Pavement	45	S.Y.	\$ _____	\$ _____
507.0100	Stainless Steel Pipe Railing	L.S.	L.S.	L.S.	\$ _____
509.0100	Repair Concrete Delaminations and Spalls	7	S.F.	\$ _____	\$ _____
509.0200	Reinforcing Splices	14	Pound	\$ _____	\$ _____
511.0100	Furnishing Drilled Shaft Equipment	L.S.	L.S.	L.S.	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
511.0200	Obstruction	40	Hour	\$ _____	\$ _____
511.1024	Drilled Shaft (24-inch Diameter Shaft)	50	L.F.	\$ _____	\$ _____
511.1042	Drilled Shaft (42-inch Diameter Shaft)	44	L.F.	\$ _____	\$ _____
511.2024	Unclassified Shaft Excavation (24-inch Diameter)	50	L.F.	\$ _____	\$ _____
511.2042	Unclassified Shaft Excavation (42-inch Diameter)	44	L.F.	\$ _____	\$ _____
511.5000	Coring for Integrity Testing for Acceptable Drilled Shaft	40	L.F.	\$ _____	\$ _____
604.0100	Reconstruct Catch Basin No. 1	1	Each	\$ _____	\$ _____
604.0200	Reconstruct Catch Basin No. 2	1	Each	\$ _____	\$ _____
606.0100	Guardrail Type 3 – Beam Type Guardrail MASH Compliant	300	L.F.	\$ _____	\$ _____
606.0200	Hawaii MASH Transition Section	4	Each	\$ _____	\$ _____
606.0300	Median Barrier	50	L.F.	\$ _____	\$ _____
607.0100	4 - feet, Chain Link Fence	35	L.F.	\$ _____	\$ _____
617.0100	Imported Planting Soil	15	C.Y.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.0100	Verify Location of Existing Underground Utilities	F.A.	F.A.	F.A.	\$50,000.00
623.0200	Hawaiian Electric Company Service Connection Fees	F.A.	F.A.	F.A.	\$10,000.00
623.0100	Controller Assembly with Software	1	Each	\$ _____	\$ _____
623.0200	Type I Traffic Signal Standard, H = 10 Feet	5	Each	\$ _____	\$ _____
623.0301	Type II Traffic Signal Standard with 27-Foot Mast Arm mounted above Median Barrier	1	Each	\$ _____	\$ _____
623.0302	Type II Traffic Signal Standard with 28-Foot Mast Arm	1	Each	\$ _____	\$ _____
623.0303	Type II Traffic Signal Standard with 36-Foot Mast Arm mounted above Median Barrier	2	Each	\$ _____	\$ _____
623.0304	Type II Traffic Signal Standard with 37-Foot Mast Arm	1	Each	\$ _____	\$ _____
623.0400	Foundation for Controller Cabinet	1	Each	\$ _____	\$ _____
623.0501	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Type VI Mounting with Retroreflective Backplate)	10	Each	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.0502	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Programmable Visibility, Type VI Mounting with Retroreflective Backplate)	2	Each	\$ _____	\$ _____
623.0503	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Type IV Mounting)	3	Each	\$ _____	\$ _____
623.0504	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Programmable Visibility, Type IV Mounting)	1	Each	\$ _____	\$ _____
623.0505	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Type III Mounting)	2	Each	\$ _____	\$ _____
623.0506	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Programmable Visibility, Type III Mounting)	1	Each	\$ _____	\$ _____
623.0507	Traffic Signal Assembly (1-Way, 12-inch, 1-3 Section Vertical, Type I Mounting)	3	Each	\$ _____	\$ _____
623.0508	Pedestrian Signal Assembly (1-Way, 12-inch, One Vertical with Type IV Mounting)	8	Each	\$ _____	\$ _____
623.0601	Pedestrian Push Button with Instruction Sign	8	Each	\$ _____	\$ _____
623.0701	Type A Pull Box	11	Each	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.0702	Type B Pull Box	4	Each	\$ _____	\$ _____
623.0703	Special Type C Pull Box	8	Each	\$ _____	\$ _____
623.0801	Loop Detector Sensing Unit (6 FT x 6 FT) One Loop	6	Each	\$ _____	\$ _____
623.0802	Loop Detector Sensing Unit (6 FT x 6 FT) Two Loops	12	Each	\$ _____	\$ _____
623.0803	Loop Detector Sensing Unit (6 FT x 6 FT) Four Loops	6	Each	\$ _____	\$ _____
623.0804	Loop Detector Sensing Unit (6 FT x 6 FT) Six Loops	4	Each	\$ _____	\$ _____
623.0901	EVP Optical Receiver with Mast Arm Mounting	4	Each	\$ _____	\$ _____
623.1001	Traffic Signal Duct Line, One 2-inch Conduit, Schedule 40 PVC, Concrete Encased	160	L.F.	\$ _____	\$ _____
623.1002	Traffic Signal Duct Line, Two 2-inch Conduit, Schedule 40 PVC, Concrete Encased	110	L.F.	\$ _____	\$ _____
623.1003	Traffic Signal Duct Line, Two 2-inch Conduits, Schedule 40 PVC, Reinforced Concrete Encased	75	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.1004	Traffic Signal Duct Line, Four 2-inch Conduits, Schedule 40 PVC, Concrete Encased	630	L.F.	\$ _____	\$ _____
623.1005	Traffic Signal Duct Line, Four 2-inch Conduits, Schedule 40 PVC, Reinforced Concrete Encased	125	L.F.	\$ _____	\$ _____
623.1006	Traffic Signal Ductline, Five 2-inch Conduits, Schedule 40 PVC, Concrete Encased	20	L.F.	\$ _____	\$ _____
623.1007	Traffic Signal Ductline, Seven 2-inch Conduits, Schedule 40 PVC, Concrete Encased	10	L.F.	\$ _____	\$ _____
623.1101	EVP Cable	1,400	L.F.	\$ _____	\$ _____
623.1102	No. 14, 2-Conductor Loop Detector Lead-in Cable	3,900	L.F.	\$ _____	\$ _____
623.1103	No. 14, 4-Conductor Signal Drop Cable	1,400	L.F.	\$ _____	\$ _____
623.1104	No. 14, 26-Conductor Traffic Control Cable	1,100	L.F.	\$ _____	\$ _____
623.1105	No. 6, 3-Conductor Power Cable	30	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.9010	Traffic Signal Hardware Modification	F.A.	F.A.	F.A.	\$ <u>75,000.00</u>
624.0100	Water Meter Relocation	L.S.	L.S.	L.S.	\$ _____
625.0100	Concrete Jacket	11	L.F.	\$ _____	\$ _____
626.0100	Adjusting Sewer Manhole Frame and Cover	1	Each	\$ _____	\$ _____
629.0101	Removal of Pavement Markings for Detour Lanes	4,700	L.F.	\$ _____	\$ _____
629.0102	Removal of Pavement Markers for Detour Lanes	200	Each	\$ _____	\$ _____
629.0103	Removal of HOV Lane Marking for Detour Lanes	2	Each	\$ _____	\$ _____
629.0104	Removal of Pavement Word for Detour Lanes	2	Each	\$ _____	\$ _____
629.0105	Removal of Pavement Arrow for Detour Lanes	5	Each	\$ _____	\$ _____
629.0201	4-Inch Profiled Pavement Striping for Detour Lanes (Thermoplastic Extrusion), White	2,000	L.F.	\$ _____	\$ _____
629.0202	4-Inch Pavement Striping for Detour Lanes (Tape, Type I or Thermoplastic Extrusion), White	450	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0203	4-Inch Pavement Striping for Detour Lanes (Tape, Type I or Thermoplastic Extrusion), Yellow	1,450	L.F.	\$ _____	\$ _____
629.0204	4-Inch Pavement Striping for Detour Lanes (Tape, Type I or Thermoplastic Extrusion), Double Yellow	700	L.F.	\$ _____	\$ _____
629.0205	8-Inch Pavement Striping for Detour Lanes (Tape, Type I or Thermoplastic Extrusion) White	600	L.F.	\$ _____	\$ _____
629.0206	HOV Lane Marking for Detour Lanes (Tape, Type III or Thermoplastic Extrusion)	2	Each	\$ _____	\$ _____
629.0207	Pavement Words for Detour Lanes (Thermoplastic Extrusion)	2	Each	\$ _____	\$ _____
629.0208	Pavement Arrows for Detour Lanes (Tape, Type III or Thermoplastic Extrusion)	5	Each	\$ _____	\$ _____
629.0209	Type C Pavement Marker for Detour Lanes	110	Each	\$ _____	\$ _____
629.0210	Type D Pavement Marker for Detour Lanes	40	Each	\$ _____	\$ _____
629.0220	Type H Pavement Marker for Detour Lanes	40	Each	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0301	4-Inch Profiled Pavement Striping (Thermoplastic Extrusion), White	2,200	L.F.	\$ _____	\$ _____
629.0302	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion), White	1,000	L.F.	\$ _____	\$ _____
629.0303	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion), Yellow	1,700	L.F.	\$ _____	\$ _____
629.0304	4-Inch Pavement Striping (Thermoplastic Extrusion), Double Yellow	800	L.F.	\$ _____	\$ _____
629.0305	8-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion) White	760	L.F.	\$ _____	\$ _____
629.0306	12-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion) White or Yellow	170	L.F.	\$ _____	\$ _____
629.0307	Crosswalk Marking (Thermoplastic Extrusion)	13	Lane	\$ _____	\$ _____
629.0308	HOV Lane Marking (Tape, Type III or Thermoplastic Extrusion)	2	Each	\$ _____	\$ _____
629.0309	Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)	12	Each	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0310	Pavement Word (Thermoplastic Extrusion)	4	Each	\$ _____	\$ _____
629.0401	Type C Pavement Marker	110	Each	\$ _____	\$ _____
629.0402	Type D Pavement Marker	50	Each	\$ _____	\$ _____
629.0403	Type H Pavement Marker	50	Each	\$ _____	\$ _____
629.0404	Type F Pavement Marker	3	Each	\$ _____	\$ _____
630.0100	Street Name Sign	2	Each	\$ _____	\$ _____
630.0200	Street Name Sign on Traffic Signal Mast Arm	4	Each	\$ _____	\$ _____
631.0100	Regulatory Sign (10 Square Feet or Less)	6	Each	\$ _____	\$ _____
631.0200	Warning Sign (10 Square Feet or Less)	3	Each	\$ _____	\$ _____
632.0100	Type II Object Marker	10	Each	\$ _____	\$ _____
634.0100	Portland Cement Concrete Sidewalk	250	S.Y.	\$ _____	\$ _____
638.0100	Curb, Type 2A	260	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
638.0200	Curb, Type 2D	15	L.F.	\$ _____	\$ _____
638.0300	Curb and Gutter, Type 2DG	310	L.F.	\$ _____	\$ _____
641.0100	Hydro-Mulch Seeding (150 S.Y.)	L.S.	L.S.	L.S.	\$ _____
644.0100	Repair of Existing Sprinkler Systems	F.A.	F.A.	F.A.	\$ <u>25,000.00</u>
645.0100	Traffic Control	L.S.	L.S.	L.S.	\$ _____
645.2000	Additional Police Officers and/or Additional Control Device and Advertisement	F.A.	F.A.	F.A.	\$ <u>50,000.00</u>
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ _____
650.0100	Curb Ramp, Type A	6	Each	\$ _____	\$ _____
650.0200	Curb Ramp, Type C	1	Each	\$ _____	\$ _____
650.0300	Detectable Warning Mat	8	Each	\$ _____	\$ _____
671.0100	Protection of Endangered Species	F.A.	F.A.	F.A.	\$ <u>10,000.00</u>

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
680.0100	Coordinate with HECO to Extend the Overhead Service to Underground to the New Meter Location, Complete	1	Each	\$ _____	\$ _____
680.0200	Provide New HECO 2-feet x 4-feet Handhole, Complete	1	Each	\$ _____	\$ _____
680.0300	Provide New 10"W x 12"H x 6"D Splice Can, Complete	1	Each	\$ _____	\$ _____
680.0400	Provide New Combination Meter/Main Meter Socket, Complete	1	Each	\$ _____	\$ _____
680.0500	Provide New Meter Pedestal, Complete	1	Each	\$ _____	\$ _____
680.0600	Provide Conduit, Conductors, Trench Excavation, Trench Backfill, and Concrete Encasement, Complete	100	L.F.	\$ _____	\$ _____
693.0100	HDOT Approved Terminal Impact Attenuator – MASH Compliant, TL-3	2	Each	\$ _____	\$ _____
696.0100	Maintenance of Trailers	F.A.	F.A.	F.A.	\$30,000.00
699.0100	Mobilization (Not to Exceed 6 Percent of the Sum of All Items Excluding the Bid Price of this Item)	L.S.	L.S.	L.S.	\$ _____

PROPOSAL SCHEDULE

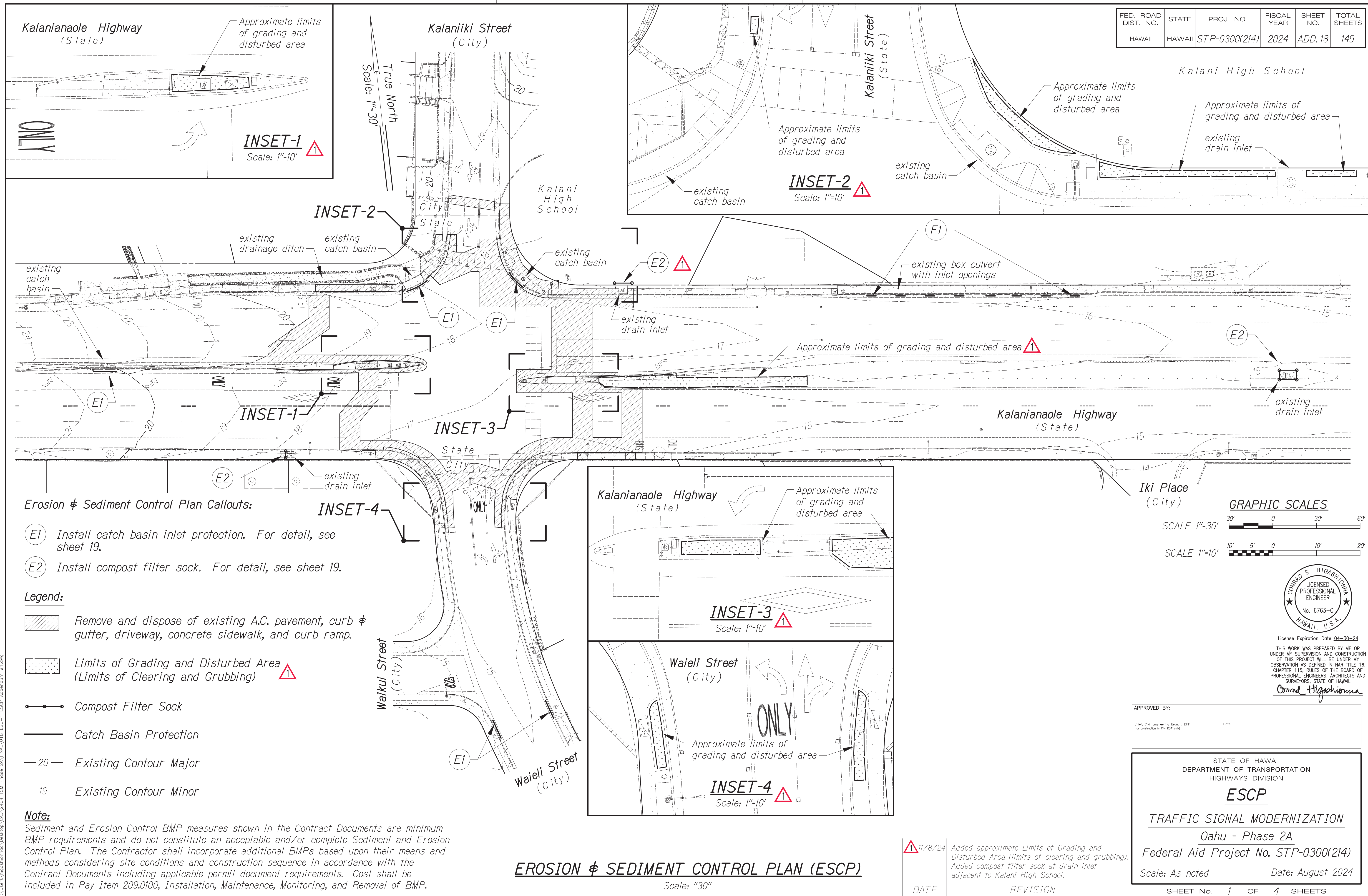
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
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Sum of All Items \$ _____

NOTES:

1. Bids shall include all Federal, State, County and other applicable taxes and fees.
2. The TOTAL AMOUNT FOR COMPARISON OF BIDS shall be used to determine the lowest responsible bidder.
3. Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.
4. If a discrepancy occurs between unit bid price and the bid price, the unit bid price shall govern.
5. **Bidders shall submit and upload the complete proposal to HlePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Any additional support documents explicitly designated as confidential and/or proprietary shall be uploaded as a separate file to HlePRO. Bidders shall not include confidential and/or proprietary documents with the proposal. The record of each bidder and respective bid shall be open to public inspection. Original (wet ink, hard copy) proposal documents are not required to be submitted. Contract award shall be based on evaluation of proposals submitted and uploaded to HlePRO. FAILURE TO UPLOAD THE COMPLETE PROPOSAL TO HlePRO SHALL BE GROUNDS FOR REJECTION OF THE BID.**
 If there is a conflict between the specification document and the HlePRO solicitation, the specifications shall govern and control, unless otherwise specified.

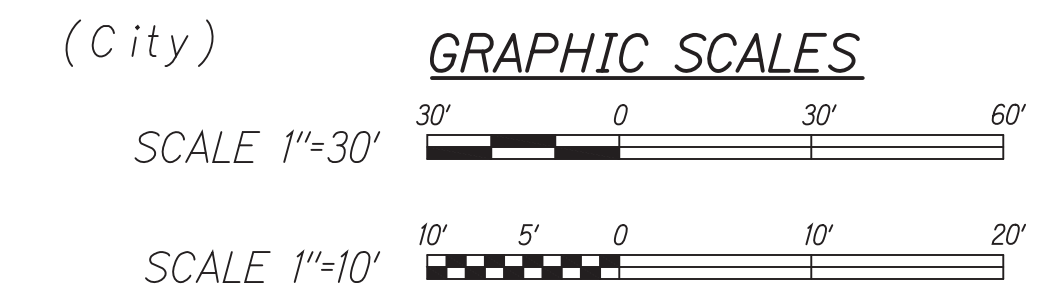
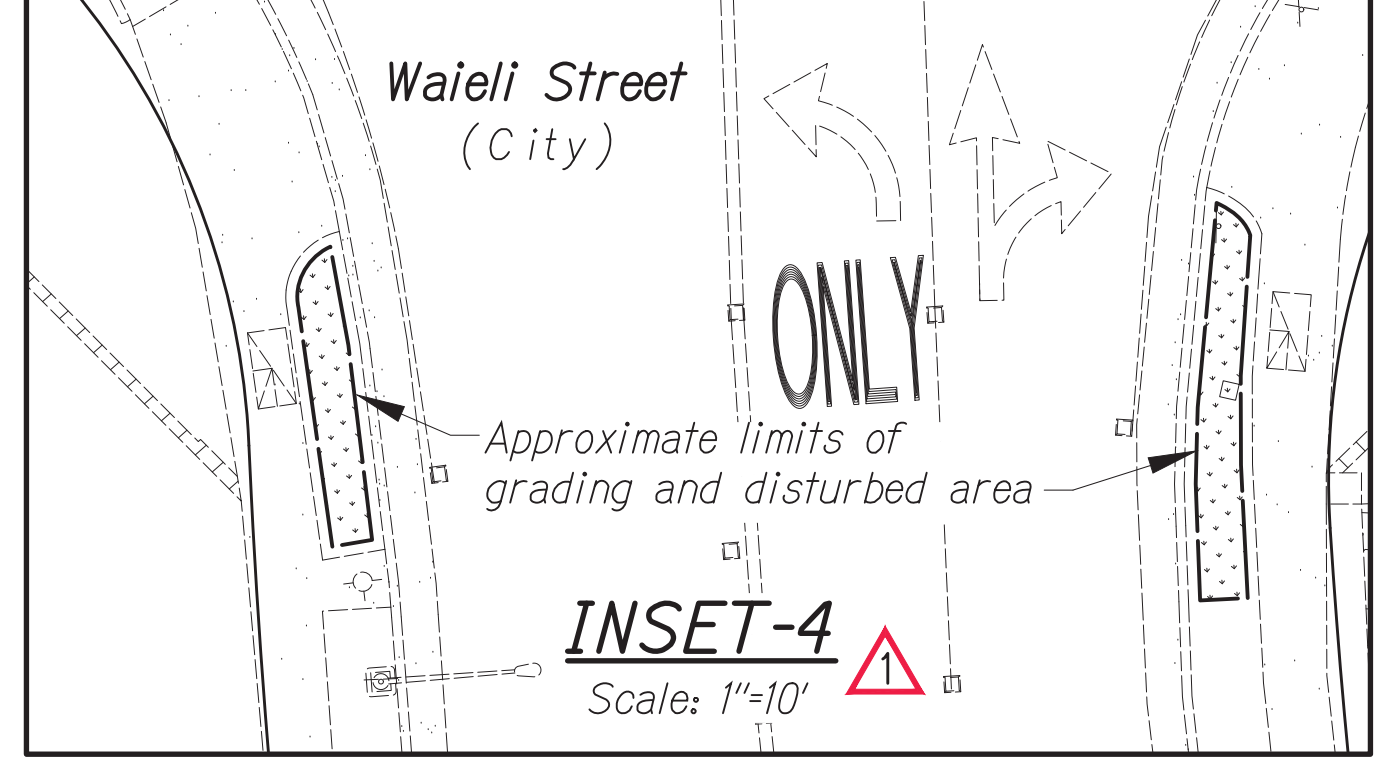
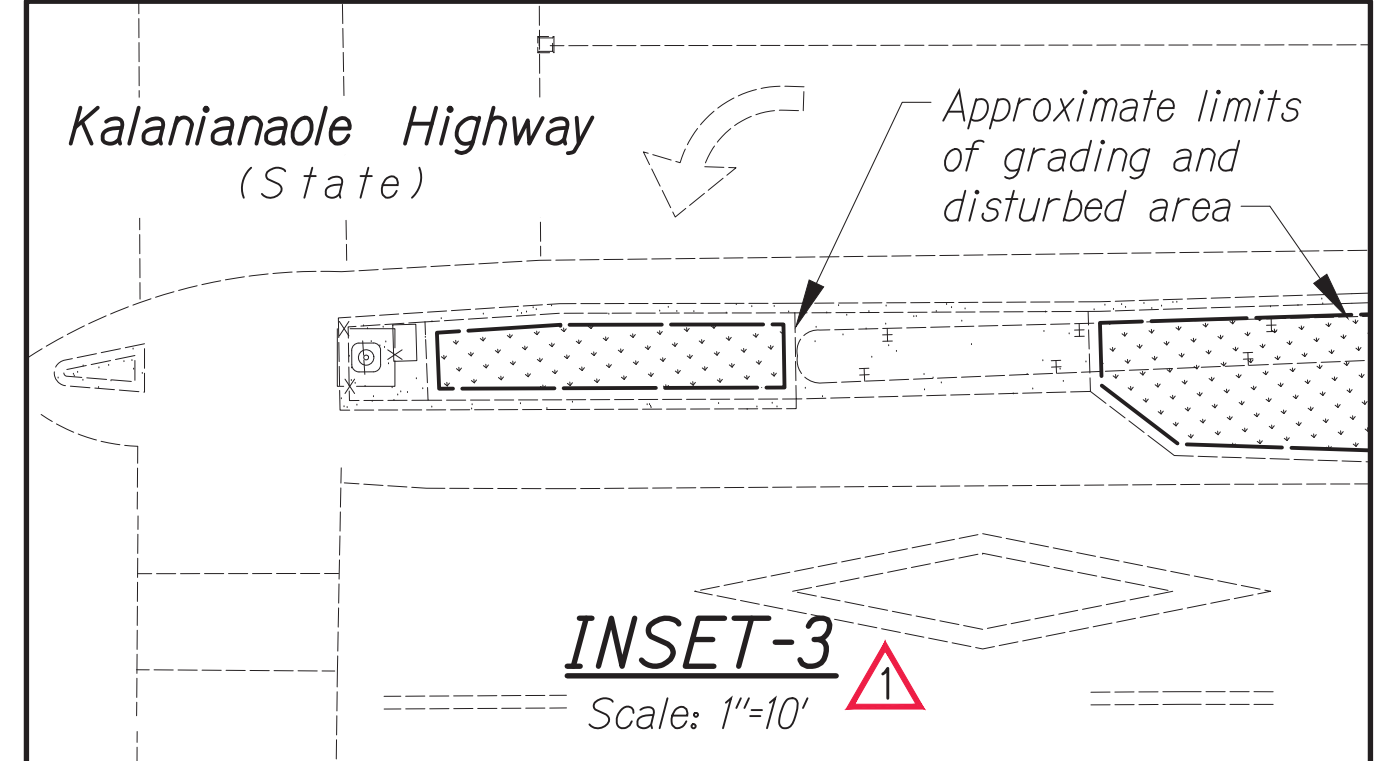
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0300(214)	2024	ADD. 18	149



- Erosion & Sediment Control Plan Callouts:**
- (E1) Install catch basin inlet protection. For detail, see sheet 19.
 - (E2) Install compost filter sock. For detail, see sheet 19.

- Legend:**
- Remove and dispose of existing A.C. pavement, curb & gutter, driveway, concrete sidewalk, and curb ramp.
 - Limits of Grading and Disturbed Area (Limits of Clearing and Grubbing)
 - Compost Filter Sock
 - Catch Basin Protection
 - Existing Contour Major
 - Existing Contour Minor

Note:
Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based upon their means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP.



CONRAD S. HIGASHIOWA
LICENSED PROFESSIONAL ENGINEER
No. 6763-C
HAWAII, U.S.A.
License Expiration Date 04-30-24

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN H.A.R. TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.

Conrad Higashiomma

APPROVED BY: _____ Date: _____
Chief, Civil Engineering Branch, EPP
(for construction in City ROW only)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ESCP
TRAFFIC SIGNAL MODERNIZATION
Oahu - Phase 2A
Federal Aid Project No. STP-0300(214)
Scale: As noted Date: August 2024

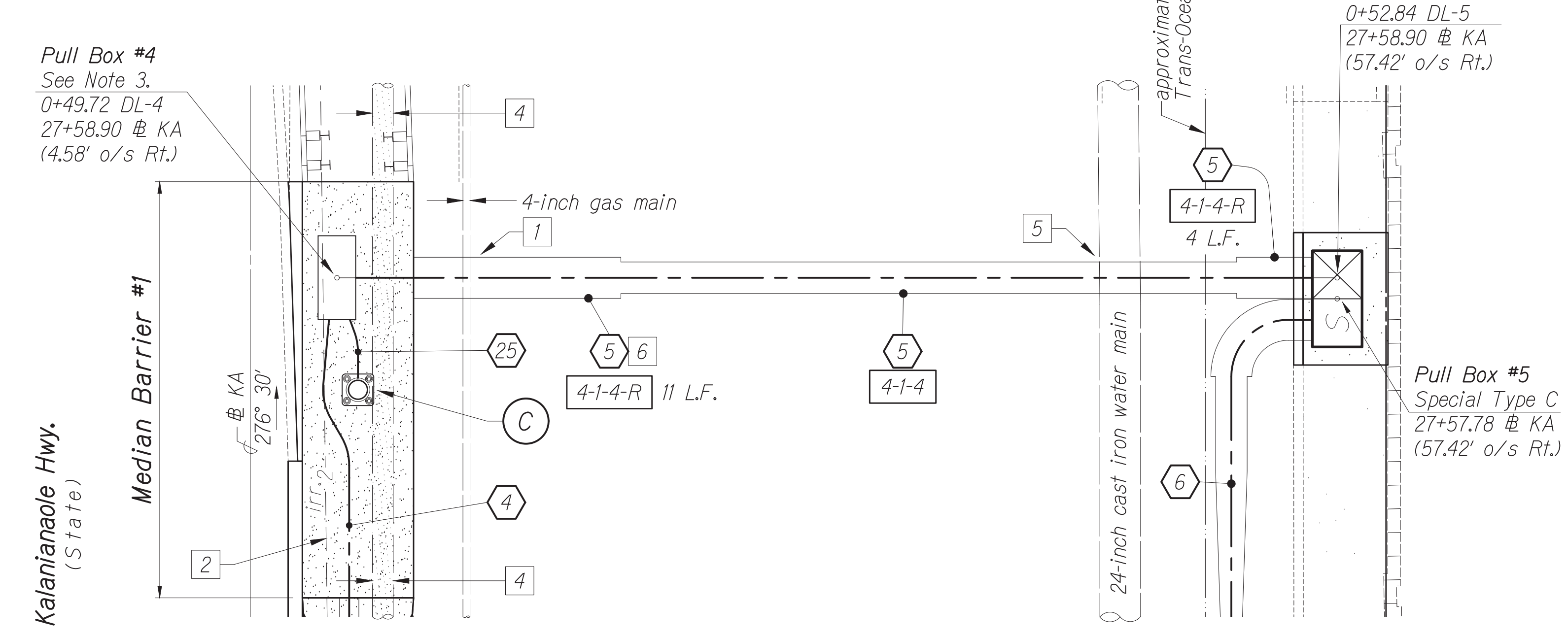
SHEET No. 1 OF 4 SHEETS

EROSION & SEDIMENT CONTROL PLAN (ESCP)
Scale: "30"

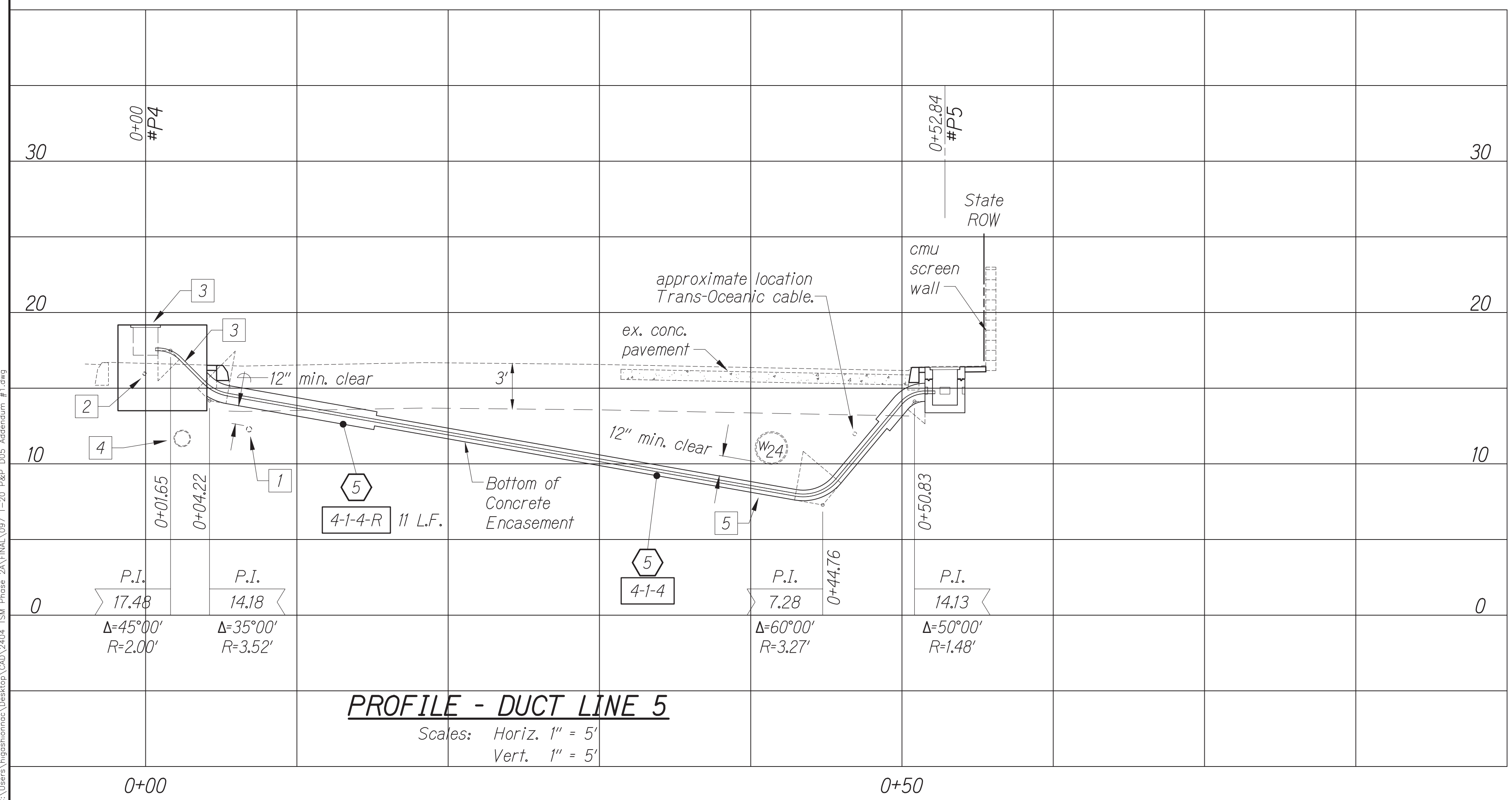
DATE	REVISION
11/8/24	Added approximate Limits of Grading and Disturbed Area (limits of clearing and grubbing). Added compost filter sock at drain inlet adjacent to Kalani High School.

DATE	REVISION
Nov 08, 2024-4:15pm	Original Plan
	Survey Plotted by
	Traced by
	Designed by
	Quantity by
	Checked by
	Note Book No.

True North
Scale: 1"=5'



PLAN - DUCT LINE 5
Scale: 1" = 5'



PROFILE - DUCT LINE 5
Scales: Horiz. 1" = 5'
Vert. 1" = 5'

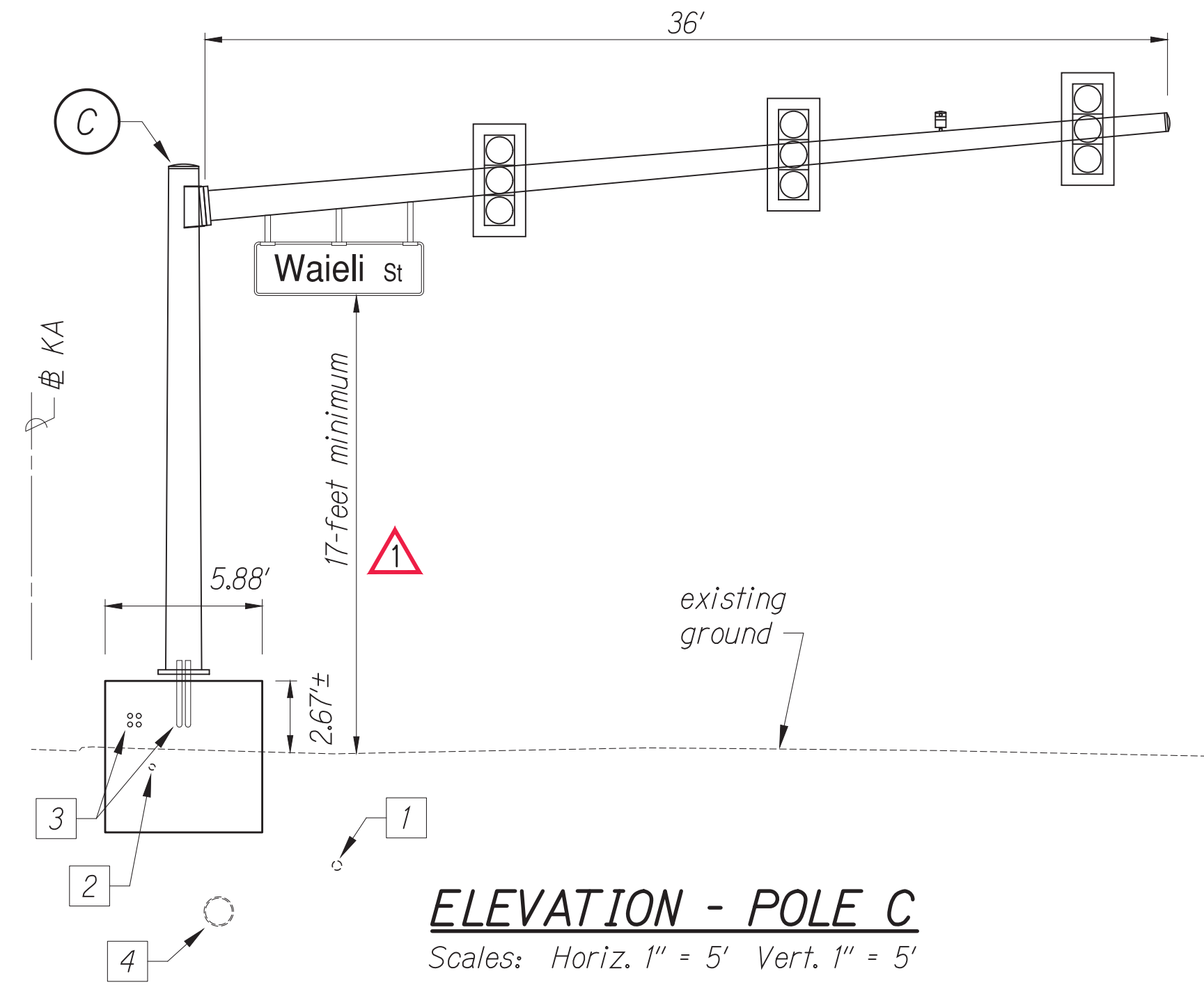
GRAPHIC SCALES



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0300(214)	2024	ADD.97	149

Notes:

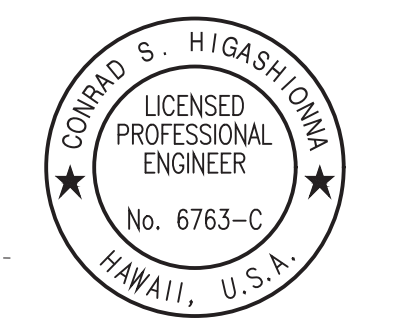
- The Contractor shall be extremely careful when working near the gas pipeline. See GAS notes.
- Approximate location of existing irrigation main. The Contractor shall relocate and repair existing irrigation system, as needed, to facilitate construction. This work shall be paid for via force account under Proposal Item No. 644.0100 - Repair of Existing Sprinkler Systems.
- The following work shall be incidental to Proposal Item No. 606.0300 - Median Barrier:
 - Furnishing and installing traffic signal conduits within Median Barrier #1.
 - Constructing Pull Box #4 within Median Barrier #1 including furnishing and installing Polymer Concrete Covers per Standard Plan TE-37.
- Prior to construction of traffic signal duct lines, foundation for Pole B, crash attenuator, and Median Barrier #1, the Contractor shall verify location of existing fiber optic cable within 12-inch cast iron pipe. The Contractor shall inform the Engineer of any conflicts with new improvements. This work shall be paid for via force account under Proposal Item No. 623.0100 - Verify Location of Existing Underground Utilities.
- The Contractor shall construct the new traffic signal duct line crossing the existing cast iron water main in compliance with Water Notes #32 and #33. The Contractor shall pay for all costs to comply with Water Notes #32 and #33.
- The Contractor shall install Curb, Type "2D" to fit over reinforced concrete encasement traffic signal ducts. For details, see sheet 62.



ELEVATION - POLE C
Scales: Horiz. 1" = 5' Vert. 1" = 5'

DATE	BY

Nov. 08, 2024 - 4:15pm
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Conrad Higashimura

APPROVED BY:	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
TRAFFIC SIGNAL MODERNIZATION
Oahu - Phase 2A
Federal Aid Project No. STP-0300(214)

Scale: As noted Date: August 2024

SHEET No. 20 OF 37 SHEETS



11/8/24

Revised call out to 17-foot minimum clearance (in lieu of 15-foot) from bottom of street name sign on mast arm to top of pavement of travel lane.

DATE	REVISION

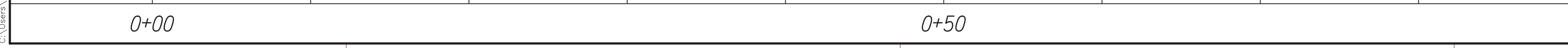
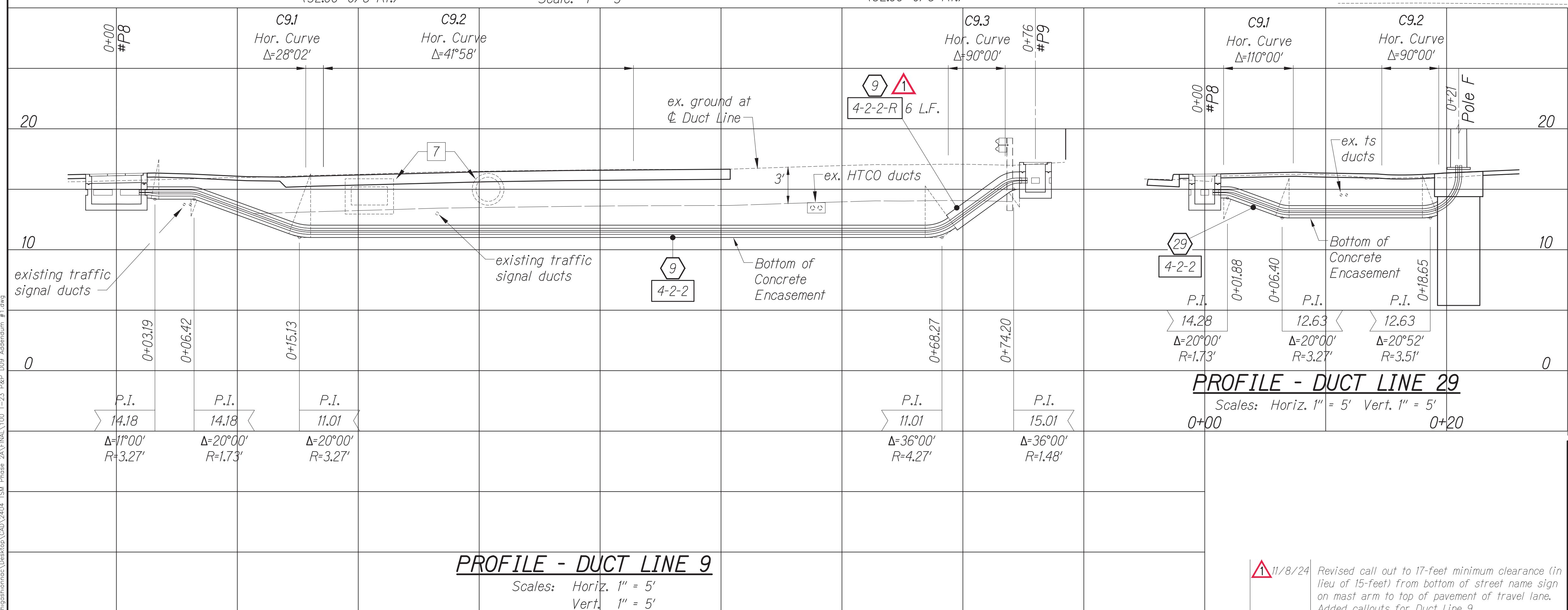
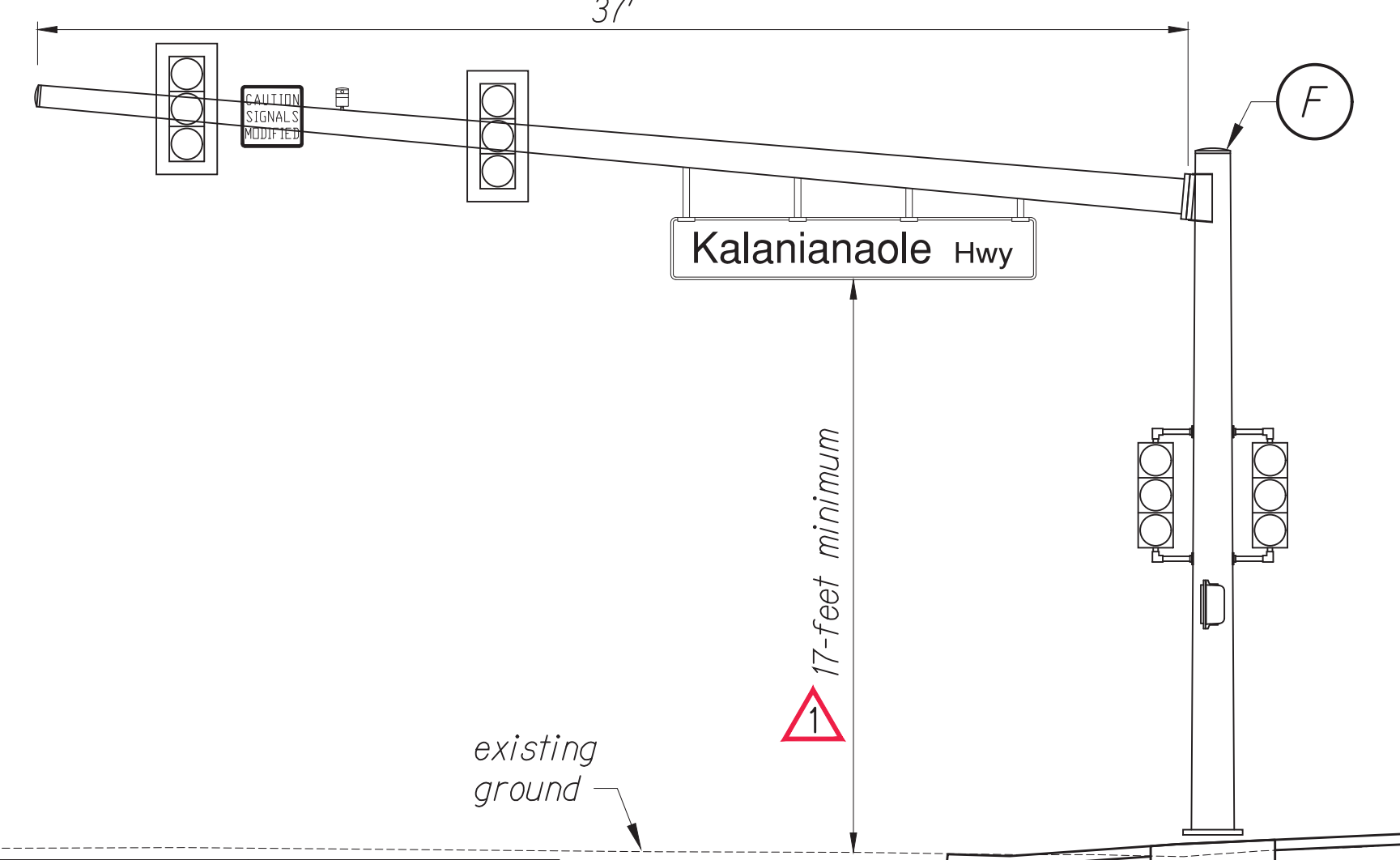
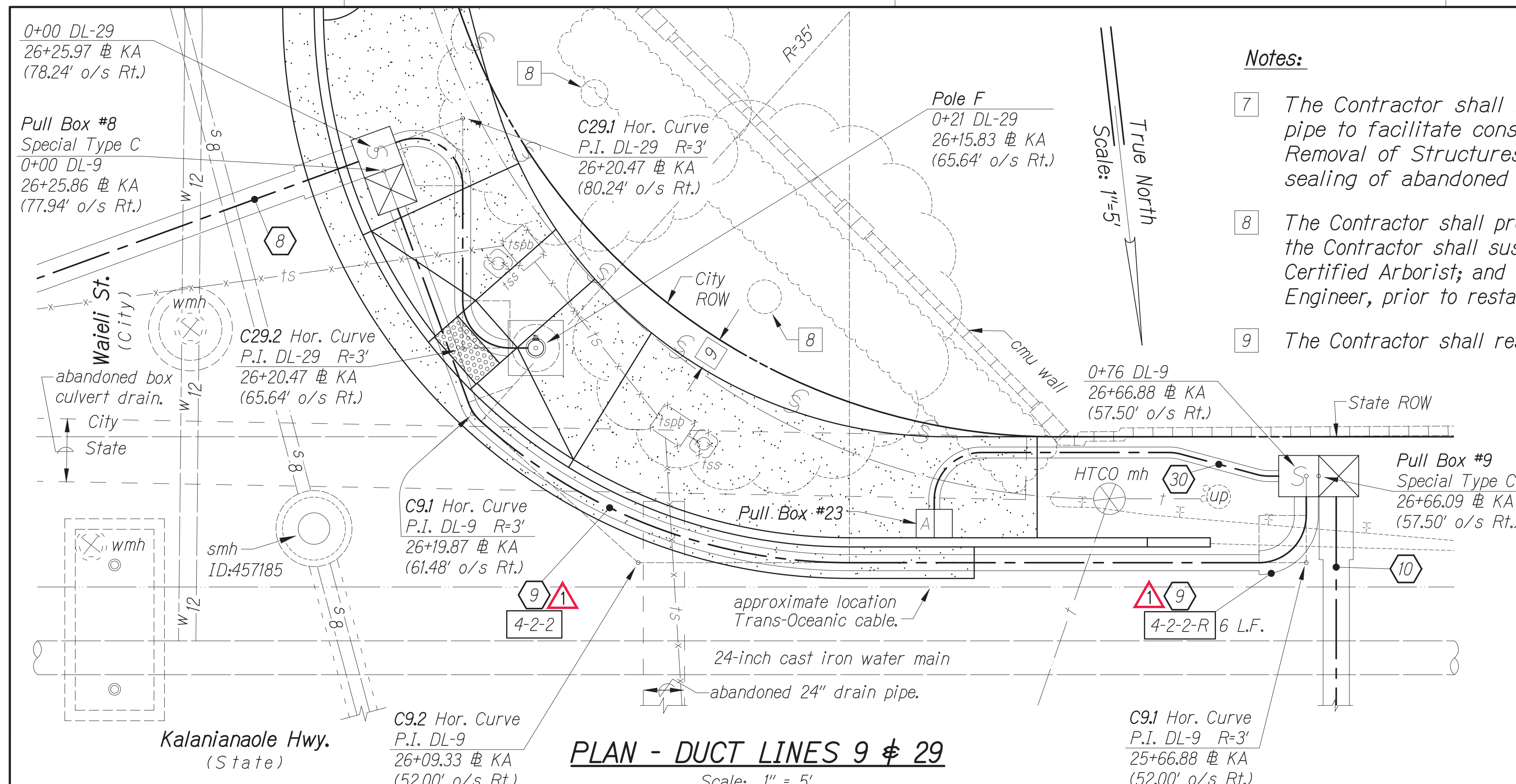
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0300(214)	2024	ADD.100	149

GRAPHIC SCALES



Notes:

- 7 The Contractor shall remove a portion of the existing abandoned box culvert and abandoned 24-inch drain pipe to facilitate construction. The Contractor shall seal the abandoned box culvert/pipe per Section 202 - Removal of Structures and Obstructions. The Contractor shall inform the Engineer prior to removal and sealing of abandoned box culvert/pipe.
- 8 The Contractor shall protect tree from damage. In the event tree roots are uncovered during construction operations, the Contractor shall suspend work affecting the roots; obtain recommendations to minimize tree damage from an ISA Certified Arborist; and submit recommendations to the Engineer for review. The Contractor shall receive approval from Engineer, prior to restarting construction work affecting tree roots.
- 9 The Contractor shall restore landscaping and irrigation system affected by construction to equal or better condition.



CONRAD S. HIGASHIYAMA
LICENSED PROFESSIONAL ENGINEER
No. 6763-C
HAWAII, U.S.A.
License Expiration Date 04-30-26

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Conrad Higashiyama

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
TRAFFIC SIGNAL MODERNIZATION
Oahu - Phase 2A
Federal Aid Project No. STP-0300(214)

Scale: As noted Date: August 2024

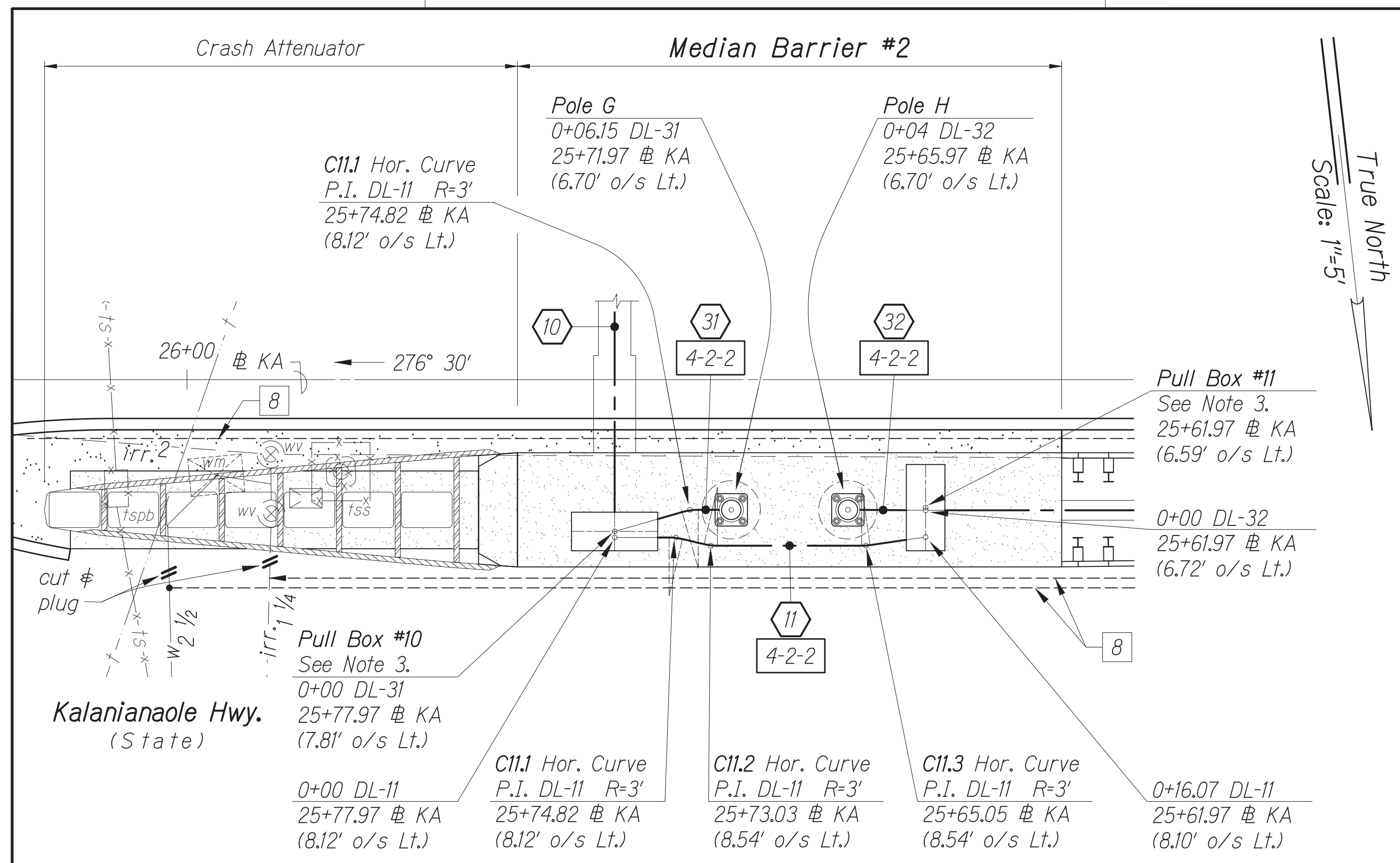
SHEET No. 23 OF 37 SHEETS

DATE	REVISION
11/8/24	Revised call out to 17-foot minimum clearance (in lieu of 15-foot) from bottom of street name sign on mast arm to top of pavement of travel lane. Added callouts for Duct Line 9.

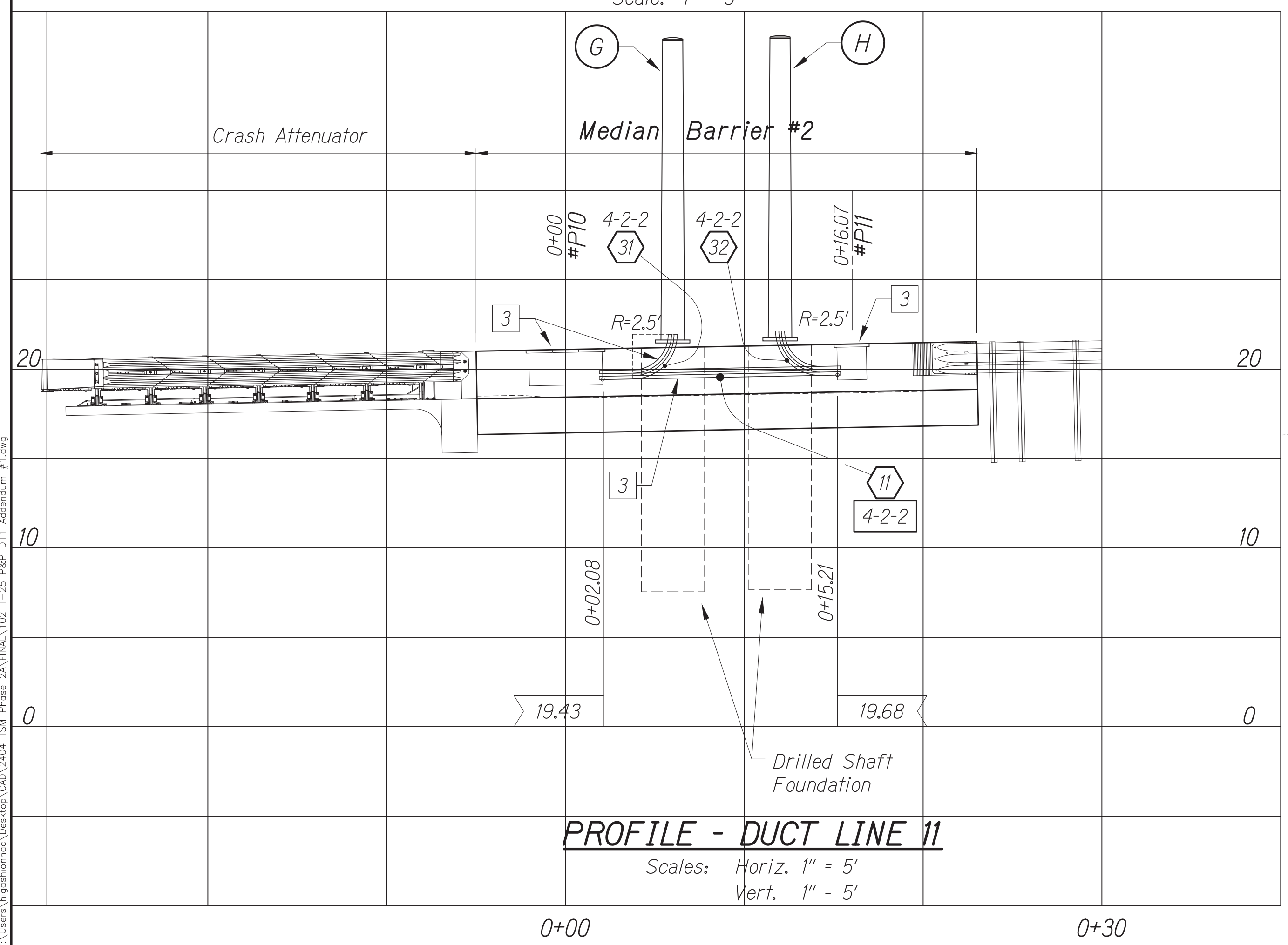
DATE	BY

Nov. 08, 2024 - 4:17 PM
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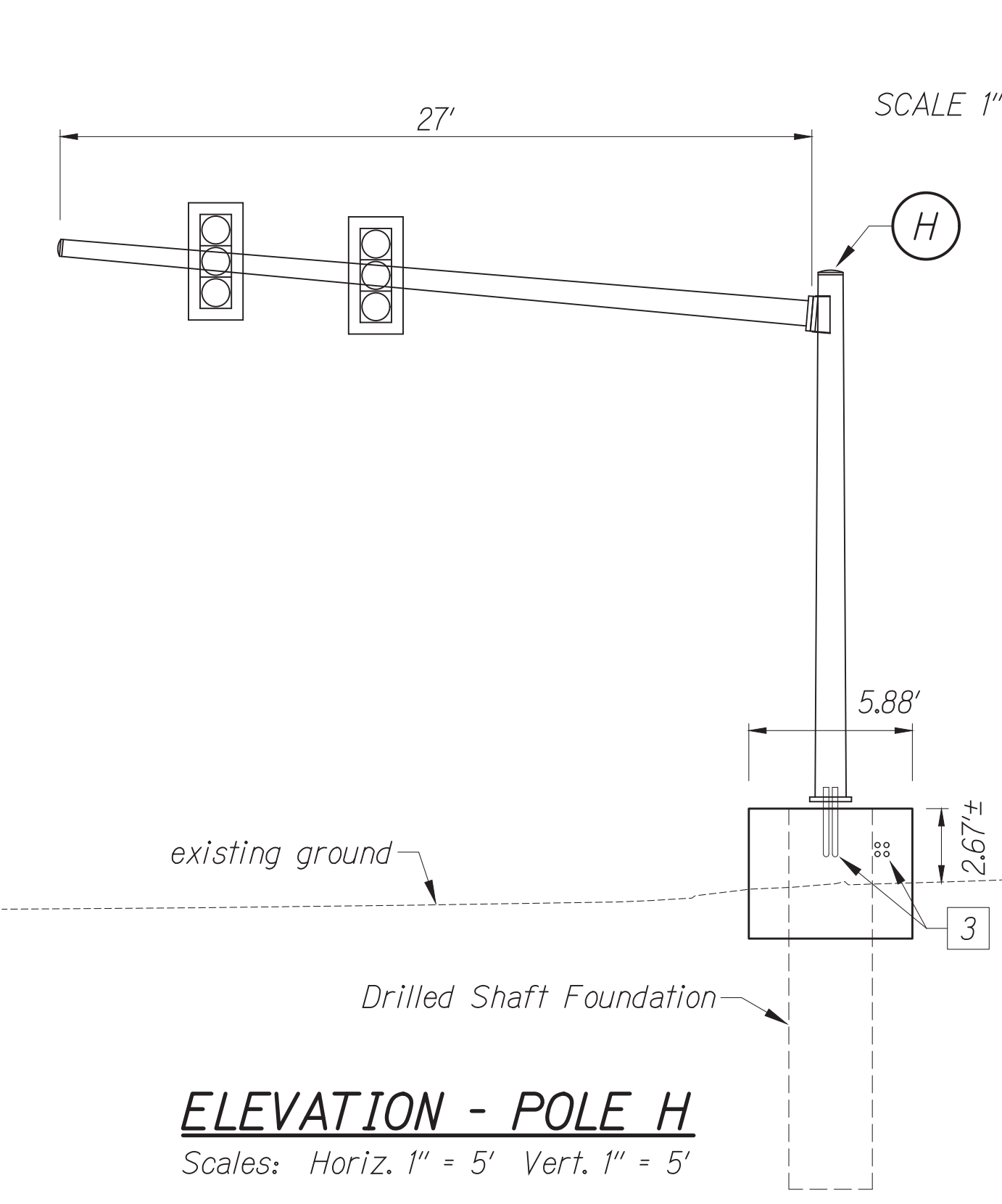
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0300(214)	2024	ADD.102	149



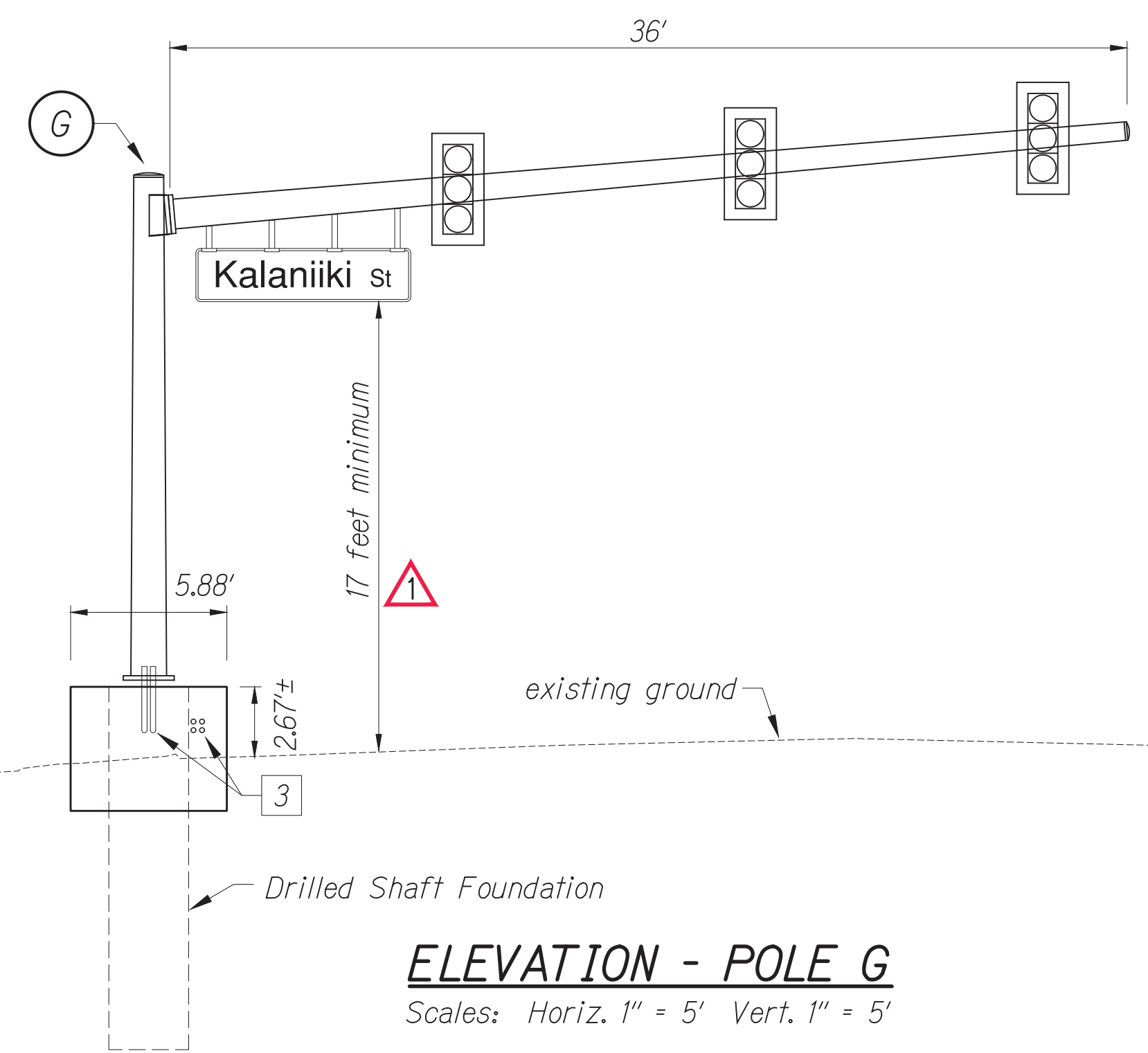
PLAN - DUCT LINES 11 & 31 & 32
Scale: 1" = 5'



PROFILE - DUCT LINE 11
Scales: Horiz. 1" = 5'
Vert. 1" = 5'



ELEVATION - POLE H
Scales: Horiz. 1" = 5' Vert. 1" = 5'



ELEVATION - POLE G
Scales: Horiz. 1" = 5' Vert. 1" = 5'

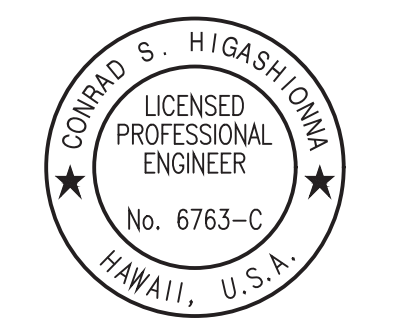


Notes:

- 3 The following work shall be incidental to Proposal Item No. 606.0300 - Median Barrier:
 - a. Furnishing and installing traffic signal conduits within Median Barrier #2.
 - b. Constructing Pull Boxes #10 and #11 within Median Barrier #2 including furnishing and installing Polymer Concrete Covers per Standard Plan TE-37. For pull box dimensions, see sheet 96.
- 8 Relocated water lateral/irrigation main, see Water Meter Relocation plan on sheet 52. The Contractor shall relocate existing irrigation system, as needed, to facilitate construction. This work shall be paid for under Proposal Item No. 634.0100 - Water Meter Relocation.

DATE	BY

Nov 08, 2024-4:18pm
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Conrad Higashidw

APPROVED BY:	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
TRAFFIC SIGNAL MODERNIZATION
Oahu - Phase 2A
Federal Aid Project No. STP-0300(214)

Scale: As noted Date: August 2024

SHEET No. 25 OF 37 SHEETS



11/8/24
DATE

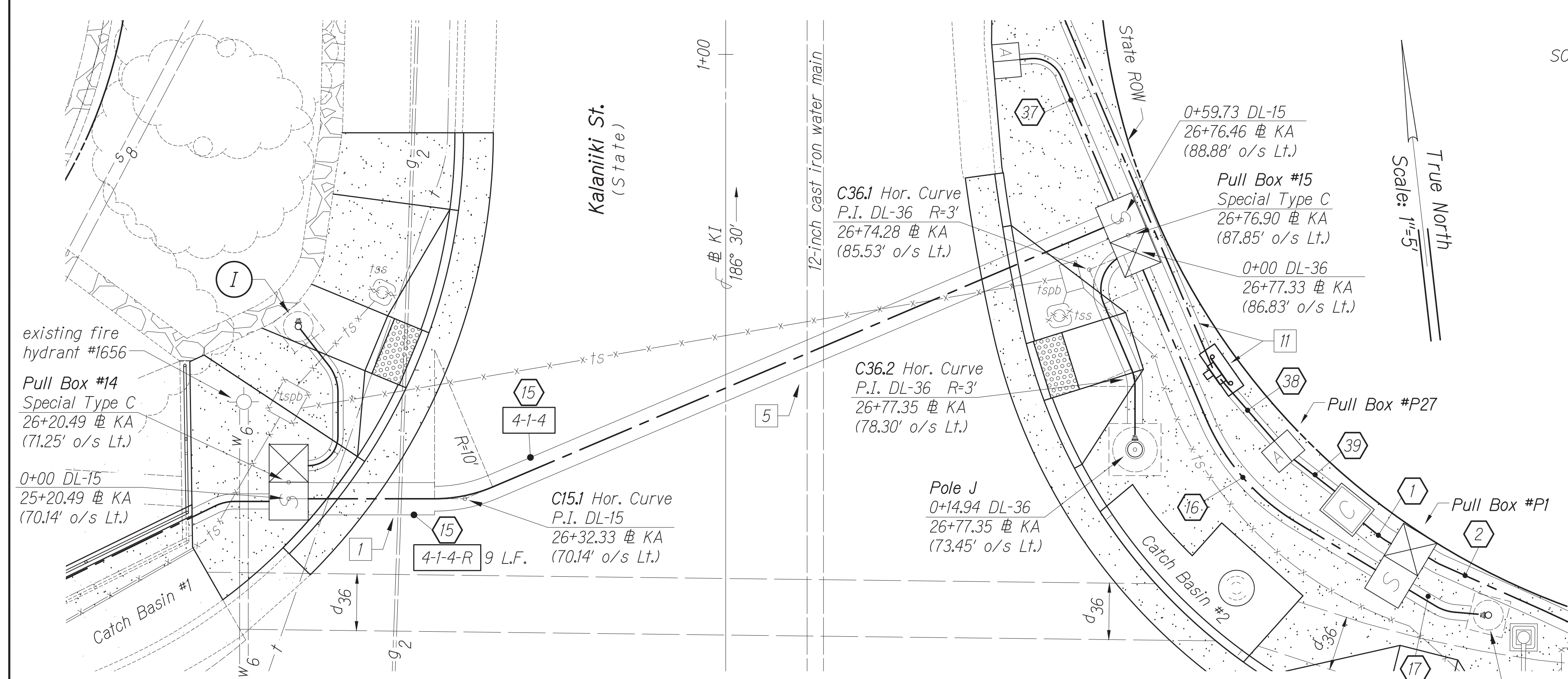
REVISION	DATE
Revised call out to 17-foot minimum clearance (in lieu of 15-foot) from bottom of street name sign on mast arm to top of pavement of travel lane.	11/8/24

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	STP-0300(214)	2024	ADD.106	149

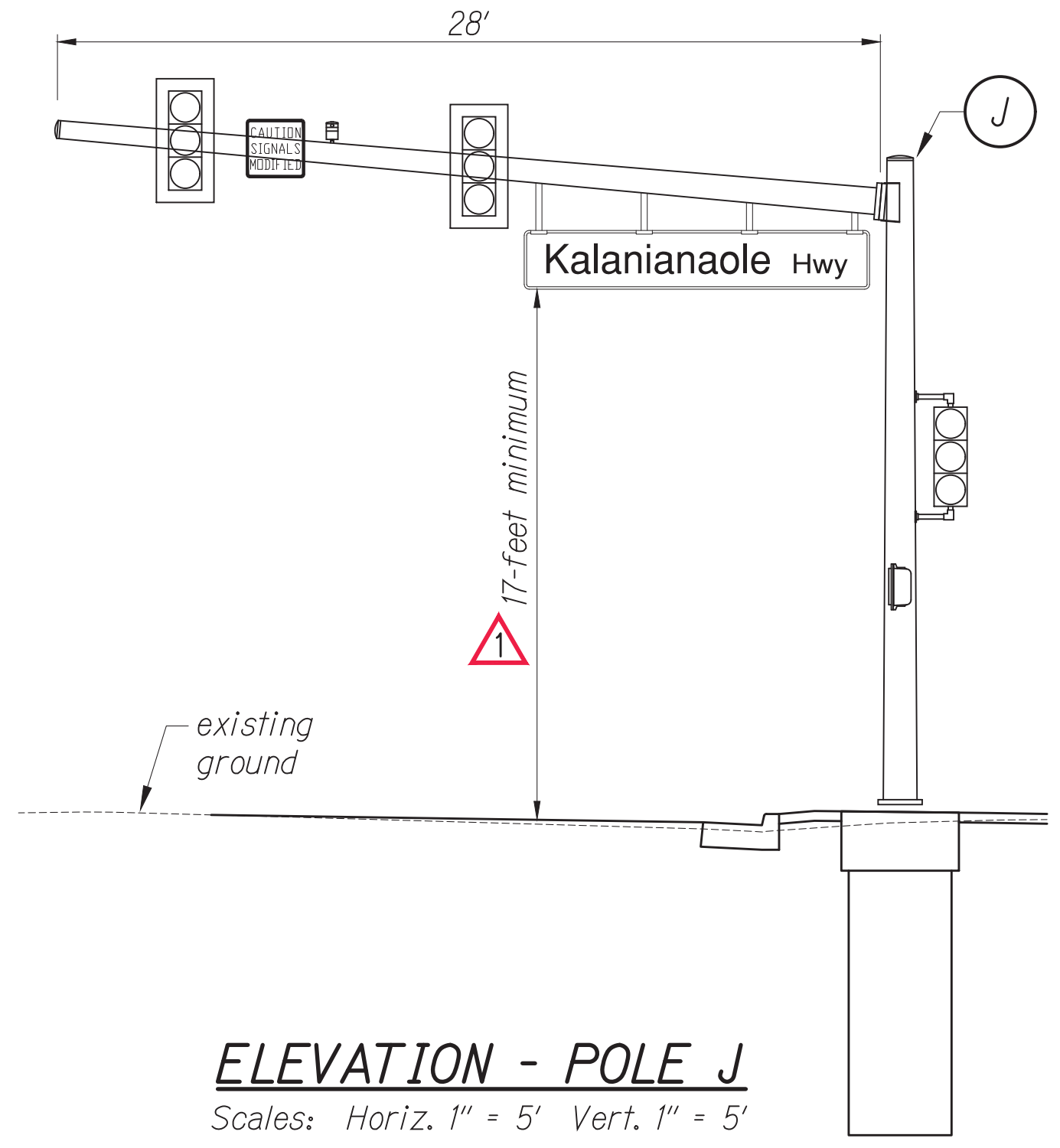
GRAPHIC SCALES
SCALE 1"=5'

Notes:

- The Contractor shall be extremely careful when working near the gas pipeline. See GAS notes.
- The Contractor shall construct the new traffic signal duct line crossing the existing cast iron water main in compliance with Water Notes #32 and #33. The Contractor shall pay for all costs to comply with Water Notes #32 and #33.
- The Contractor shall install Curb and Gutter, Type 2DG to fit over reinforced concrete encasement traffic signal ducts. For details, see sheet 62.
- New power source. HECO meter pedestal and duct line. See electrical drawings E-1 thru E-9.



PLAN - DUCT LINES 15 & 36
Scale: 1" = 5'



ELEVATION - POLE J
Scales: Horiz. 1" = 5' Vert. 1" = 5'

Station	Curve Data	Clearance	Notes
0+00	#P14	12" min. clear	HTCO ducts
0+02.13	P.I. 14.34, Δ=20°00', R=1.73'	12" min. clear	
0+08.12	P.I. 11.87, Δ=12°00', R=3.27'	12" min. clear	Bottom of Concrete Encasement
0+05.23	P.I. 13.21, Δ=20°00', R=3.27'	12" min. clear	Bottom of Concrete Encasement
0+17.93	P.I. 13.21, Δ=20°00', R=32.27'	3'	Bottom of Concrete Encasement
0+20.31	P.I. 14.08, Δ=20°00', R=1.73'	12" min. clear	Bottom of Concrete Encasement
0+02.21	P.I. 16.35, Δ=45°00', R=1.73'	12" min. clear	Bottom of Concrete Encasement
0+04.28	P.I. 14.28, Δ=45°00', R=3.27'	12" min. clear	Bottom of Concrete Encasement
0+12.59	P.I. 14.28, Δ=20°52', R=3.51'	12" min. clear	Bottom of Concrete Encasement

PROFILE - DUCT LINE 15
Scales: Horiz. 1" = 5' Vert. 1" = 5'

PROFILE - DUCT LINE 36
Scales: Horiz. 1" = 5' Vert. 1" = 5'

DATE	BY

Nov. 08, 2024 - 4:13pm
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11/8/24

Revised call out to 17-foot minimum clearance (in lieu of 15-foot) from bottom of street name sign on mast arm to top of pavement of travel lane.

DATE

REVISION

APPROVED BY:

Manager and Chief Engineer, BMS
(for work affecting BMS facilities in City/State 1/2 and BMS assessments only)

Chief, Traffic Signal & Technology Division, BMS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
TRAFFIC SIGNAL MODERNIZATION
Oahu - Phase 2A
Federal Aid Project No. STP-0300(214)

Scale: As noted Date: August 2024

SHEET No. 29 OF 37 SHEETS

CONRAD S. HIGASHIYAMA
LICENSED PROFESSIONAL ENGINEER
No. 6763-C
HAWAII, U.S.A.
License Expiration Date 04-30-26

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN H.A.R. TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.

Conrad Higashiyama

TRAFFIC SIGNAL MODERNIZATION, OAHU, PHASE 2A

FAP NO. STP-0300(214)

SOLICITATION NO. B25000780

PRE-BID CONFERENCE MINUTES

The following notes are from the Hawaii Department of Transportation (HDOT) pre-bid conference with prospective bidders for the subject project.

The meeting was conducted virtually via Microsoft Teams at on October 25, 2024 at 9:00 AM Hawaii Standard Time (HST).

The following was discussed:

A. General:

- Pre-bid conference is non-mandatory and is intended for clarification prior to bidding.
- Announcement: Anything said at this meeting is for clarification only, the bid documents shall govern over anything said today and discrepancies shall be clarified by addendum.
- All Question shall be received in writing via HlePRO by November 1, 2024 at 2:00 PM HST. Questions received after the deadline will not be addressed. Verbal requests for information will not receive a response.
- The minutes to this meeting will be distributed by an addendum prior to bid opening.
- Bid Offer Due Date and Time is November 15, 2024, 2:00PM HST through HlePRO. Bids received after said due date and time shall not be considered.
- Geotechnical Engineering Exploration Documents for this project is included in the solicitation on HlePRO.

B. Disadvantaged Business Enterprises (DBE)

Jesus Navarro of Office of Civil Rights spoke about the project DBE and DBE requirements. See attached DBE handout.

C. Open to discussion with prospective bidders.

No bidders attended.

D. Attendees: See attached attendance list.

Steven Yoshida- HDOT, Highways, Traffic Design
Patrick Tuter – HDOT, Highways, Traffic Design
Jesus Navarro – HDOT, Office of Civil Rights
Daniel Williams – HDOT, Office of Civil Rights
Wesley Leong – HDOT, Highway, Oahu District
Conrad Higashiona – Engineering Concepts, Inc.

Conference adjourned at 9:15 AM.

State of Hawaii, Dept. of Transportation – Administration Division (HDOT OCR)
Disadvantaged Business Enterprises (DBE) Program
Pre – Bid Meeting – 10/25/24

STP-0300(214) Traffic Signal Modernization, Oahu, Phase 2A

Policy of the State of Hawaii, Department of Transportation’s (HDOT) DBE Program:

To ensure equal opportunity and non-discrimination in the award and administration of United States DOT-assisted contracts. Contractors shall take all necessary and reasonable steps in accordance with the regulations (49 CFR, Part 26) to ensure that DBE's have an equal opportunity to compete for and perform on contracts.

DBE Goal for this project: 5.9%

- Be sure to document discussions, phone calls, faxes or memos relating to your efforts in meeting the DBE goal.
- DBEs must be certified by the bid opening date.
- DBE subcontractors, manufacturers, suppliers, trucking companies and any second tier subcontractors shall be listed on the respective DBE forms in order to receive credit.

The following forms are due to the Department’s Project Manager or designee by the close of business, 4:30 P.M. Hawaii Standard Time (HST), five (5) calendar days after bid opening. These forms are confidential documents and should not be included with the submitted proposals.

- A best practice would be to email the required DBE documents to the Department’s Project Manager or designee so they can be received prior to the 4:30 P.M. HST deadline.

1. **DBE Confirmation and Commitment Agreement.** This form must be **signed by the bidder/offeror and each DBE** subcontractor, manufacturer, supplier, or trucking company. Information to be provided on the form shall include, among other things, the project number, the DBE’s NAICS codes, description of work, bid items with corresponding price information, prime contractor name and contact information, DBE name and contact information and subcontractor name and contact information if the DBE is a second tier subcontractor.

To count toward meeting a goal, each DBE firm must be certified in a NAICS code applicable to the kind of work the firm would perform on the contract.

2. **DBE Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction.** List the dollar amount of all subcontractors, manufacturers, suppliers, and trucking companies (both DBE and non-DBE firms). Bidder/offeror must also list the DBE project goal on this form. The bidder/offeror must submit documentation demonstrating how the DBE goal was met or how the bidder/offeror attempted to meet the goal if the goal

was not met. Responses must be sufficient to properly evaluate the bidder's/offeror's good faith efforts. Copies of correspondence return receipts, telephone logs, or other documentation will be required to support GFE. This documentation shall include quotations for both DBE and non-DBE subcontractors when a non-DBE is selected over a DBE for the project.

Documentation of good faith efforts is required irrespective of whether the bidder/offeror met the DBE project goal.

The above forms must be complete and provide the necessary information to properly evaluate bids/proposals. Failure to provide any of the above shall be cause for bid/proposal rejection. **It is in best interest of the bidder to ensure that that dollar amount listed for DBEs on the DBE Confirmation and Commitment Agreement and the DBE Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction are consistent and in alignment with each other.**

In determining calendar days, the day from which the period begins to run is not counted, and when the last day of the period is a Saturday, Sunday, or Federal or State holiday, the period extends to the next day that is not a Saturday, Sunday, or Federal or State holiday.

- Calculation of the DBE contract goal for this project is the proportionate contract dollar value of work performed, materials, and goods to be supplied by DBEs. DBE credit shall not be given for mobilization, force account items and allowance items. This DBE contract goal is applicable to all the contract work performed for this project.

DBE contract goal percentage = Contract Dollar Value of the work to be performed by DBE subcontractors, truckers/haulers, and manufacturers, plus 60% of the contract dollar value of DBE suppliers, divided by the sum of all contract items (sum of all contract items is the total amount for comparison of bids less mobilization, force account items, and allowance items).

The Department shall adjust the bidder's/offeror's DBE contract goal to the amount of the project goal if it finds that the bidder/offeror met the goal but erroneously calculated a lower percentage. If the amount the bidder/offeror submits as its contract goal exceeds the project goal, the bidder/offeror shall be held to the higher goal.

- In the bid documents be sure to refer to the DBE Requirements section and pay special attention to:
 - Section VIII. Demonstration of Good Faith Efforts for Contract Award, which summarizes the kinds of efforts that will be considered demonstrative of good faith efforts, and
 - Section IX. Administrative Reconsideration, which describes the process the apparent low bidder may take if they failed to meet the provisions of 49 CFR Sections 26.53(a)

- All federally funded projects awarded after October 1, 2017 are required to use the Certification and Contract Compliance Management System program, an online payment tracking system. This project will be required to use the Certification and Contract Compliance Management System program. HDOT OCR will work with the Project Engineer and selected bidder to get the contract information to create a contract record for the project. Subcontractors, suppliers, manufacturers, trucking companies, etc. that are selected to work on this project are expected to log in (on a regular basis) and indicate if payment was prompt and provide all required information.
- BIDDER REGISTRATION FORM. All firms bidding or quoting on DOT projects, including vendors, subcontractors, manufacturers, truckers, etc., must register as a bidder. Certified DBEs are automatically registered as a bidder with the HDOT.
Bidder Registration Form can be found at:
<https://hidot.hawaii.gov/administration/files/2019/03/Bidder-Registration-Fillable-Form.pdf>
- Be sure to check the DBE Directory online at: <https://hdot.dbesystem.com/> to ensure the DBEs listed are certified.
- [Accessing HDOT DBE Directory.pdf](#)

Surveys for Small Business information:

<https://forms.office.com/g/iFuWtNKzN6> - General Contractors/Primes

**TRAFFIC SIGNAL MODERNIZATION, OAHU, PHASE 2A
FAP NO. STP-0300(214)
SOLICITATION NO. B25000780**

Response to Request for Information (RFI's/Questions)

11/01/2024

- 1. Please show on the plans where the clearing and grubbing work is required so we can compare with the bid item quantity.**

HDOT response: The area to be cleared and grubbed is shown on the INSETs on sheet ADD. 18, Erosion and Sediment Control Plan (ESCP). It is called out as "Approximate Limits of Grading and Disturbed Area".

- 2. Plans show Reinforced Concrete Jacket for existing sewer line. Please make a bid item for this and any other RC jackets that are required for civil utilities.**

HDOT response: The bid item for Reinforced Concrete Jacket for existing sewer line is Item No. 625.0100 – Concrete Jacket.

- 3. In the project summary it has "guardrails, and crash attenuators" but there are no pay items for Guardrail and Crash Attenuators - please confirm there are no guardrails, and crash attenuators on the project.**

HDOT response: There are guardrails and crash attenuators for this project.

The pay item for guardrail is Item No. 606.0100 – Guardrail Type 3 – Beam Type Guardrail MASH Compliant.

The pay item for the transition between Median Barrier to Guardrail is 606.0200 – Hawaii MASH Transition Section.

The pay item for crash attenuators is Item No. 693.0100 – HDOT Approved Terminal Impact Attenuator – MASH Compliant, TL-3.

- 4. What plan is the detour striping shown on? Or please show what is considered detour striping on the plans.**

HDOT response: The detour striping is shown on Detour Plan – A on sheet 148.