STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 4

for

INTERSTATE ROUTE H-1 ADDITION AND MODIFICATION OF FREEWAY ACCESS (KAPOLEI INTERCHANGE COMPLEX), PHASE 3

FEDERAL-AID PROJECT NO. NH-H1-1(271)

The following amendments shall be made to the Bid Documents:

A. PROPOSAL SCHEDULE

1. Replace Proposal Schedule page P-8 to P-23 dated r11/28/22 with the attached revised Proposal Schedule page P-8 to P-23 dated r12/6/22.

B. PLANS

1. Replace Plan Sheets No. ADD. 13, 102, 108, 111, 113, 114, 116, and ADD. 117 with the attached revised Plan Sheets No. ADD. 13, ADD. 102, ADD. 108, ADD. 111, ADD. 113, ADD. 114, ADD. 116, and ADD. 117.

The following is provided for information.

C. ANSWERS TO QUESTIONS FROM PROSPECTIVE BIDDER

1. Attached are RFI's and responses for your information.

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

EDWIN H. SNIFFEN
Director of Transportation

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0100	Clearing and Grubbing	L.S.	L.S.	L.S.	$_____
202.0100	Removal of Existing Hot Mix Asphalt (HMA) Pavement	3,400	S.Y.	$_____	$_____
202.0200	Removal of Existing Pavement Markings	1,460	L.F.	$_____	$_____
202.0300	Removal of Existing Guardrail	3,450	L.F.	$_____	$_____
202.0400	Removal of Existing Signs, Sign Posts, and Foundations	13	Each	$_____	$_____
202.0500	Removal of Existing Cantilever Overhead Sign w/ 28' Wide Guide Sign, Sign Post, and Foundations	1	Each	$_____	$_____
202.0600	Removal of Existing Emergency Call Box, Post and Foundation	1	Each	$_____	$_____
202.0700	Removal of Existing Trees	6	Each	$_____	$_____
202.0800	Removal of Existing Concrete, Rock, and Debris	L.S.	L.S.	L.S.	$_____
202.0900	Removal of Existing Drainage Structure, Drain Line, Salvage Frame and Manhole Cover	L.S.	L.S.	L.S.	$_____
202.1000	Removal of Existing Headwall	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
203.0100	Roadway Excavation	5,900	C.Y.	$_____	$_____
203.0200	Borrow Excavated Material	51,400	C.Y.	$_____	$_____
204.0100	Trench Excavation for Water Line	700	C.Y.	$_____	$_____
204.0200	Trench Backfill for Water Line	1,000	C.Y.	$_____	$_____
205.0100	Structure Excavation for Concrete Retaining Wall	3,900	C.Y.	$_____	$_____
205.0200	Structure Backfill for Concrete Retaining Walls	25,000	C.Y.	$_____	$_____
205.0300	Nonwoven Geotextile Fabric	4,175	S.Y.	$_____	$_____
206.0100	Excavation for 12" Drain Line	4	C.Y.	$_____	$_____
206.0200	Excavation for 15" Drain Line	10	C.Y.	$_____	$_____
206.0300	Excavation for 18" Drain Line	8	C.Y.	$_____	$_____
206.0400	Excavation for 24" Drain Line	775	C.Y.	$_____	$_____
206.0500	Excavation for 48" Drain Line	1,050	C.Y.	$_____	$_____
206.0600	Excavation for 10’ x 4’ Concrete Box Culvert	1,330	C.Y.	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.0100	Installation, Maintenance, Monitoring and Removal of B.M.P.	L.S.	L.S.	L.S.	$_____
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 65,000.00
301.0100	Hot Mix Asphalt Base Course	417	Ton	$_____	$_____
304.0100	Aggregate Base Course	905	C.Y.	$_____	$_____
304.0200	Imported Granular Fill	1,025	C.Y.	$_____	$_____
305.0100	Aggregate Subbase	11,700	C.Y.	$_____	$_____
315.0100	Nonwoven Geotextile Fabric	4,175	S.Y.	$_____	$_____
316.0100	Polypropylene Biaxial Geogrid	1,966	S.Y.	$_____	$_____
401.0100	Hot Mix Asphalt (HMA) Pavement, Mix No. IV	532	Ton	$_____	$_____
401.0200	Polymer Modified Asphalt (PMA) Pavement, Mix No. IV	50	Ton	$_____	$_____
411.0100	12-Inch Concrete Pavement	15,000	S.Y.	$_____	$_____
503.0100	Concrete Retaining Wall	6,300	C.Y.	$_____	$_____
503.0300	Concrete in Thrust Blocks for Water Line	18	C.Y.	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.0400	Concrete in Thrust Beams	11	C.Y.	$_____	$_____
503.0500	Concrete in Reinforced Concrete Jacket for Water Line	15	C.Y.	$_____	$_____
503.0600	Concrete in Headwall	13	C.Y.	$_____	$_____
503.0800	Concrete in 10’ x 4’ Concrete Box Culvert	675	C.Y.	$_____	$_____
503.0900	Concrete in End Posts	7	C.Y.	$_____	$_____
508.0100	Cement Rubble Masonry	365	C.Y.	$_____	$_____
603.0100	12-Inch Reinforced Concrete Pipe, Class III	36	L.F.	$_____	$_____
603.0200	15-Inch Reinforced Concrete Pipe, Class III	6	L.F.	$_____	$_____
603.0300	18-Inch Reinforced Concrete Pipe, Class III	5	L.F.	$_____	$_____
603.0400	24-Inch Reinforced Concrete Pipe, Class III	1,130	L.F.	$_____	$_____
603.0500	48-Inch Reinforced Concrete Pipe, Class III	625	L.F.	$_____	$_____
603.0600	Bed Course Material for Culvert	180	C.Y.	$_____	$_____
603.0700	Clean Existing Culverts	F.A.	F.A.	F.A.	$ 100,000.00
604.0100	Type "1A-9P" Inlet, 4 Feet to 4.99 Feet	1	Each	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
604.0200	Type "1A-9P" Inlet, 5 Feet to 5.99 Feet	1	Each	$_____	$_____
604.0210	Type “1A-9P” Inlet, 6 Feet to 6.99 Feet	1	Each	$_____	$_____
604.0300	Type "1A-9P" Inlet, 8 Feet to 8.99 Feet	1	Each	$_____	$_____
604.0400	Type "1A-9P" Inlet, 9 Feet to 9.99 Feet	1	Each	$_____	$_____
604.0500	Type "1A-9P" Inlet, 10 Feet to 10.99 Feet	2	Each	$_____	$_____
604.0600	Type "1A-9P" Inlet, 17 Feet to 17.99 Feet	1	Each	$_____	$_____
604.0700	Type "1A-9P" Inlet, 22 Feet to 22.99 Feet	1	Each	$_____	$_____
604.0800	Type Modified “61614P” I-2 Inlet, 9 Feet to 9.99 Feet	1	Each	$_____	$_____
604.0900	Type Modified “61614P” I-1 Inlet, 13 Feet to 13.99 Feet	1	Each	$_____	$_____
604.1000	Type “61614P” Inlet, 4 Feet to 4.99 Feet	1	Each	$_____	$_____
604.1100	Type Riser G-1 Structure, 2 Feet to 2.99 Feet	1	Each	$_____	$_____
604.1200	Type Riser H-1 Structure, 2 Feet to 2.99 Feet	1	Each	$_____	$_____
604.1300	Type SDMH I-1 Structure, 26 Feet to 26.99 Feet	1	Each	$_____	$_____
604.1400	Type SDMH I-2 Structure, 21 Feet to 21.99 Feet	1	Each	$_____	$_____

PROPOSAL SCHEDULE (All Work Excluding New Sewer Facilities)					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
604.1500	Type Modified SDMH A-3 P, Cast Iron Frame and Cover, 0 Feet to 0.99 Feet	1	Each	$_____	$_____
604.1600	Type "A" Manhole, 4 Feet to 4.99 Feet	1	Each	$_____	$_____
604.1700	Type "C" Manhole, 8 Feet to 8.99 Feet	1	Each	$_____	$_____
604.1810	Type "C" Manhole, 5 Feet to 5.99 Feet	2	Each	$_____	$_____
604.1900	Type "C" Manhole, 24 Feet to 24.99 Feet	1	Each	$_____	$_____
604.2000	Type “B1” Catch Basin, 5 Feet to 5.99 Feet	1	Each	$_____	$_____
604.2100	Type “C1” Catch Basin, 5 Feet to 5.99 Feet	1	Each	$_____	$_____
604.2200	Type “C1” Catch Basin, 2 Feet to 2.99 Feet	1	Each	$_____	$_____
604.2300	Type “D” Manhole, 5 Feet to 5.99 Feet	1	Each	$_____	$_____
605.0200	6-Inch Perforated Underdrain Pipe	1,850	L.F.	$_____	$_____
606.0100	Guardrail Type 3 MGS W-Beam with Strong Posts	4,605	L.F.	$_____	$_____
606.0200	Guardrail Type 3 Thrie Beam with Strong Posts	70	L.F.	$_____	$_____
606.0300	Guardrail Type 3 Thrie Beam Median with Strong Posts	400	L.F.	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
606.0400	Guardrail Type MASH TL-3 Temporary Barrier	5,550	L.F.	$_____	$_____
606.0500	Reset Guardrail	25	L.F.	$_____	$_____
606.0600	Terminal Section Type MSKT or Equal	2	Each	$_____	$_____
606.0700	Terminal Section Type MFLEAT MASH or Equal	1	Each	$_____	$_____
606.0800	Terminal Section Type Thrie Beam Terminal Connector	1	Each	$_____	$_____
606.0900	Terminal Section Type Trailing End Anchorage	1	Each	$_____	$_____
606.1000	Terminal Section Type Thrie Beam End Section	1	Each	$_____	$_____
606.1100	Transition Section Type MGS to W-Beam	1	Each	$_____	$_____
606.1200	Transition Section Type W-Beam to Thrie Beam	5	Each	$_____	$_____
607.0100	6-Feet, Chain Link Fence With Metal Post	30	L.F.	$_____	$_____
619.0100	Coral Boulder and Fabric Liner	L.S.	L.S.	L.S.	$_____
622.0100	Highway Light Standards With Non-Breakaway Transformer Bases, On 31-ft-3-Inch Tall Poles, 15-ft Bracket Arms, 16,000 Lumen (Nominal) LED Luminaires, 480 Volts and Concrete Foundation	38	Each	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.0101	Highway Light Standards With Non-Breakaway Transformer Base, On 27'-9" Tall Pole Mounted on Barrier Wall, 15-ft Bracket Arms, 16,000 Lumen (Nominal) LED Luminaire, 480 Volts and Concrete Foundation	4	Each	$_____	$_____
622.0200	Type C Highway Lighting Pullboxes	6	Each	$_____	$_____
622.0300	Four 2-Inch Highway Lighting Ducts, Concrete Encased	740	L.F.	$_____	$_____
622.0400	One 2-Inch Highway Lighting Duct, Concrete Encased	3,740	L.F.	$_____	$_____
622.0500	Connect Existing Highway Lighting Conduit To New Highway Lighting Conduit	5	Each	$_____	$_____
622.0600	Equipment Enclosure and Wiring Modifications in Existing Highway Lighting Equipment Enclosure	1	Each	$_____	$_____
622.0700	Stub and Cap Highway Lighting Ducts	2	Each	$_____	$_____
622.0800	Demolish and Remove Existing Highway Lighting Pullbox And Backfill, Complete	3	Each	$_____	$_____
622.0900	Remove Existing Highway Lighting Conduits And Wires, Complete and Backfill, Complete	210	Each	$_____	$_____

PROPOSAL SCHEDULE (All Work Excluding New Sewer Facilities)					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
622.1000	Remove Existing Highway Light Standards, Bracket Arms, And Luminaires; Salvage, Clean And Deliver To The State; Demolish And Remove Concrete Bases And Backfill, Complete	9	Each	$_____	$_____
622.1100	Existing 2” Conduit With New 3 No. 1, 1 No. 2 Ground Highway Lighting Conductors	1,880	Each	$_____	$_____
622.1200	New 3 No. 1, 1 No. 2 Ground Highway Lighting Conductors	5,760	Each	$_____	$_____
622.1300	Disconnect and Remove Existing Direct Buried Highway Lighting Cables, and Backfill Complete	930	Each	$_____	$_____
622.1400	Disconnect and Remove Existing Highway Lighting Circuit Conductors, Fill Empty 2-inch Conduit With Concrete and Abandon In Place	200	L.F.	$_____	$_____
622.1500	Remove and Relocate Existing Highway Light Standard onto New Concrete Foundation, Including All Highway Lighting Wiring as Required, and Demolish and Remove Existing Concrete Base, and Backfill Complete	1	Each	$_____	$_____
622.1600	Existing Highway Light Pullbox to be Demolished and Removed and Replaced with New Traffic Rated Type C Highway Light Pullbox, Adjust to Final Grade	1	Each	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.1700	Connect existing highway lighting to JCI lightgrid system	L.S.	L.S	L.S.	$_____
623.0100	Type A Traffic Signal/Communications Pullboxes	7	Each	$_____	$_____
623.0200	Type C Traffic Signal/Communications Pullboxes	7	Each	$_____	$_____
623.0300	Two 2-Inch Traffic Signal Ducts, Concrete Encased	3,910	L.F.	$_____	$_____
623.0400	Stub and Cap Traffic Signal Ducts	10	Each	$_____	$_____
623.0500	Connect Existing Traffic Signal Conduit to New Traffic Signal Conduit	5	Each	$_____	$_____
623.0600	Traffic Rated Type A Traffic Signal/Communications Pullboxes	11	Each	$_____	$_____
623.0700	Traffic Rated Type C Traffic Signal/Communications Pullboxes	11	Each	$_____	$_____
623.0800	Two 2-Inch Communications Signal Ducts, Concrete Encased	4,020	L.F.	$_____	$_____
623.0900	One 2-Inch Communications Electric Ducts, Concrete Encased	460	L.F.	$_____	$_____

PROPOSAL SCHEDULE (All Work Excluding New Sewer Facilities)					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
623.0950	One 3-Inch Communications Electric Ducts, Concrete Encased	3,560	L.F.	$_____	$_____
623.1000	Existing Traffic Signal Pullbox to be Demolished and Removed and Replaced with New Traffic Rated Type A Traffic Signal Pullbox, Adjusted to Final Grade	1	Each	$_____	$_____
623.1100	Existing Traffic Signal Pullbox to be Demolished and Removed and Replaced with New Traffic Rated Type B Traffic Signal Pullbox, Adjusted to Final Grade	1	Each	$_____	$_____
624.0100	Water Systems	L.S.	L.S.	L.S.	$_____
626.0100	6-Inch Standard Valve Box	2	Each	$_____	$_____
626.0200	16-Inch Beveled Gear Standard Valve Box	1	Each	$_____	$_____
626.0300	24-Inch Beveled Gear Standard Valve Box	1	Each	$_____	$_____
627.0100	Hydrodynamic Separator Structures	L.S.	L.S.	L.S.	$_____
629.0100	4-Inch Pavement Striping (Thermoplastic Extrusion)	2,920	L.F.	$_____	$_____
629.0200	6-Inch Pavement Striping (Thermoplastic Extrusion)	4,870	L.F.	$_____	$_____
629.0300	8-Inch Pavement Striping (Thermoplastic Extrusion)	1,740	L.F.	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0400	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,250	L.F.	$_____	$_____
629.0500	Crosswalk Marking (Thermoplastic Extrusion)	100	L.F.	$_____	$_____
629.0600	Pavement Symbol (Thermoplastic Extrusion)	9	Each	$_____	$_____
629.0700	Profiled Thermoplastic Striping	19	Each	$_____	$_____
629.0800	Type “C” Pavement Markers	250	Each	$_____	$_____
629.0900	Type “F” Pavement Markers	2	Each	$_____	$_____
629.1000	Type “H” Pavement Markers	76	Each	$_____	$_____
631.0100	Regulatory Sign (10 Square Feet or Less, w/ post)	6	Each	$_____	$_____
631.0200	Regulatory Sign (More than 10 Square Feet, w/ 2 posts)	1	Each	$_____	$_____
631.0300	Warning Sign (10 Square Feet or Less, w/ post)	10	Each	$_____	$_____
631.0400	Warning Sign (More than 10 Square Feet, w/ 2 posts)	3	Each	$_____	$_____
631.0500	Interchange Exit Sign (2 posts)	1	Each	$_____	$_____
631.0600	Relocation of Existing Sign	1	Each	$_____	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
631.0700	Guide Sign (Expressway)	4	Each	$_____	$_____
631.0800	Guide Sign (1 Post)	3	Each	$_____	$_____
634.0100	Portland Cement Concrete Sidewalk	439	C.Y.	$_____	$_____
636.0100	E-Construction License	F.A.	F.A.	F.A.	$ 10,000.00
638.0100	Curb, Type 2D	1,650	L.F.	$_____	$_____
638.0200	Curb and Gutter, Type 2DG	2,730	L.F.	$_____	$_____
641.0100	Hydro-mulch Seeding	L.S.	L.S.	L.S.	$_____
643.0100	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	$ 25,000.00
645.0100	Traffic Control	L.S.	L.S.	L.S.	$_____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	$ 750,000.00
648.0100	Field Posted Drawings	L.S.	L.S.	L.S.	$_____
650.0100	Curb Ramp, Type B	6	Each	Each	$_____
650.0200	Detectable Warning Mat	6	Each	Each	$_____

PROPOSAL SCHEDULE
(All Work Excluding New Sewer Facilities)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
696.0100	Field Office Trailer (Not to exceed $32,000, 1 Total)	L.S.	L.S.	L.S.	$_____
696.0200	Maintenance of Trailers	F.A.	F.A.	F.A.	$ 50,000.00
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.	$_____

a. Sum of All Items (All Work Excluding New Sewer Facilities) ..... $_____

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

PROPOSAL SCHEDULE FOR NEW SEWER FACILITIES
(HARBOR ACCESS ROAD BL STA. 14+03.99 RT. to 19+22.76 RT.)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
204.0300	Trench Excavation for 30" Sewer Line	2,150	C.Y.	$_____	$_____
204.0400	Trench Backfill for 30" Sewer Line	2,050	C.Y.	$_____	$_____
209.0300	Installation, Maintenance, Monitoring and Removal of B.M.P.	L.S.	L.S.	L.S.	$_____
209.0400	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 10,000.00
503.0700	Concrete in Reinforced Jacket for Sewer Line	70	C.Y.	$_____	$_____
625.0100	Sewer System	560	L.F.	$_____	$_____
626.0400	Sewer Type "SB" Manhole, 14 Feet to 14.99 Feet	1	Each	$_____	$_____
626.0500	Sewer Type "SB" Manhole, 15 Feet to 15.99 Feet	1	Each	$_____	$_____
699.0200	Mobilization (Not to exceed 6 percent of the sum of all items under excluding the bid price of this Item)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE FOR NEW SEWER FACILITIES
(HARBOR ACCESS ROAD BL STA. 14+03.99 RT. to 19+22.76 RT.)

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT

b. Sum of All Items for New Sewer Facilities ..... $_____

NOTES:

1. See Sewer Plan and Profile (Plan Sheets no. U-1 and U-4) for new sewer facilities work.
2. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

PROPOSAL SCHEDULE SUMMARY

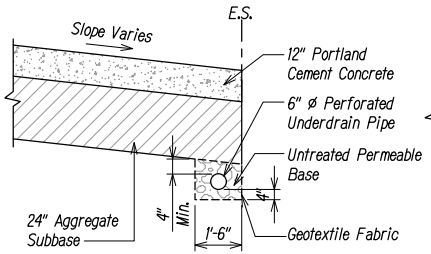
a. Sum of All Items (All Work Excluding New Sewer Facilities) ..... $ _____

b. Sum of All Items for New Sewer Facilities ..... $ _____

c. Amount for Comparison of Bids (a+b) ..... $ _____

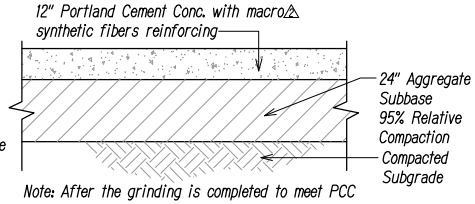
NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 13	167



UNDERDRAIN DETAIL (1 / T-13)

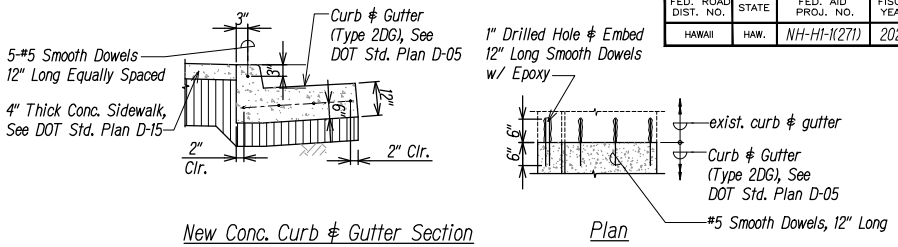
Scale: 1/2" = 1'-0"



Note: After the grinding is completed to meet PCC smoothness criteria, all ramps with a horizontal curve shall be regrooved to restore the original longitudinal tining (depth and width of groove, spacing of the groove, etc.)

PAVEMENT DETAIL (2 / T-13)

Scale: 1/2" = 1'-0"

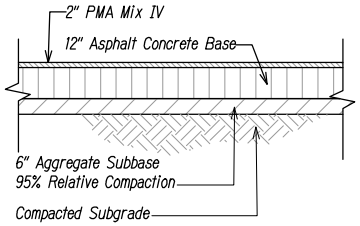


New Conc. Curb & Gutter Section

Plan

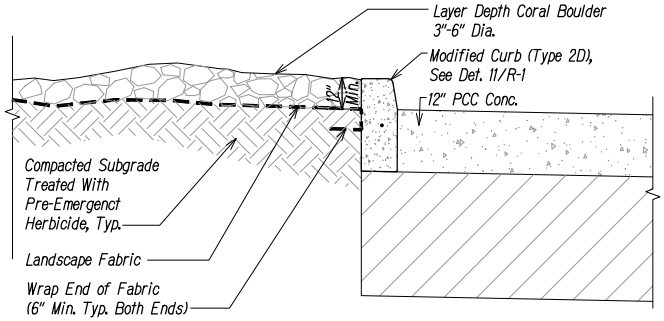
CONC. CURB & GUTTER CONN. DETAIL (3 / T-13)

Scale: 3/4" = 1'-0"



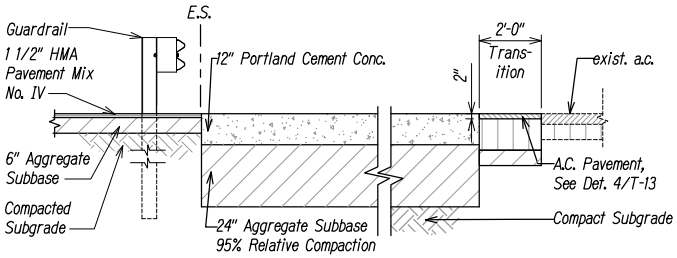
A.C. PAVEMENT DETAIL (4 / T-13)

Scale: 1/2" = 1'-0"



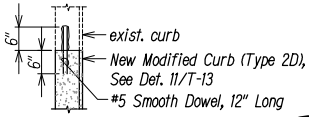
CORAL BOULDER IN MEDIAN DETAIL (5 / T-13)

Scale: 1" = 1'-0"



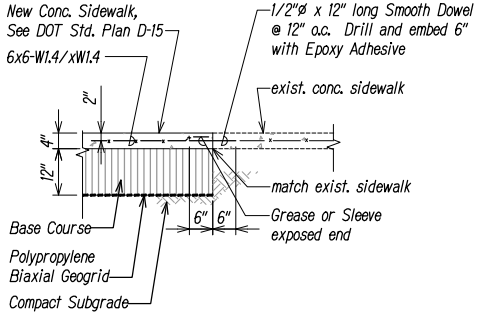
A.C. PAVEMENT CONNECTION DETAIL (6 / T-13)

Scale: 1/2" = 1'-0"



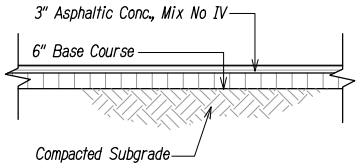
CONC. CURB CONN. DETAIL (7 / T-13)

Scale: 3/4" = 1'-0"



CONN. TO EXIST. CONC. SIDEWALK DETAIL (8 / T-13)

Scale: 3/4" = 1'-0"



A.C. PAVEMENT DETAIL FOR ACCESS ROADS △ (9 / T-13)

Scale: 1/2" = 1'-0"

Graphic Scale

1"= 1'-0" (1 0 1 2)

3/4"= 1'-0" (1 0 1 2)

1/2"= 1'-0" (2 1 0 2 4)

CHRISTOPHER H. BALL — LICENSED PROFESSIONAL ENGINEER No. 12144-C — HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/30/2024

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job factory prior to ordering materials or starting work.

DATE	REVISION
△ 12/6/2022	Added Macro-Synthetic fibers
△ 11/17/2022	Revised Title of detail 9/T-13

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS 1

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. T-13 OF 167 SHEETS

ADD. 13

ORIGINAL PLAN | SURVEY PLOTTED BY | DESIGN BY | TRACED BY | CHECKED BY | NOTE BOOK | QUANTITIES BY | CHECKED BY | DATE | No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 102	167

(01) ℄ Harbor Access Road Sta. 6+99.43
Offset: 38.00' Lt.
Begin Transverse Right Shoulder Marking
See HDOT Standard Plans TE-27

(02) ℄ Harbor Access Road Sta. 7+01.31
Offset: 43.00' Lt.
Begin Transverse Right Shoulder Marking
See HDOT Standard Plans TE-27

(03) ℄ Harbor Access Road Sta. 10+43.39
Offset: 44.00' Lt.
End Transverse Right Shoulder Marking

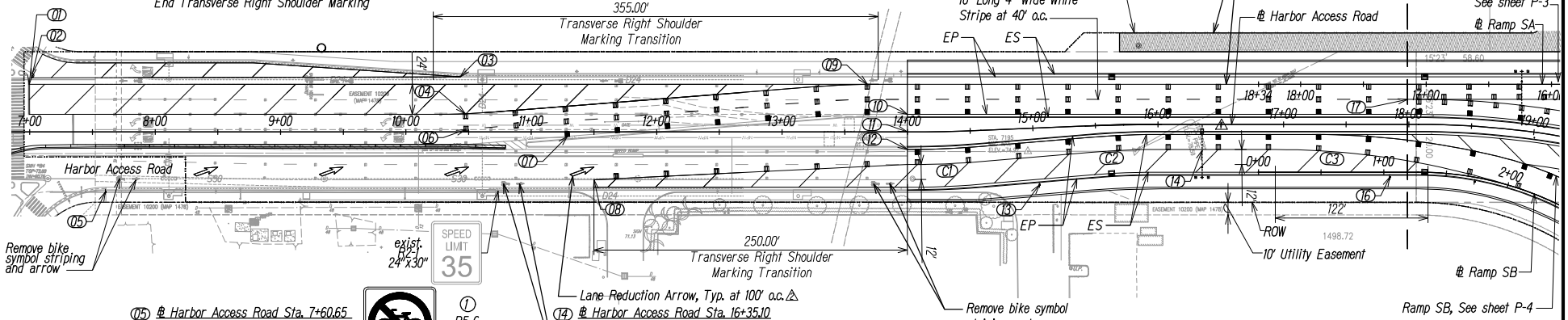
(04) ℄ Harbor Access Road Sta. 10+47.37
Offset: 14.54' Lt.
Begin Type C RPM, Continue Spacing at
40' o.c. from Existing Type C RPM

(09) ℄ Harbor Access Road Sta. 13+67.90
Offset: 38.00' Lt.
End Transverse Right Shoulder Marking
6" White Edge Stripe
Continue Type C RPM at 40' o.c.

(10) ℄ Harbor Access Road Sta. 14+58.59
Offset: 14.00' Lt.
Begin 6" Yellow Edge Stripe Conn.
to exist. Yellow Edge Stripe
Continue Type H RPM at 40' o.c.

(11) ℄ Harbor Access Road Sta. 14+00.00

(17) ℄ Harbor Access Road Sta. 17+98.93
Offset: 20.00' Lt.
End White Profiled Thermoplastic Striping w/Type C RPM
Begin 8" White Stripe w/Type
C RPM at 20' o.c. along EP.



(05) ℄ Harbor Access Road Sta. 7+60.65
Offset: 49.67' Lt.

(1) R5-6
24" X 24"
BIKE LANE CLOSED
24" X 18"

(06) ℄ Harbor Access Road Sta. 10+13.22
Offset: 89.21' Rt.
Begin White Profiled Thermoplastic Striping
w/ Type C RPM, Continue Spacing at
40' o.c. from Existing Type C RPM, See Sht. T-12

(07) ℄ Harbor Access Road Sta. 10+94.24
Offset: 108.69' Rt.
Begin Type H RPM, Continue Spacing at
40' o.c. from Existing Type D RPM

(08) ℄ Harbor Access Road Sta. 11+15.37
Offset: 143.12' Rt.
Begin Transverse Right Shoulder Marking
See HDOT Standard Plans TE-27

(12) ℄ Harbor Access Road Sta. 13+65.38
Offset: 119.12' Rt.
6" Yellow Edge Stripe w/Type H RPM at 40' o.c.
Conn. to exist. 4" yellow stripe

(13) ℄ Harbor Access Road Sta. 14+65.73
Offset: 117.17' Rt.

(1) TO M4-5 36"x18"
H1 M1-1 36"x36"
M6-3 30"x21"

(14) ℄ Harbor Access Road Sta. 16+35.10
Offset: 40.41' Rt.
Type F RPM, see HDOT Std. Plan TE-27

(16) ℄ Harbor Access Road Sta. 17+84.76
Offset: 61.91' Rt.

(2) RAMP 25 M.P.H. W13-3 48"x60"

Curve Data						
Curve #	Δ	Δ/2	R	C	Lc	T
C1	5° 10' 48"	2° 35' 24"	640.68'	57.92'	57.90'	28.98'
C2	4° 46' 37"	2° 23' 18"	638.11'	53.20'	53.19'	26.62'
C3	17° 56' 43"	8° 58' 21"	625.00'	195.75'	194.95'	98.68'

HARBOR ACCESS ROAD PLAN STA. 6+99 - 17+98.93

Scale: 1" = 40'

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Legend

- Limits of Construction
- Property Line
- Guardrail
- Temporary Plastic Barrier
- (1) Install New Sign(s) w/ Post(s)
- (2) Install New Sign(s) w/ 2 Posts

Note:
1. All ground mounted signs to use square tube posts, see HDOT Standard Plans TE-01, TE-02A, TE-03A, TE-03B (Stiff Clay), w/ Reflector Marker RM-3 on posts, see TE-14.

DATE	REVISION
12/6/2022	Revised Reduction Arrow Spacing
11/17/2022	Removed Road Closed Sign

CHRISTOPHER H. BALL LICENSED PROFESSIONAL ENGINEER No. 12144-C HAWAII, U.S.A.

This work was prepared by me or under my supervision

4/30/2024
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE AND STRIPING PLAN 1

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

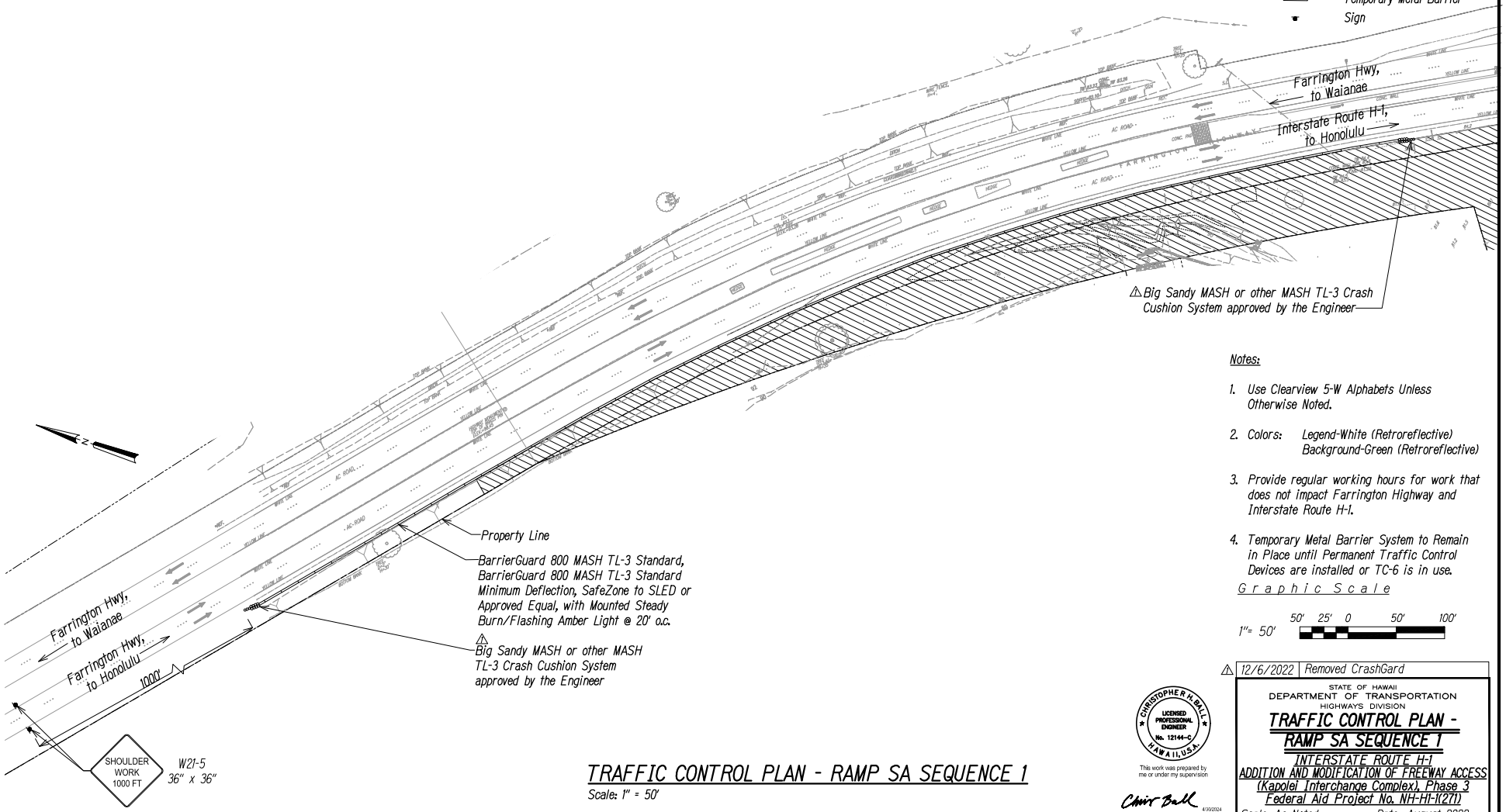
Scale: As Noted Date: August 2022

SHEET No. P-2 OF 167 SHEETS

ADD. 102

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | NOTE BOOK No. | DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 108	167



Legend

- Property Line
- Work Area
- Direction of Traffic
- Temporary Metal Barrier
- Sign

Notes:

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective) Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
4. Temporary Metal Barrier System to Remain in Place until Permanent Traffic Control Devices are installed or TC-6 is in use.

Graphic Scale

1"= 50' 50' 25' 0 50' 100'

TRAFFIC CONTROL PLAN - RAMP SA SEQUENCE 1

Scale: 1" = 50'

⚠	12/6/2022	Removed CrashGard

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - RAMP SA SEQUENCE 1

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS (Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. **TC-3** OF **167** SHEETS

CHRISTOPHER H. BALL
LICENSED PROFESSIONAL ENGINEER
No. 12144-C
HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/30/2024

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions and all factory prefabricated work.

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK No.

ADD. 108

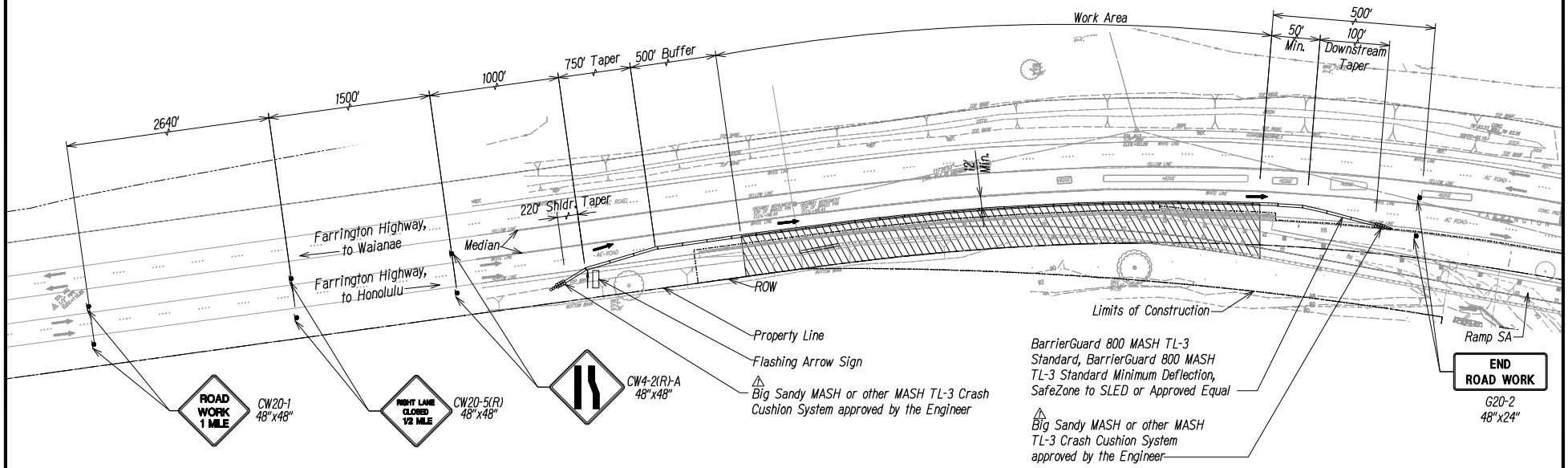
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 111	167

Notes:

1. *Use Clearview 5-W Alphabets Unless Otherwise Noted.*
2. *Colors: Legend-White (Retroreflective) Background-Green (Retroreflective)*
3. *Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.*
4. *Provide Arrow Boards for each Lane Closure.*

Legend

- *Work Area*
- *Traffic Cone*
- *Sign*
- *Exist. Direction of Traffic*
- *Proposed Direction of Traffic*
- *Flashing Arrow Sign*
- *Property Line*
- *Limits of Construction*
- *Temporary Metal Barrier*



Graphic Scale

1"= 50' 50' 25' 0 50' 100'

⚠	12/6/2022	Removed CrashGard

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - RAMP SA SEQUENCE 2

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. **TC-6** OF **167** SHEETS

CHRISTOPHER H. BALL
LICENSED PROFESSIONAL ENGINEER
No. 12144-C
HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/30/2024

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

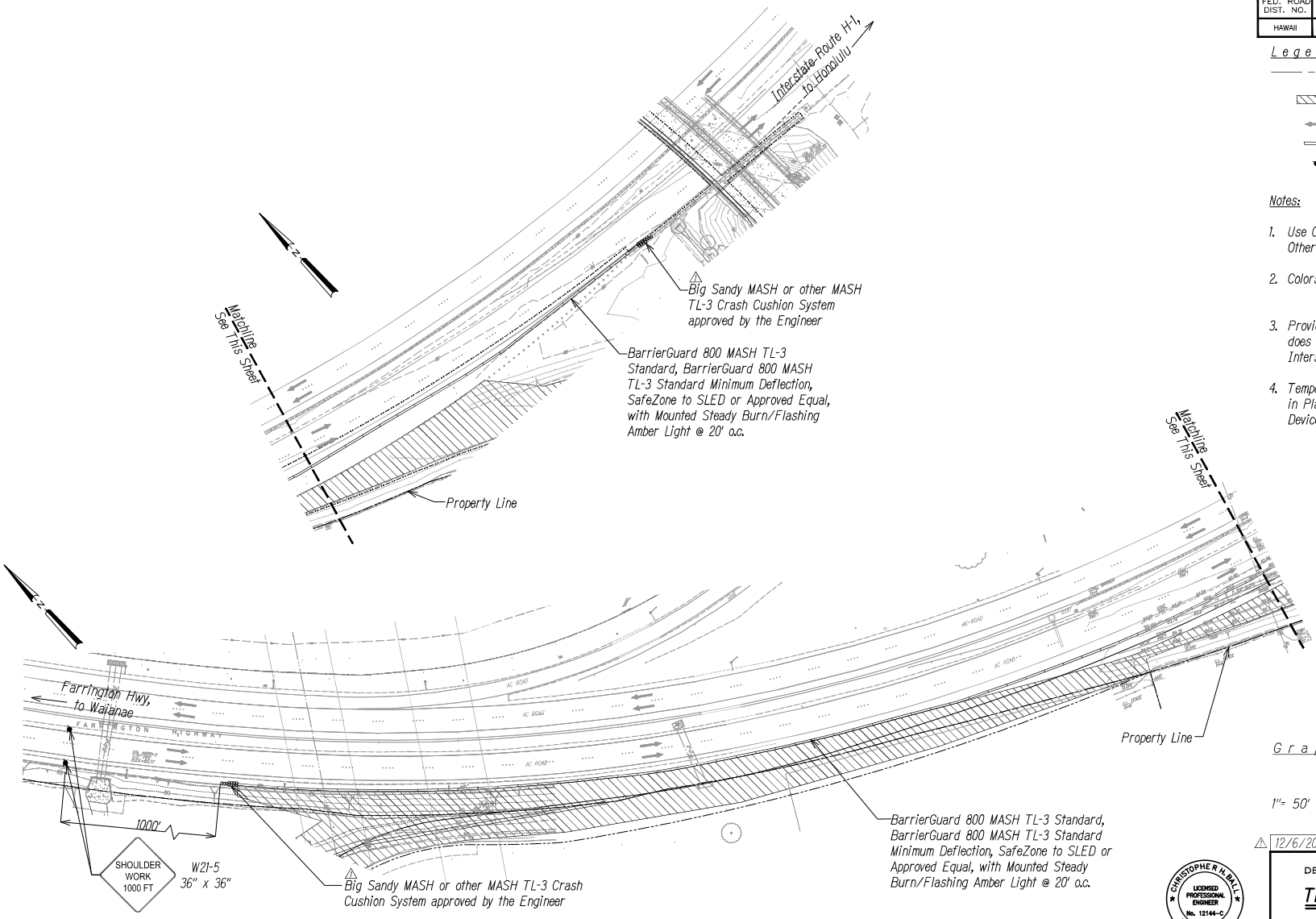
NOTE: Contractor to check and verify dimensions and field conditions prior to commencing with work.

TRAFFIC CONTROL PLAN - RAMP SA SEQUENCE 2

Scale: 1" = 50'

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 113	167



Legend

- Property Line
- Work Area
- Direction of Traffic
- Temporary Metal Barrier
- Sign

Notes:

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective) Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
4. Temporary Metal Barrier System to Remain in Place until Permanent Traffic Control Devices are installed or TC-11 is in use.

Graphic Scale

1" = 50' 50' 25' 0 50' 100'

12/6/2022	Removed CrashGard

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - RAMP SB SEQUENCE 3

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. TC-8 OF 167 SHEETS

CHRISTOPHER H. BALL
LICENSED PROFESSIONAL ENGINEER
No. 12144-C
HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/30/2024
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job site prior to any work.

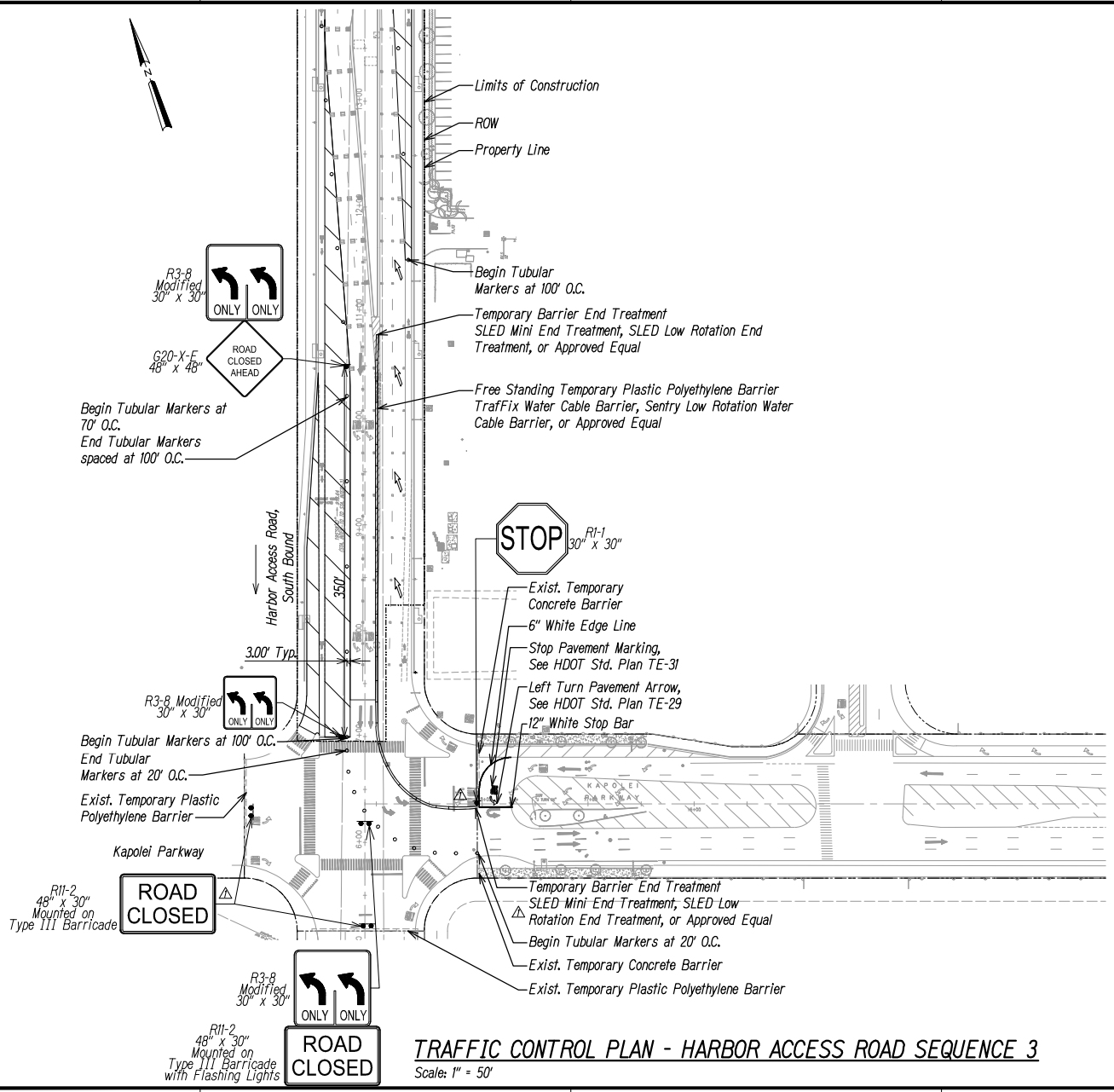
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK No.

TRAFFIC CONTROL PLAN - RAMP SB SEQUENCE 3

Scale: 1" = 50'

ADD. 113

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 114	167



TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 3

Scale: 1" = 50'

Legend

- Limits of Construction
- Property Line
- Sign
- Type III Barricade

Notes:

1. Traffic Control Devices shall be in use 24 hours a day, 7 days a week.

Graphic Scale

1"= 50' 50' 25' 0 50' 100'

⚠	12/6/2022	Revised Traffic Control

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 3

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS (Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. TC-9 OF 167 SHEETS

CHRISTOPHER H. BALL LICENSED PROFESSIONAL ENGINEER No. 12144-C HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/30/2024
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job factory prior to starting work.

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAFT BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK No.

ADD. 114

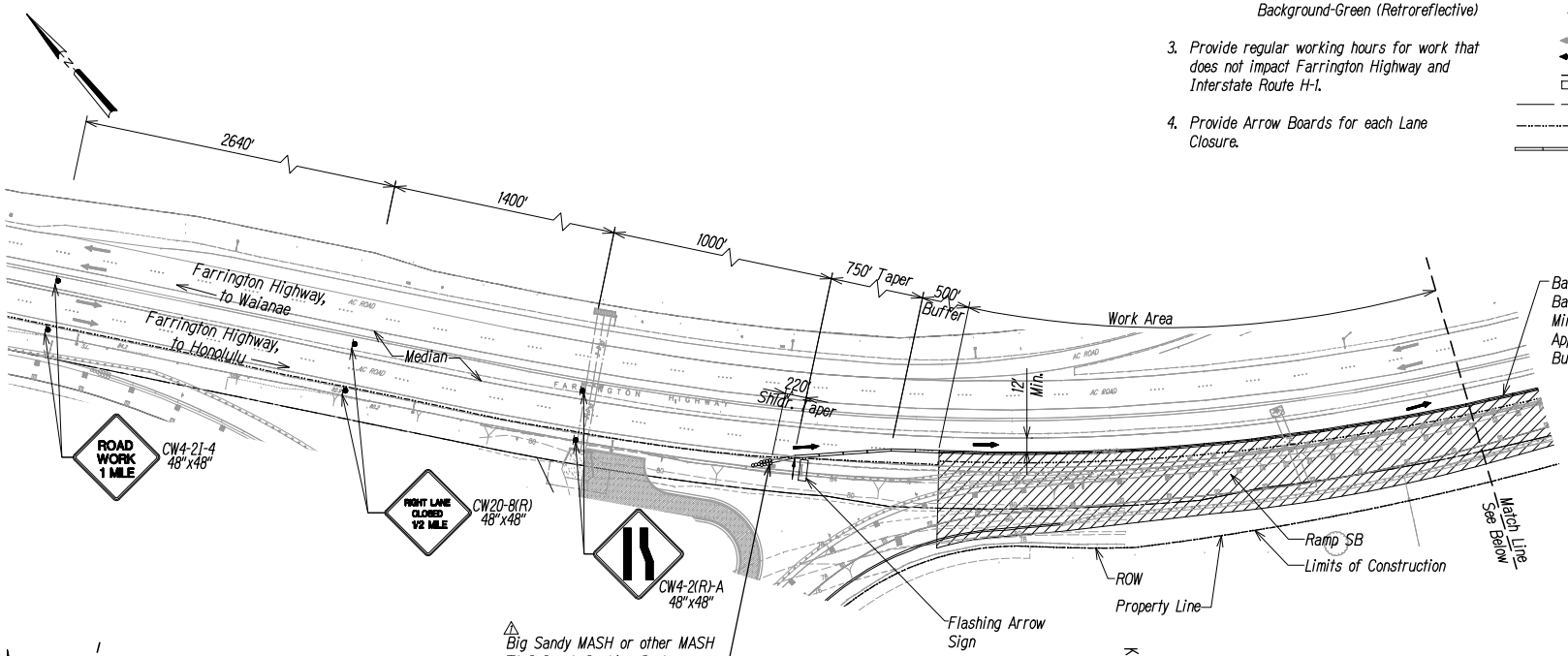
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 116	167

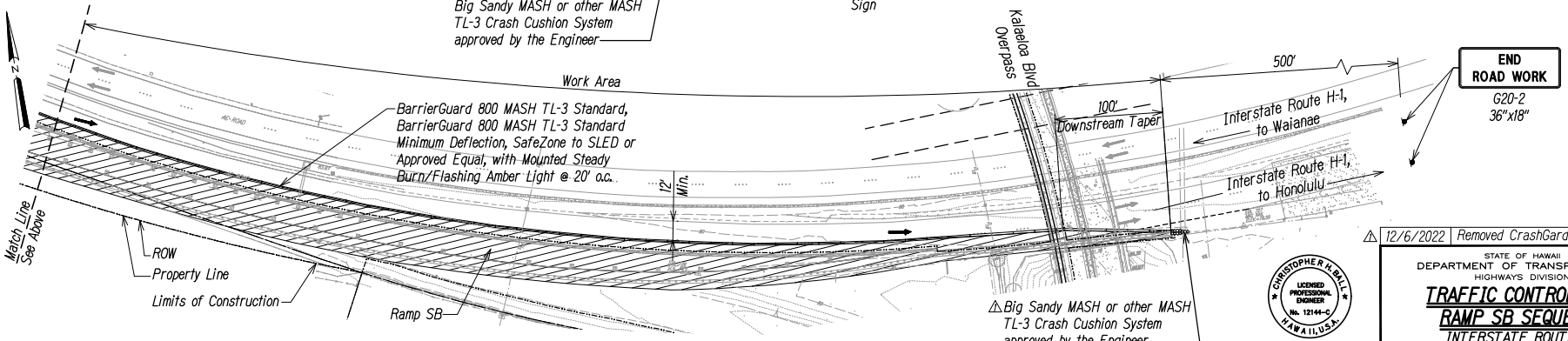
Notes:

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective) Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
4. Provide Arrow Boards for each Lane Closure.

Legend

- Work Area
- Traffic Cone
- Sign
- Exist. Direction of Traffic
- Proposed Direction of Traffic
- Flashing Arrow Sign
- Property Line
- Limits of Construction
- Portable Concrete Barrier





TRAFFIC CONTROL PLAN - RAMP SB SEQUENCE 4

Scale: 1" = 50'

Graphic Scale

1"= 50' 50' 25' 0 50' 100'

⚠	12/6/2022	Removed CrashGard

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - RAMP SB SEQUENCE 4

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS (Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

SHEET No. TC-11 OF 167 SHEETS

CHRISTOPHER H. BALL LICENSED PROFESSIONAL ENGINEER No. 12144-C HAWAII, U.S.A.

This work was prepared by me or under my supervision

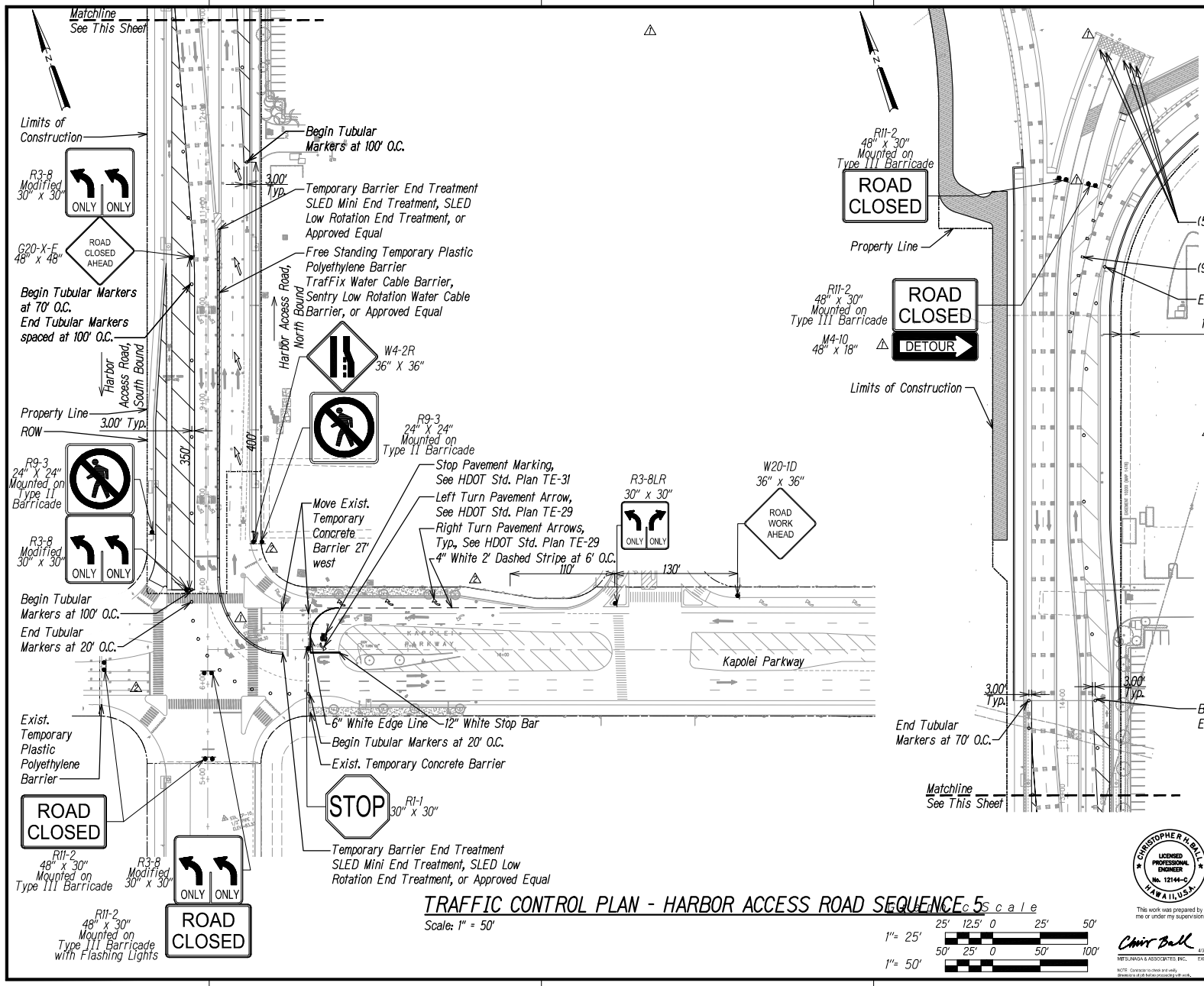
4/30/2024
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at all times prior to beginning with work.

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

ADD. 116

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(271)	2022	ADD. 117	167



Legend

- Limits of Construction
- Property Line
- Sign
- Type III Barricade
- Direction of Traffic

Inertial Barrier System Notes

1. Energite III Crash Cushions, Big Sandy Series, or Approved Equal
2. Follow Manufacturer's Recommendations
3. MASH Rating: TL-3

Notes:

1. Traffic Control Devices shall be in use 24 hours a day, 7 days a week.

TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 5

Scale: 1" = 50'

Graphic Scale

1"= 25' 25' 12.5' 0 25' 50'

1"= 50' 50' 25' 0 50' 100'

DATE	REVISION
12/6/2022	Revised Traffic Control
11/17/2022	Revised Traffic Control

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 5

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. NH-HI-1(271)

Scale: As Noted Date: August 2022

CHRISTOPHER H. BALL LICENSED PROFESSIONAL ENGINEER No. 12144-C HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chris Ball 4/20/2024

MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at all times prior to beginning work.

SHEET No. TC-12 OF 167 SHEETS

ADD. 117

ORIGINAL PLAN | SURVEY PLOTTED BY: | DELAIN BY: | TRACED BY: | NOTE BOOK: | QUANTITIES BY: | CHECKED BY: | DATE | No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Project: INTERSTATE ROUTE H-1 ADDITION AND MODIFICATION OF FREEWAY ACCESS (KAPOLEI INTERCHANGE COMPLEX), PHASE 3 FEDERAL-AID PROJECT NO. NH-H1-1(271)

Prospective bidders had submitted RFI's via HIePRO. Questions and responses are as follows:

34. Referencing Spec Section 511 – Drilled Shafts: No drilled shafts are shown on the plans. Please clarify intent of this spec section

Electrical details call out Std. Plan TE-47. Per TE-47 note 2, "Refer to State Standard Specifications Section 511 for drilled shaft concrete properties."

35. Spec Section 503 – Concrete Structures: This section mentions Box Girder Spans, Bridge decks, bridge approach slabs., etc., that don't apply to this project. Please clarify intent?

Section 503 is intended to replace Section 503 in the 2005 Hawaii Standard Specifications, so some sections may not apply to the project. Those particular sections mentioned will not apply to this project.

36. Spec Section 719 – Macrofibers for Concrete Reinforcement. Please clarify where this is required.

See Addendum No. 4 Det. 2/T-13 Pavement Detail.

37. In response to answer to RFI#16: Spec Section 411-13a (1) Longitudinal Joints says to place 30" long deformed tie bars. However, std det D-21 shows 40" long deformed bars. Please clarify?

Follow the Spec Section.

38. In response to answer to RFI#16: Are the tie bars to conform to Standard Plan Note #1 or Subsection 709.01(F) – Tie Bars per Spec Section 411-15a?

Follow the Spec Section.

39. In response to answer to RFI #16: Are the dowels to conform to Standard Plan Note #1 or Subsection 709.01(E) – Dowels per Spec Section 411-15a?

Follow the Spec Section.

40. Addendum 2 deleted 2ea Type “C” Manholes from Drainline B, which should delete Bid Item 604.1800

Removed Bid Item 604.1800 Type "C" Manhole, 21 Feet to 21.99 Feet. See Addendum No. 4.

41. Addendum 2 added 2ea Type “C” Manholes to Drainline H, which needs a new bid item due to a difference in depth.

Added Bid Item 604.1810 Type "C" Manhole, 5 Feet to 5.99 Feet. See Addendum No. 4.

42. Addendum 3 changed the depth of Type “1A-9P” Inlet on Drainline F. A new bid item needs to be added to address that.

Added Bid Item 604.0210 Type "1A-9P" Inlet, 6 Feet to 6.99 Feet. See Addendum No. 4.