

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

**ADDENDUM NO. 2
FOR
KUHIO HIGHWAY RESURFACING
WAIKAEA BRIDGE TO MAILIHUNA ROAD
FEDERAL-AID PROJECT NO. NH-056-1(063)
DISTRICT OF KAWAIHAU
ISLAND OF KAUAI
April 27, 2023**

This Addendum makes the following amendments to the Bid Documents:

A. TABLE OF CONTENTS:

1. Delete **TABLE OF CONTENTS**, dated 3/6/23 and replace with the attached **TABLE OF CONTENTS**, dated r4/21/23.

B. NOTICE TO BIDDERS:

1. Delete **NOTICE TO BIDDERS**, dated 3/22/23 and replace with the attached **NOTICE TO BIDDERS**, dated r4/25/23.
2. Prospective bidders are hereby notified that receiving of sealed bids scheduled for Thursday, May 4, 2023 at 2:00 P.M. Hawaii Standard Time (HST) will be postponed and rescheduled for Thursday, May 11, 2023 at 2:00 P.M. HST.
3. Prospective bidders are hereby notified that the submission of the Disadvantaged Business Enterprise (DBE) Contract Goal Verification and Good Faith Efforts Documentation for Construction, DBE Confirmation and Commitment Agreement – Trucking Company, and DBE Confirmation and Commitment Agreement – Subcontractor, Manufacturer, or Supplier scheduled for May 9, 2023 at 4:30 P.M. HST will be postponed and rescheduled for May 16, 2023 at 4:30 P.M. HST.

C. SPECIAL PROVISIONS:

1. Delete **SECTION 645 – WORK ZONE TRAFFIC CONTROL**, dated 11/4/21 and replace with the attached **SECTION 645 – WORK ZONE TRAFFIC CONTROL**, dated r4/21/23.
2. Add and make a part of the Special Provisions the attached **SECTION 750 – TRAFFIC CONTROL SIGN AND MARKER MATERIALS**, dated r4/21/23.

D. PROPOSAL SCHEDULE:

1. Delete **Proposal Schedule** pages **P-8** through **P-18**, dated r4/14/23 and replace with the attached Proposal Schedule pages **P-8** to **P-18**, dated r4/21/23.

E. PLANS:

1. Delete Plan Sheet No. **2** – Standard Plans Summary and replace with attached Plan Sheet No. **ADD. 2** – STANDARD PLANS SUMMARY.
2. Add attached Plan Sheet No. **ADD. 2S1** – GALVANIZED SQUARE TUBE SIGN POST MOUNTING.
3. Delete Plan Sheet No. **3** – General Notes and Legend and replace with attached Plan Sheet No. **ADD. 3** – GENERAL NOTES AND LEGEND.
4. Delete Plan Sheet No. **12** – Typical Sections and replace with attached Plan Sheet No. **ADD. 12** – TYPICAL SECTIONS.
5. Delete Plan Sheet No. **13** – Miscellaneous Detail and replace with attached Plan Sheet No. **ADD. 13** – MISCELLANEOUS DETAIL.
6. Delete Plan Sheet No. **ADD.20** – Roadway Plan, revision dated 4/13/23 and replace with attached Plan Sheet No. **ADD. 20** – MISCELLANEOUS DETAIL, revision dated 4/25/23.
7. Delete Plan Sheet No. **23** – Pavement Marking Legend, Details, Notes & Summary and replace with attached Plan Sheet No. **ADD. 23** – PAVEMENT MARKING LEGEND, DETAILS, NOTES & SUMMARY.
8. Add attached Plan Sheet No. **ADD. 23S1** – CONCRETE FOUNDATION AND BASE DETAIL.
9. Delete Plan Sheet No. **31** – Pavement Marking & Traffic Signing Plan and replace with attached Plan Sheet No. **ADD. 31** – PAVEMENT MARKING & TRAFFIC SIGNING PLAN.
10. Delete Plan Sheet No. **ADD.32** – Pavement Marking & Traffic Signing Plan, revision dated 4/13/23 and replace with attached Plan Sheet No. **ADD. 32** PAVEMENT MARKING & TRAFFIC SIGNING PLAN, revision dated 4/25/23.
11. Delete Plan Sheet No. **34** – Sign Detail and replace with attached Plan Sheet No. **ADD. 34** – SIGN DETAIL.
12. Delete Plan Sheet No. **35** – Sign Detail and replace with attached Plan Sheet No. **ADD. 35** – SIGN DETAIL.

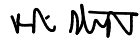
13. Delete Plan Sheet No. **41** – Traffic Counting System Cabinet and Foundation and replace with attached Plan Sheet No. **ADD. 41** – TRAFFIC COUNTING SYSTEM CABINET AND FOUNDATION.
14. Delete Plan Sheet No. **43** – Low Speed Undivided Highway Work Zone Signing Plan, Notes & Details and replace with attached Plan Sheet No. **ADD. 43** – LOW SPEED UNDIVIDED HIGHWAY, WORK ZONE SIGNING PLAN, NOTES & DETAILS.

The following is provided for information.

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

1. The attached Responses to Request for Information (RFI's / Questions) is provided for information.

Please acknowledge receipt of this Addendum No. 2 by recording the date of its receipt in the space provided on page P-4 of the Proposal.



ROBIN K. SHISHIDO
Highways Deputy Director

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NOTICE TO BIDDERS
(Chapter 103D, HRS)

The receiving of SEALED BIDS for KUHIO HIGHWAY RESURFACING, WAIKAEA BRIDGE TO MAILIHUNA ROAD, PROJECT NO. NH-056-1(063), will begin as advertised on April 6, 2023 in HIEPRO. Bidders are to register and submit bids through HIEPro only. See the following HIEPRO link for important information on registering: <https://hiepro.ehawaii.gov/welcome.html>.

Deadline to submit bids is Bid Opening Day, ²Thursday, May 11, 2023 at 2:00 P.M. Hawaii Standard Time (HST). Bids received after said due date and time shall not be considered.

The following documents are made part of the Contract Documents and are included in HIEPRO; Noise Variance Permit.

² The project consists of work along Kuhio Highway from Waikaea bridge to Mailihuna road, and a parking lot located in Tax Map Key (TMK) (4) 4-6-014:100 & 4-6-014:036. The scope of work consists of reconstruction of weakened pavement areas, cold planing, resurfacing, installing new pavement markers, traffic signs, and curb extensions. The estimated cost of construction is between \$6,000,000 and \$8,000,000.

To be eligible for award, bidders must possess a valid State of Hawaii General Engineering “A” license prior to the award of contract.

A pre-bid conference is scheduled for **Pre-bid meeting April 13, 2023 at 10:00 A.M. HST on Microsoft Teams.** All prospective bidders or their representatives (employees) are encouraged to attend, but attendance is not mandatory. Due to the impacts of COVID 19, the pre-bid meeting will be conducted virtually. Please

call Microsoft Teams to join the Pre-bid meeting at (808) 829-4853, Phone Conference ID: 414 822 679#. Contact Eric Fujikawa, Project Manager, by phone, at (808) 241-3015, by facsimile at (808) 241-3011 or email at eric.i.fujikawa@hawaii.gov to obtain the venue for the pre-bid meeting. Anything said at the conference is for clarification purposes and any changes to the bid documents will be made by addendum and posted in HIePRO.

ALL requests for information (RFI) shall be received in writing via HIePRO no less than 14 calendar days before bid opening. Questions received after the deadline will not be addressed. Verbal requests for information will not receive a response.

Any protest of this solicitation shall be submitted in writing to the Director of Transportation, in accordance with §103D-701, HRS and §3-126, HAR.

Campaign contributions by State and County Contractors. Contractors are hereby notified of the applicability of Section 11-355, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by the legislative body. For more information, contact the Campaign Spending Commission at (808) 586-0285.

The U.S. Department of Transportation Regulation entitled “Nondiscrimination in Federally-Assisted Programs of the U.S. Department of Transportation,” Title 49, Code of Federal Regulations (CFR), Part 21 is applicable to this project. Bidders are hereby notified that the Department of Transportation will affirmatively ensure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin or sex (as directed by 23 CFR Part 200).

The Equal Employment Opportunity Regulations of the Secretary of Labor implementing Executive Order 11246, as amended shall be complied with on this project.

The U.S. Department of Transportation Regulations entitled "Participation by Disadvantaged Business Enterprise in Department of Transportation Programs", Title 49, Code of Federal Regulations, Part 26 is applicable to this project. Bidders are hereby notified that the Department of Transportation will strictly enforce full compliance with all of the requirements of the Disadvantaged Business Enterprise (DBE) program with respect to this project.

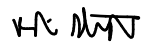
Bidders are directed to read and be familiar with the Disadvantaged Business Enterprise (DBE) Requirements, which establishes the program requirements pursuant to Title 49 Code of Federal Regulations Part 26 and, particularly, the requirements of certification, method of award, and evidence of good faith. All Bidders must e-mail the Engineer at eric.i.fujikawa@hawaii.gov, the Disadvantaged Business Enterprise (DBE) Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction, Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Trucking Company and Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Subcontractor, Manufacturer, or Supplier ² by May 16, 2023 at 4:30 P.M. HST. Failure to provide these documents shall be cause for bid/proposal rejection.

Driving While Impaired (DWI) Education. HDOT encourages all organizations contracted with the DOT to have an employee education program preventing DWI. DWI is defined as operating a motor vehicle while impaired by alcohol or other legal or illegal substances. HDOT promotes this type of program to accomplish

our mission to provide a safe environment for motorists, bicyclists and pedestrians utilizing our State highways, and expects its contractors to do so as well.

For additional information, contact Eric Fujikawa, Project Manager, by phone at (808) 241-3015, by facsimile at (808) 241-3011 or email at eric.i.fujikawa@hawaii.gov.

The State reserves the right to reject any or all proposals and to waive any defects in said proposals for the best interest of the public.



ROBIN K. SHISHIDO
Highways Deputy Director

Posted:

1 **SECTION 645 - WORK ZONE TRAFFIC CONTROL**

2
3 Make the following amendments to said Section:



5 **(I)** Amend **645.03 Construction** from line 64 to 66 to read as follows:

6
7 “Furnish two flaggers or police officers for each location that requires work
8 zone traffic control. If TCP is included in the contract documents, furnish
9 number of flaggers or police officers indicated in TCP.”

10
11 **(II)** Amend **645.03 (B) Construction Signs** from line 162 to 169 by changing all
12 references to “Construction Signs” to read “**Work Zone Signs**”.

13
14 **(III)** Amend **Subsection 645.03 Construction** by adding this paragraph after line
15 170 to read as follows:

16
17 **“(1) Covers.** Use sign covers when existing signs confuse the public or
18 are in conflict with TCP signs installed. Sign covers shall be commercially
19 manufactured and accepted by the Engineer before use. Sign covers shall at
20 all times and under all conditions not allow any portion of the sign being
21 covered to be visible. If more than one side of the sign has words or symbols
22 cover all sides of the sign until needed. “Homemade” or “field made” covers
23 shall not be used. Covering of sign identification markings are not required if
24 that is the only markings on that side of the sign. Sign covers shall be
25 maintained.

26
27 Removal of the existing sign in lieu of the use of sign covers may be
28 acceptable to the Engineer provided the previously removed existing sign is
29 immediately reinstalled when directed. Removal of existing post(s) and
30 mounting hardware is required if not used to mount the new TCP sign. New
31 mounting hardware shall be used to mount the TCP signs if the existing
32 hardware is in an unacceptable condition in the opinion of the Engineer. In
33 addition, should the sign or post during storage, in the opinion of the
34 Engineer, become unacceptable or lost or stolen the Contractor shall replace
35 the sign or post with a new sign or post. Use new hardware to reinstall the
36 sign regardless whether it is an existing sign or new.”

37
38 **(II)** Amend **Subsection 645.03 (F) Lane Closures** Line 253 by changing "Oahu"
39 to “Kauai”.

40
41 **(III)** Amend **Subsection 645.03 (G) Advisory Signs** from Line 314 to Line 324 to
42 read as follows:

43
44 **“(G) Advisory Signs.** Advisory signs are not required for this project.”

48 (IV) Amend **Subsection 645.03 (H) Advertisement** from Line 391 to Line 392 to
49 read as follows:

50
51 “Place advertisement for three (3) consecutive days and within one week
52 before traffic pattern changes, in publication as ordered by the Engineer. In lieu of
53 the advertisement(s), the Engineer may substitute the use of two portable
54 changeable message boards and accessories at no additional cost for three (3)
55 days for each required advertisement.”

56
57 (V) Amend **Subsection 645.04 - Measurement** from line 394 to line 403 to read
58 as follows:

59
60 **“645.04 Measurement.**

61
62 (A) Traffic control as specified in Subsection 645.03 – Construction
63 including sign covers and the initial advertisement(s) will be measured on contract
64 lump sum basis. Measurement for payment will not apply.

65
66 (B) The Engineer will measure additional police officers, additional traffic
67 control devices, and additional advertisements, if ordered by the Engineer, on a
68 force account basis, in accordance with Subsection 109.06 – Force Account
69 Provisions and Compensation.’

70
71 (VI) Amend **Subsection 645.05 - Payment** from lines 405 to 428 to read:

72
73 **“645.05 Payment.** The Engineer will pay for the accepted traffic control,
74 additional police officers, and additional traffic control devices, and additional
75 advertisements at the contract price per pay unit, as shown in the proposal
76 schedule. Payment will be full compensation for the work prescribed in this section
77 and the contract documents.

78
79 The Engineer will pay for the following pay items when included in the
80 proposal schedule:

81

Pay Item	Pay Unit
Traffic Control	Lump Sum
Additional Police Officers, Additional Traffic Control Devices, and Additional Advertisements	Force Account

82
83
84
85
86
87
88

89 An estimated amount for the force account may be allocated in the proposal
90 schedule under “Additional Police Officers, Additional Traffic Control Devices, and
91 Additional Advertisements”, but the actual amount to be paid will be the sum shown
92 on the accepted force account records, whether this sum be more or less than the
93 estimated amount allocated in the proposal schedule.

94
95

96 The Engineer will not pay for request submittals. The Engineer will not
97 consider claims for additional compensation of late submittals or requests by
98 Contractor.”

99

100

101

102

END OF SECTION 645

1 **SECTION 750 – TRAFFIC CONTROL SIGN AND MARKER MATERIALS**

2
3 Make the following amendments to said Section:

4
5 **(I)** Amend **Subsection 750.01(A)(1) Retroreflectorization** by replacing lines
6 8 through 31 to read:

7
8 **“(1) Retroreflectorization.** The following shall be retroreflectorized:

9
10 **(a)** Background for illuminated guide signs and exit number panels (“E”
11 designation) with ASTM D 4956 Type XI retroreflective sheeting.

12
13 **(b)** Background for non-illuminated guide signs and exit number panels
14 (“D” designation) with ASTM D 4956 Type XI retroreflective sheeting.

15
16 **(c)** Messages, arrows, and borders of guide signs and exit number
17 panels (“D” and “E” designations) with ASTM D 4956 Type XI
18 retroreflective sheeting.

19
20 **(d)** Regulatory and warning signs, directional signs (“DIR” designation),
21 route and auxiliary markers, shield symbols, yellow “EXIT ONLY” panels,
22 construction warning signs, and barricade rails, completely, with Type III,
23 IV, or IX retroreflective sheeting.

24
25 **(e)** Pedestrian, school, bicycle crossing series, completely with Type IX
26 fluorescent yellow green retroreflective sheeting.”

27
28
29 **(II)** Amend **Subsection 750.01(B) Backing** by replacing lines 72 through 73
30 to read:

31
32 “Aluminum sheet shall conform to ASTM B 209, alloy 5052-H38 or 6061-
33 T6 flat sheet.”

34
35 **(III)** Amend **Subsection 750.01(E) Retroreflective Sheeting Materials** by
36 replacing lines 1126 through 1137 to read:

37
38 **“(E) Retroreflective Sheeting Materials.** Retroreflective sheeting
39 includes white or colored sheeting having smooth outer surface.

40
41 Retroreflective sheeting shall be classified in accordance with ASTM D
42 4956.

43
44 The coefficient of retroreflection shall meet the minimum requirements of
45 ASTM D 4956 for the type of reflective sheeting specified.

47 The color shall conform to the latest appropriate standard color tolerance
48 chart issued by the U.S. Department of Transportation, Federal Highway
49 Administration and to the daytime and nighttime color requirements of ASTM D
50 4956.

51
52 Test methods and procedures shall be in accordance with ASTM.

53
54 **(IV)** Amend **Subsection 750.02 Sign Posts** by replacing lines 1168 through
55 1172 to read:

56
57 **“(C) Square Tube Posts.** Square posts shall conform to ASTM A 653 for cold-
58 rolled, carbon steel sheet, commercial quality; or ASTM A 787 for electric-
59 resistance-welded, metallic-coated carbon steel mechanical tubing.”

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END OF SECTION 750

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0101	Clearing and Grubbing (Parking Lot)	85	SY	\$ _____	\$ _____
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	LS	LS	LS	\$ _____
209.0200	Additional Water Pollution, Dust, and Erosion Control	FA	FA	FA	\$ <u>50,000.00</u>
401.0410	PMA Pavement, Mix No. IV PG64E-22	10415	Ton	\$ _____	\$ _____
401.0411	PMA Pavement, Mix No. IV PG64E-22 (Parking Lot)	180	Ton	\$ _____	\$ _____
401.9000	Pavement Smoothness Incentive	Allow	Allow	Allow	\$ <u>16,800.00</u>
414.0110	Excavation of Weakened Pavement Areas	1560	CY	\$ _____	\$ _____
415.0110	Cold Planing of Existing Pavement	44975	SY	\$ _____	\$ _____
415.0111	Cold Planing of Existing Pavement (Parking Lot)	1490	SY	\$ _____	\$ _____
△ 511.0100	Furnishing Drilled Shaft Drilling Equipment	LS	LS	LS	\$ _____
△ 511.0200	Drilled Shaft	64	LF	\$ _____	\$ _____
△ 511.0300	Standard Excavation	64	LF	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
604.4010	Adjust Manhole Cast Iron Frame and Cover	1	EA	\$ _____	\$ _____
615.0100	16-Inch Milled Rumble Strip, Centerline	2200	LF	\$ _____	\$ _____
615.0110	12-Inch Milled Rumble Strip, Edgeline	3000	LF	\$ _____	\$ _____
629.1000	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	1590	LF	\$ _____	\$ _____
629.1001	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion) (Parking Lot)	740	LF	\$ _____	\$ _____
629.1002	4-Inch Pavement Striping (Tape, Type II or Thermoplastic Extrusion)	160	LF	\$ _____	\$ _____
629.1004	4-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	905	LF	\$ _____	\$ _____
629.1006	4-Inch Pavement Striping (Thermoplastic Hot Spray)	510	LF	\$ _____	\$ _____
629.1008	4-Inch Pavement Striping (Profiled Thermoplastic)	465	LF	\$ _____	\$ _____
629.1010	Double 4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	3565	LF	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1012	Double 4-Inch Pavement Striping (Tape, Type II or Thermoplastic Extrusion)	3710	LF	\$ _____	\$ _____
629.1016	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	885	LF	\$ _____	\$ _____
629.1022	6-Inch Pavement Striping (Tape, Type II or Thermoplastic Extrusion)	11865	LF	\$ _____	\$ _____
629.1030	8-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	550	LF	\$ _____	\$ _____
629.1032	8-Inch Pavement Striping (Tape, Type II or Thermoplastic Extrusion)	2535	LF	\$ _____	\$ _____
629.1052	12-Inch Pavement Striping (Tape, Type II or Thermoplastic Extrusion)	1880	LF	\$ _____	\$ _____
629.1054	12-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	640	LF	\$ _____	\$ _____
629.1060	24-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	30	LF	\$ _____	\$ _____
629.1100	Pavement Word (Tape, Type III or Thermoplastic Extrusion)	66	EA	\$ _____	\$ _____
629.1110	Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)	42	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1111	Pavement Arrow (Tape, Type III or Thermoplastic Extrusion) (Parking Lot)	4	EA	\$ _____	\$ _____
629.1130	Yield Line (Type, Type III or Thermoplastic Extrusion)	2	LN	\$ _____	\$ _____
629.1140	Crosswalk Marking (Tape, Type III or Thermoplastic Extrusion)	49	LN	\$ _____	\$ _____
629.1142	Raised Crosswalk Marking (Tape, Type III or Thermoplastic Extrusion)	4	EA	\$ _____	\$ _____
629.2020	Type C Pavement Marker	760	EA	\$ _____	\$ _____
629.2030	Type D Pavement Marker	1000	EA	\$ _____	\$ _____
629.2040	Type F Pavement Marker	20	EA	\$ _____	\$ _____
629.2050	Type H Pavement Marker	740	EA	\$ _____	\$ _____
629.4000	ADA-Warning System Pavement Marker	△ 9	EA	\$ _____	\$ _____
630.1100	Panel for Destination Sign (Flat Panel)	140	SF	\$ _____	\$ _____
630.1200	Type A Route Marker Assembly	4	EA	\$ _____	\$ _____
630.1210	Type B Route Marker Assembly	1	EA	\$ _____	\$ _____
630.1300	Street Name Sign	12	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
630.1310	Street Name Sign on Traffic Signal Mast Arm	2	EA	\$ _____	\$ _____
630.1320	Street Name Sign on Traffic Signal Post	2	EA	\$ _____	\$ _____
630.1610	4.00 lbs/ft. Flanged Channel Post for Destination Sign	7	EA	\$ _____	\$ _____
631.0100	Regulatory Sign (10 Square Feet or Less) with Post	65	EA	\$ _____	\$ _____
631.0101	Regulatory Sign (10 Square Feet or Less) with Post (Parking Lot)	3	EA	\$ _____	\$ _____
631.0110	Regulatory Sign (10 Square Feet or Less) without Post	9	EA	\$ _____	\$ _____
631.0120	Regulatory Sign (More than 10 Square Feet) with Posts	6	EA	\$ _____	\$ _____
631.0200	Warning Sign (10 Square Feet or Less) with Post	△ 18	EA	\$ _____	\$ _____
631.0201	LED-Enhanced Warning Sign (10 Square Feet or Less) with Post	1	EA	\$ _____	\$ _____
631.0220	Warning Sign (More than 10 Square Feet) with Posts	1	EA	\$ _____	\$ _____
631.0300	Miscellaneous Sign with Post	2	EA	\$ _____	\$ _____
631.0301	Miscellaneous Sign with Post (Parking Lot)	1	EA	\$ _____	\$ _____
631.0310	Miscellaneous Sign without Post	1	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
631.0400	Supplemental Plaque	40	EA	\$ _____	\$ _____
631.0401	Supplemental Plaque (Parking Lot)	2	EA	\$ _____	\$ _____
631.0500	RRFB Assembly	10	EA	\$ _____	\$ _____
631.0510	RRFB with Overhead Light Assembly	8	EA	\$ _____	\$ _____
632.0120	Reflector Marker (RM-3) with Steel Post	16	EA	\$ _____	\$ _____
632.0122	Reflector Marker (RM-3) with Flexible Post	9	EA	\$ _____	\$ _____
632.0130	Reflector Marker (RM-5)	70	EA	\$ _____	\$ _____
632.0500	Milepost Marker with Post (Bi-Directional)	4	EA	\$ _____	\$ _____
632.1010	Type II Object Marker (OM2-2H)	90	EA	\$ _____	\$ _____
632.1020	Type II Object Marker (OM2-2V)	33	EA	\$ _____	\$ _____
632.1032	Type III Object Marker (OM3-1) Post Mounted	8	EA	\$ _____	\$ _____
632.1050	Type V Object Marker (OM-5)	104	EA	\$ _____	\$ _____
632.1051	Type V Object Marker (OM-5) (Parking Lot)	4	EA	\$ _____	\$ _____
634.0100	Portland Cement Concrete Sidewalk/Island	△ 2200	△ SF	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ STATE PROPERTIES (ALL WORK IN KUHIO HWY AND TMK (4) 4-6-014:100)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
634.0200	Metal Grate	120	LF	\$ _____	\$ _____
636.1000	Additional E-Construction Programs, additional licenses or additional equipment	FA	FA	FA	\$ <u>10,000.00</u>
638.2020	Curb, Type 2D	520	LF	\$ _____	\$ _____
645.1000	Traffic Control	LS	LS	LS	\$ _____
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Additional Advertisements	FA	FA	FA	\$ <u>100,000.00</u>
648.1000	Field-Posted Drawings	LS	LS	LS	\$ _____
658.1000	EVC System	LS	LS	LS	\$ _____
671.1000	Protection of Threatened and Endangered Species	FA	FA	FA	\$ <u>30,000.00</u>
699.1000	Mobilization (Not to Exceed 6 Percent of the Sum of All Items Excluding the Bid Price of this Item)	LS	LS	LS	\$ _____

△ Sum of State Properties \$ _____

PROPOSAL SCHEDULE

2 COUNTY PROPERTY (ALL WORK IN TMK (4) 4-6-014:036)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0102	Clearing and Grubbing (County Parking Lot)	550	SY	\$ _____	\$ _____
209.0102	Installation, Maintenance, Monitoring, and Removal of BMP (County Parking Lot)	LS	LS	LS	\$ _____
401.0412	PMA Pavement, Mix No. IV PG 64E-22 (County Parking Lot)	320	Ton	\$ _____	\$ _____
414.0112	Excavation of Weakened Pavement Areas (County Parking Lot)	9	CY	\$ _____	\$ _____
415.0112	Cold Planing of Existing Pavement (County Parking Lot)	2430	SY	\$ _____	\$ _____
629.1003	4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion) (County Parking Lot)	1150	LF	\$ _____	\$ _____
629.1011	Double 4-Inch Pavement Striping (Tape, Type I or Thermoplastic Extrusion) (County Parking Lot)	25	LF	\$ _____	\$ _____
629.1055	12-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion) (County Parking Lot)	25	LF	\$ _____	\$ _____
629.1112	Pavement Arrow (Tape, Type III or Thermoplastic Extrusion) (County Parking Lot)	10	EA	\$ _____	\$ _____
629.2032	Type D Pavement Marker (County Parking Lot)	2	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE

△ COUNTY PROPERTY (ALL WORK IN TMK (4) 4-6-014:036)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
631.0102	Regulatory Sign (10 Square Feet or Less) with Post (County Parking Lot)	4	EA	\$ _____	\$ _____
631.0302	Miscellaneous Sign with Post (County Parking Lot)	2	EA	\$ _____	\$ _____
631.0402	Supplemental Plaque (County Parking Lot)	4	EA	\$ _____	\$ _____
632.1022	Type II Object Marker (OM2-2V) (County Parking Lot)	6	EA	\$ _____	\$ _____

△ Sum of County Property..... \$ _____

PROPOSAL SCHEDULE

2 Sum of State Properties\$ _____

2 Sum of County Property\$ _____

Total Amount for Comparison of Bids\$ _____

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 may be grounds for rejection of bid.
4. If a discrepancy occurs between unit bid price and the bid price, the unit price shall govern.
5. Completed Proposal file shall be uploaded into HlePRO prior to bid opening date and time. All other required confidential or proprietary document shall be uploaded separately.
6. All bidders are required to bid on the **STATE PROPERTIES and COUNTY PROPERTY** to be considered responsive.

2

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.2	43

STANDARD PLAN NO.	TITLE	DATE
B-01	NOTES & MISCELLANEOUS DETAILS	05/31/07
B-03	BACKFILL DETAILS AT EARTH RETAINING STRUCTURES	05/31/07
B-12	PRESTRESSED CONCRETE PILES & COMPRESSION SPLICE CAN DETAILS	05/31/07
B-12A	PRESTRESSED CONCRETE PILES, PILE & COMPRESSION SPLICE CAN DETAILS & NOTES	05/31/07
B-12B	PILE INTERACTION DIAGRAM	05/31/07
B-13	PRESTRESSED CONCRETE PILE BUILD-UP DETAILS	05/31/07

D-01	CATTLE GATE	05/31/07
D-02	CHAIN LINK FENCE WITH TOPRAIL	05/31/07
D-03	CHAIN LINK FENCE WITHOUT TOPRAIL	05/31/07
D-04	WIRE FENCE WITH METAL POSTS	05/31/07
D-05	TYPICAL DETAILS OF CURBS AND/OR GUTTERS	05/31/07
D-06	TYPICAL DETAIL OF REINFORCED CONCRETE DROP DRIVEWAY	05/31/07
D-07	CENTERLINE AND REFERENCE SURVEY MONUMENTS	05/31/07
D-08	STREET SURVEY MONUMENT	05/31/07
D-15	CONCRETE SIDEWALK	05/31/07
D-16	P.C.C. BUS PAD	05/31/07
D-17	P.C.C. BUS PAD	05/31/07
D-18	P.C.C. PAVEMENT LAYOUT	05/31/07
D-19	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-20	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-21	P.C.C. LONGITUDINAL JOINT DETAILS	05/31/07
D-22	P.C.C. CONNECTION TO CURBS AND GUTTERS	05/31/07
D-23	JOINTS	05/31/07

L-01	TREE PLANTING	08/16/06
L-02	TREE PLANTING	08/16/06
L-03	TREE TRANSPLANTING	08/16/06
L-04	PALM PLANTING	08/16/06
L-05	SHRUB PLANTING	08/16/06
L-06	LANDSCAPE DETAILS	08/16/06
L-07	LANDSCAPE DETAILS	08/16/06
L-08	LANDSCAPE DETAILS	08/16/06
L-09	LANDSCAPE DETAILS	08/16/06
L-10	LANDSCAPE DETAILS	08/16/06
L-11	PLANTING NOTES	08/16/06
L-12	IRRIGATION DETAILS	08/16/06
L-13	IRRIGATION DETAILS	08/16/06
L-14	IRRIGATION DETAILS	08/16/06
L-15	IRRIGATION DETAILS	08/16/06
L-16	IRRIGATION DETAILS	08/16/06
L-17	IRRIGATION DETAILS	08/16/06
L-18	IRRIGATION DETAILS	08/16/06
L-19	IRRIGATION DETAILS	08/16/06
L-20	IRRIGATION DETAILS	08/16/06
L-21	IRRIGATION DETAILS	08/16/06
L-22	IRRIGATION DETAILS	08/16/06
L-23	IRRIGATION DETAILS	08/16/06
L-24	IRRIGATION NOTES	08/16/06

STANDARD PLAN NO.	TITLE	DATE
H-01A	TYPE A CATCH BASIN	05/31/07
H-01B	TYPE B CATCH BASIN	05/31/07
H-01C	TYPE C CATCH BASIN	05/31/07
H-01D	TYPE D CATCH BASIN	05/31/07
H-01E	CATCH BASIN SECTIONS	05/31/07
H-02A	TYPE A1 CATCH BASIN	05/31/07
H-02B	TYPE B2 CATCH BASIN	05/31/07
H-02C	TYPE C1 CATCH BASIN	05/31/07
H-02D	TYPE D1 CATCH BASIN	05/31/07
H-02E	CATCH BASIN SECTION	05/31/07
H-03	TYPE A,B, AND C STORM DRAIN MANHOLE	05/31/07
H-04	TYPE D STORM DRAIN MANHOLE	05/31/07
H-05	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-06	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-07	CATCH BASIN AND MANHOLE CASTINGS	05/31/07
H-08	TYPE 1A-9 AND 1A-9P GRATED DROP INLET	05/31/07
H-09	TYPE 2A-9 AND 2A-9P GRATED DROP INLET	05/31/07
H-10	TYPE A-9 OR A-9P STEEL FRAMES	05/31/07
H-11	TYPE A-9 AND A-9P STEEL GRATES	05/31/07
H-12	TYPE 61614P AND 1211214P GRATED DROP INLET	05/31/07
H-13	TYPE 61616P AND 1211216P GRATED DROP INLET	05/31/07
H-14	TYPE 61214P GRATED DROP INLET	05/31/07
H-15	TYPE 1211214, 1211214P, 1211216, 1211216P STEEL FRAME AND GRATES	05/31/07
H-16	TYPE 61614, 61614P, 61616, 61616P STEEL FRAME AND GRATES	05/31/07
H-17	TYPE 61214 STEEL FRAMES AND GRATES	05/31/07
H-18	TYPE 61214P STEEL GRATES	05/31/07
H-19	TYPE 61614B STEEL FRAME AND GRATES	05/31/07
H-20	CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-21	CONCRETE AND CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-22	INLET/OUTLET STRUCTURE	05/31/07
H-23	INLET/OUTLET STRUCTURE	05/31/07
H-24	FLARED END SECTION FOR CULVERTS	05/31/07
H-25	FLARED END SECTION FOR CULVERTS	05/31/07
H-26	CONCRETE SPILLWAY INLET	05/31/07
H-27	CAP COUPLING DETAILS STANDARD JOINT	05/31/07
H-28	REINFORCED CONCRETE COLLAR & JACKET	05/31/07
H-29	UNDERDRAIN CLEANOUT STEEL FRAME AND COVER	05/31/07
H-30	UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE	05/31/07

TE-01	SIGN HEIGHT AND LOCATION	07/11/08
TE-1A	SIGN INSTALLATION	07/11/08
TE-02A	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02B	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02C	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-03A	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-03B	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-04	REGULATORY SIGNS	07/11/08
TE-05	WARNING SIGNS	07/11/08
TE-06	MISCELLANEOUS SIGNS	07/11/08
TE-07	CONSTRUCTION SIGNS	07/11/08
TE-08	MISCELLANEOUS INTERSECTION SIGNS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-09	BIKE ROUTE SIGN & SUPPLEMENTARY PLATES	07/11/08
TE-10	INTERSTATE ROUTE MARKER	07/11/08
TE-11	STATE ROUTE MARKER AND AUXILIARY MARKERS	07/11/08
TE-12	STATE ROUTE MARKER AND BORDER DETAIL FOR GUIDE SIGNS	07/11/08
TE-12A	ROUTE SIGN ASSEMBLIES	07/11/08
TE-13	STREET NAME SIGN ON MAST ARM	07/11/08
TE-14	MISCELLANEOUS REFLECTOR MARKERS	07/11/08
TE-15	OBJECT MARKERS	07/11/08
TE-16	MILE POSTS	07/11/08
TE-17A	CANTILEVER OVERHEAD SIGN ELEVATION & DETAILS	05/31/07
TE-17B	CANTILEVER SIGN FRAME DETAIL AND SECTION	05/31/07
TE-17C	CANTILEVER SIGN FRAME DETAIL	05/31/07
TE-17D	CANTILEVER SIGN FRAME SECTION	05/31/07
TE-17E	CANTILEVER SIGN FRAME DETAILS	05/31/07
TE-18A	TWO POST OVERHEAD SIGN FRAME ELEVATIONS	05/31/07
TE-18B	TWO POST SIGN FRAMING PLAN SECTION	05/31/07
TE-18C	TWO POST SIGN FRAMING SECTIONS AND DETAILS	05/31/07
TE-18D	TWO POST SIGN FRAME DETAILS	05/31/07
TE-18E	TWO POST SIGN FRAME DETAILS	05/31/07
TE-19A	OVERHEAD SIGN FRAMING SCHEDULE	05/31/07
TE-19B	SIGN POST DRILLED SHAFT FOUNDATION	05/31/07
TE-19C	SPREAD FOOTING	05/31/07
TE-19D	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.1	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.2	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.3	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.4	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.5	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19E	ANCHORAGE DETAILS	05/31/07
TE-19F	ANCHORAGE DETAILS	05/31/07
TE-19G	MISCELLANEOUS SIGN FRAME DETAILS	05/31/07
TE-19H	LUMINAIRE WALKWAY SUPPORT	05/31/07
TE-19J	FIXED MESSAGE LUMINAIRE SUPPORT	05/31/07
TE-19K	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19L	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19M	MISCELLANEOUS SIGN FRAME DETAILS	05/31/07
TE-20	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20A	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20B	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20C	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-21A	SIGN BREAKAWAY MOUNTS	05/31/07
TE-21B	SIGN BREAKAWAY MOUNTS	05/31/07
TE-22	LAMINATED ALUMINUM SIGN PANELS (OVERHEAD)	05/31/07
TE-23	LAMINATED ALUMINUM SIGN PANELS (GROUND MOUNTED)	07/11/08
TE-24	SOLID ALUMINUM EXTRUDED SIGN PANEL AND ACCESSORY DETAILS	05/31/07
TE-25	GUIDE SIGNS LUMINAIRE MOUNTINGS	05/31/07
TE-26	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-27	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-28	ENTRANCE AND EXIT PAVEMENT MARKINGS	07/11/08
TE-28A	MISCELLANEOUS PAVEMENT MARKINGS	07/11/08
TE-29	PAVEMENT ARROWS AND SYMBOLS	07/11/08
TE-30	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-31	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08
TE-32	TYPE I & II TRAFFIC SIGNAL SYSTEM MISC. DETAILS	05/31/07
TE-33	TYPE II TRAFFIC SIGNAL SYSTEM	08/16/06
TE-33A.1	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-33A.2	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-34	LOOP DETECTOR DETAILS	07/11/08
TE-35	LOOP DETECTORS & DUCT DETAILS	07/11/08
TE-36	TRAFFIC SIGNAL DETAILS	07/11/08
TE-37	PULLBOX & COVER DETAILS	07/11/08
TE-37A	TYPE "A" TRAFFIC PULLBOX	05/31/07
TE-37B	TYPE "A" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37C	TYPE "B" TRAFFIC PULLBOX	05/31/07
TE-37D	TYPE "B" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37E	TYPE "B" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37F	TYPE "C" TRAFFIC PULLBOX	05/31/07
TE-37G	TYPE "C" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37H	TYPE "C" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37J	TRAFFIC PULLBOX COVER AND DETAILS	05/31/07
TE-38	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.1	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.2	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-39	METAL GUARDRAIL CONNECTION TO CONCRETE BARRIER	07/11/08
TE-40	CONCRETE BARRIER TRANSITION	05/31/07
TE-40A	CONCRETE BARRIER TRANSITION SECTIONS	05/31/07
TE-41	GUARDRAIL TYPE 4 (RIGID BARRIER)	05/31/07
TE-42	PORTABLE CONCRETE BARRIER	05/31/07
TE-43	PORTABLE CONCRETE BARRIER	05/31/07
TE-44	GUARDRAIL TYPE 4 MISCELLANEOUS DETAILS	07/11/08
TE-45	BARRICADES	07/11/08
TE-46	DELINEATION & PAVEMENT MARKINGS AT NARROW BRIDGES	07/11/08
TE-47	HIGHWAY LIGHT STANDARD	05/31/07

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "●" NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-07 ●)

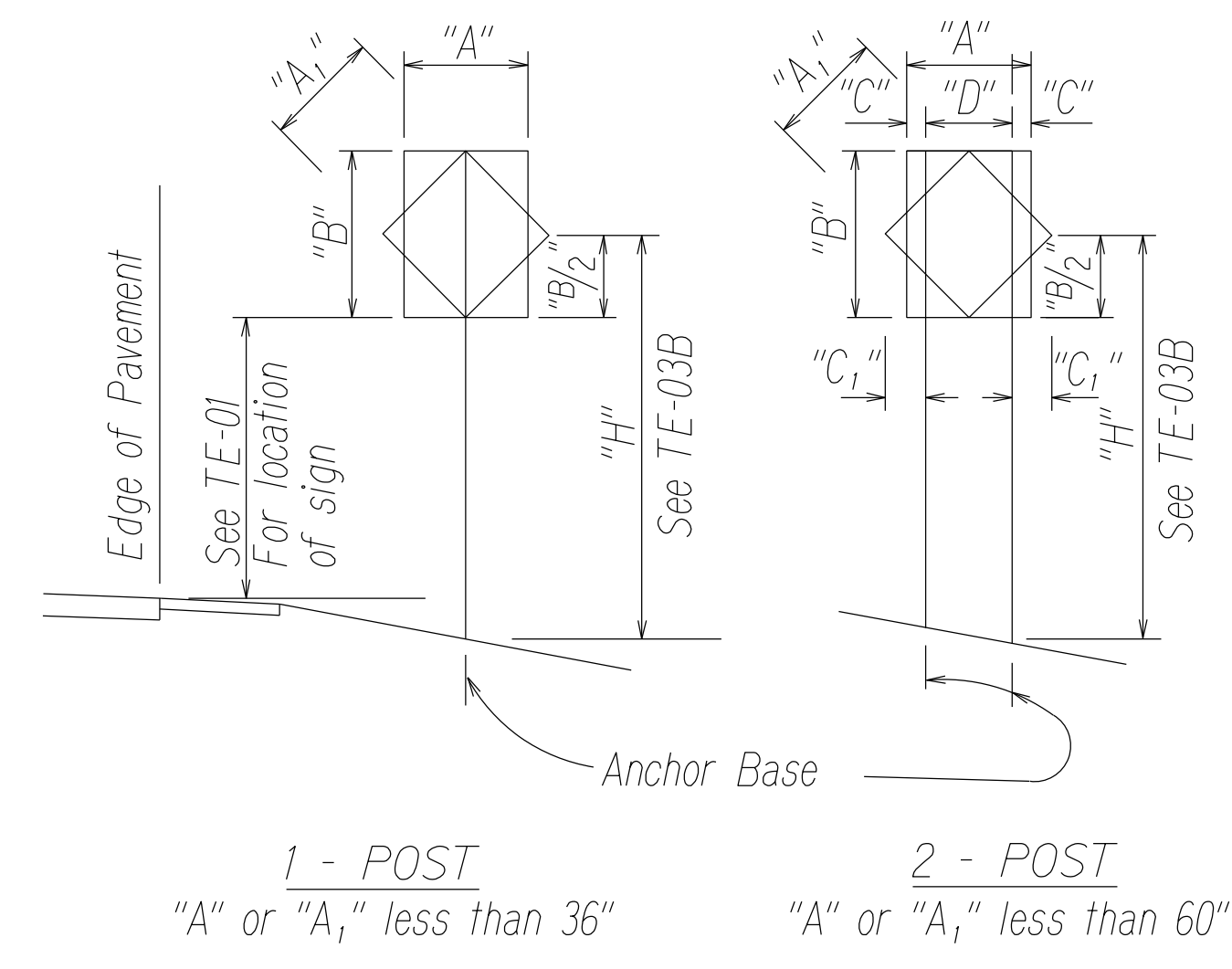
4/21/23	△ - TE-03A Not in Use
4/21/23	△ - TE-47 in Use
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLANS SUMMARY KUHIO HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063) Date: April 2023	

SHEET No. 1 OF 1 SHEETS

ADD.2

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	

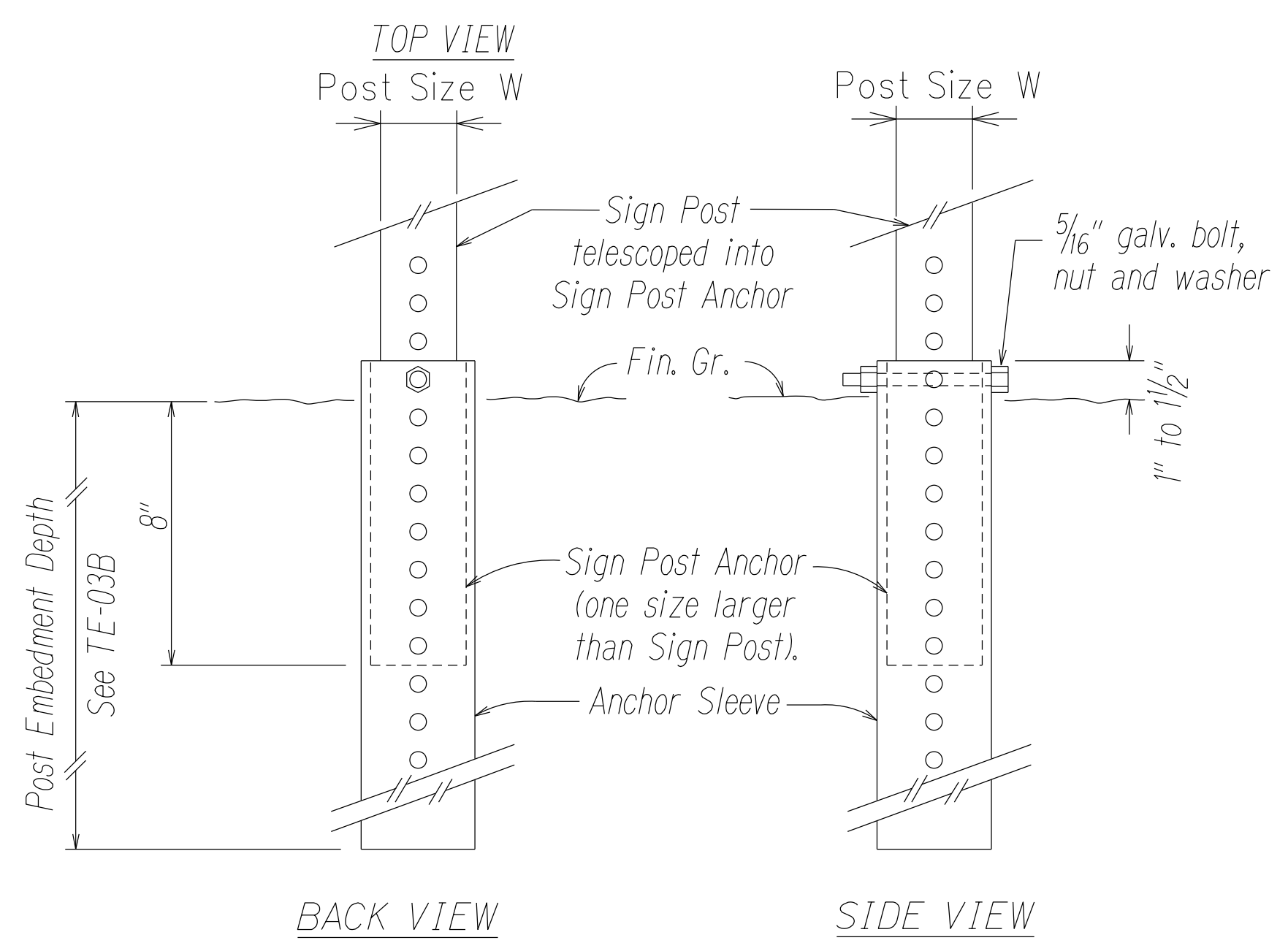
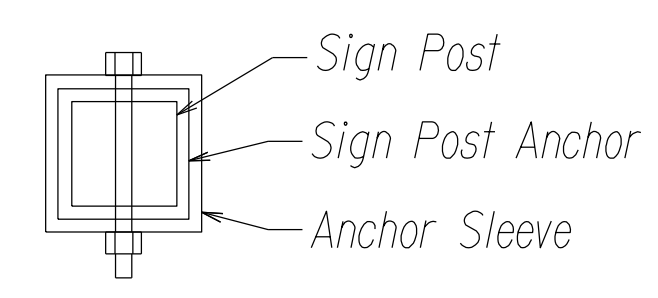
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.2S1	43



"A" or "A ₁ "	"C"	"C ₁ "
Less than 36"	6"	-
Greater than 36" and less than 48"	9"	19"
Greater than 48"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24"
See General Notes.

TYPICAL INSTALLATION
Not to Scale



SIGN POST INSTALLATION
ANCHOR BASE DETAIL
Not to Scale

GENERAL NOTES

- Design Specifications:
 - Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
 - Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."
- Loads:
 - Basic Wind Speed: 105 mph.
 - Recurrence Interval of 10 years.
- Materials:
 - Post shall conform to the Standard Specifications.
 - All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
 - Lap splice nuts and bolts shall be M180, with an ultimate tensile strength of 180 ksi, min.
 - Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.
- General:
 - See General Notes on B-01, TE-01, and TE-03B for additional information.
 - All posts shall be 12 gage unless otherwise specified or shown on the plans.
 - Square tube posts shall be perforated with 7/16" ϕ holes, 1" o.c., 4 sides, along entire length of post.
 - All accessories, fittings and stiffener details (as required) shall be submitted to the Engineer for approval 20 days prior to installation.
 - Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered structural engineer of the State of Hawaii and submitted to the Engineer for approval.
 - All sign support posts shall be outside of the clear zone or shielded by an appropriate traffic barrier system. The traffic barrier system shall be submitted to the Engineer for his approval.
 - The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.
 - Excavation and backfill shall be considered incidental to the cost of the sign foundation.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	X
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	


3/22/23 10:20am / Steve / new del / gis / smount

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GALVANIZED SQUARE TUBE
SIGN POST MOUNTING
KUHIO HIGHWAY RESURFACING
Waikaea Bridge to Maillihuna Road
Federal-Aid Project No. NH-056-1(063)
Scale: Not to Scale Date: April 2023
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.3	43






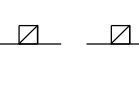

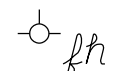

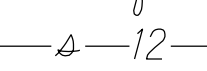

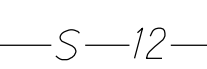
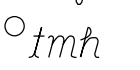
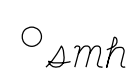




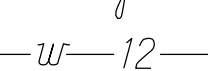



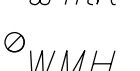

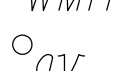
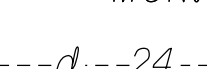
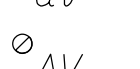


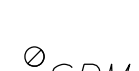


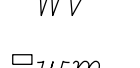
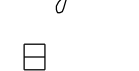
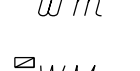


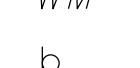

GENERAL NOTES

- The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; removing and disposing of existing pavement markers, object markers and, traffic signs; installing new pavement markers, object markers, traffic signs and milled rumble strip; curb extensions.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
- The Contractor's attention is directed to the following Sections of the Standard Specifications: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
- At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- The exact locations and limits or areas to be excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- All lanes shall be open to traffic during the hours from 5:00 AM to 9:00 PM. Only one lane of highway shall be closed at any other time. Night working hours are specified in Section 107 of the Special Provisions. Failure of the contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provisions.
- The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Item No. 401.0410 - PMA Pavement, Mix No. IV and will not be paid separately.
- Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans.
- Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. All graded and dressed shoulders shall be considered incidental to various contract items and will not be paid separately.
- Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
- The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items, and will not be paid for separately.
- All saw cutting work shall be considered incidental to Item No. 401.0410 - PMA Pavement, Mix No. IV and will not be paid for separately.
- Removal and disposal of existing raised pavement markers as directed by the Engineer or shown on the plans, shall be considered incidental to various contract items.

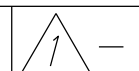
- Prior to his resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility & highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade.
- After completion of resurfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
- Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet from the edge of construction, the Contractor shall retain a Licensed Land Surveyor to reference the location of said Survey Monument.
Benchmarks that are disturbed or destroyed shall be restored under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and new values of the new benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.
- Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
-  All asphalt concrete materials from cold planing, reconstruction and roadway excavation operations shall become the property of the Contractor. The Contractor shall remove and dispose these materials and shall be considered incidental to the various contract items.
- No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. 241-3000.
- Prior to commencing his operations, the Contractor shall contact the County of Kauai, Department of Water Operations Division (Phone No. 245-5444) and make arrangements for the Department to locate and mark the existing water facilities within the project limits, such as waterlines, valve boxes and manhole frame/covers (including ones that may have been inadvertently paved over on previous resurfacing projects). The tops of the existing valve boxes, manhole frame/covers, etc., shall be adjusted to match the new finished grades noted on the construction plans.
- All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
- Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find. The Contractor shall immediately notify the Planning Department at (808) 241-4050 and State Historic Preservation Division at (808) 692-8015, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.
- Prior to construction, the contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans, Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph: 1-866-423-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: 245-5444 and the Wastewater Division, Ph: 241-6642 for toning waterlines and sewerlines respectively.

27. In order to avoid impacts to Hawaiian geese, a biologist familiar with the nesting behavior of the Hawaiian goose survey the area prior to the initiation of any work, or after any subsequent delay in work of three or more days (during which birds may attempt nesting). If a nest is discovered, work should cease immediately and the Contractor shall immediately notify the office of the U.S. Fish and Wildlife Service at (808) 792-9423 for further guidance. Furthermore, all on-site project personnel should be apprised that Hawaiian geese may be in the vicinity of the project at any time of the year. If a Hawaiian goose (or geese) appears within 100 feet of ongoing work, all activities should be temporarily suspended until Hawaiian goose (or geese) leaves the area of its own accord. This work shall be considered incidental to Force Account Item No. 671.000 - Protection of Seabirds and will not be paid separately.

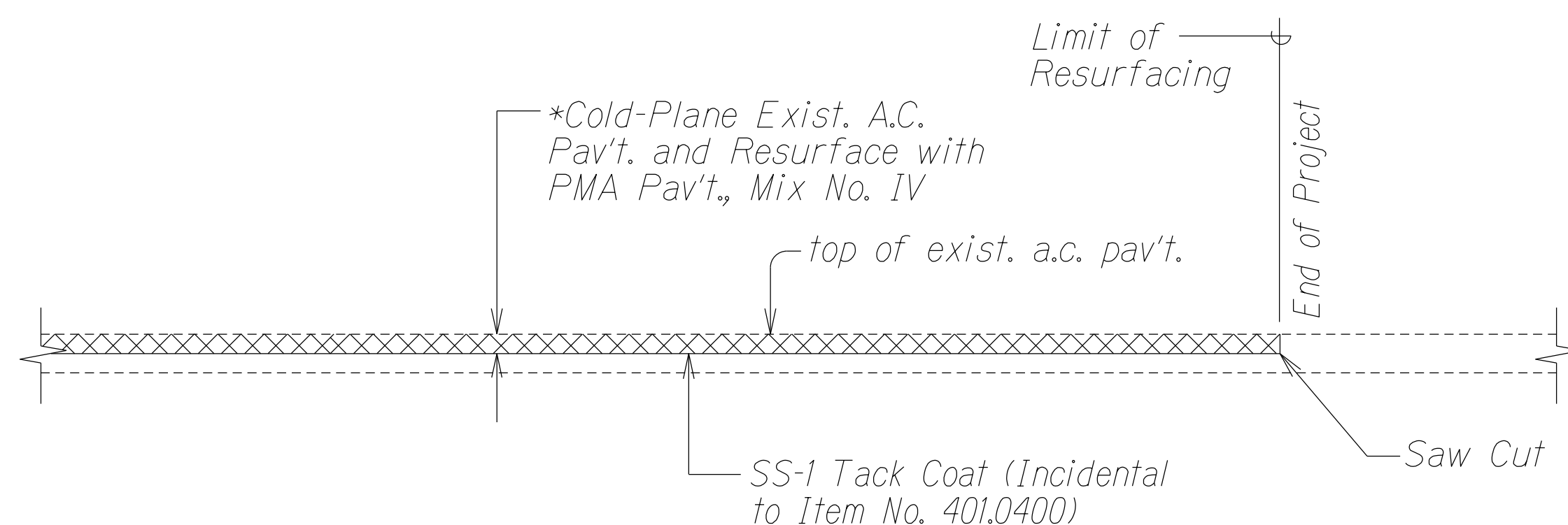
LEGEND

	Reconstruction Areas		Existing Metal Guardrail
	Cold Planing Areas & Resurfacing Limits		New Metal Guardrail
	Existing Power Pole		Adjusted and/or Relocated Metal Guardrail
	Existing Electric Manhole		Existing Fire Hydrant
	Adjusted Elec. MH Frame/Cover		Existing Sewer Line
	Existing Traffic Signal Pullbox		New 12" Sewer Line
	Existing Telephone Manhole		Existing Sewer Manhole
	Adjusted Tel. MH Frame/Cover		Adjusted Sewer Manhole
	Existing Telephone Pullbox		New Sewer Manhole
	Existing 12" Water Line		Existing Monument
	Existing Water Manhole		Adjusted Monument
	Adjusted Water MH Frame/Cover		New Monument
	Existing Water Air Valve		Existing 24" Drain Line
	Adjusted Water Air Valve		Existing Storm Drain Manhole
	Existing Water Valve Box		Adjusted Storm Drain Manhole
	Adjusted Water Valve Box		Existing Grated Drop Inlet
	Existing Water Meter Box		New Grated Drop Inlet
	Adjusted Water Meter Box		Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate
	New Type "X" Water Meter Box		
	Existing Traffic Sign		
	New Traffic Sign		

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
DESIGNATION	_____
NO.	_____

4/21/23	 - Revise Note No. 21
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES AND LEGEND</u>	
KUHIO HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063)	
Date: April 2023	
SHEET No. 1 OF 1 SHEETS	

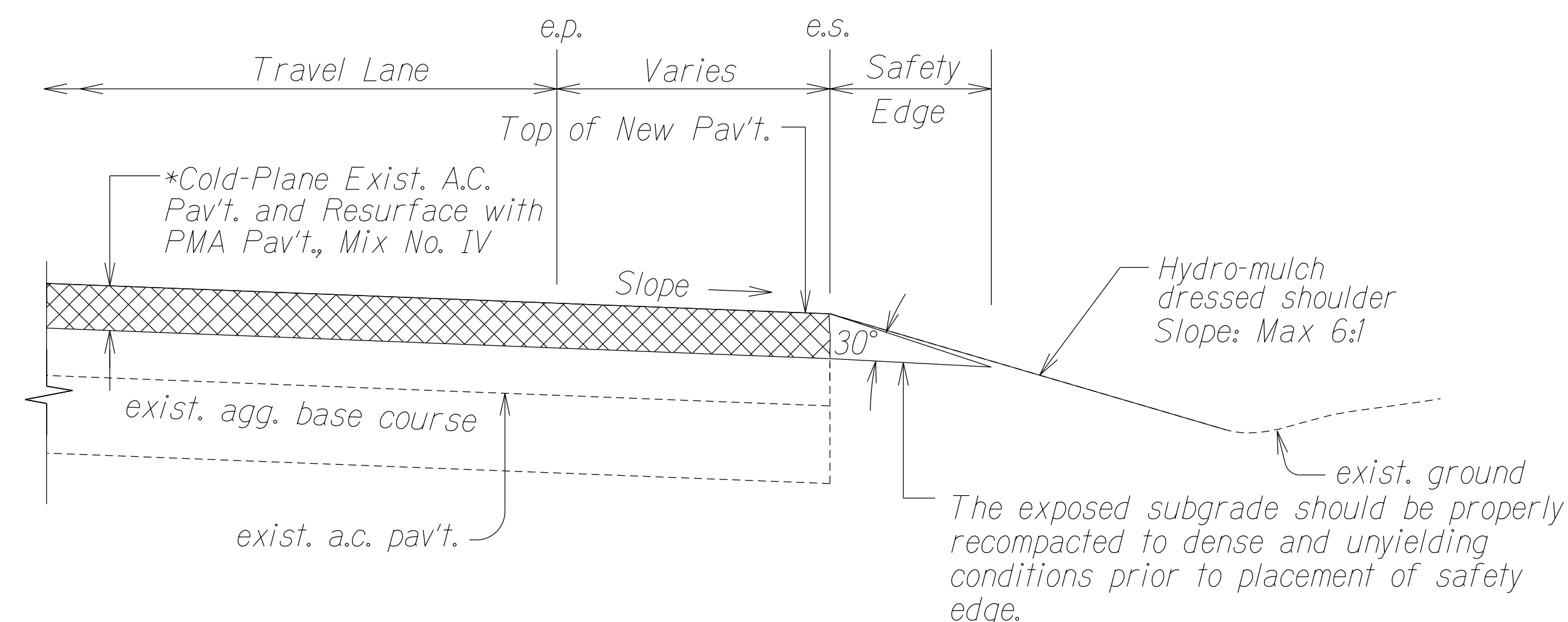
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.12	43



COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT
AT BEGINNING AND END OF PROJECT

Not to Scale

*Depths for Cold-Plane and Resurfacing vary depending on the Stationing:
 @ Sta. 550+80 to @ Sta. 568+25 shall be 3".
 @ Sta. 568+25 to @ Sta. 605+38 shall be 2".



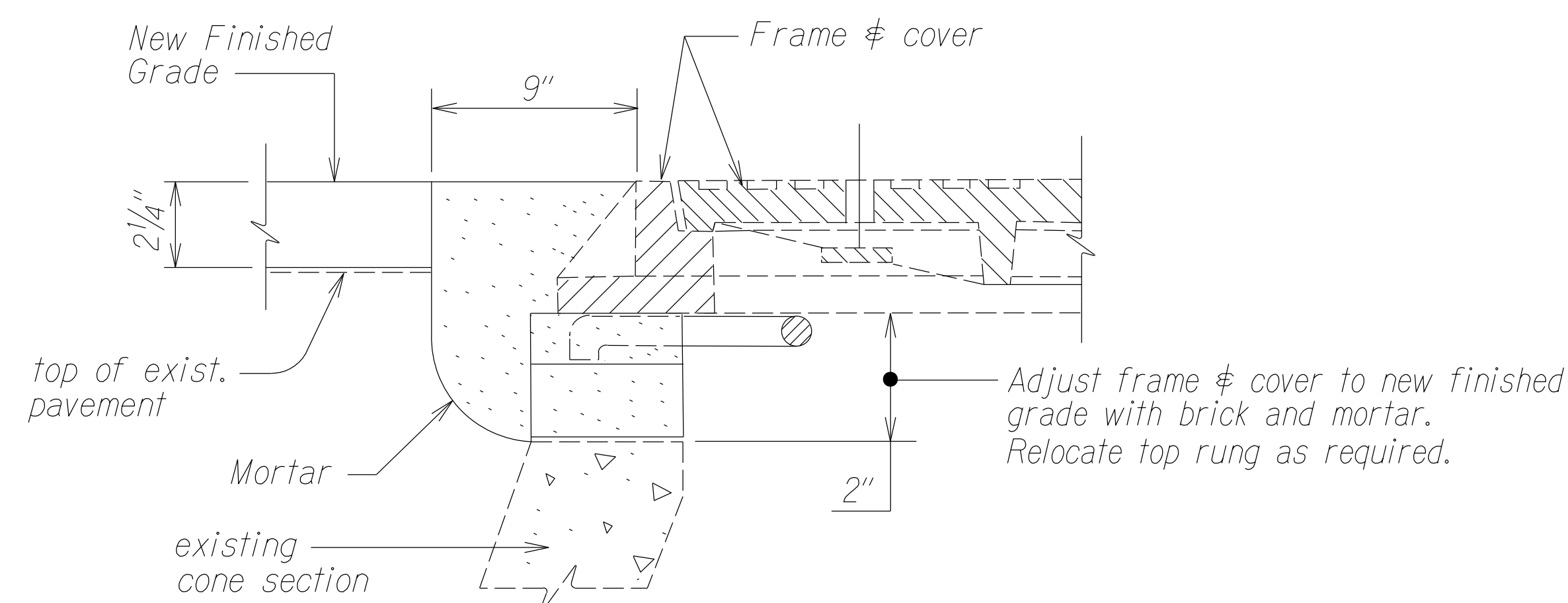
TYPICAL PAVEMENT EDGE DETAIL

Not to Scale

*Depths for Cold-Plane and Resurfacing vary depending on the Stationing:
 @ Sta. 550+80 to @ Sta. 568+25 shall be 3".
 @ Sta. 568+25 to @ Sta. 605+38 shall be 2".

Notes:

1. Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.
2. Construct safety edge at all edges of a.c. pavement. This work shall be considered incidental to Item No. 401.0410 - HMA Pavement Mix No. IV.



TYPICAL MANHOLE FRAME & COVER ADJUSTMENT

(WATER, SEWER, STORM DRAIN & UTILITY MANHOLES)

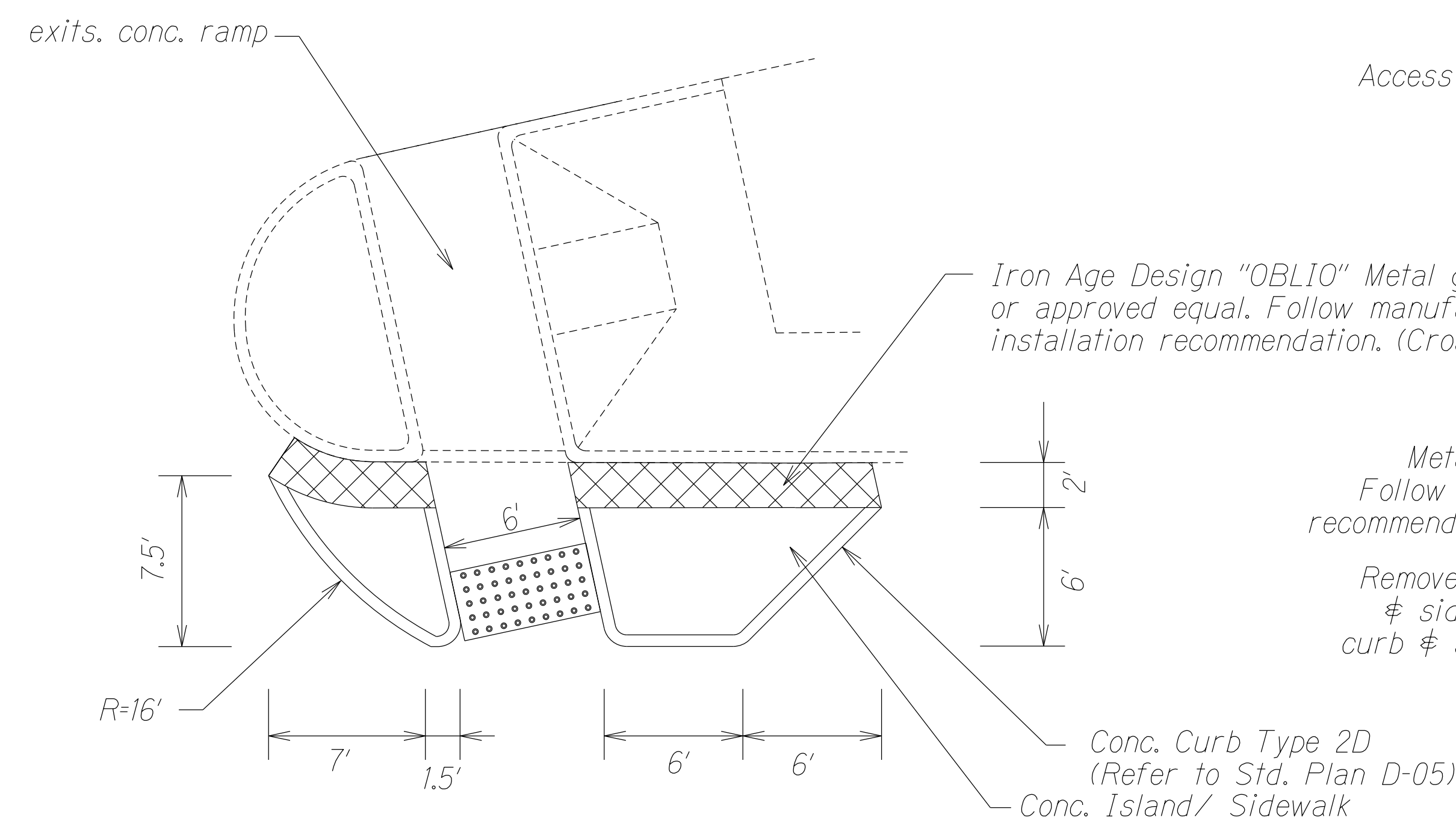
Not to Scale

NOTE: As an option, the Contractor may use an Adjus-to-Grade four-section extension ring with Safe-Tite seal, as manufactured by the National Utility Products Co. (NUPCO), or approved equal.

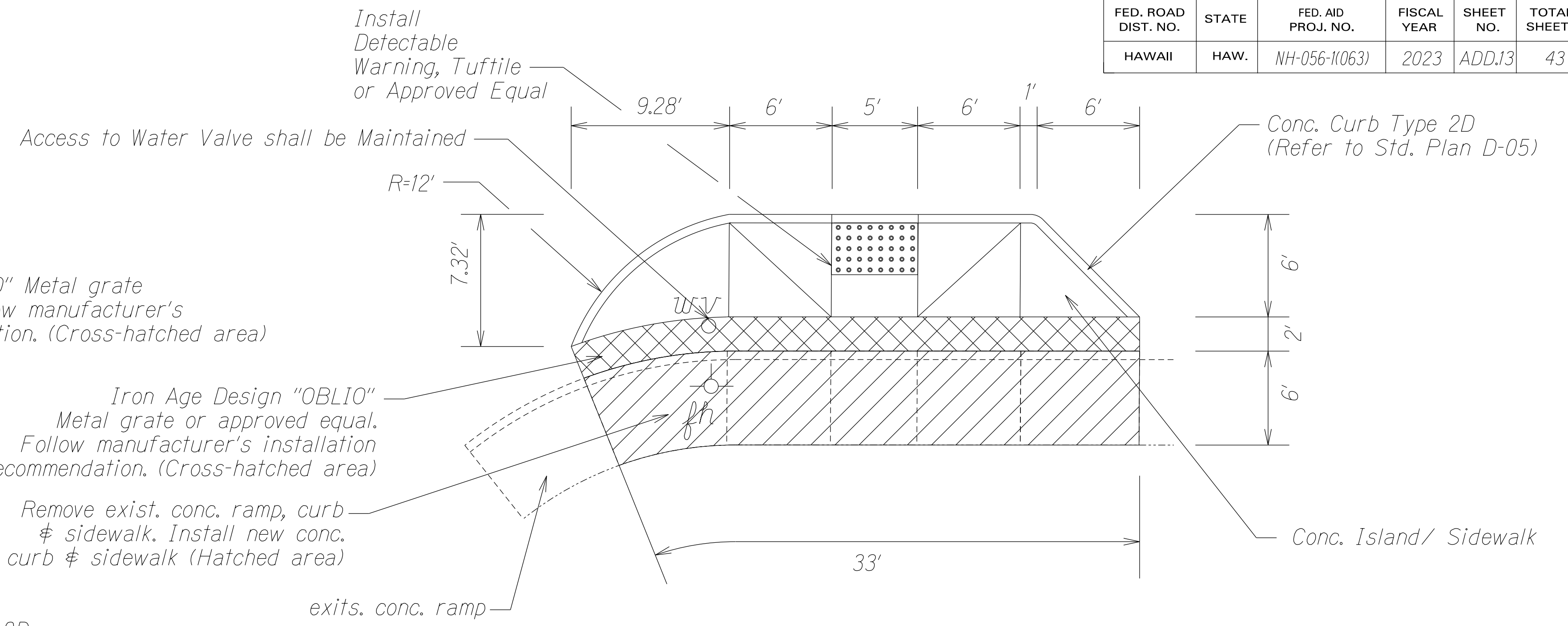
SURVEY PLOTTED BY	DATE
DRAWN BY	4/20/23
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
4/21/23	

4/21/23	△ - Revise Typical Pavement Edge Detail
4/21/23	△ - Additional Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>TYPICAL SECTIONS</u>	
KUHIO HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063)	
Scale: As Noted	Date: April, 2023
SHEET No. 5 OF 5 SHEETS	

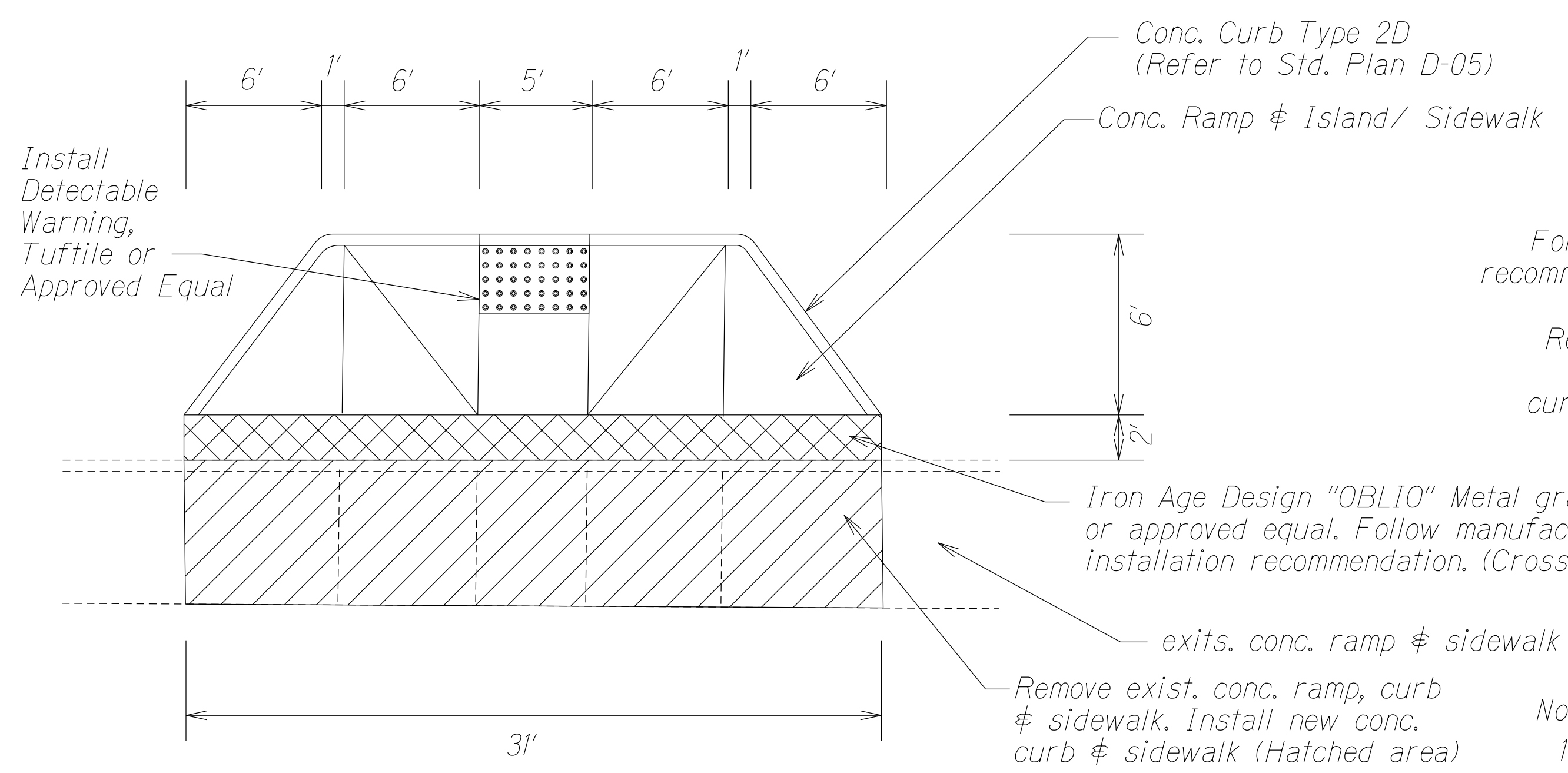
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.13	43



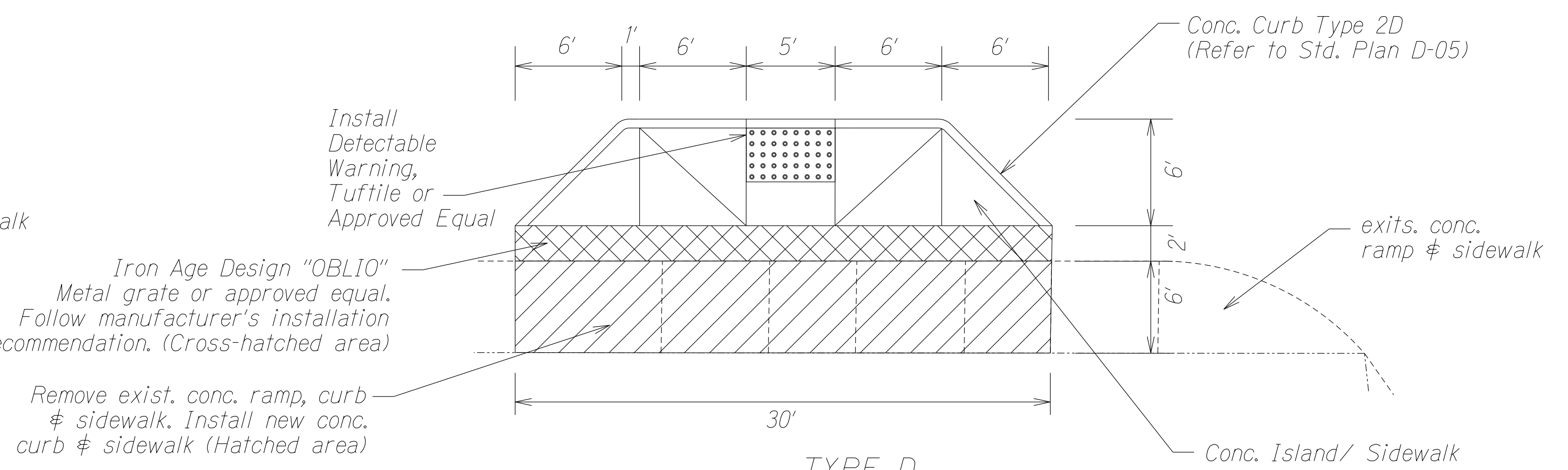
TYPE A
Not to Scale



TYPE C
Not to Scale



TYPE B
Not to Scale



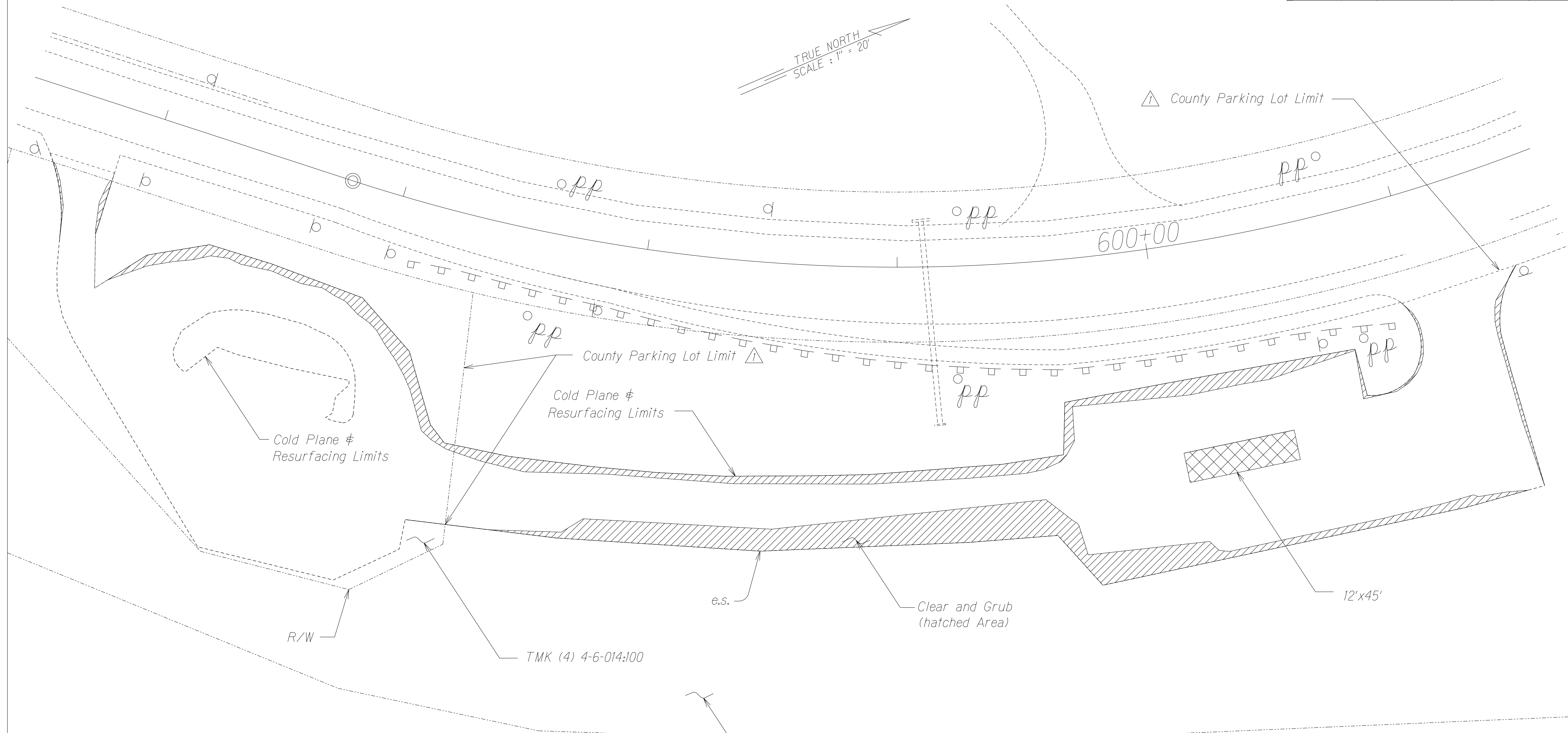
TYPE D
Not to Scale

- Notes:
- Additional details and notes on concrete island/sidewalk, refer to Std. Plan D-15.
 - Removal and disposal of existing concrete sidewalk curb and ramp shall be considered incidental to various contract items and will not be paid separately.
 - Metal Grate shall be cast grey iron, 100% recycled material, with a natural raw finish.
 - Finish grade at both ends of metal grate to flush with new or existing concrete.
 - Fabricate grates to comply with the ADA for maximum open size, offset of surfaces, and slip resistance. Grates shall have a minimum slip resistance (Pendulum Test Value) of 5.5 or better, per ASTM E303.
 - A. Maximum Space Between Adjacent Section: 1/4-inch
 - B. Maximum Variation from Top Surface Plane of Adjacent Sections: 1/8-inch

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____

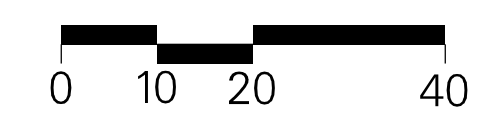
4/21/23	△ - Revise Type A Detail
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MISCELLANEOUS DETAIL	
<u>KUHIO HIGHWAY RESURFACING</u> Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063)	
Scale: As Shown	Date: April 2023
SHEET No. 1 OF 2 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-110631	2023	ADD.20	43



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	NOTED BY	
QUANTITIES BY	CHECKED BY	

4/25/23	△ - Revision to Callouts
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLAN	
KUHIO HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-110631	
Scale: 1" = 20'	Date: Mar. 2023
SHEET No. 6 OF 6 SHEETS	



ADD.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.23	43



A. STANDARD SPECIFICATIONS AND PLANS:

- Hawaii Department of Transportation (HDOT), Hawaii Standard Specifications for Road and Bridge Construction, 2005.
- HDOT Highways Division Design Branch - Standard Plans Dated 2008.

B. DESIGN SPECIFICATIONS

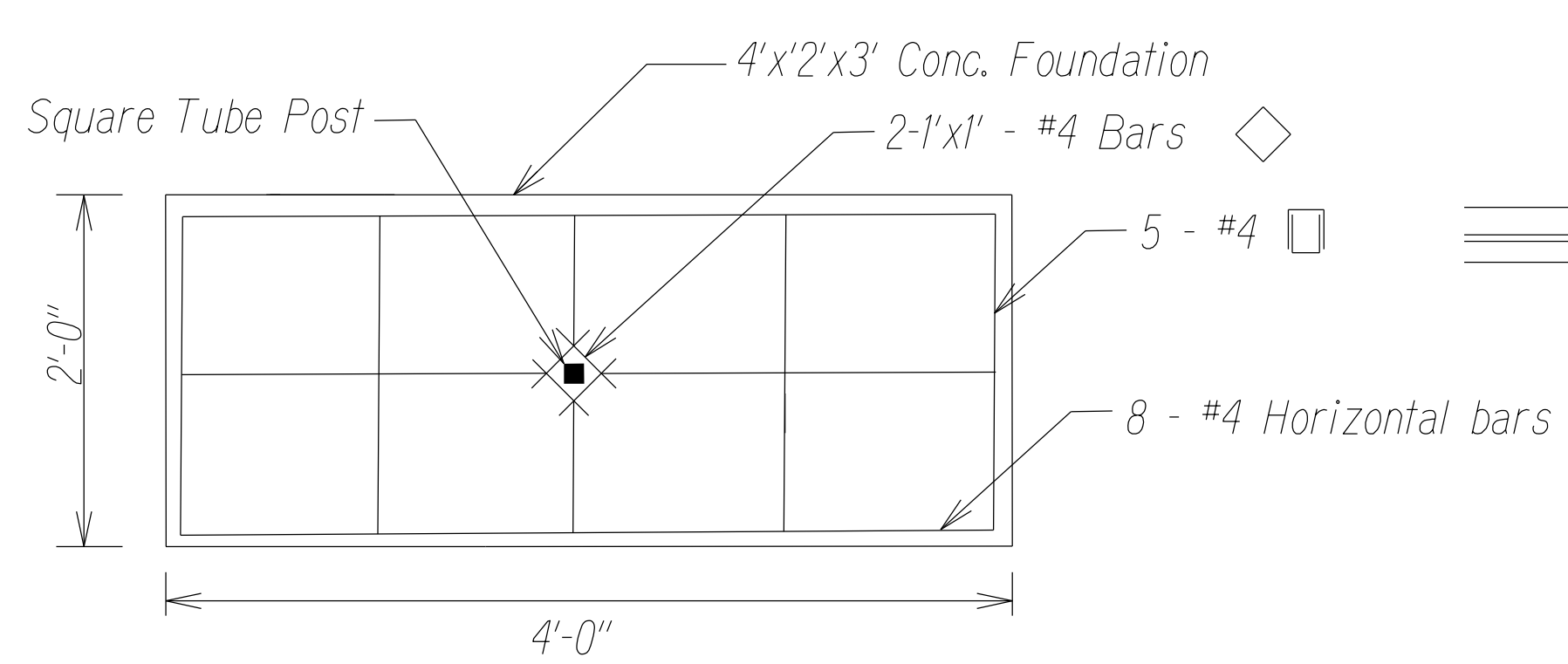
- American Association of State Highway and Transportation Officials (AASHTO) 2020 "LRFD Bridge Design Specifications" 9th Edition as amended by HDOT document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures".
- AASHTO LRFD Specifications for Structural Support for Highways Signs, Luminaires, and Traffic Signals, 1st Edition, including the 2017 interim Revisions.
- HDOT document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures" and HDOT memorandum dated January 8, 2018 with subject title "Changes to Design Criteria for Bridges and Structures".

- Contractor Shall Provide An On-Board User Interface (OBUI) To Locally Troubleshoot Or Reprogram the RRFB System.
- All existing RRFB Assemblies to be replaced shall be returned to the State.
- Concrete foundation shall be 4000 psi and a maximum water cement ratio of 0.45.
- Furnishing and installation of Solar Panel, Square Tube Post, Traffic Signs, RRFB, ADA compliant push button and other hardwares shall be considered incidental to Item No. 631.0500 - RRFB Assembly and will not be paid separately.
- Excavation, backfilling and construction of concrete foundation shall be considered incidental to Item No. 631.0500 - RRFB assembly and will not be paid separately.
- Contractor shall provide shop drawings of RRFB Assembly including structural calculations that are stamped by a licensed Structural Engineer for review and approval by the Engineer. This work shall be considered incidental to Item No. 631.0500 - RRFB Assembly and will not be paid separately.
- RRFB system shall be "Camarah R920-E" or approved equal.

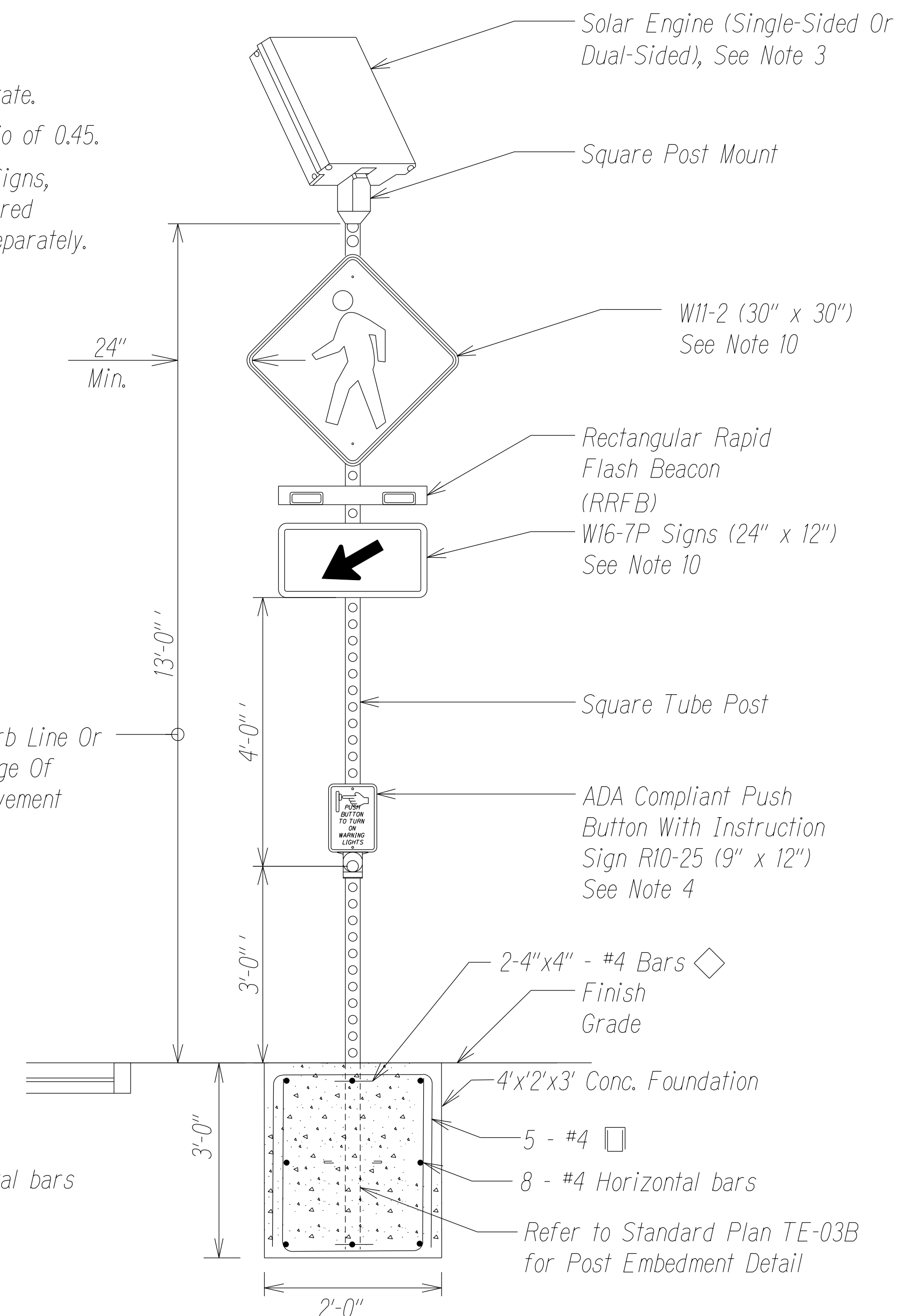
NOTES:

- The Locations of The New Traffic Signal Standards with Rectangular Rapid Flashing Beacons (RRFB) And Pedestrian Push Buttons shall be staked out in the filed by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
- RRFB System Shall Conform To The Requirements Of The 2009 Edition Of The "Manual On Uniform Traffic Control Devices," Federal Highway Administration. The System Shall Conform To All Provisions Of The MUTCD, Interim Approval IA-21.
- RRFB System Shall Be Solar-Powered With Spread Spectrum Wireless Communication. Solar Engine Shall Be Sized With Minimal Dimensions To Provide Sufficient Power Output To Operate the RRFB System.
- Each Pushbutton Shall Be Installed With An Instruction Sign R10-25 (9" x 12") That Reads, "Push Button To Turn On Warning Lights". See Sht. TS-4 For More Details.
- RRFB Controller Equipment Shall Be Completely Self-Contained With No Connection To External Power Necessary.
- The W16-7P Plaque And The Rapid-Flash LED Enclosure Shall Not Extend More Than 4" Horizontally Over Any Pedestrian Facility.
- Contractor Shall Install Signs And Posts And Rectangular Rapid Flash Beacon And Push Button, Per The Manufacturer's Specifications.
- Contractor Shall Submit Product Data For Review And Approval By The Engineer Prior To Purchasing And Installation.
- The RRFB Installation Shall Comply With The Technical Conditions As Provided In The FHWA Technical Memorandum Regarding The Interim Approval For Optional Use Of Rectangular Rapid Flash Beacon.
- Each Crossing Where There Is No Median Shall Have A Minimum Of Two Poles Each With Push Button Detection. Each Pole Shall Have Signs And Beacons Facing Both Sides (Double-Sided). At Locations With A Median, Provide Two Poles With Single-Sided Sign And Beacon And Provide A Third Pole In The Median With Double -Sided Signs And Beacons.
- W11-2 Warning Signs And Supplemental Plaques W16-7P Shall Have A Fluorescent Yellow-Green Background With A Black Legend And Border. The Mixing Of Standard Yellow And Fluorescent Yellow-Green Backgrounds Is Not Allowed.

Location	Height
①	20'-0"
②	20'-0"
③	20'-0"
④	15'-0"



PLAN
Not To Scale



ELEVATION
Not To Scale

RECTANGULAR RAPID FLASHING BEACON
Not To Scale

DATE	BY
DESIGNED BY	BY
CHECKED BY	BY
QUANTITIES BY	BY
NOTED BY	BY
APPROVED BY	BY

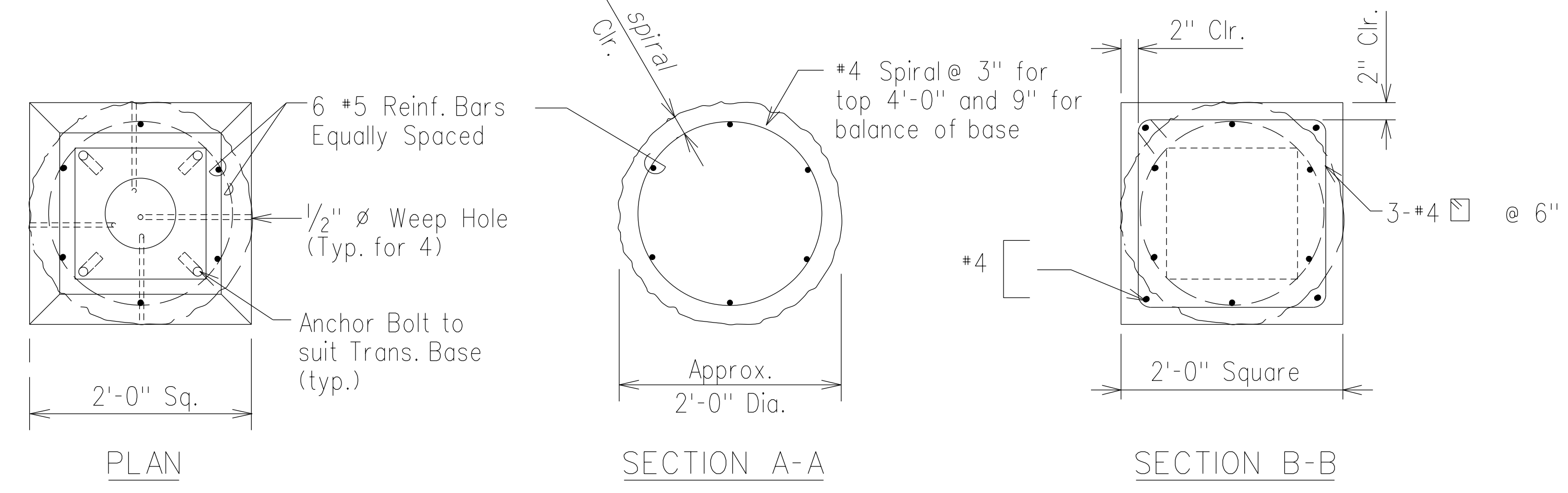
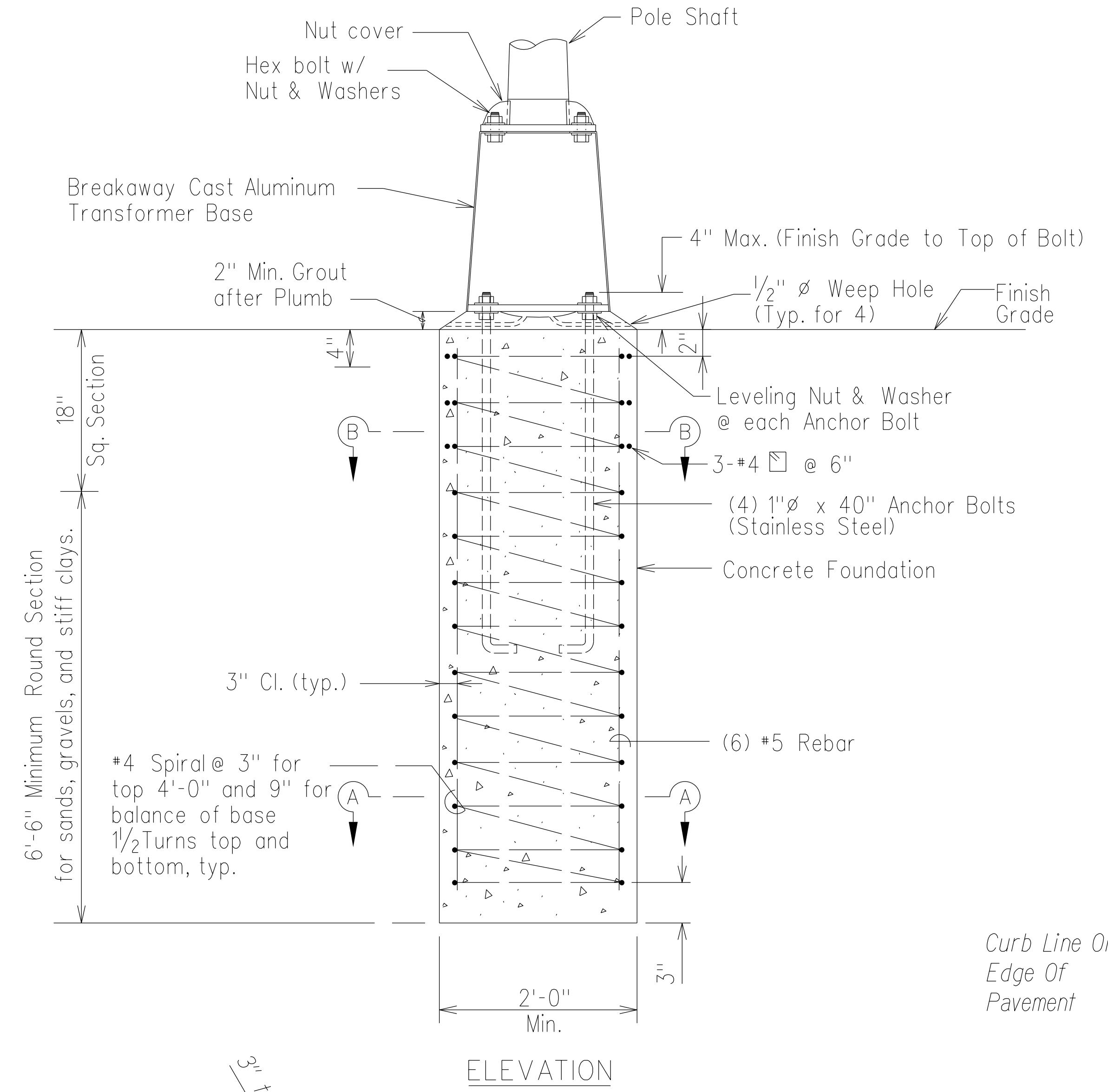
4/21/23	△ - Revise Rectangular Rapid Flashing Beacon Details and Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PAVEMENT MARKING LEGEND, DETAILS, NOTES & SUMMARY	
KUHIO HIGHWAY RESURFACING Waikaea Bridge to Maillihuna Road Federal-Aid Project No. NH-056-1(063)	
Date: April 2023	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.23S1	43

CONT. FROM PLAN SHEET. NO. AAD 23 NOTES:

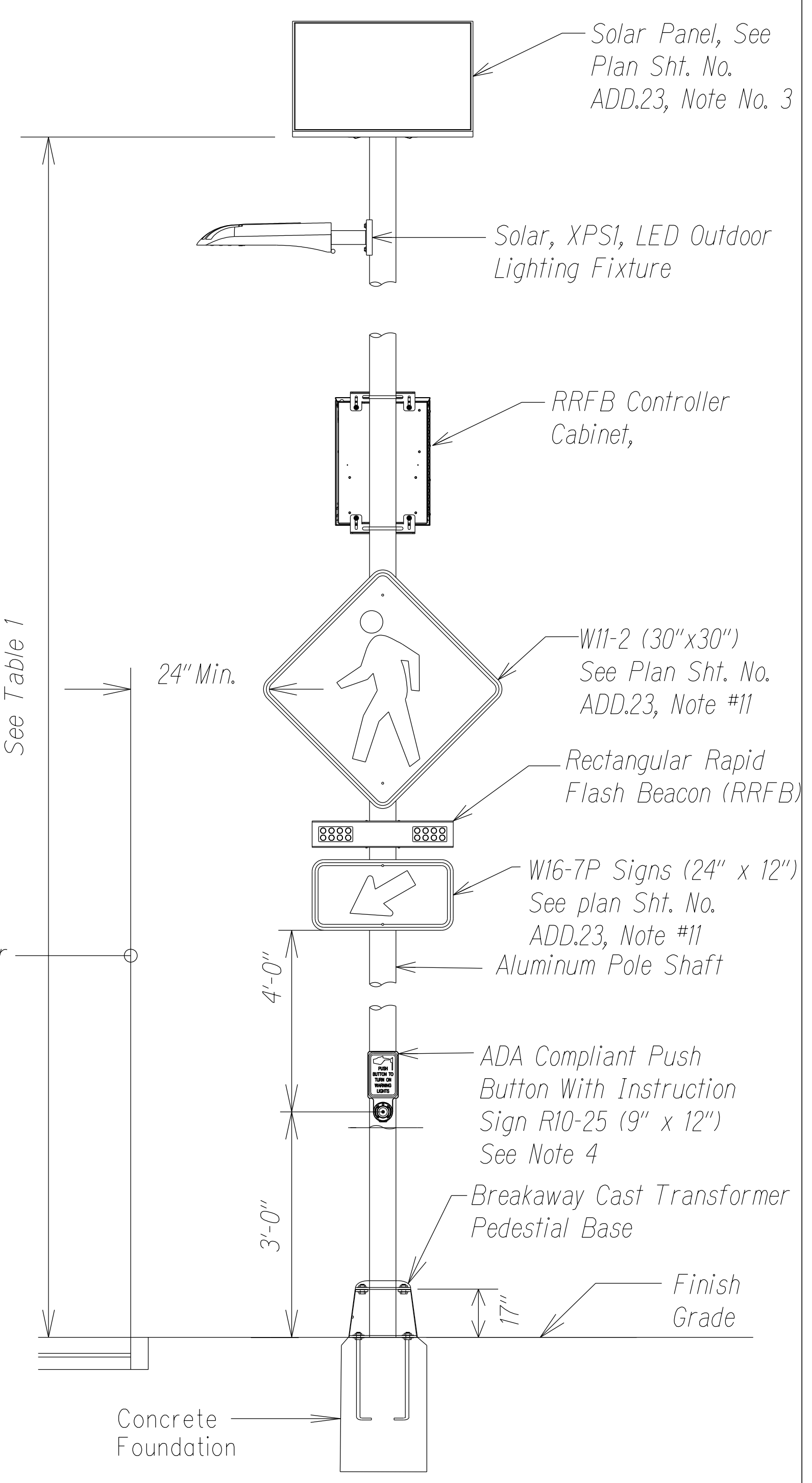
18. Furnishing and installation of Solar panel, Aluminum Pole, Traffic Signs, RRFB, RRFB Controller Cabinet, Solar LED Outdoor Lighting Fixture, ADA compliant push button, Brakeaway Cast Aluminum Transformer Base, Anchor Bolts and other hardware shall be considered incidental to Item No. 631.0510 - RRFB with Overhead Light Assembly and will not be paid separately.
19. Contractor shall provide shop drawings of RRFB with Overhead Light Assembly including structural calculations that are stamped by a licensed Structural Engineer for review and approval by the Engineer. This work shall be considered incidental to Item No. 631.0500 - RRFB with Overhead Light Assembly and will not be paid separately.
20. RRFB with overhead lighting systems shall be "Camarah SC315-G with 50 W solar panel and 35 Ah battery (with Overhead lighting)" or approved equal.
21. Furnishing and construction of RRFB with Overhead Light Assembly concrete foundation shall be paid under Item No. 511.631.0500 - RRFB with Overhead Light Assembly and will not be paid separately.
22. Refer to State Standard Specifications Section 511 for drilled shaft concrete properties.
23. Construction of concrete foundation shall be paid under Item No. 511.0100 - Furnishing Drilled Shaft drilling Equipment, Item No. 511.0200 - Drilled Shaft, and Item No. 511.0300 - Standard Excavation.
24. See Standard Plans TE-B01 for additional notes.

Location	Height
①	20'-0"
②	20'-0"
③	20'-0"
④	15'-0"



TYPICAL CONCRETE FOUNDATION AND TRANSFORMER BASE DETAIL
Not To Scale

RECTANGULAR RAPID FLASHING BEACON WITH OVERHEAD LIGHT
Not To Scale



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING LEGEND,
DETAILS, NOTES & SUMMARY**

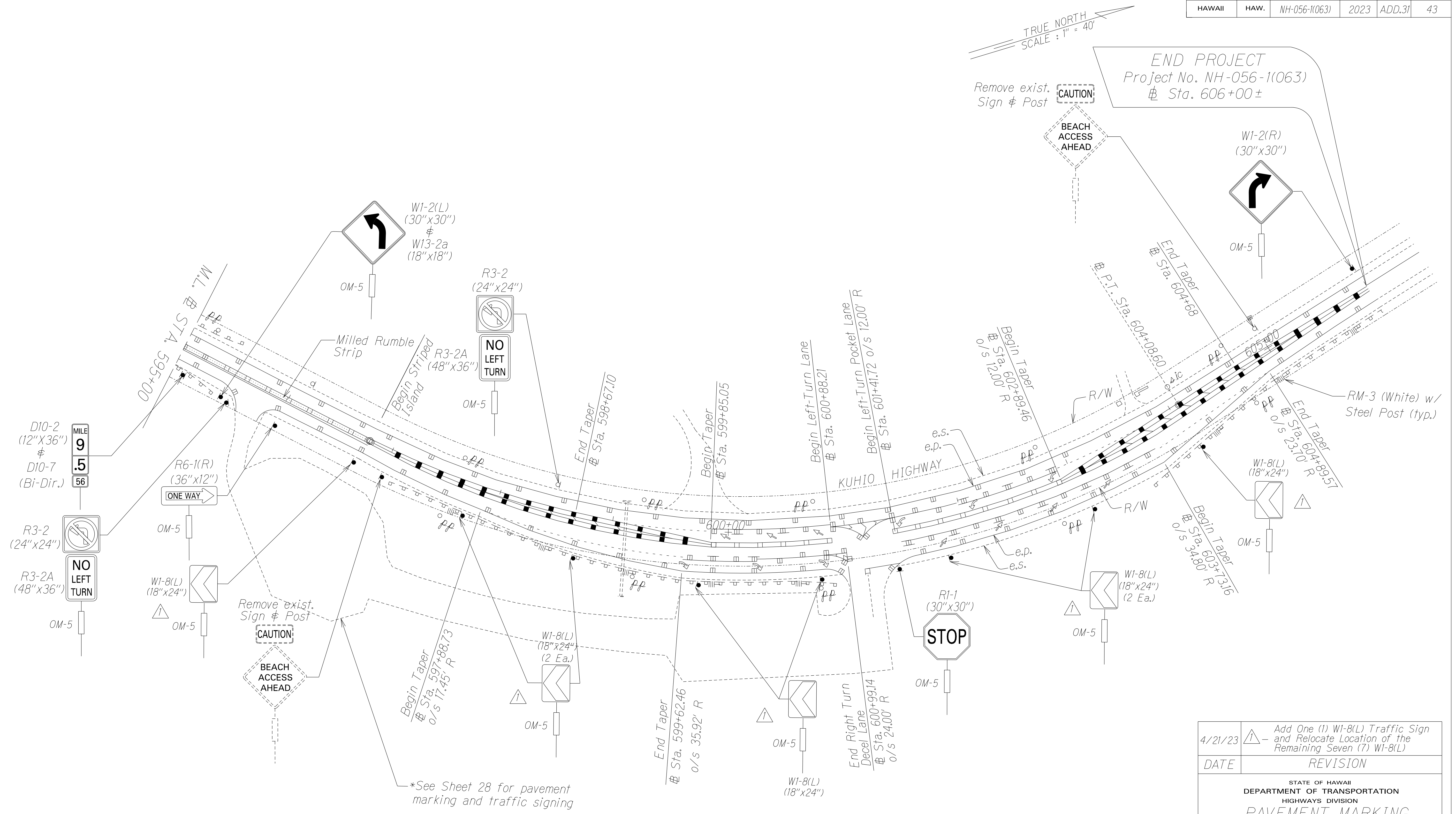
KUHIO HIGHWAY RESURFACING
Waikaea Bridge to Maillihuna Road
Federal-Aid Project No. NH-056-1(063)
Date: April 2023

SURVEY PLOTTED BY _____
 DRAWN BY _____
 DESIGNED BY _____
 QUANTITIES BY _____
 CHECKED BY _____
 DATE _____
 ORIGINAL PLAN _____
 NOTE BOOK _____
 4/11/2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.31	43

TRUE NORTH
SCALE : 1" = 40'

END PROJECT
Project No. NH-056-1(063)
Sta. 606+00±

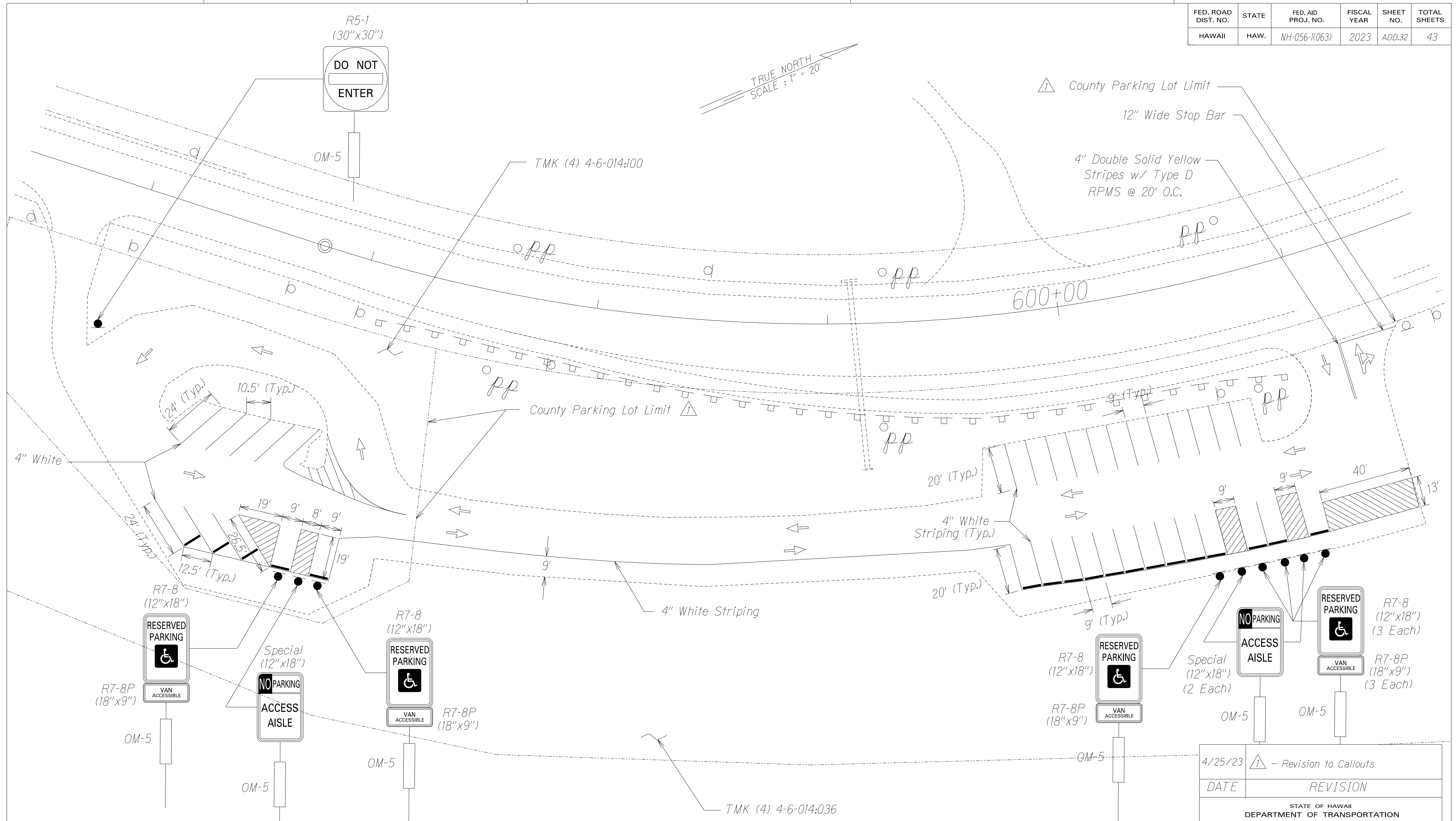


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

4/21/23	△ - Add One (1) W1-8(L) Traffic Sign and Relocate Location of the Remaining Seven (7) W1-8(L)
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PAVEMENT MARKING & TRAFFIC SIGNING PLAN <u>KUHIO HIGHWAY RESURFACING</u> <u>Waikaea Bridge to Mailihuna Road</u> <u>Federal-Aid Project No. NH-056-1(063)</u> Scale: 1" = 40' Date: April 2023	
SHEET No. 5 OF 6 SHEETS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-110631	2023	ADD.32	43



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____

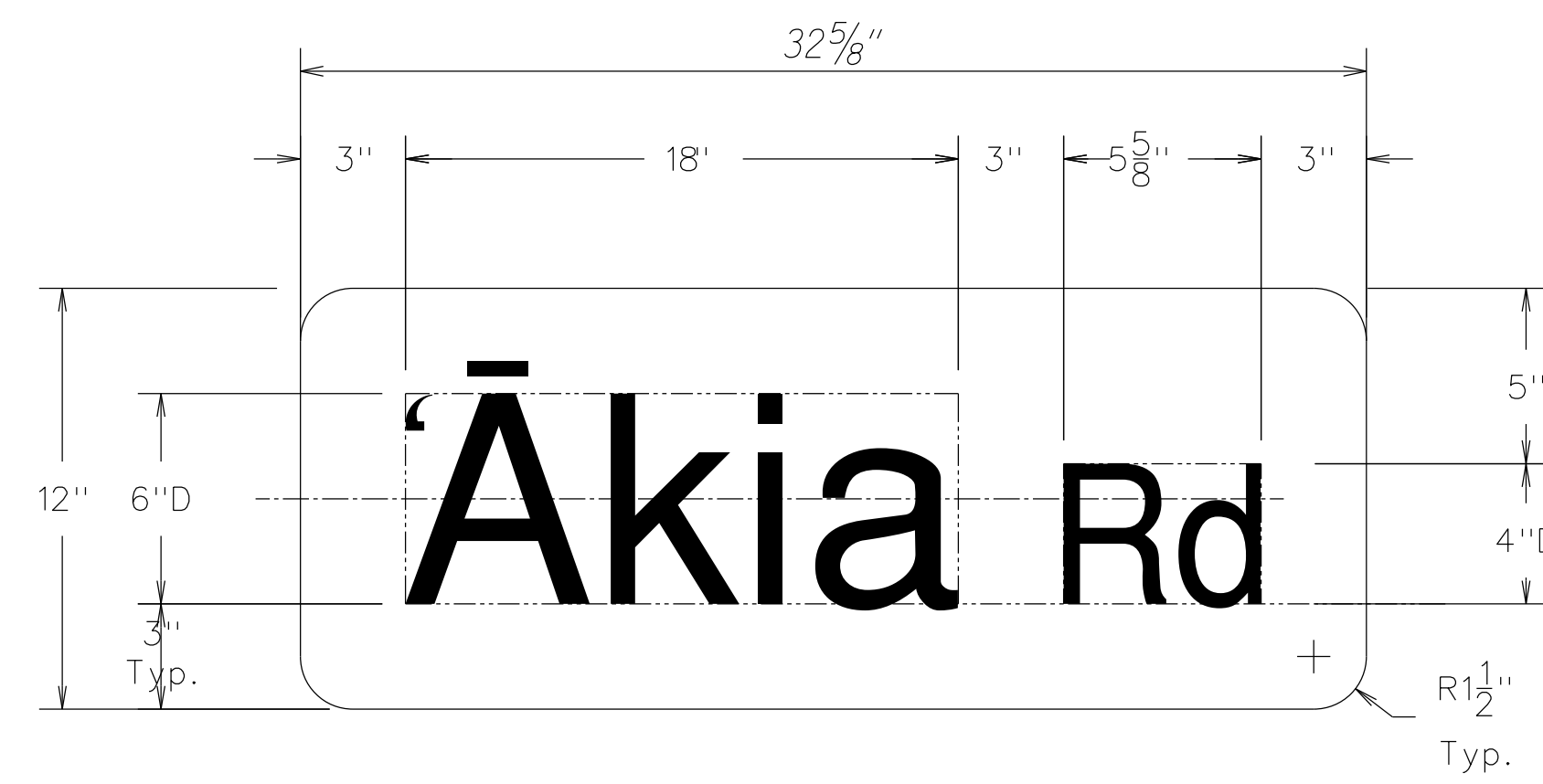
NOTES:

1. Access aisles shall be at the same level as the parking spaces they serve.
2. Access aisle grades shall not exceed 2% slope in all directions.

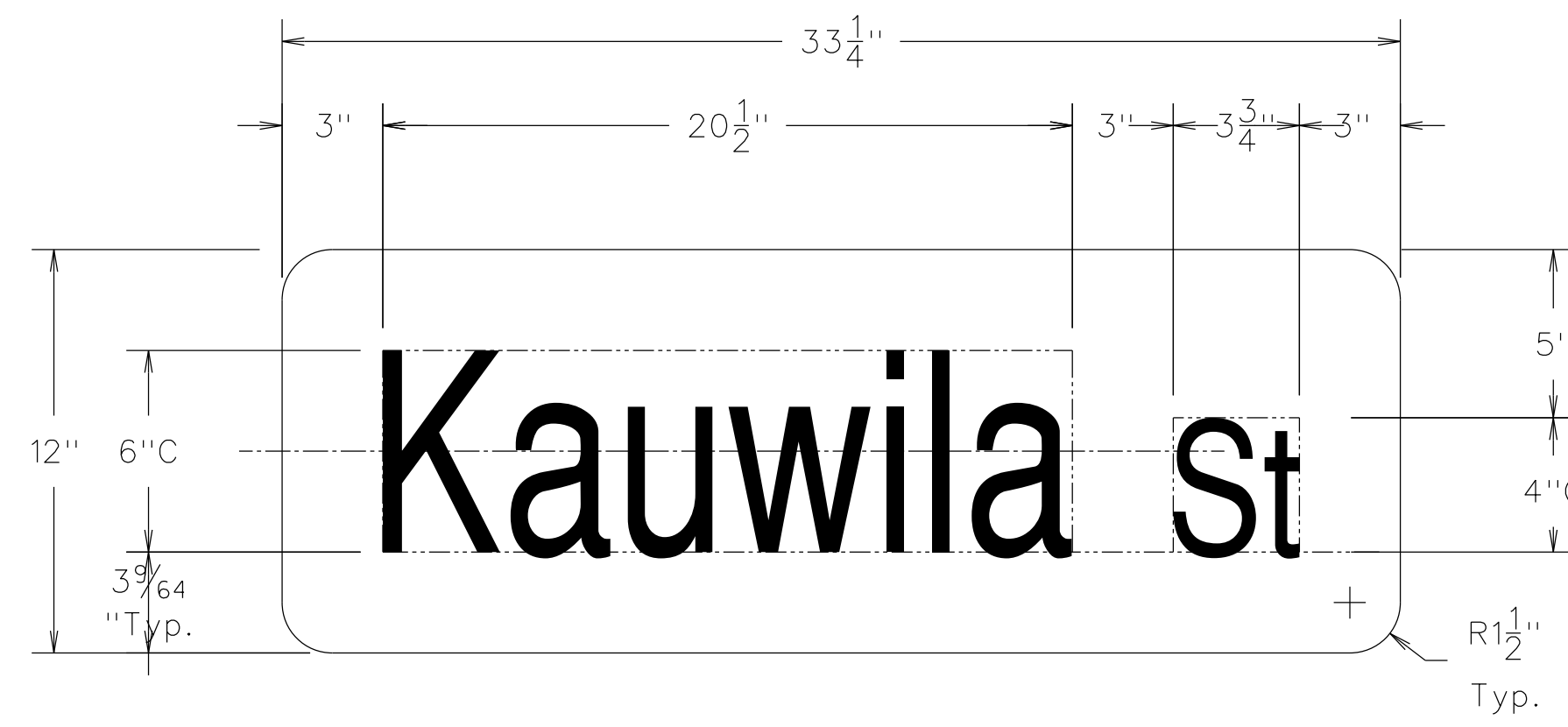
4/25/23	△ - Revision to Callouts
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PAVEMENT MARKING & TRAFFIC SIGNING PLAN <u>KUHIO HIGHWAY RESURFACING</u> <u>Waikaea Bridge to Mailihuna Road</u> <u>Federal-Aid Project No. NH-056-110631</u> Scale: 1" = 20' Date: Mar. 2023	
SHEET No. 6 OF 6 SHEETS	



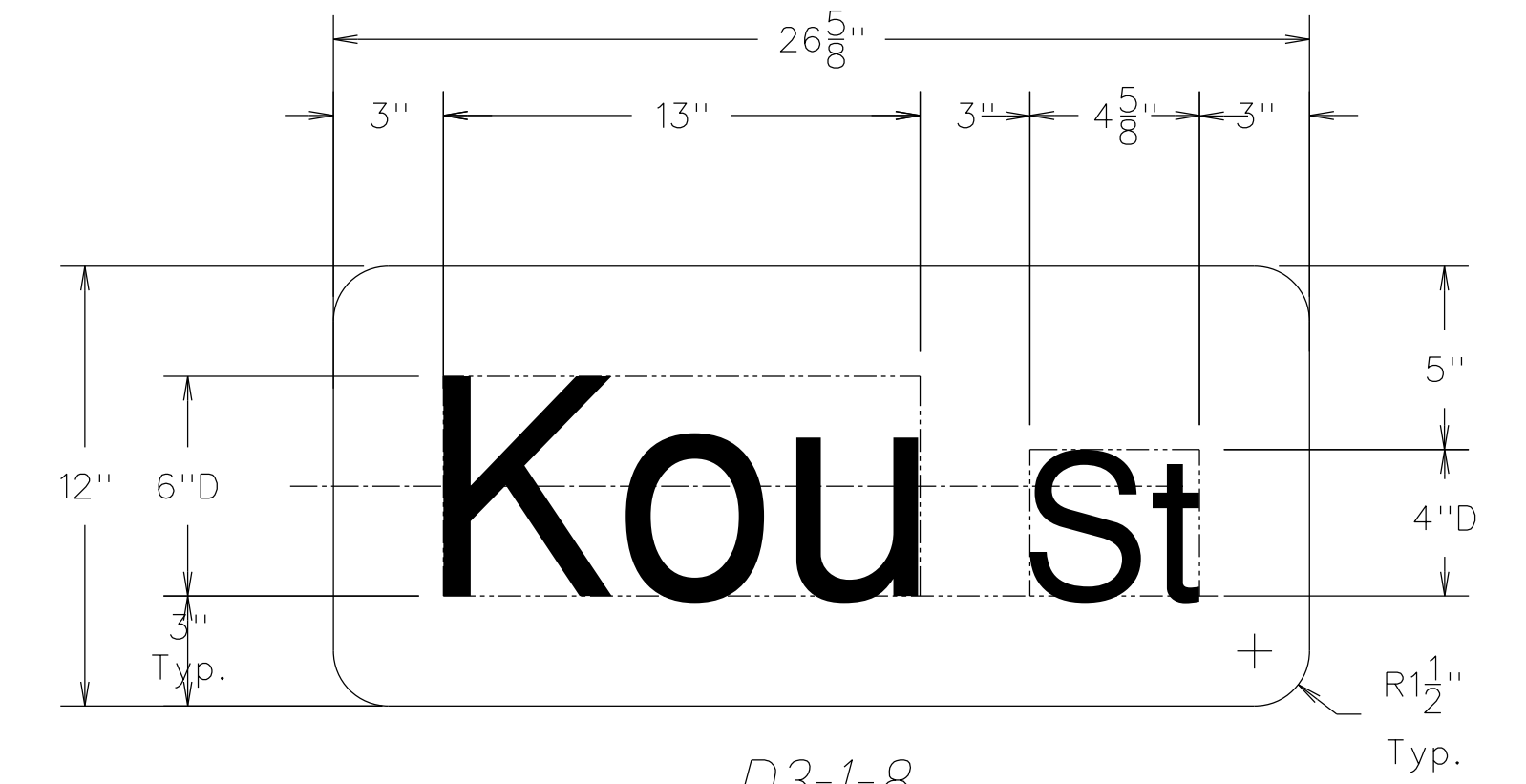
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.34	43



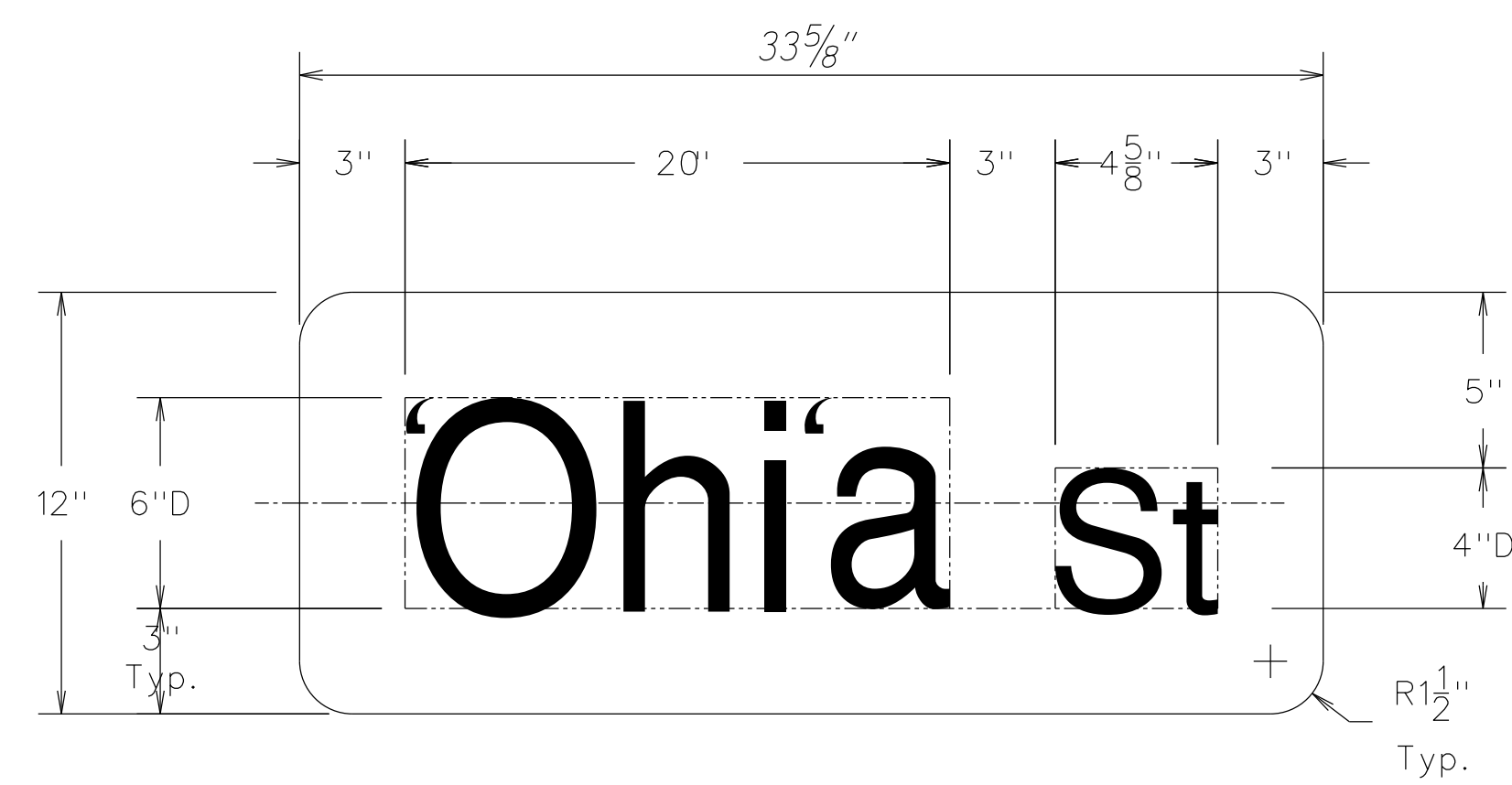
D3-1-1
Not to Scale



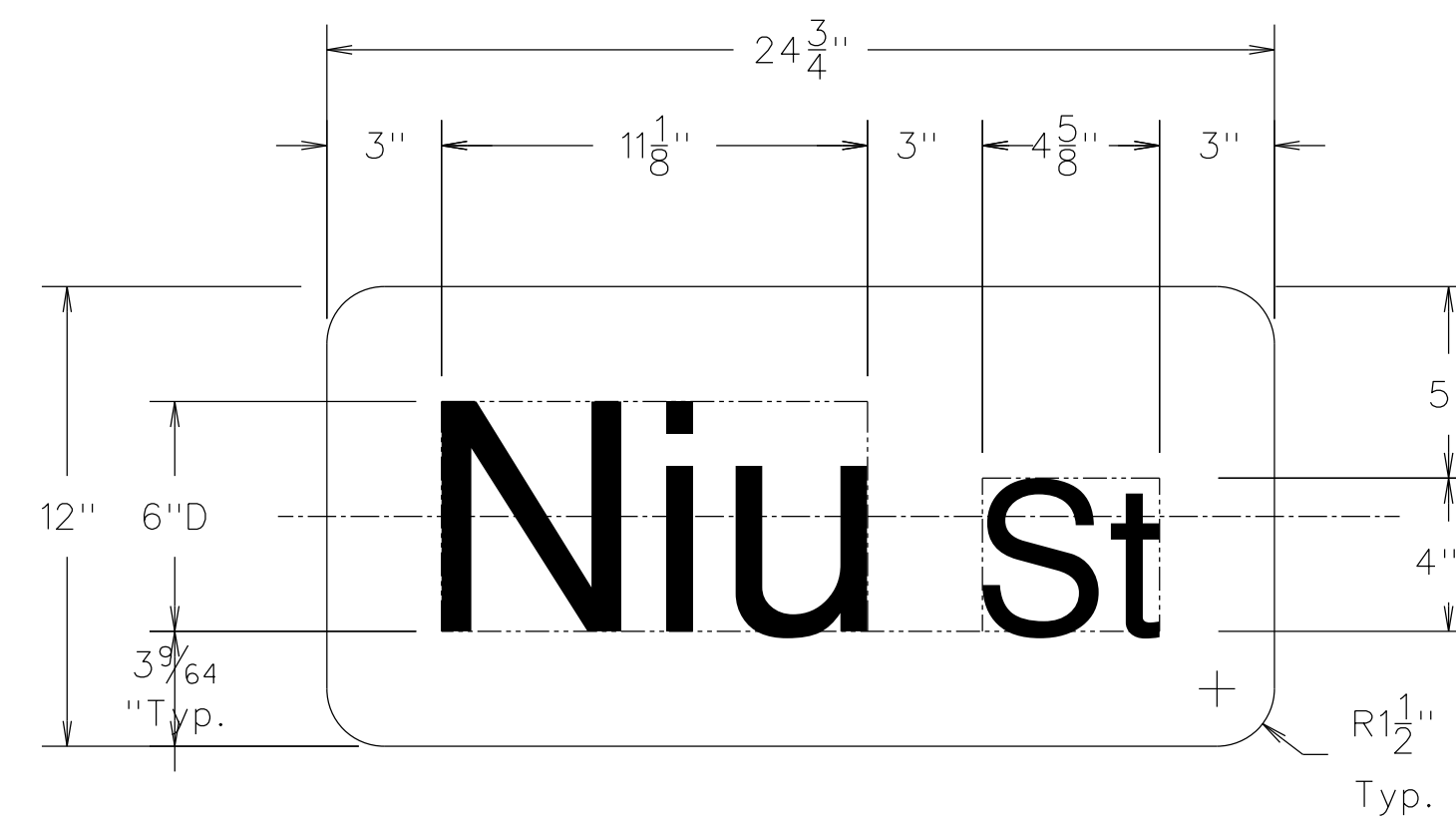
D3-1-5
Not to Scale



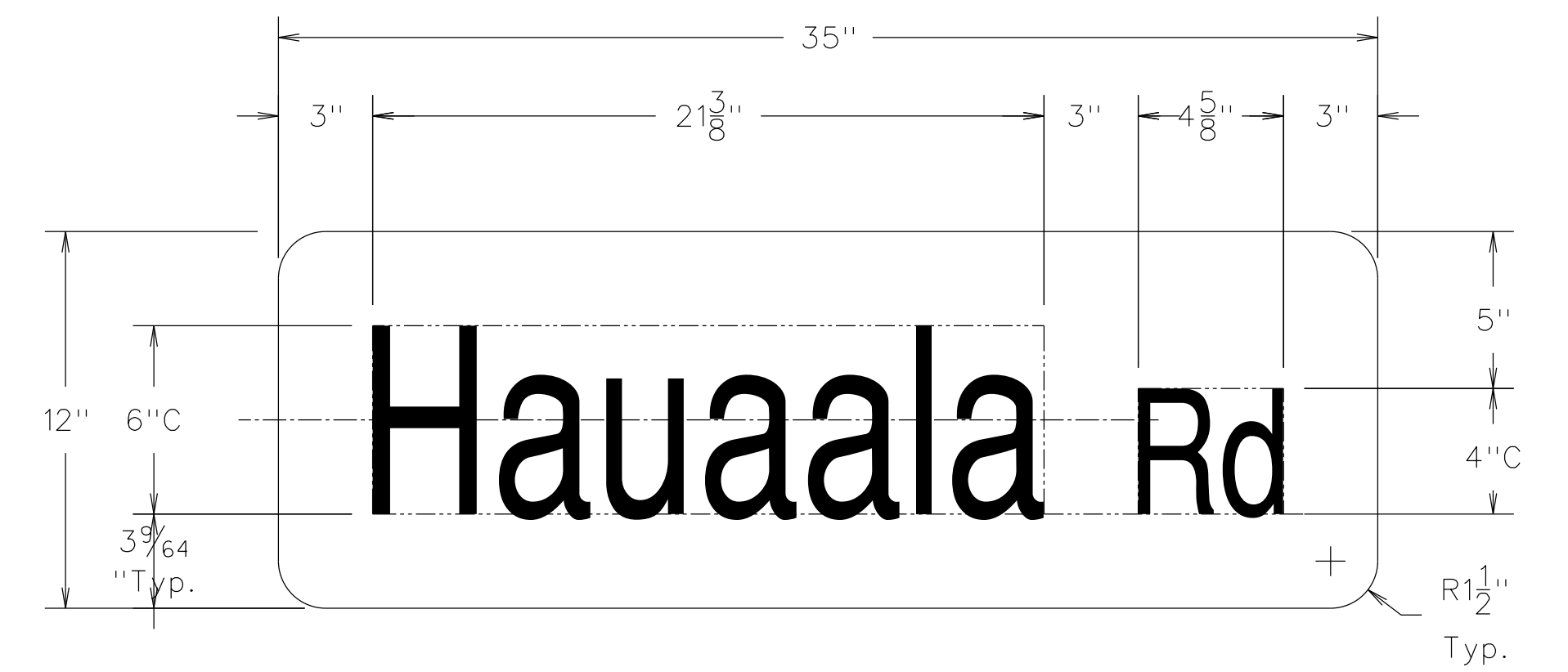
D3-1-8
Not to Scale



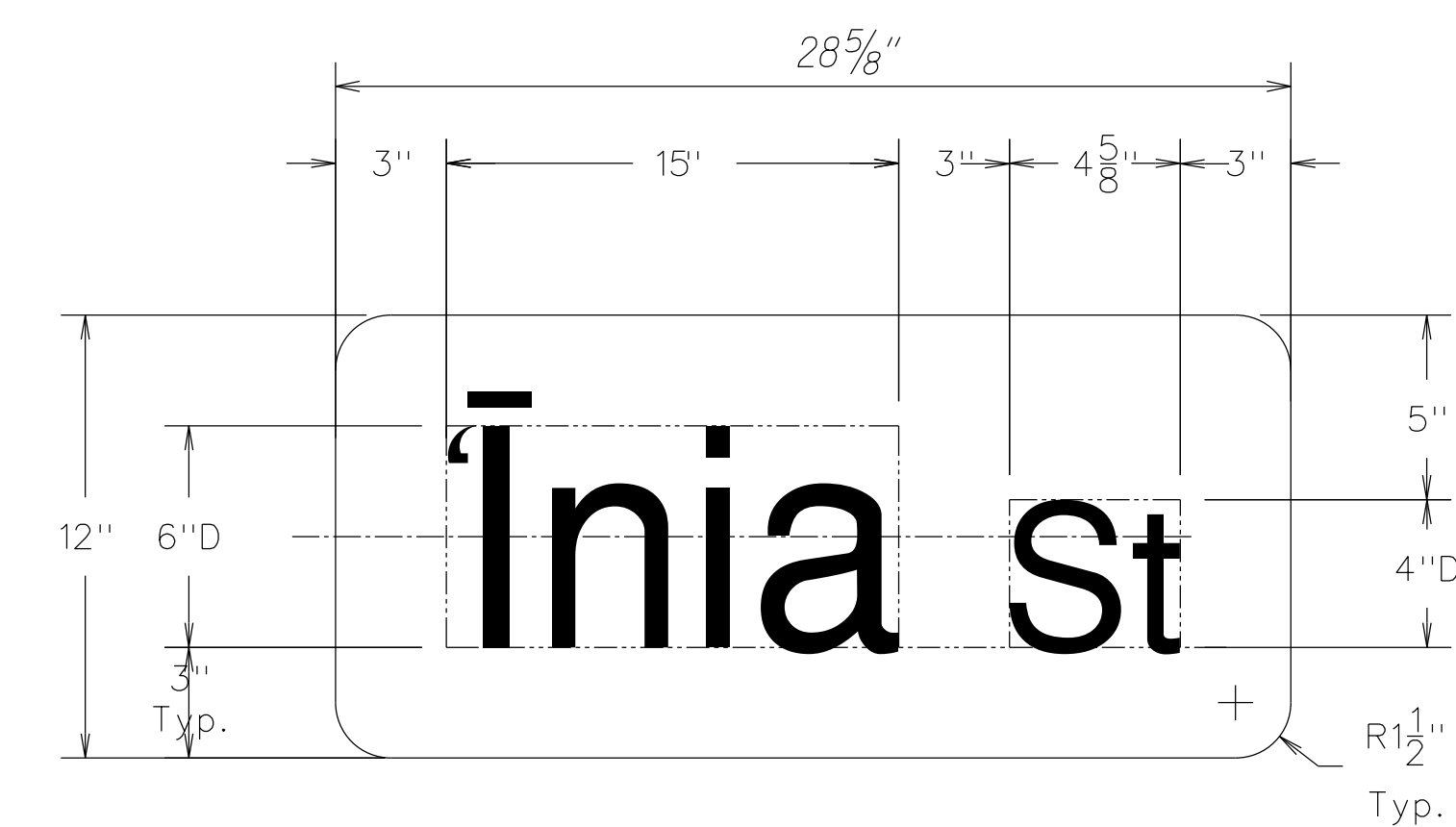
D3-1-2
Not to Scale



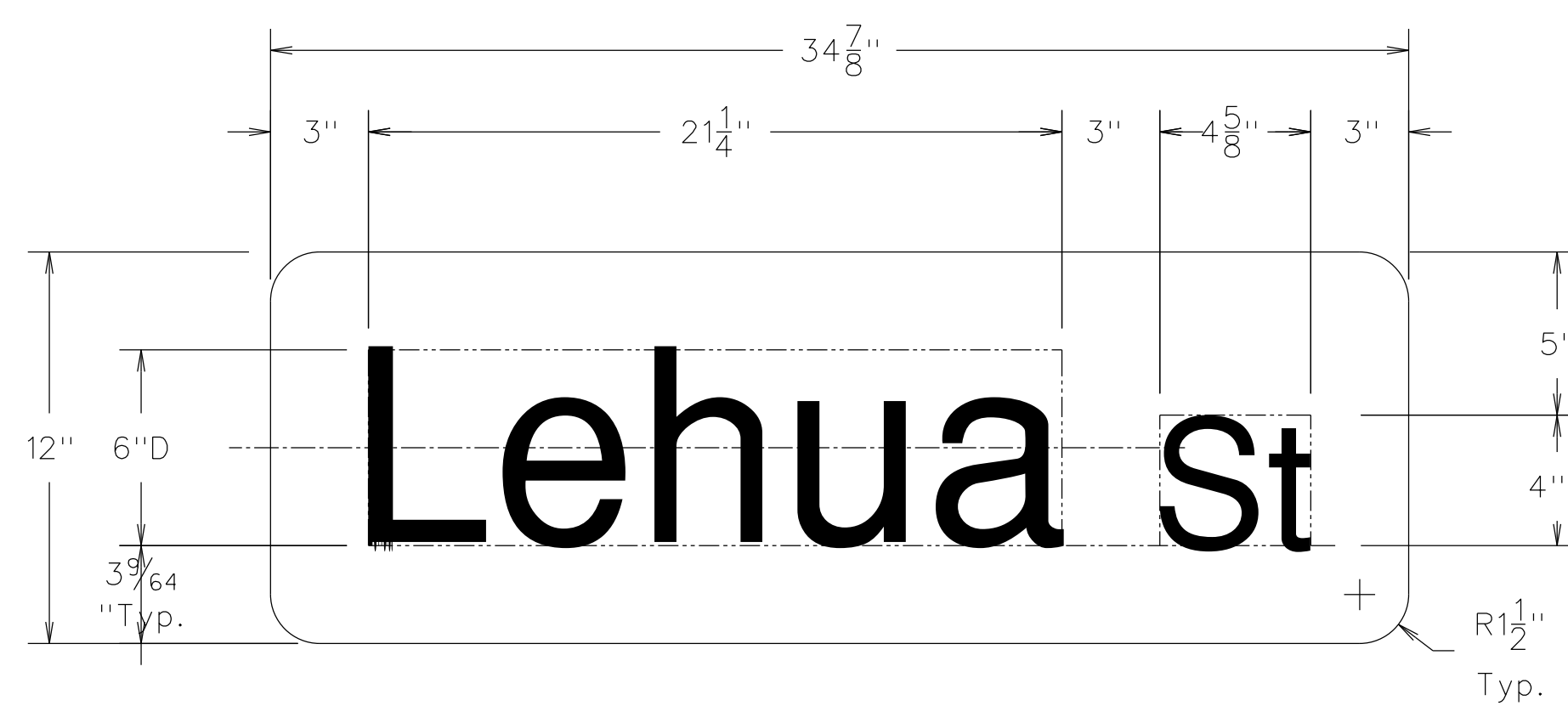
D3-1-6
Not to Scale



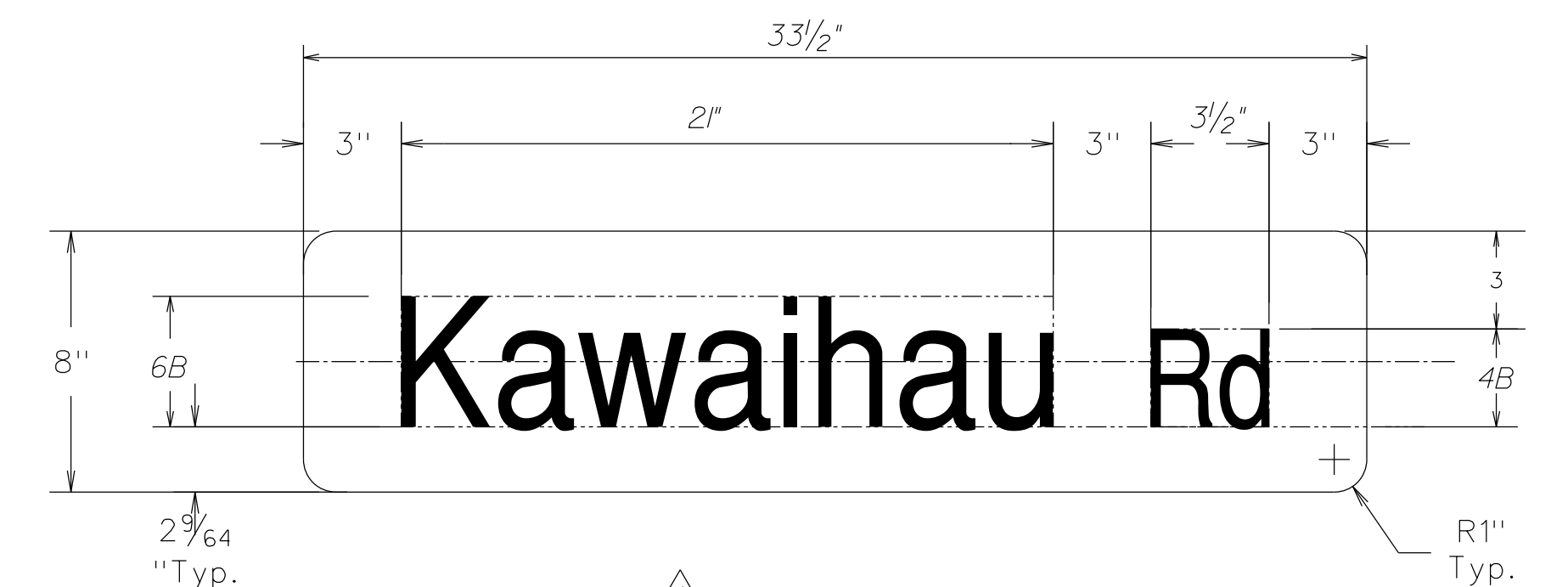
D3-1-9
Not to Scale



D3-1-4
Not to Scale



D3-1-7
Not to Scale



△ D3-1-10
Not to Scale

STREET NAME SIGN
Not to Scale

Lettering — White
Background — Green

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
4/21/23	
N.	

4/21/23	△ - Revise D3-1-10
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>SIGN DETAIL</u>	
KUHIU HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063)	
Scale: As Noted	Date: April 2023
SHEET No. 1 OF 4 SHEETS	

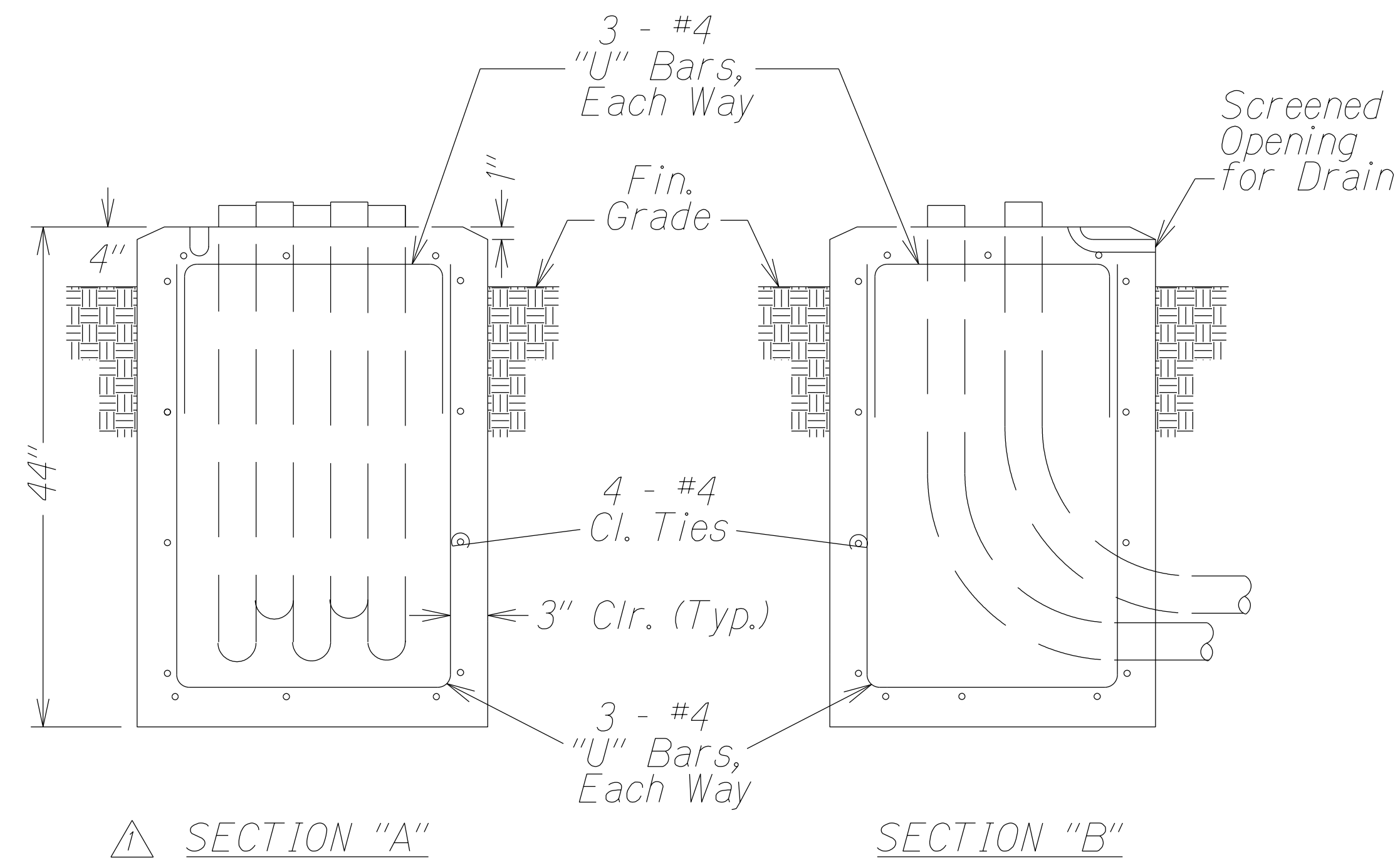
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.41	43

CONCRETE BASE NOTES:

1. Concrete shall be Class "B".
2. Conduit orientation and details are shown on Layout Plan.
3. Conduits shall have belled ends extending no more than 2" above the Base.
4. Conduit bends and drain are incidental to the Concrete Base.
5. All exposed surfaces of the Concrete Base shall have a Class 2, rubbed finish.

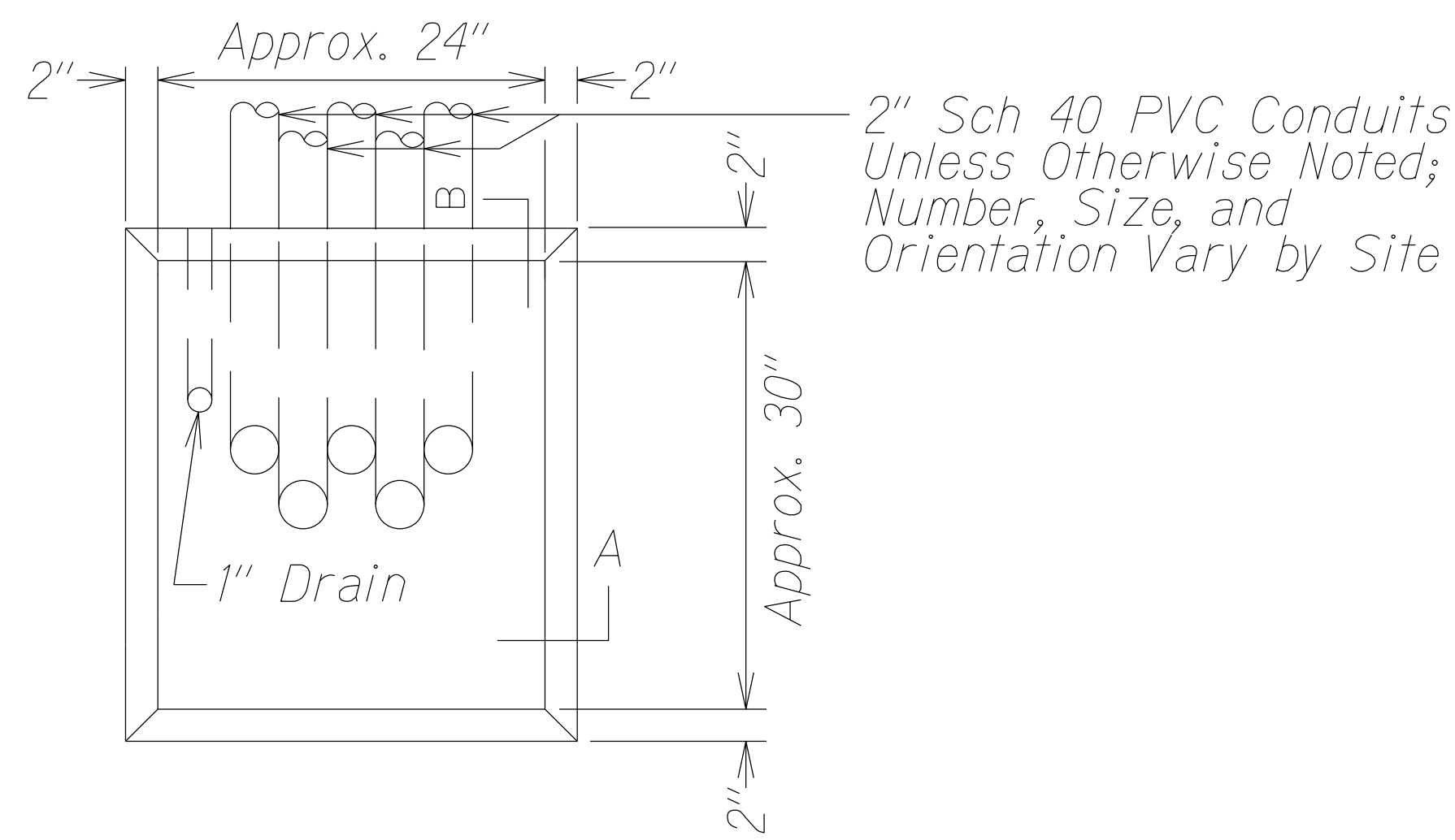
CABINET NOTES:

1. Cabinet shall be oriented so that closed doors are perpendicular to the road.
2. Work pads shall be Class "B" concrete and shall allow view of traffic with doors open.
3. Conduits shall have belled ends installed on their ends inside the Cabinet.
4. With belled ends installed, conduits shall extend no more than 2" above the Base.
5. Unused, spare conduits shall be provided with a pull line and be capped or sealed.
6. Stainless steel wedge anchors (1/2" X 4-1/2") shall be used to attach Cabinet to Base.
7. Grounding and bonding shall be provided that meets or exceeds the latest NEC requirements.
8. Solar power shall be connected to the DC power supply for the Cabinet electronics.
9. Surge protection and a power interrupt capability shall be provided for the Cabinet.
10. Silicone caulking compound shall be used to seal the Cabinet to the Base.
11. Key(s) to the Cabinet shall be provided to the State.



SECTION "A"

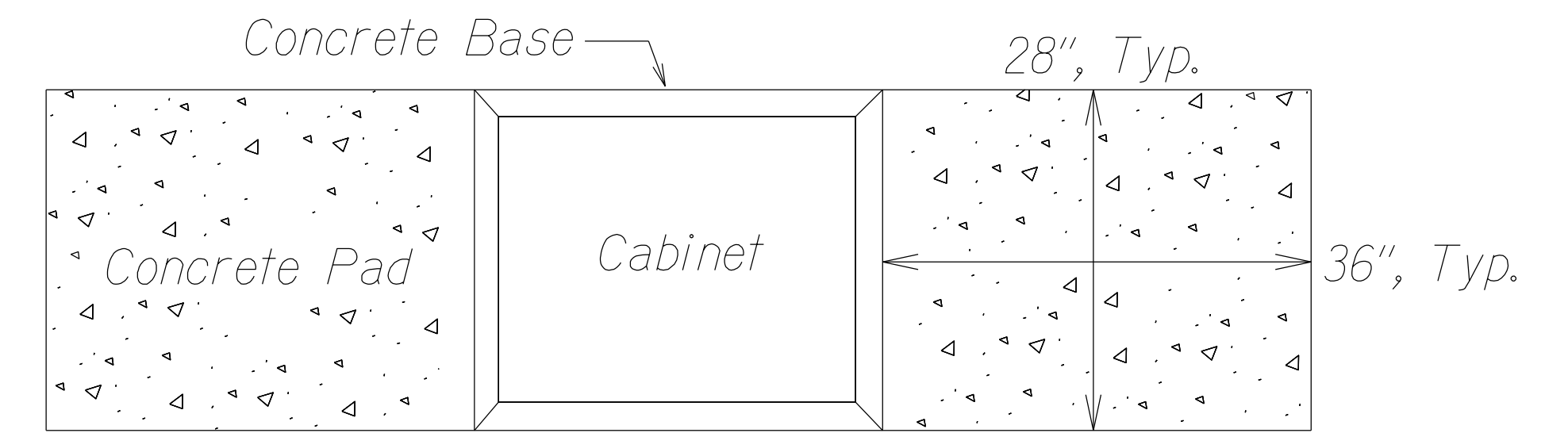
SECTION "B"



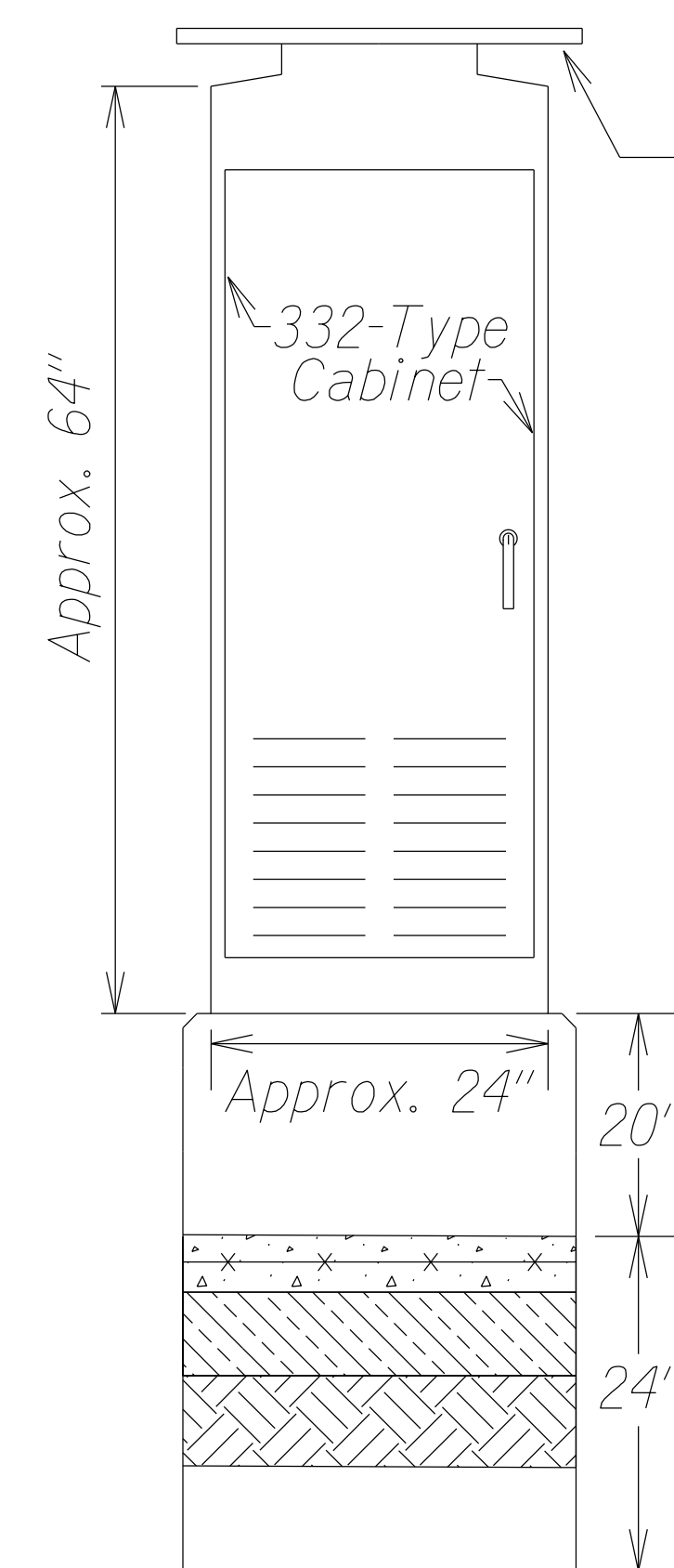
PLAN VIEW

TYPE "D" CONCRETE BASE

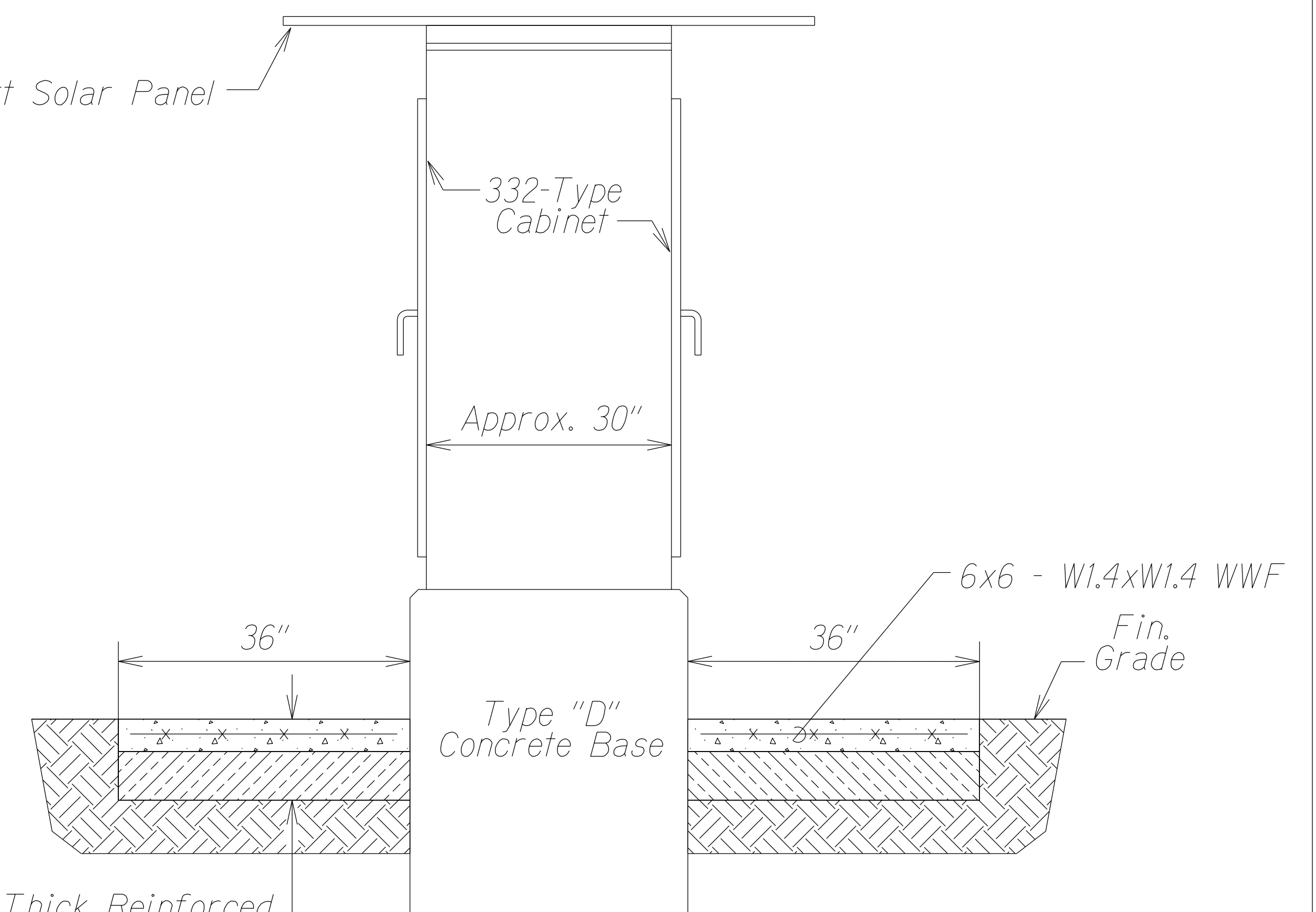
Not to Scale



PLAN VIEW (Solar Panel not shown)



FRONT VIEW



SIDE VIEW

332-TYPE CABINET

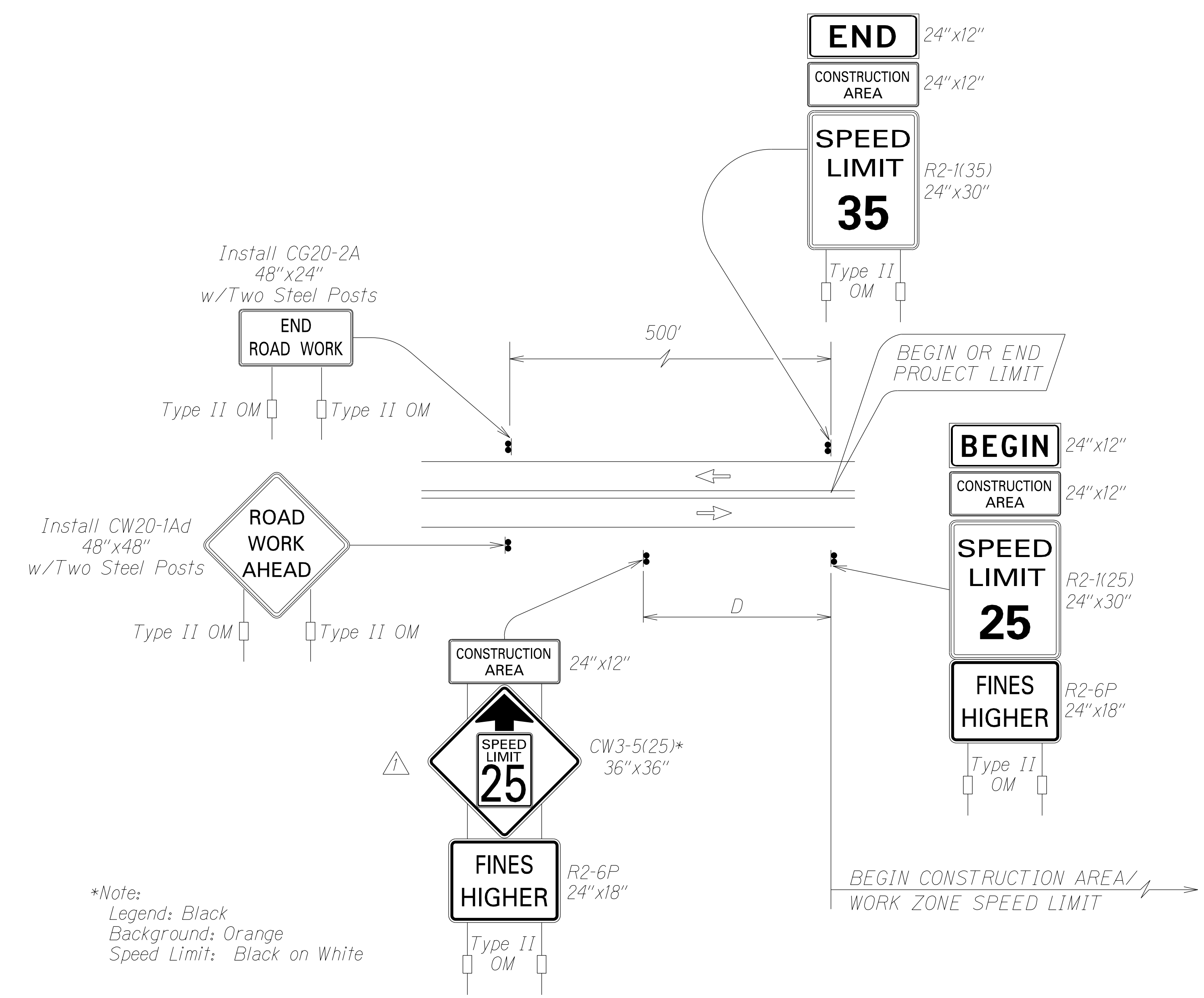
Not to Scale

DATE	REVISION
4/21/23	△ - Revise Section "A"
4/21/23	△ - Revise Front View

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC COUNTING SYSTEM
CABINET AND FOUNDATION**
KUHIO HIGHWAY RESURFACING
Waikaea Bridge to Maillihuna Road
Federal-Aid Project No. NH-056-1(063)
Scale: As Noted Date: April 2023
SHEET No. 4 OF 5 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-056-1(063)	2023	ADD.43	43

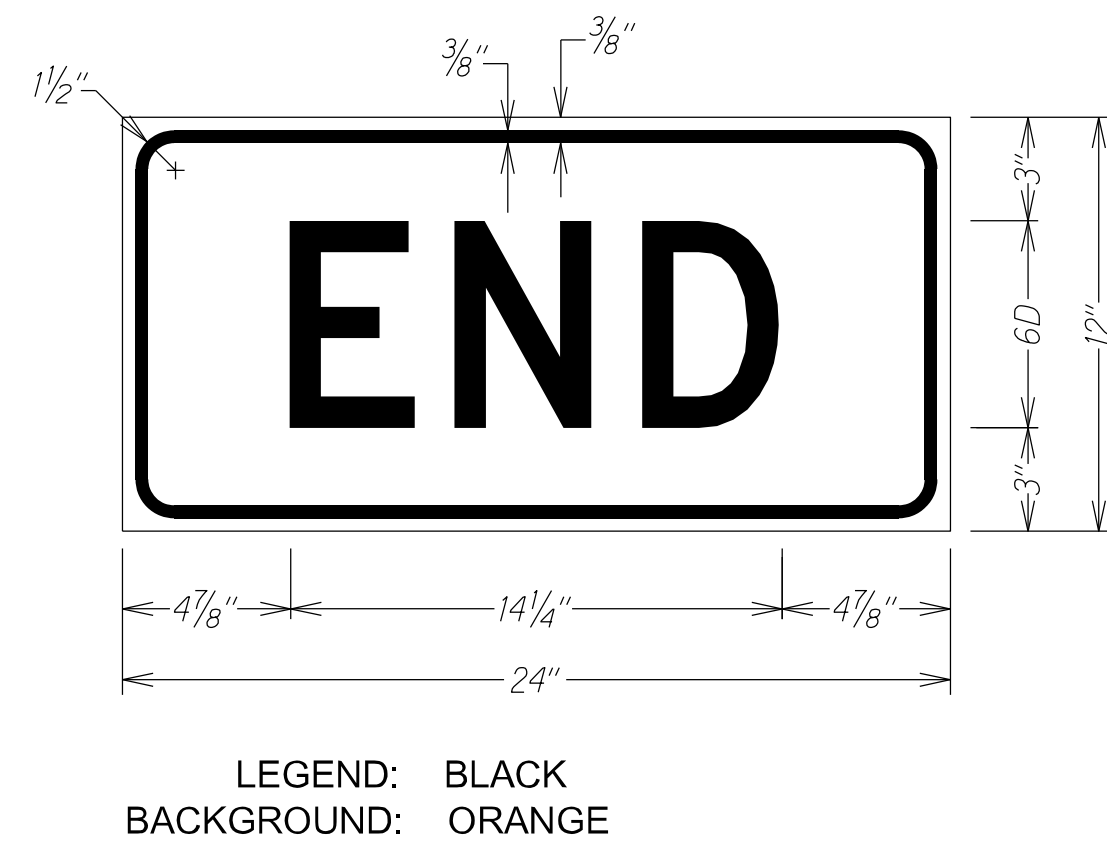
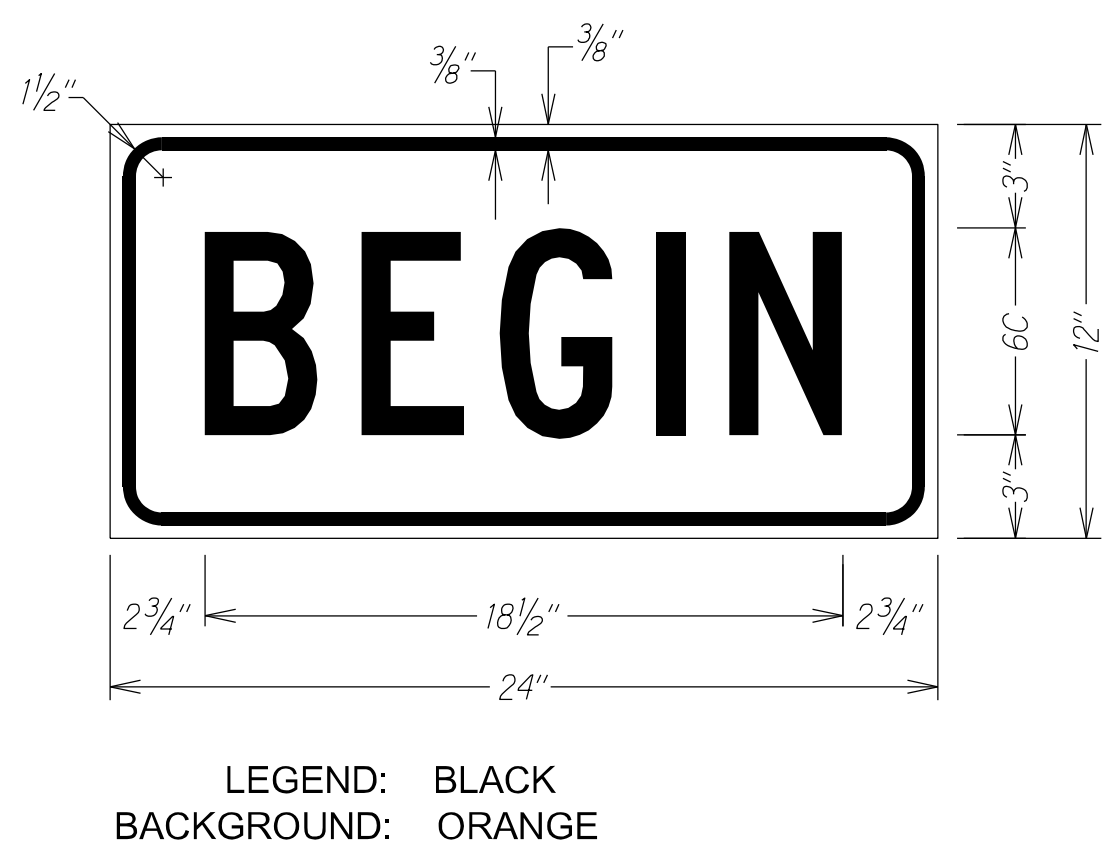
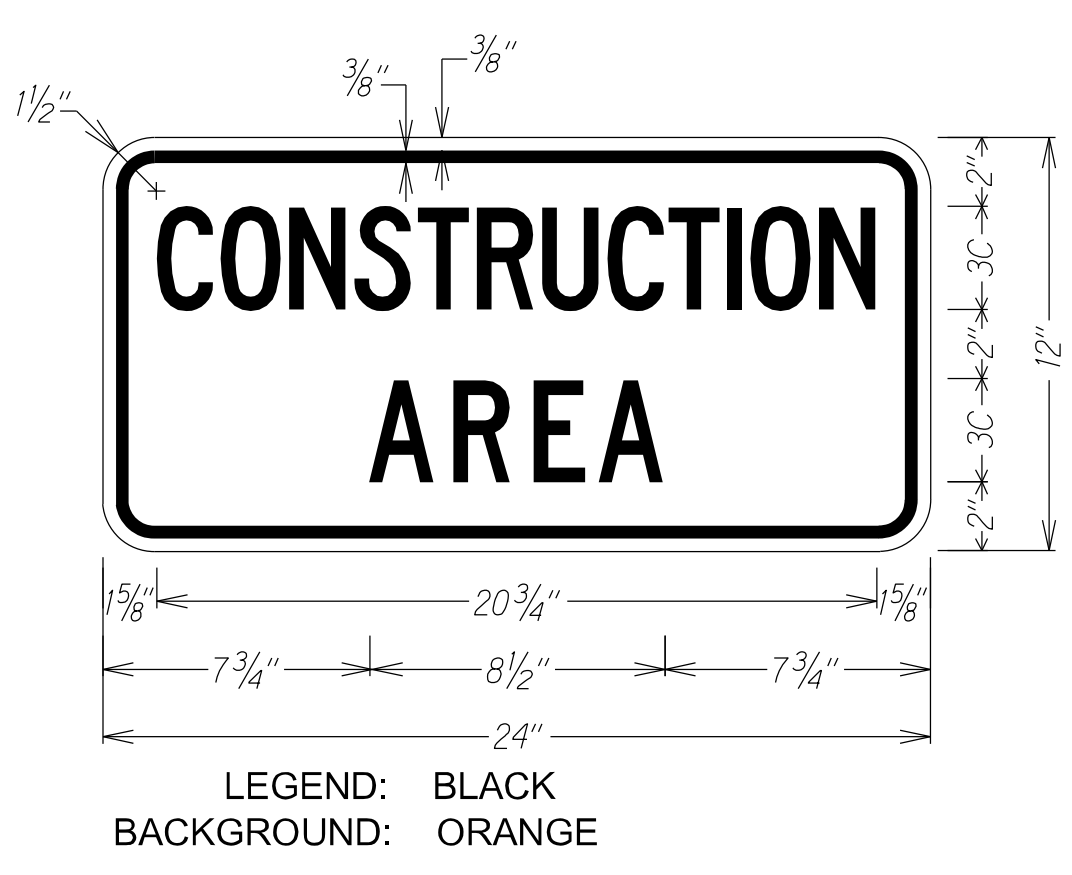


Work Zone Notes:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and R2-6P "FINES HIGHER" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to various pay items and shall not be paid for separately.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations. Dates, times, locations and description of work for each sign location shall be provided to the engineer in writing.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to various pay items and shall not be paid for separately.

*Note:
 Legend: Black
 Background: Orange
 Speed Limit: Black on White

**TYPICAL DETAIL FOR CONSTRUCTION SIGNS
 ON TWO LANE OR MULTILANE UNDIVIDED LOW SPEED HIGHWAY**



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	
4/1/2023	

16-18-15 /usr2/ymee/stew/constr_signs/constrsigns/2inlap-CA-5.dgn

4/21/23	△ - Revise Typical Detail for Construction Signs
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LOW SPEED UNDIVIDED HIGHWAY	
WORK ZONE SIGNING PLAN, NOTES&DETAILS	
KUHIO HIGHWAY RESURFACING Waikaea Bridge to Mailihuna Road Federal-Aid Project No. NH-056-1(063)	
Not To Scale	Date: April 2023
SHEET No. 1 OF 1 SHEETS	

**Responses to HiePRO Questions for solicitation B23002122
Kuhio Highway Resurfacing, Waikaea Bridge to Mailihuna Road
Project No. NH-056-1(063)
As of April 20, 2023**

1. When does the State anticipate the NTP? Will the NTP be mutual agreed?

RESPONSE: NTP for the project depends on the award and execution of the contract. The anticipated NTP is September 2023. There will be no mutual agreement for the NTP.

2. For the 5" and 6" Reconstruction sections, will the state allow PMA ACB or ACB which could be paved in one lift instead of PMA STIV which would require two lifts, give than the top 2" or 3" will be repaved?

RESPONSE: ACB is not allowed as part of the reconstruction section and PMA Mix IV is required.

3. Please show the limits of AC paving on Roadway plans at Ohia Street and Ulu Street, Plan sheet 15 and 16.

RESPONSE: Paving limits at Ohia Street and Ulu Street are along the R/W line as shown on the Plans.

4. Please call out beginning and ending stations of AC Swale. Detail "Typical Section at swale locations" on sheet 9 only show stations where it is either 3" or 2". Will the State consider a separate bid item for AC swale work?

RESPONSE: The note under "Typical Section at Swale locations" refers to any AC swale found within the indicated stationing ranges. This is to clarify that the cold planing/resurfacing between Sta. 517+85 to Sta. 568+25 of the project has a depth of 3" and Sta. 568+25 to 605+38 of the project has a depth of 2". AC swale work will be incidental to the cold planing and PMA Mix IV items in the proposal schedule.

5. Which bid item should the raised crosswalk on sheet 33 be placed in?

RESPONSE: The quantity of asphalt for the raised crosswalk is reflected in Item 401.0410 PMA Pavement, Mix No. IV PG64-22 and pavement markings are reflected in the various 629 items in the proposal schedule.

6. Does the County want each reconstruction lift to be paved back all the way to the top of the finish grade? Then cold plane everything all at once again. If so, the bid item quantities will have to be adjusted. Please advise.

RESPONSE: Yes, the PMA Mix No IV quantity will be revised in the addendum.

7. Is a paving grid/fabric required at the bridge joints/crossing? If so, what material and what bid item should this go under?

RESPONSE: Paving grid/fabric is not required at the bridge joints/crossing.

8. What thickness should the repaving of the parking lot be? 2" or 3" thick?

RESPONSE: Location of the parking lot is considered be within the Sta. 568+25 to Sta. 605+38 of the project, so cold planing and resurfacing are required to be 2".

9. For the parking lot, what should the pavement structure be for the newly cleared and grubbed areas? Is asphalt going to be placed directly on top of the existing cleared area?

RESPONSE: The clear and grubbed areas are assumed as the existing edge of shoulder (e.s.) in the parking lot. Paving limits are set to the e.s. and do not extend further.

10. Will hydromulching be required for this project? If required, which bid item would this go into? See sheet 12 detail "typical pavement edge detail" for reference.

RESPONSE: Hydromulching to dress shoulders shall be incidental to the project.

11. Additive Alternate Proposal Bid Item 415.0112 - Proposal quantity (2430 SY) is greater than plan quantity (1800 SY). Please advise.

RESPONSE: After revisiting this item quantity, the current amount will remain.

12. Will the wheelstops and bollards in the parking lot be replaced?

RESPONSE: The wheel stops and bollards will not be replaced and the existing shall remain.

13. Since the paving work is not intended to change the grade, the pavement will have to match the existing MH frame and covers. Will the State exclude areas around the frame and covers for the smoothness requirement?

RESPONSE: In regard to meeting paving smoothness requirements, areas around existing frames and covers will be excluded.

14. Will this project be managed by the State or a Construction Management company?

RESPONSE: This project is expected to be managed by a construction management company.

15. What is the depth of excavation for the reconstruction areas regarding the 9" and 7" thick recons? Per the reconstruction details on sheets 8 & 11, depth of excavation stated in the callout is 6" and 5" respectively but the drawing shows the depth of excavation from the top of existing pavement to the bottom of the recon area. Therefore, is depth of excavation 9" and 7" thick from top of existing pavement or 6" and 5" thick with (3" and 2" thick cold planning to be paid in cold plane item)?

RESPONSE: The depth of excavation for reconstruction areas are 6" (shown on sheet 8) and 5" (shown on sheet 11) from the top of existing pavement.

16. What is the cold planing and paving thickness of the parking lot?

RESPONSE: Location of the parking lot is considered be within the Sta. 568+25 to Sta. 605+38 of the project, so cold planing and resurfacing are required to be 2".

17. Will a joint adhesive be required on the reconstruction sections since the top 2"-3" will be repaved? Spec Section page 401-22a - 401-24a

RESPONSE: Joint adhesive will not be required on the reconstruction sections.

18. Is joint adhesive required for the parking lot?

RESPONSE: Yes, joint adhesive will be required when resurfacing the parking lot.

19. What is the existing thickness of the parking lot?

RESPONSE: Per as-built plans, the existing thickness is assumed to be 2.5" AC over 6" Aggregate Base Course within the State portion of the parking lot. County portion of the parking lot is not known at this time.

20. Please confirm if scaling on Plan Sheet 20 is correct. Dimensions and stations don't match the scale on the bottom right of the page.

RESPONSE: Scale has been adjusted.

21. Please confirm if all curb ramp work is to be paid under Item 634.0100 Portland Cement Concrete Sidewalk/Island.

RESPONSE: Yes, curb ramp work is to be paid under Item 634.0100 Portland Cement Concrete Sidewalk/Island.

22. Please confirm if unit of measure for Item 634.0100 Portland Cement Concrete Sidewalk/Island is square yards or square feet.

RESPONSE: Proposal schedule has been modified

23. On Plan Sheet 15, please provide limit of resurfacing for Ohia Street (approx. STA 524+50 L).

RESPONSE: Paving limits at Ohia Street are along the R/W line as shown on the Plans.

24. Referring to Proposal Page P-17, there is a control budget that will be announced prior to bid opening. Can this control budget be announced at least a week ahead of the bid date?

RESPONSE: Project is modified to have one bid submission. There is no additive alternate and no project control budget will be announced.

25. Referring to Proposal Page P-17, there is a control budget that will be announced prior to bid opening. Will the control budget be announced via addendum?

RESPONSE: Project is modified to have one bid submission. There is no additive alternate and no project control budget will be announced.

26. Referring to Proposal Page P-17, there is a control budget that will be announced prior to bid opening. What is the difference between the control budget and the estimated cost of construction?

RESPONSE: Project is modified to have one bid submission. There is no additive alternate and no project control budget will be announced.

27. Will there be additional cost to the contractor for inspector/inspection due to night work? If so, can hourly rates for inspector be provided?

RESPONSE: There are no additional costs for night work inspections when within the project's working hours.

28. Will police be required at each intersection for traffic control? If so, does this apply to all types of work being performed?

RESPONSE: No, Section 645 is modified to allow certified flaggers for work zone traffic control.

29. Will the contractor be taking the cold planed/excavated AC materials to the Lihue Airport baseyard per Note 21 on Plan Sheet 3?

RESPONSE: No, Note 21 on Plan Sheet 3 has been modified.

30. Is NPDES Permit required for this project? If so, has it be already obtained?

RESPONSE: A NPDES permit was not obtained for the project's limits.

31. Is there a warranty period for the Rectangular Rapid Flashing Beacon?

RESPONSE: Yes, a minimum warranty of 1 year for batteries and 5 years for equipment from date of acceptance is required. Contractor shall furnish copies of the manufacturer's warranty.

32. Are there any communication or services plans (Verizon, T-Mobile, Sprint, etc) required for the Rectangular Rapid Flashing Beacon?

RESPONSE: No

33. Is there a brand or type of break-away pedestal base that is required for the Rectangular Rapid Flashing Beacon? Can a detail of the break-away base be provided?

RESPONSE: See addendum 2 for added detail.