

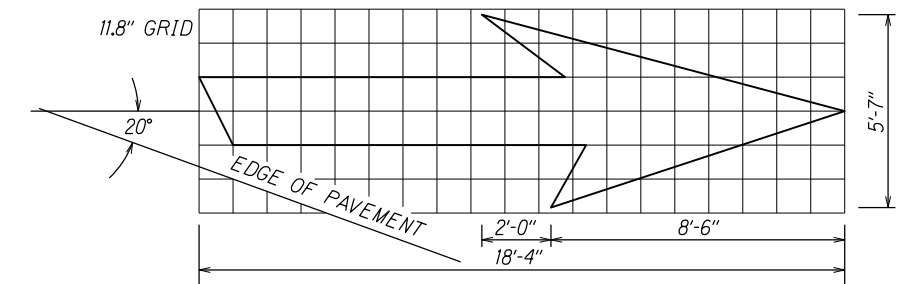
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	47	65

LEGEND

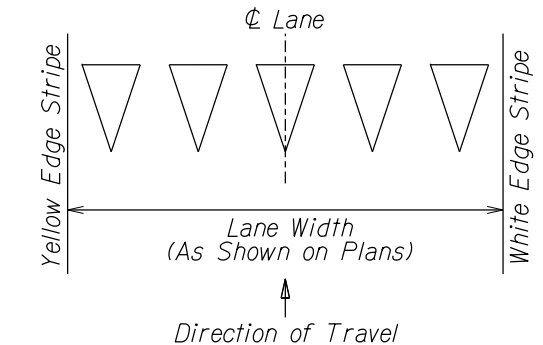
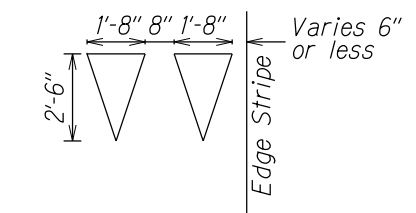
- 10' White Profiled Thermoplastic Stripe
- Type C Raised Pavement Markers @ 40'-0" o.c.
- 10' Yellow Profiled Thermoplastic Stripe
- Type D Raised Pavement Markers @ 40'-0" o.c.
- 8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 6" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- Lane Change Restriction Marking
- 10' White Profiled Thermoplastic Stripe Type C Raised Pavement Markers @ 20'-0" o.c. 4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
- 6" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" White Guide Line (Tape, Type III or Thermoplastic Extrusion except for bus bays)
- Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
- Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
- Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
- Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
- STOP
- 10' Yellow Profiled Thermoplastic Stripe Type D Raised Pavement Markers @ 40'-0" o.c. Type H Raised Pavement Markers (Reflective Surface facing no-passing direction) 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- Extension of Edge Line, 6" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)
- Extension of Edge Line, 6" Wide x 2'-0" Long Yellow Stripe @ 10'-0" o.c. w/Type H Markers @ 40'-0" o.c.

NOTES

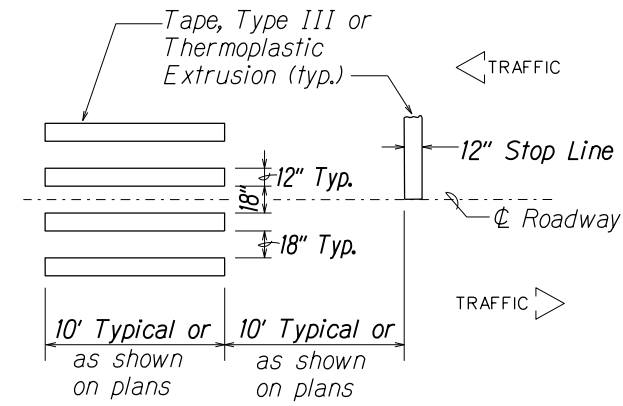
1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.



TYPE VI ARROW
RIGHT LANE DROP ARROW
(FOR LEFT LANE, USE MIRROR IMAGE)

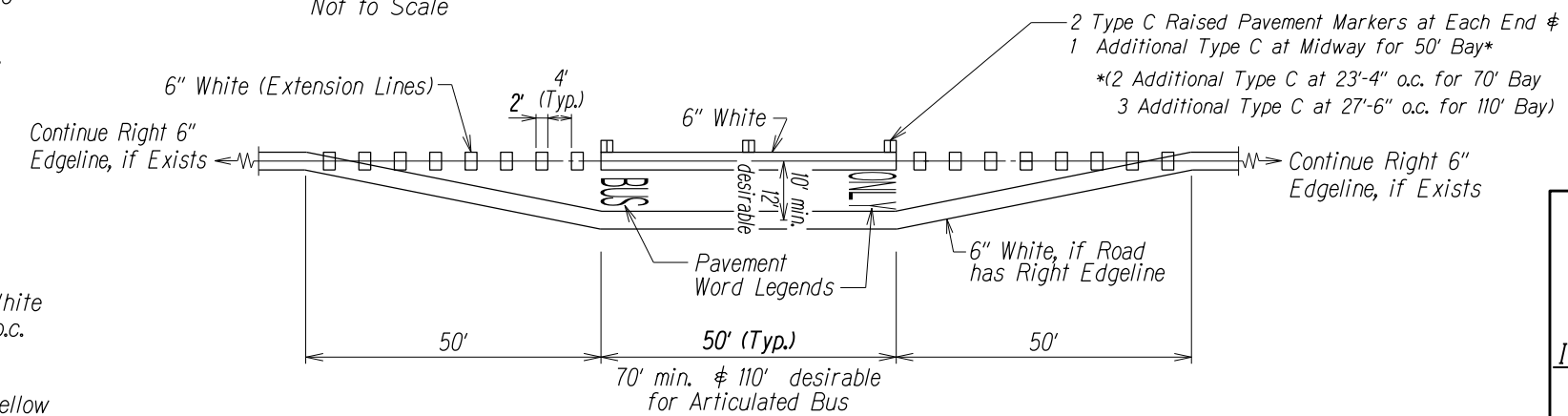


YIELD LINE
Not to Scale



CROSSWALK STRIPING DETAIL

Not to Scale



BUS BAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

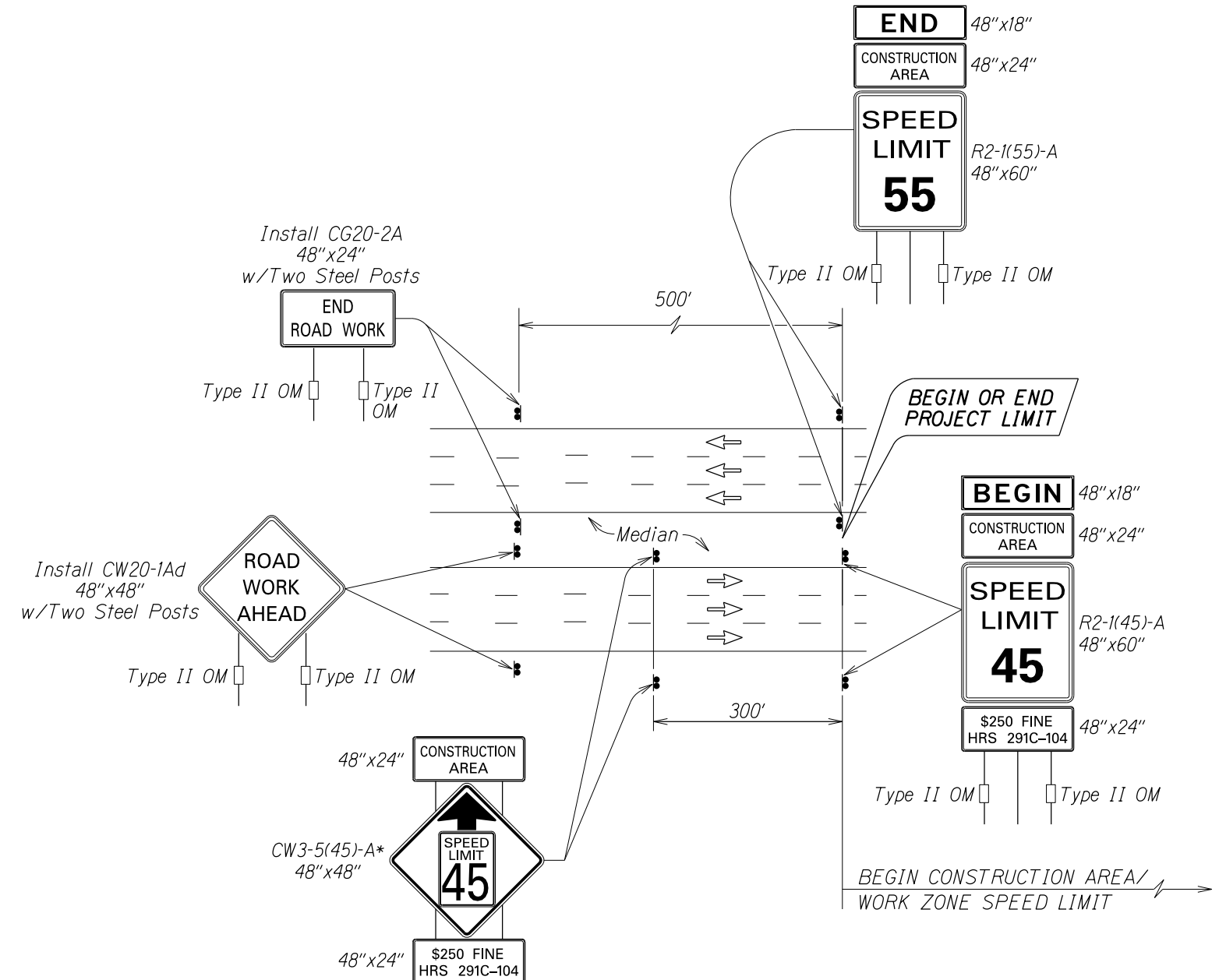
**PAVEMENT MARKING
LEGEND, DETAILS & NOTES**

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-H1-1(275)

Not To Scale Date: June 2021
SHEET No. 71 OF 19 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	49	65

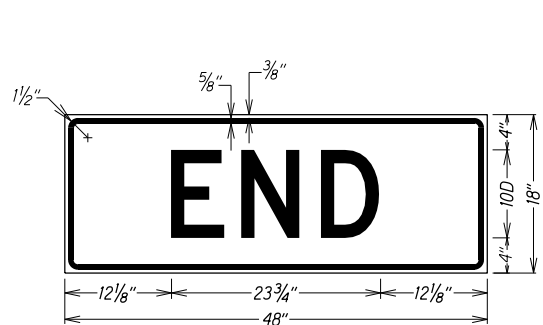
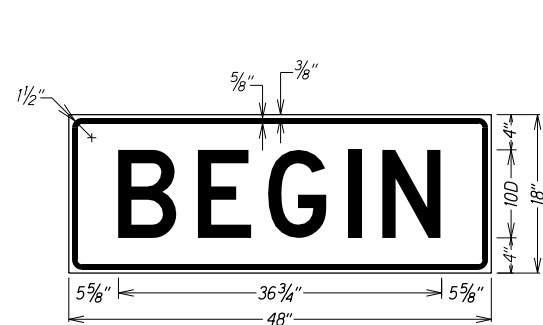
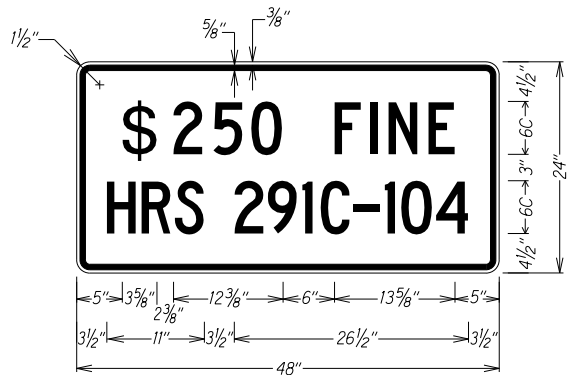
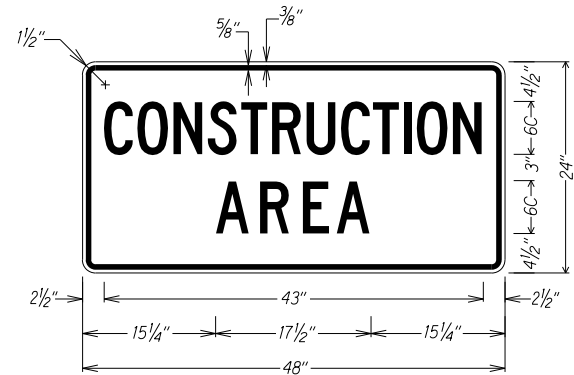


Work Zone Note:

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 within the work zone/project limits shall be covered and work zone speed limit sign assemblies (R2-1(45)-A and R2-5b(45)-A with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs) shall be displayed during lane closure hours.
3. Upon the removal of the lane closure, all work zone speed limit signs shall be covered and existing speed limit signs within the work zone/project limits shall be restored.
4. Construction signs shall be installed on both the approaching and trailing ends of each work zone.
5. Each construction sign shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.1000 Traffic Control.
6. All work zone speed sign assembly shall be mounted on three (3) 4,00 lbs./ft. galvanized flanged channel sign posts with a sign clearance height of five (5) feet. Sign stiffeners as specified by Standard Plan Sheet TE-02 shall be installed as needed or as directed by the Engineer.
7. The daily covering and uncovering of existing regulatory speed limit signs along with the installation, maintenance, removal and daily covering and uncovering of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000-Traffic Control.

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

TYPICAL DETAIL FOR CONSTRUCTION SIGNS ON FREEWAY



LEGEND: BLACK
 BACKGROUND: ORANGE

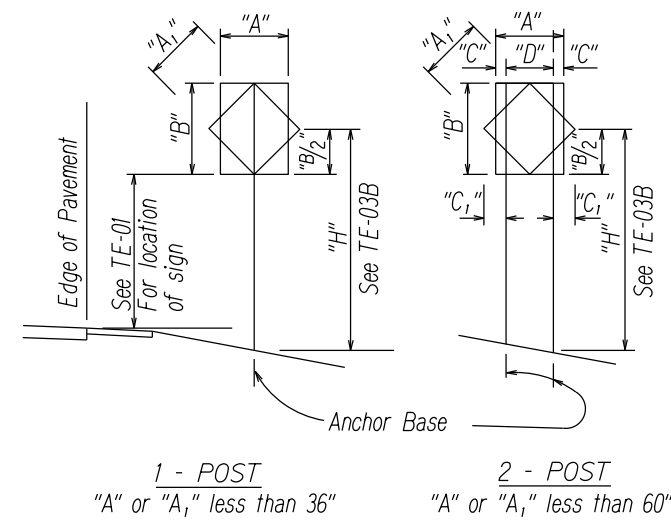
LEGEND: BLACK
 BACKGROUND: WHITE

LEGEND: BLACK
 BACKGROUND: ORANGE

LEGEND: BLACK
 BACKGROUND: ORANGE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
FREEWAY WORK ZONE SIGNING
PLAN, NOTES & DETAILS
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-H1-1(275)
 Not To Scale Date: June 2021
 SHEET No. T3 OF 19 SHEETS

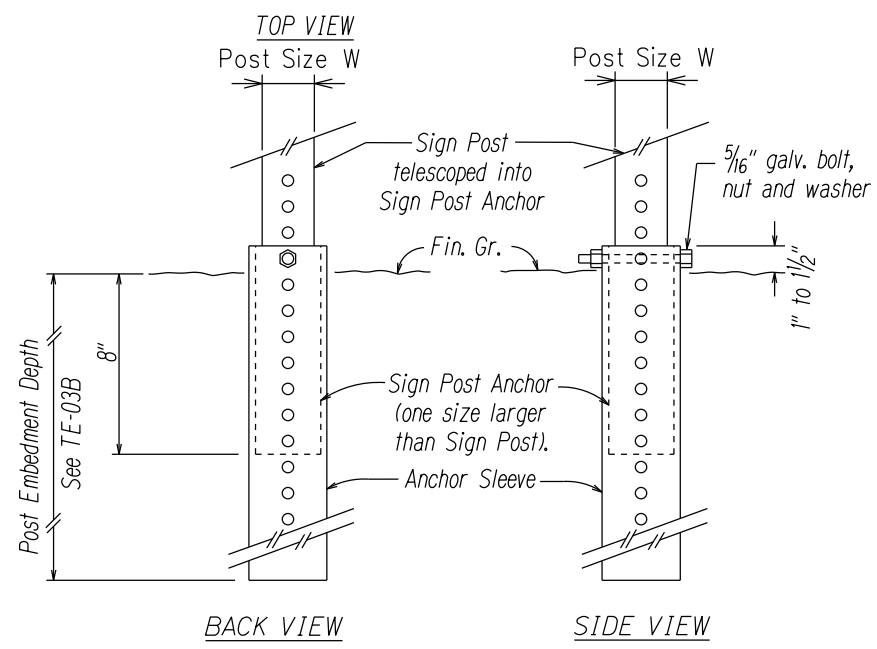
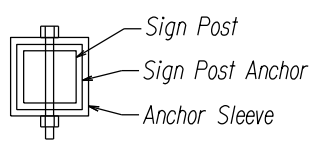
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	



"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



SIGN POST INSTALLATION

ANCHOR BASE DETAIL

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 square tube posts shall be 12 gauge 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 without break away anchor base 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.

SURVEY PLOTTED BY _____ DATE _____
 DRAWN BY _____
 DESIGNED BY _____
 QUANTITIES BY _____
 CHECKED BY _____
 N. 2011/12/15

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**GALVANIZED SQUARE TUBE
 SIGN POST MOUNTING**
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-HI-1(275)
 Not To Scale Date: June 2021
 SHEET No. T4 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	51	65

LANE CLOSURES AND CONSTRUCTION COORDINATION,
H-1 REHAB, SALT LAKE BLVD TO AIRPORT VIADUCT, NH-HI-1(275)

1. In addition to guardrail, signing and striping work, this project also includes:
 - (a) Correction of exist. pavement cross slope with asphaltic leveling course (both IB & OB directions).
 - (b) Reconstruction of settled areas (right lane + right shoulder, both IB & OB directions).
 - (c) Resurfacing of right lane + right shoulder with PMA (Polymer-Modified Asphalt) top layer & Asphaltic Concrete Base (ACB) lower layer(s).
 - (d) Resurfacing of all other travel lanes and median shoulders with SMA (Stone Matrix Asphalt) top layer and Asphaltic Concrete Base (ACB) lower layer(s).
2. Separate lane closure hours have been set up for weekdays (i.e., non-paving work), weekends (i.e., reconstruction/paving work), and Zipper Lane Deployment Area (ZLDA) weekend work. See Subsection 645.03(F) Lane Closures for details.
3. Under Subsection 645.03(F)(5), the Contractor is allowed up to 30 full-freeway closures (i.e., Sunday morning to Monday morning) in each direction (i.e., total 60 weekends for the entire project).
4. Possible detours via state routes:
 - (a) Kamehameha Highway (Route 99)
 - (b) Moanalua Freeway (Route 78/H-201)
 - (c) Nimitz Highway (Route 92)
 - (d) Puuloa Road
5. Submit requests for detours, lane and/or full closures before scheduling work:
 - (a) Detours 8 weeks before implementing detours.
 - (b) Lane closures 6 weeks before implementing lane closures.
 - (c) Full-freeway closure in one direction 6 weeks before implementing full closure.
 - (d) Weekend work within ZLDA 5 working days before start of work.
6. Submit site-specific Traffic Control Plans (including detour routes) to Engineer for review and acceptance following the procedures established in Subsection 105.04 - Review and Acceptance Process.
7. Section 697 PUBLIC COMMUNICATION AND COORDINATION. In planning for the proposed full-freeway closures, the Contractor shall coordinate with:
 - o State and County agencies
 - o Emergency First-Responders (Police, EMS, Fire)
 - o Joint Base Pearl Harbor/Hickam (JBPHH)/US Pacific Fleet Headquarters/military
 - o Zipper Lane operator
 - o Airport operators
 - o TheBus/public transit
 - o Hawaii Tourist Authority
 - o Aloha Stadium Authority
 - o nearby schools & businesses (e.g., car rental), and other potential stakeholders
8. The Contractor shall coordinate lane closures with other HDOT construction projects in the vicinity:
 - (a) H-1 EB Airport Viaduct Improvements, NH-HI-1(276)
 - (b) Nimitz Highway & Ala Moana Blvd Resurfacing, NH-092-1(030)
 - (c) ZLDA work: contact Zipper Lane operator and Tunnel Manager (Tunnel Operations Section at 485-6208).
9. The Contractor shall coordinate and adjust his work schedule to resolve detour route conflicts and implement additional traffic control measures as necessary to alleviate potential traffic congestions.
10. All labor, materials, tools, equipment and incidentals, including but not limited to, traffic control signs, detour route signs, traffic control devices, police officers, portable message signs/EMBs, that are shown in site-specific Traffic Control Plan (TCP) accepted by the Engineer shall not be paid for separately and shall be considered incidental to the lump sum Contract Item No. 645.1000 - Traffic Control for respective base bid and additive bid.
11. All labor, materials, tools, equipment and incidentals necessary, including but not limited to, public notices and advertisements in newspaper, to develop and implement public communication and project coordination plans shall not be paid for separately and shall be considered incidental to the lump sum Contract Item No. 695.1000 - Public Communication and Coordination for respective base bid and additive bid.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. <i>Shil/cpl</i>	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

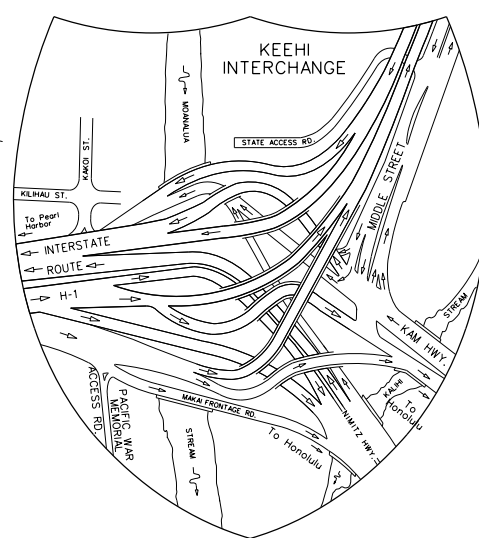
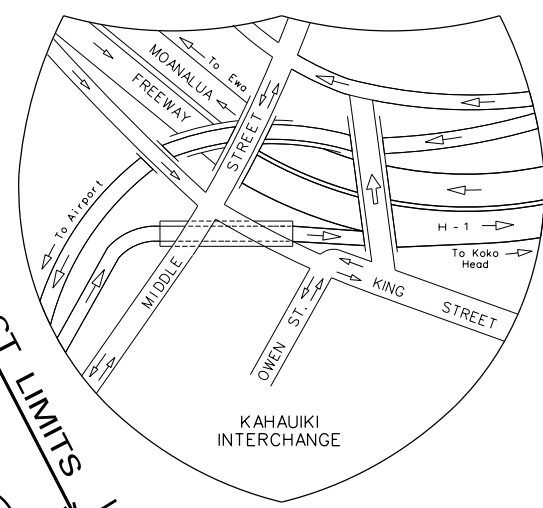
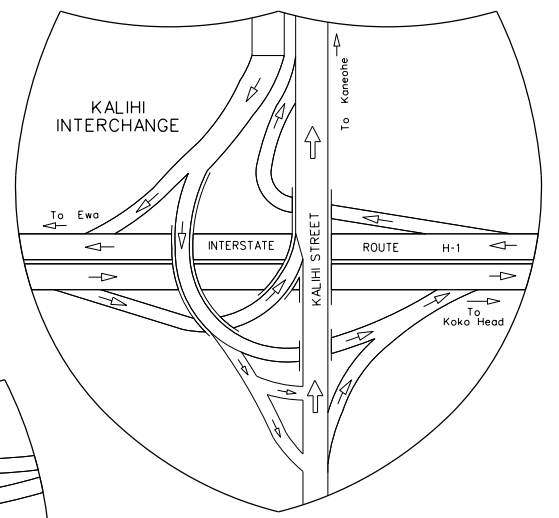
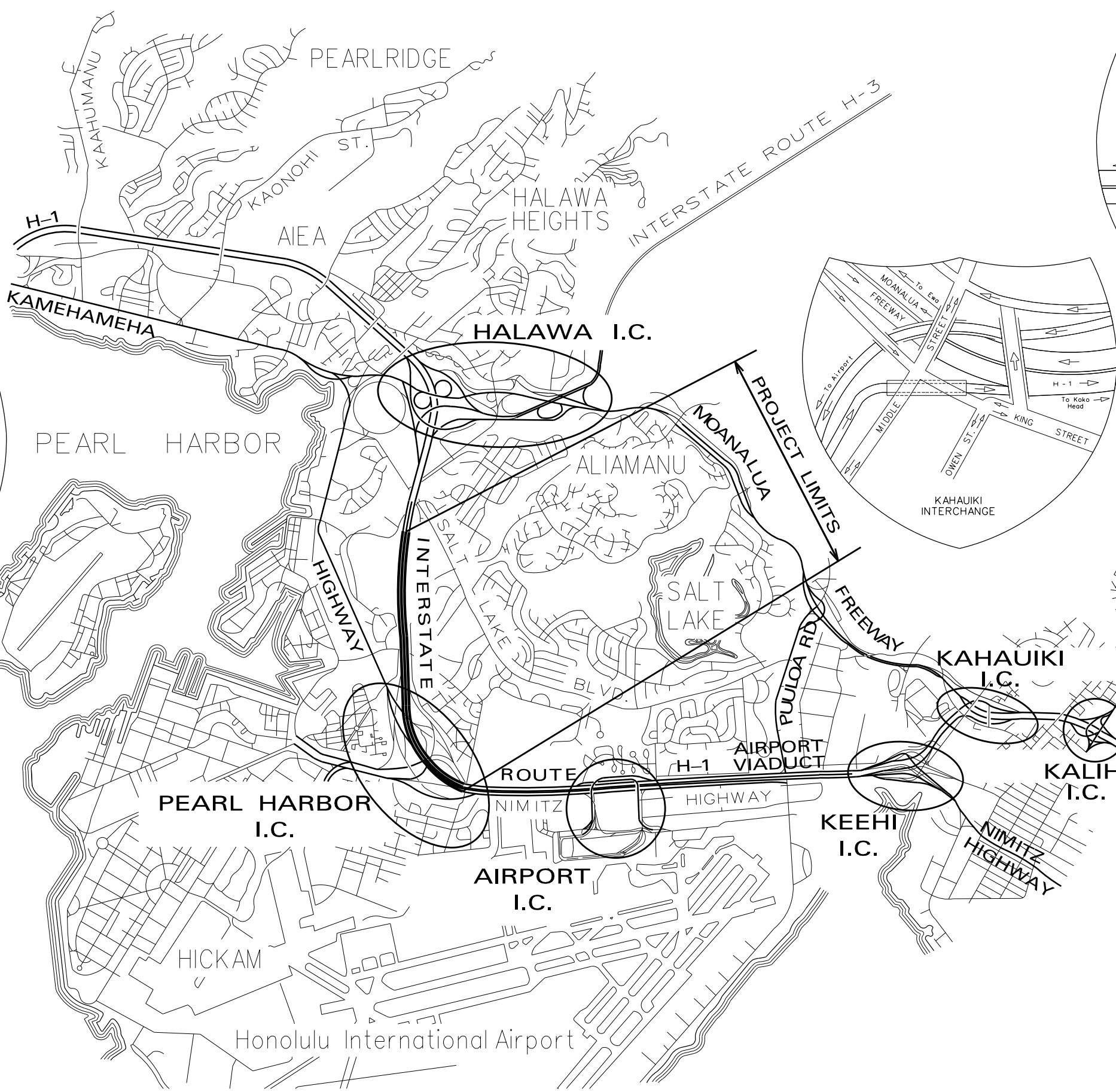
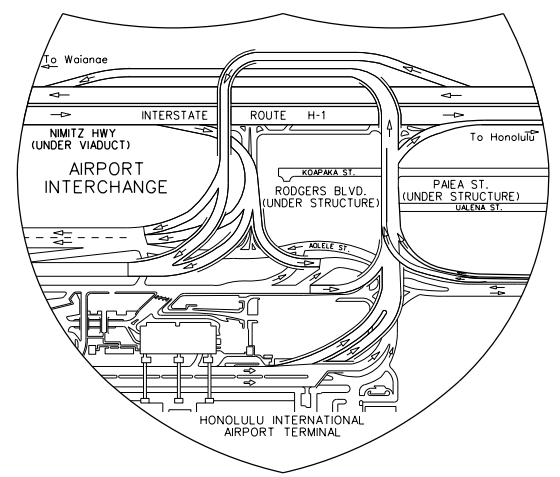
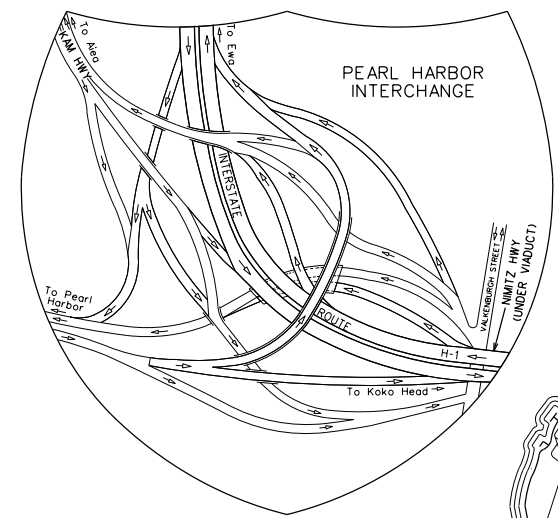
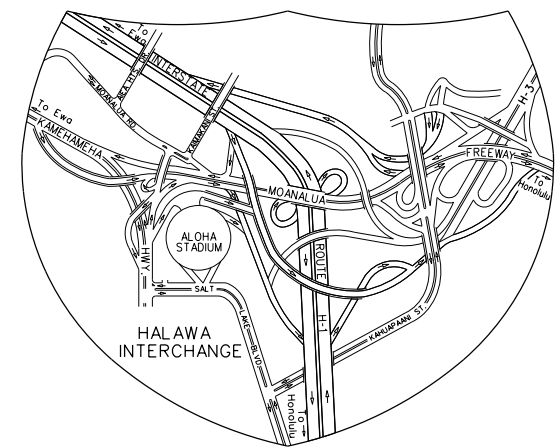
LANE CLOSURES &
CONSTRUCTION COORDINATION

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Not To Scale Date: June 2021

SHEET No. 75 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	52	65



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANE CLOSURES &
CONSTRUCTION COORDINATION

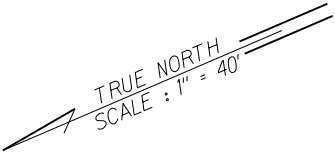
INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Scale: 1" = 40' Date: June 2021

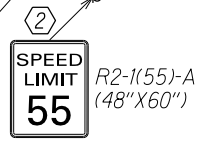
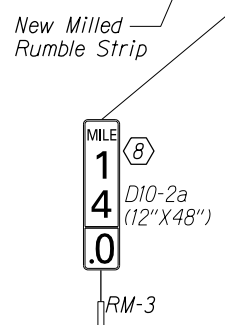
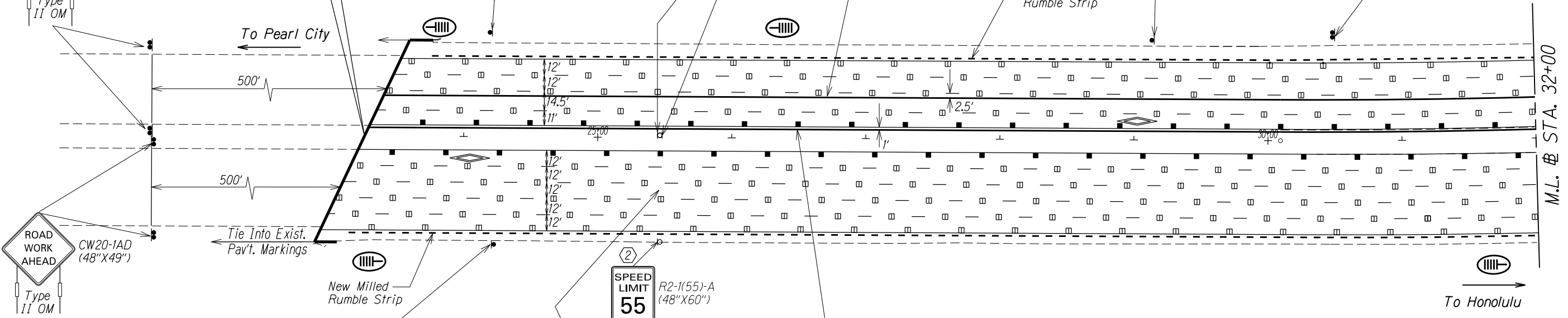
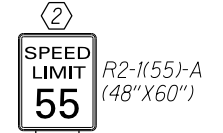
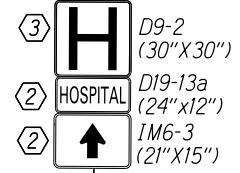
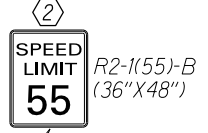
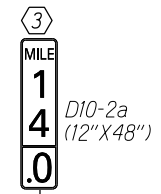
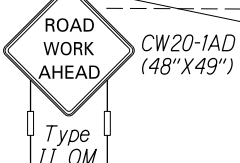
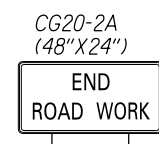
SHEET No. 76 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	53	65

O.B. @ STA. 23+76± RT. SHLDR. TO O.B. @ STA. 77+02 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.



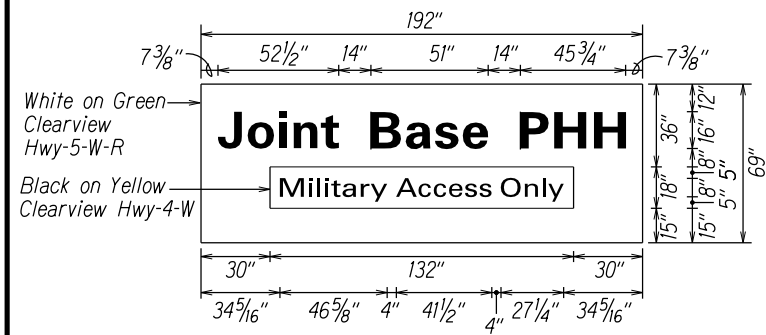
BEGIN PROJECT
 Fed. Aid Proj. No. NH-HI-1(275)
 @ Sta. 23+26±



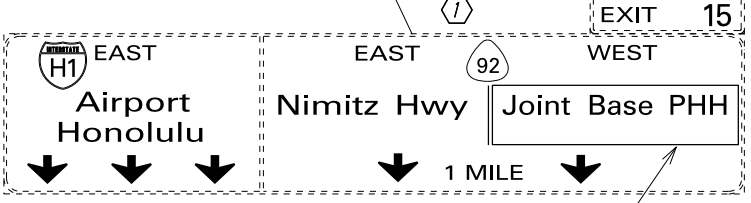
I.B. @ STA. 23+14± RT. SHLDR. TO I.B. @ STA. 69+98 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

KEY:

- ① Exist. Sign(s) to Remain
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑥ Remove Exist. Sign(s) & Post(s)
- ⑦ Remove Exist. Sign(s)
- ⑧ Install New Sign(s) & Post(s)
- ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
- ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
- ⑪ Overlay Panel Over Exist. Overhead Sign(s)



OVERLAY PANEL OVER EXIST. OVERHEAD SIGN(S)



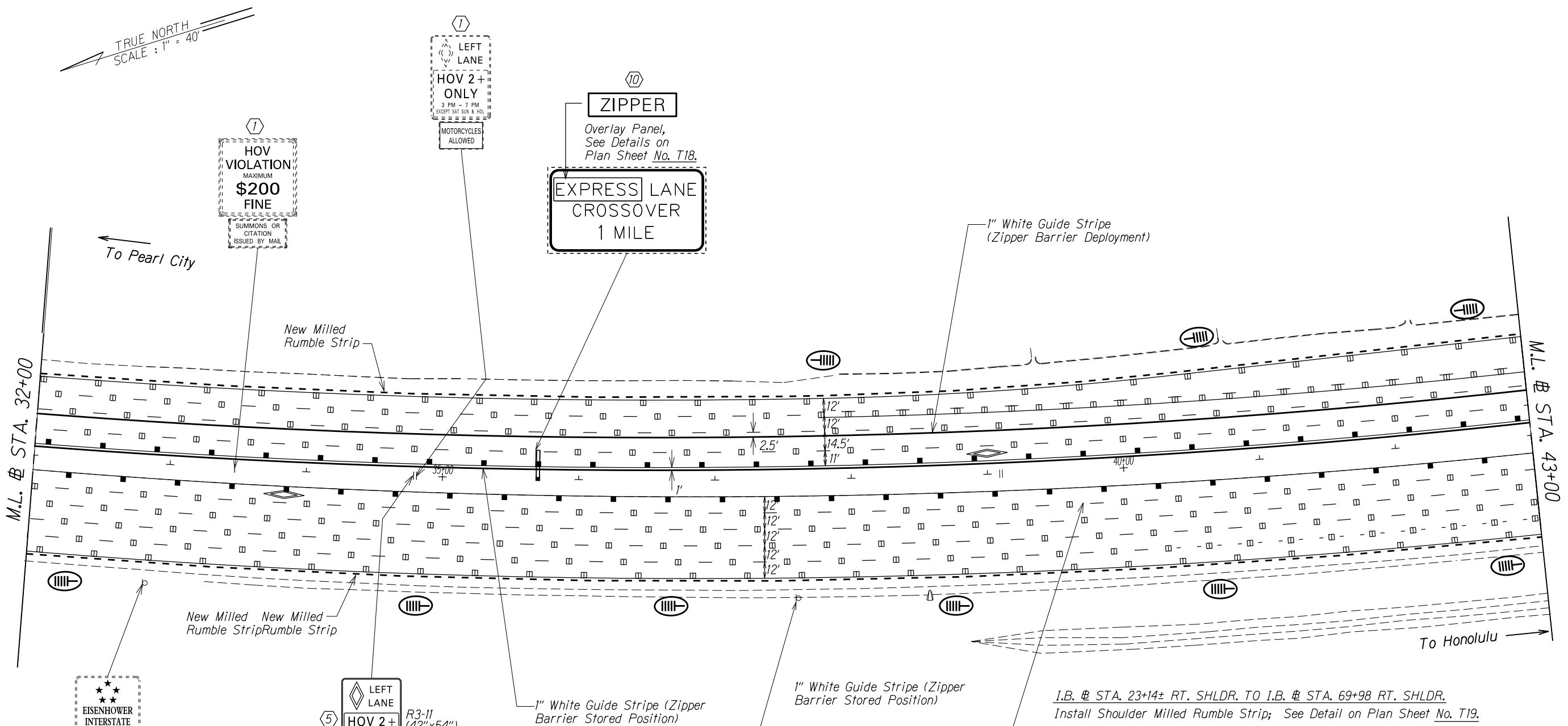
RM-5 Delineator, See Plan Notes on Plan Sheet No. T16

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & STRIPING PLAN
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-HI-1(275)
 Scale: 1" = 40' Date: June 2021
 SHEET No. 77 OF 19 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 98/11/20/1	

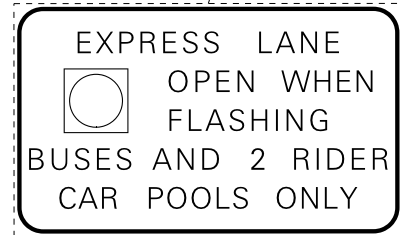
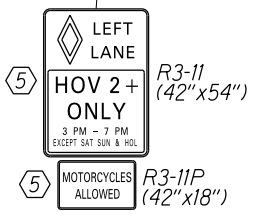
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	54	65

O.B. # STA. 23+76± RT. SHLDR. TO O.B. # STA. 77+02 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.



KEY:

- ① Exist. Sign(s) to Remain
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑥ Remove Exist. Sign(s) & Post(s)
- ⑦ Remove Exist. Sign(s)
- ⑧ Install New Sign(s) & Post(s)
- ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
- ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
- ⑪ Overlay Panel Over Exist. Overhead Sign(s)



RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

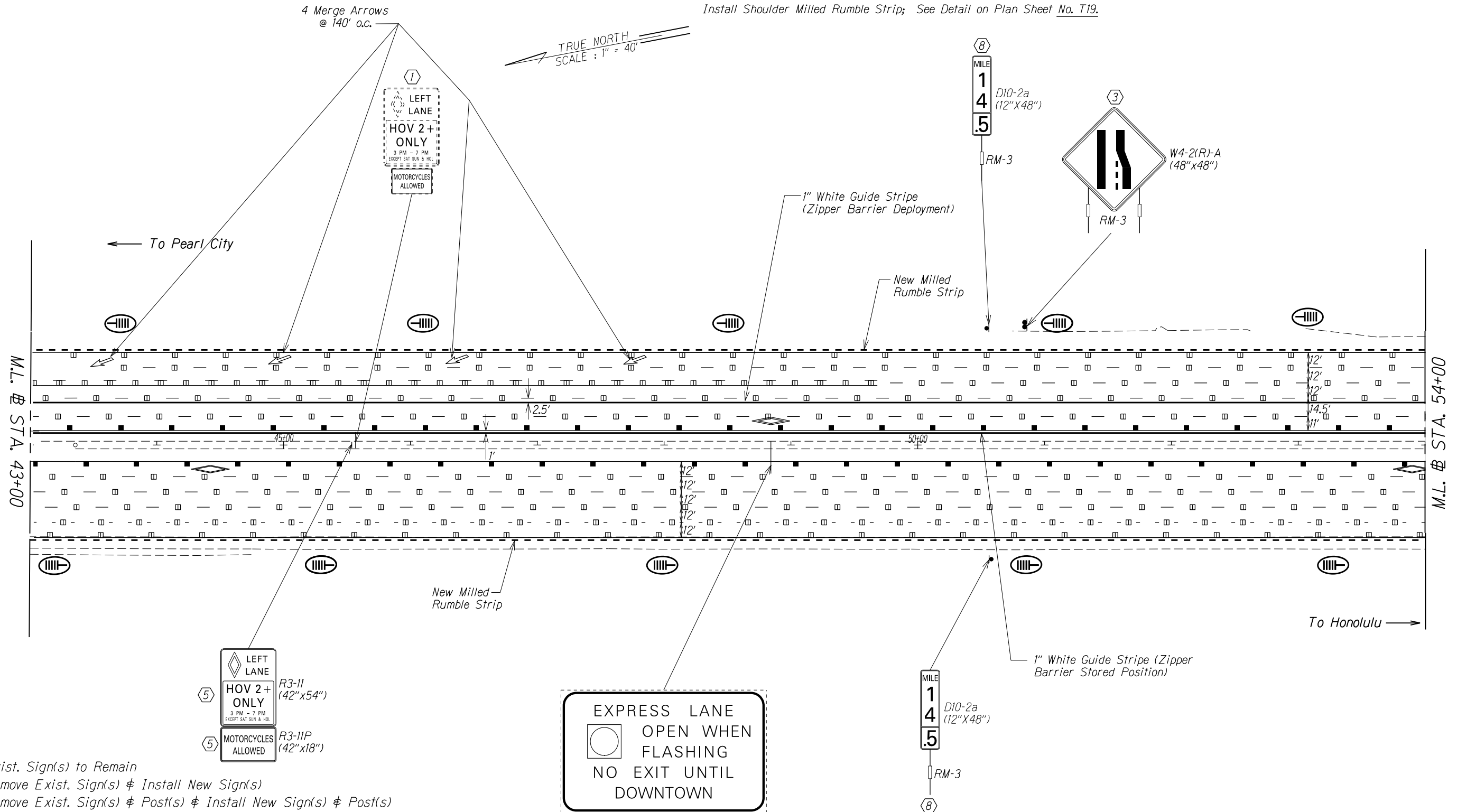
I.B. # STA. 23+14± RT. SHLDR. TO I.B. # STA. 69+98 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**PAVEMENT MARKING
 & STRIPING PLAN**
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-HI-1(275)
 Scale: 1" = 40' Date: June 2021
 SHEET No. T8 OF 19 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 99h1p02	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	55	65

O.B. # STA. 23+76± RT. SHLDR. TO O.B. # STA. 77+02 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.



KEY:

- ① Exist. Sign(s) to Remain
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑥ Remove Exist. Sign(s) & Post(s)
- ⑦ Remove Exist. Sign(s)
- ⑧ Install New Sign(s) & Post(s)
- ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
- ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
- ⑪ Overlay Panel Over Exist. Overhead Sign(s)

RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

I.B. # STA. 23+14± RT. SHLDR. TO I.B. # STA. 69+98 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
& STRIPING PLAN**

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Scale: 1" = 40' Date: June 2021

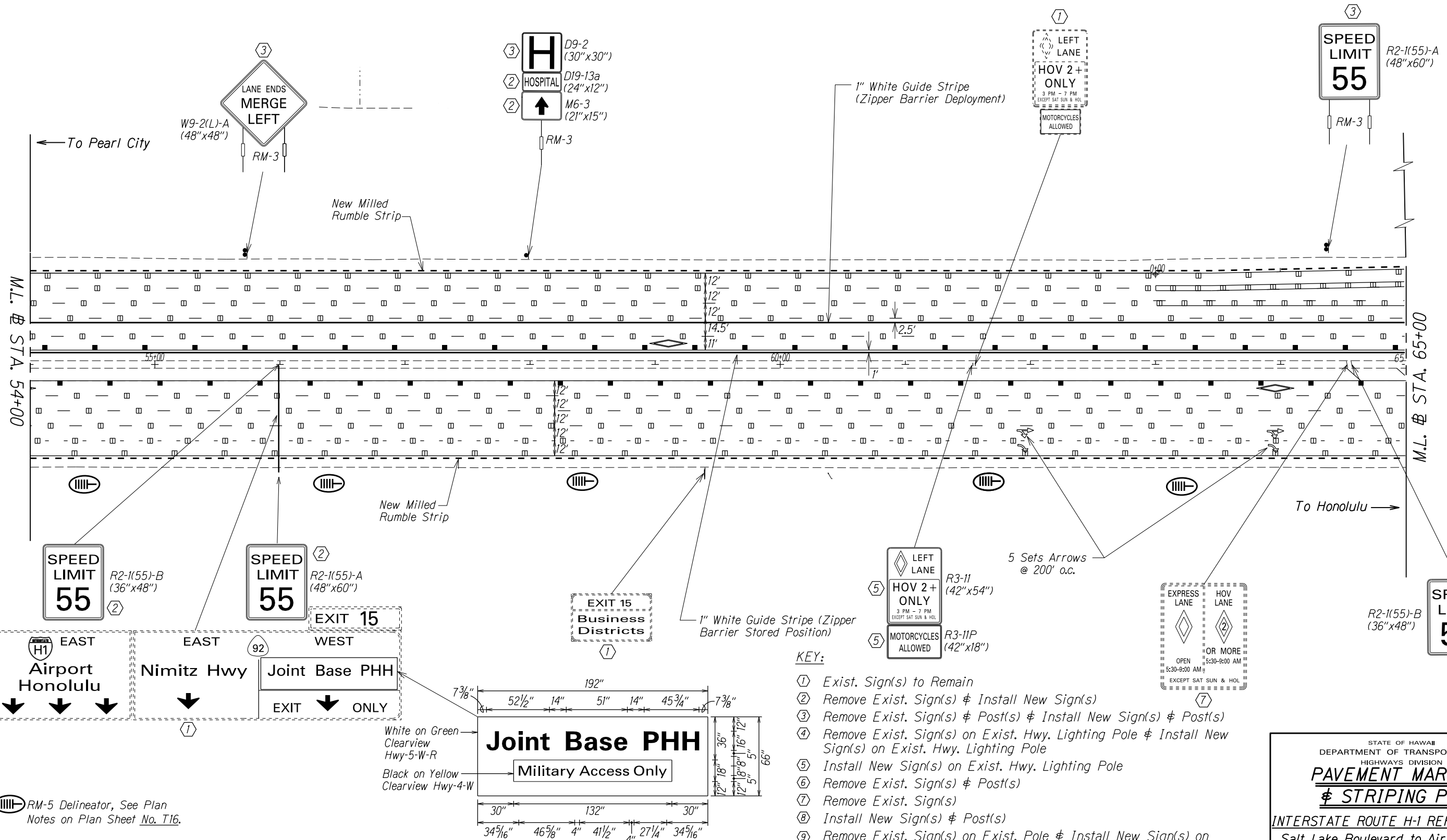
SHEET No. T9 OF 19 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 99h1p03	

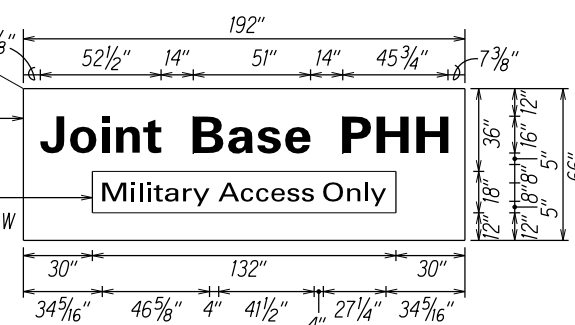
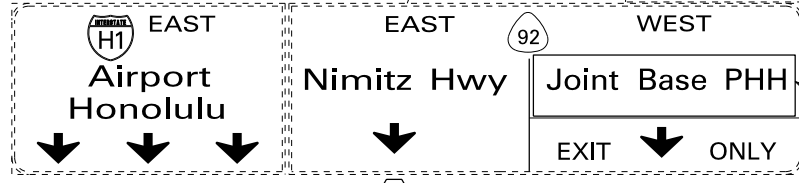
O.B. @ STA. 23+76± RT. SHLDR. TO O.B. @ STA. 77+02 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	56	65

TRUE NORTH
 SCALE: 1" = 40'



- KEY:**
- ① Exist. Sign(s) to Remain
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑥ Remove Exist. Sign(s) & Post(s)
 - ⑦ Remove Exist. Sign(s)
 - ⑧ Install New Sign(s) & Post(s)
 - ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
 - ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
 - ⑪ Overlay Panel Over Exist. Overhead Sign(s)



RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

I.B. @ STA. 23+14± RT. SHLDR. TO I.B. @ STA. 69+98 RT. SHLDR.
 Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

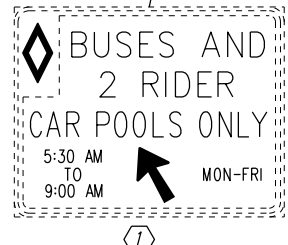
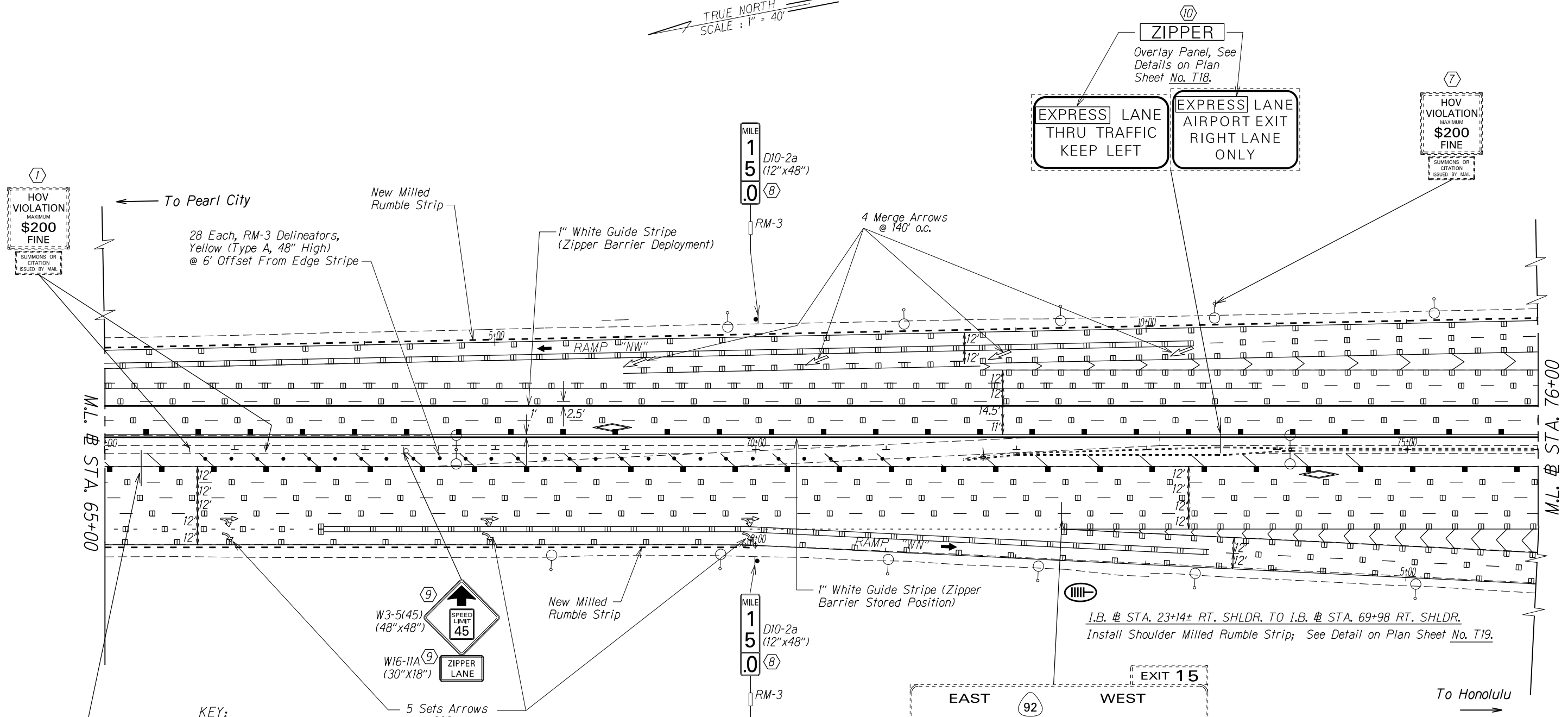
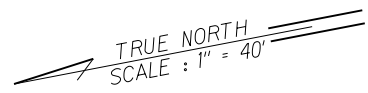
OVERLAY PANEL OVER EXIST. OVERHEAD SIGN(S)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & STRIPING PLAN
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-HI-1(275)
 Scale: 1" = 40' Date: June 2021
 SHEET No. T10 OF 19 SHEETS

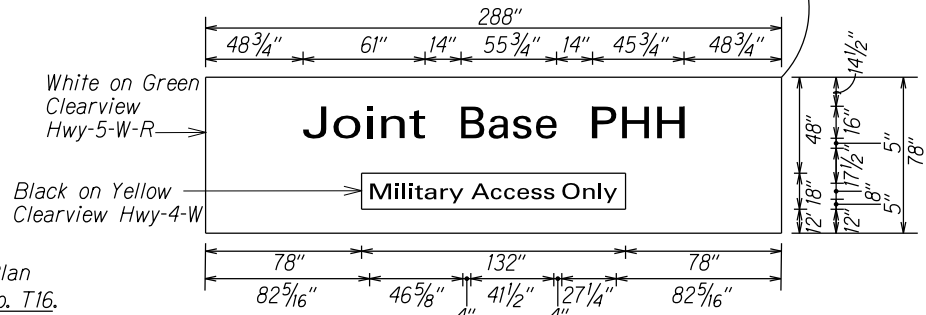
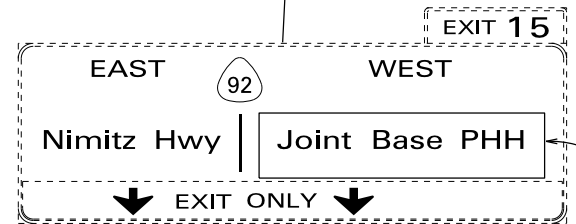
DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
NOTE BOOK	.....
QUANTITIES BY	.....
CHECKED BY	.....
ORIGINAL PLAN	.....
NOTE BOOK	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	57	65

O.B. # STA. 23+76± RT. SHLDR. TO O.B. # STA. 77+02 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.



- KEY:**
- ① Exist. Sign(s) to Remain
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑥ Remove Exist. Sign(s) & Post(s)
 - ⑦ Remove Exist. Sign(s)
 - ⑧ Install New Sign(s) & Post(s)
 - ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
 - ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
 - ⑪ Overlay Panel Over Exist. Overhead Sign(s)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & STRIPING PLAN

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Scale: 1" = 40' Date: June 2021

SHEET No. T11 OF 19 SHEETS

RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

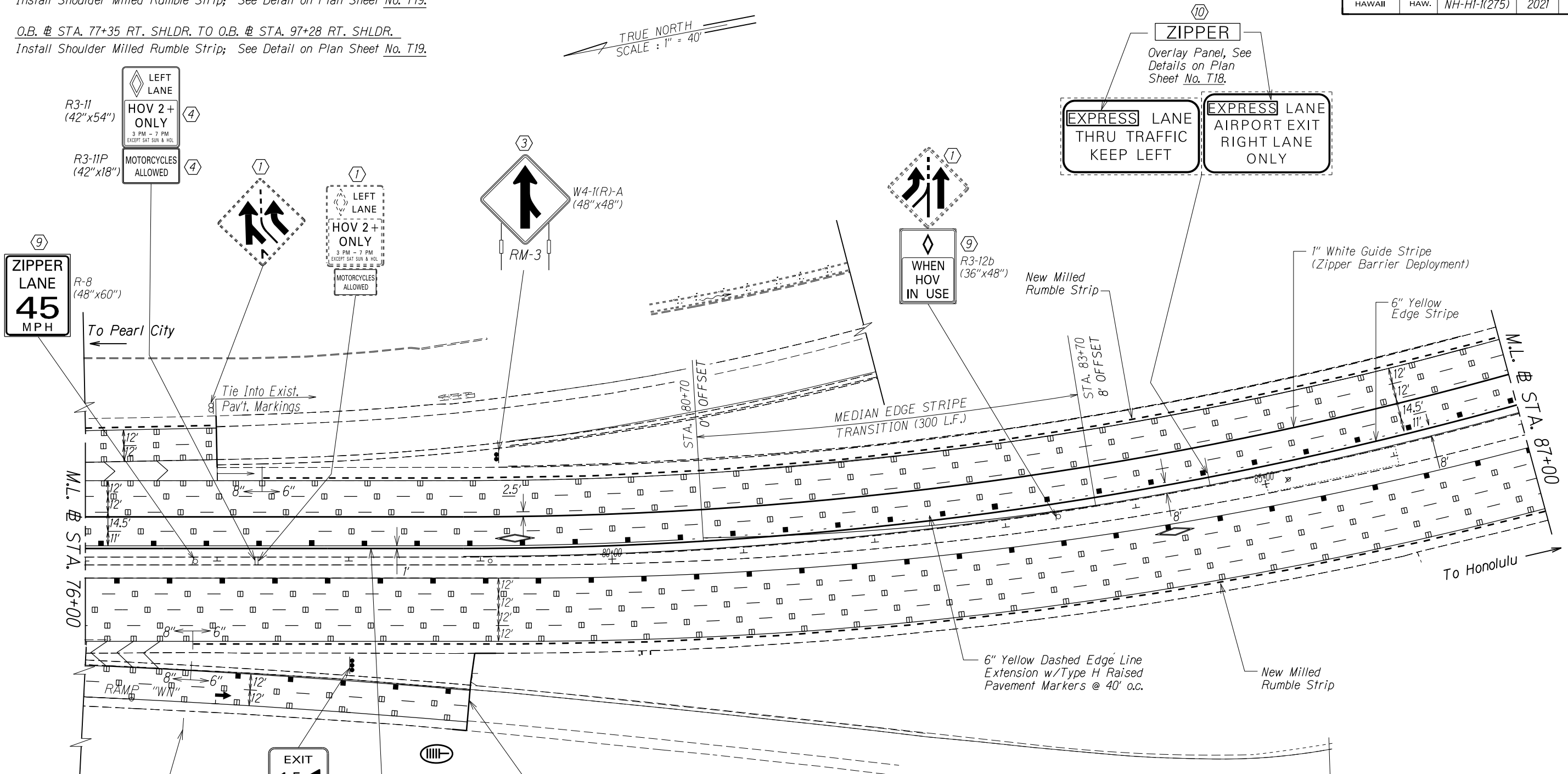
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 99/17/05	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	58	65

O.B. # STA. 23+76± RT. SHLDR. TO O.B. # STA. 77+02 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

O.B. # STA. 77+35 RT. SHLDR. TO O.B. # STA. 97+28 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

TRUE NORTH
SCALE: 1" = 40'



- KEY:**
- ① Exist. Sign(s) to Remain
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑥ Remove Exist. Sign(s) & Post(s)
 - ⑦ Remove Exist. Sign(s)
 - ⑧ Install New Sign(s) & Post(s)
 - ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
 - ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
 - ⑪ Overlay Panel Over Exist. Overhead Sign(s)

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 99h1p06	

RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

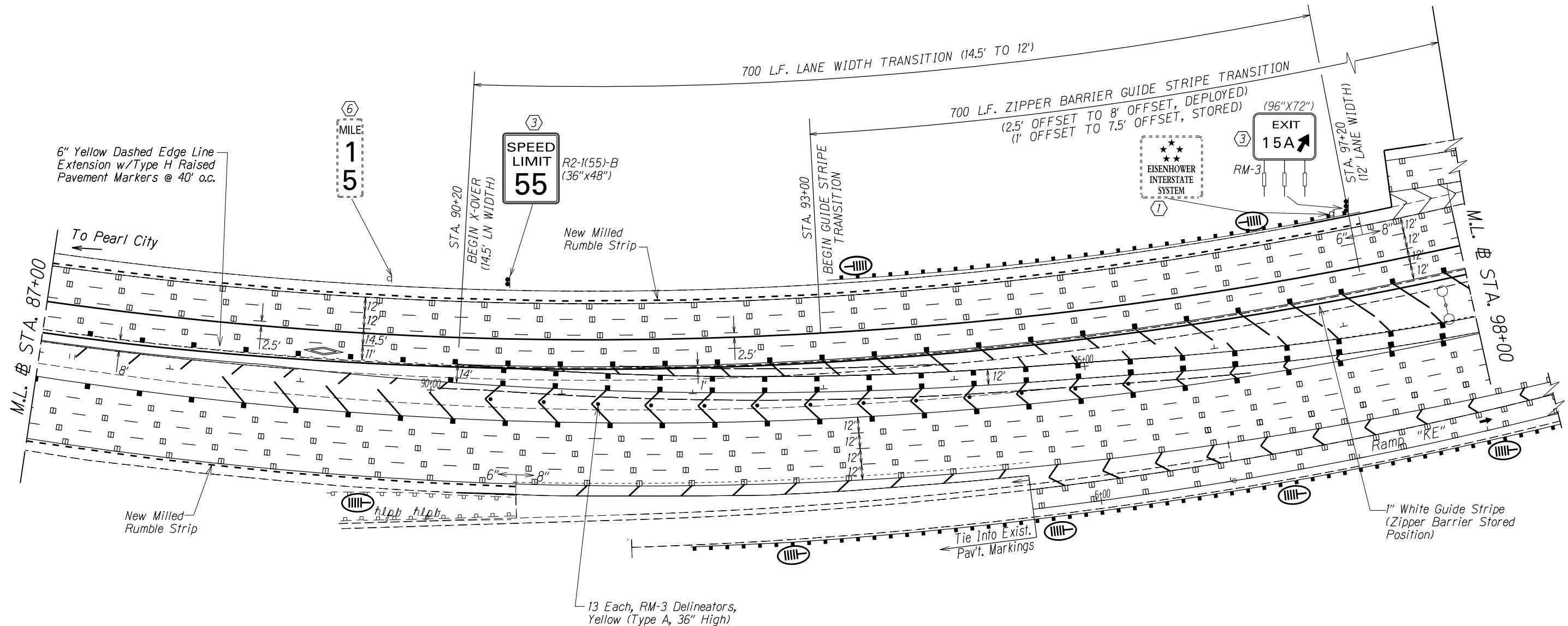
I.B. # STA. 76+82 RT. SHLDR. TO I.B. # STA. 90+65 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PAVEMENT MARKING
& STRIPING PLAN**
INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)
Scale: 1" = 40' Date: June 2021
SHEET No. T12 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	59	65

TRUE NORTH
SCALE: 1" = 40'

O.B. # STA. 77+35 RT. SHLDR. TO O.B. # STA. 97+28 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.



DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
ORIGINAL PLAN	.....
NOTE BOOK	.....
99111207A	.....

- KEY:
- ① Exist. Sign(s) to Remain
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑥ Remove Exist. Sign(s) & Post(s)
 - ⑦ Remove Exist. Sign(s)
 - ⑧ Install New Sign(s) & Post(s)
 - ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
 - ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
 - ⑪ Overlay Panel Over Exist. Overhead Sign(s)

RM-5 Delineator, See Plan
Notes on Plan Sheet No. T16.

I.B. # STA. 76+82 RT. SHLDR. TO I.B. # STA. 90+65 RT. SHLDR.
Install Shoulder Milled Rumble Strip; See Detail on Plan Sheet No. T19.

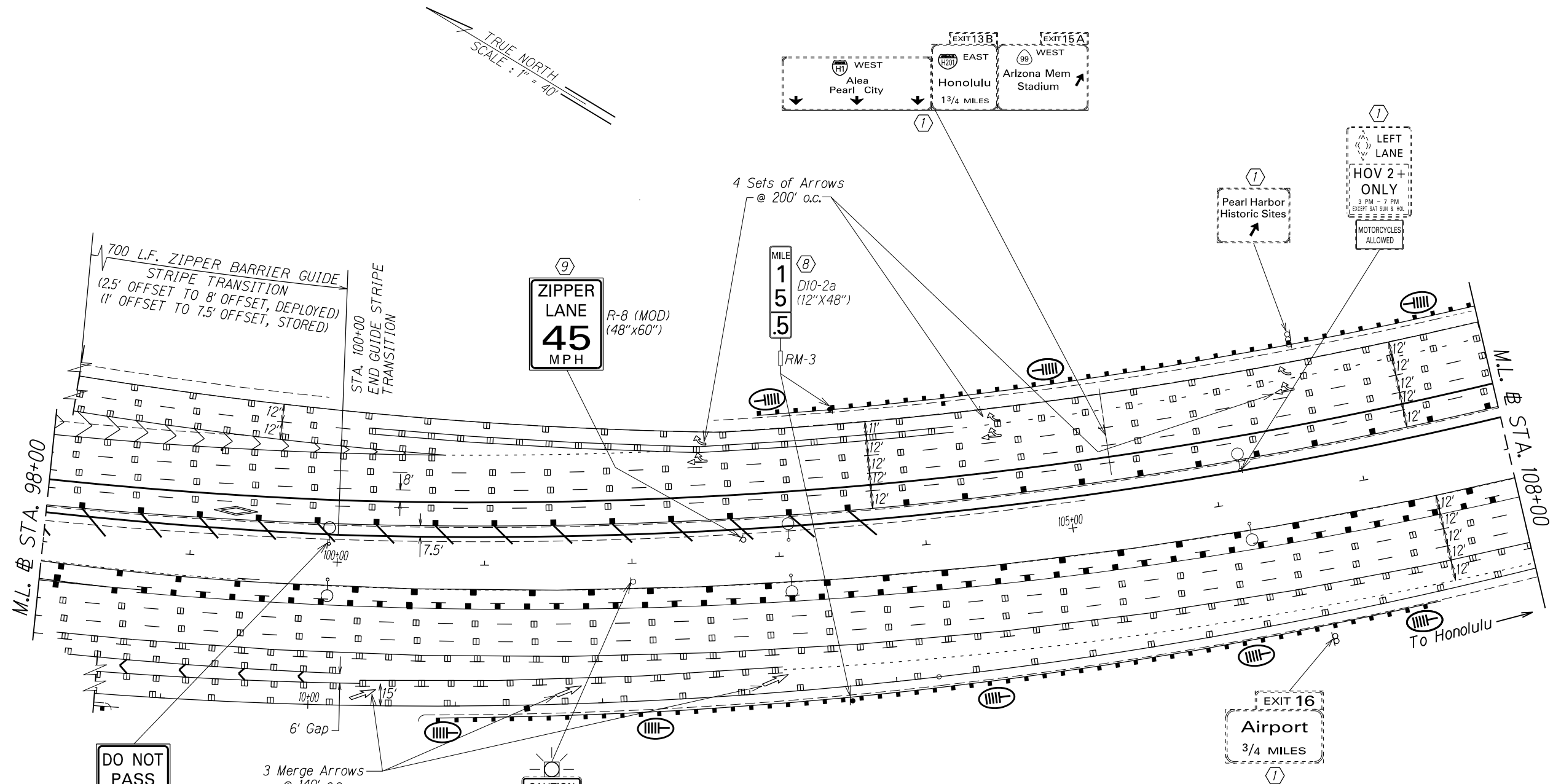
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
& STRIPING PLAN**

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Scale: 1" = 40' Date: June 2021

SHEET No. T13 OF 19 SHEETS



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

DO NOT PASS IN ZIPPER LANE
R-4-18 (48"x72")

CAUTION SLOW MOVING VEHICLE WHEN FLASHING

- KEY:**
- ① Exist. Sign(s) to Remain
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
 - ⑥ Remove Exist. Sign(s) & Post(s)
 - ⑦ Remove Exist. Sign(s)
 - ⑧ Install New Sign(s) & Post(s)
 - ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
 - ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
 - ⑪ Overlay Panel Over Exist. Overhead Sign(s)

RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & STRIPING PLAN

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Scale: 1" = 40' Date: June 2021

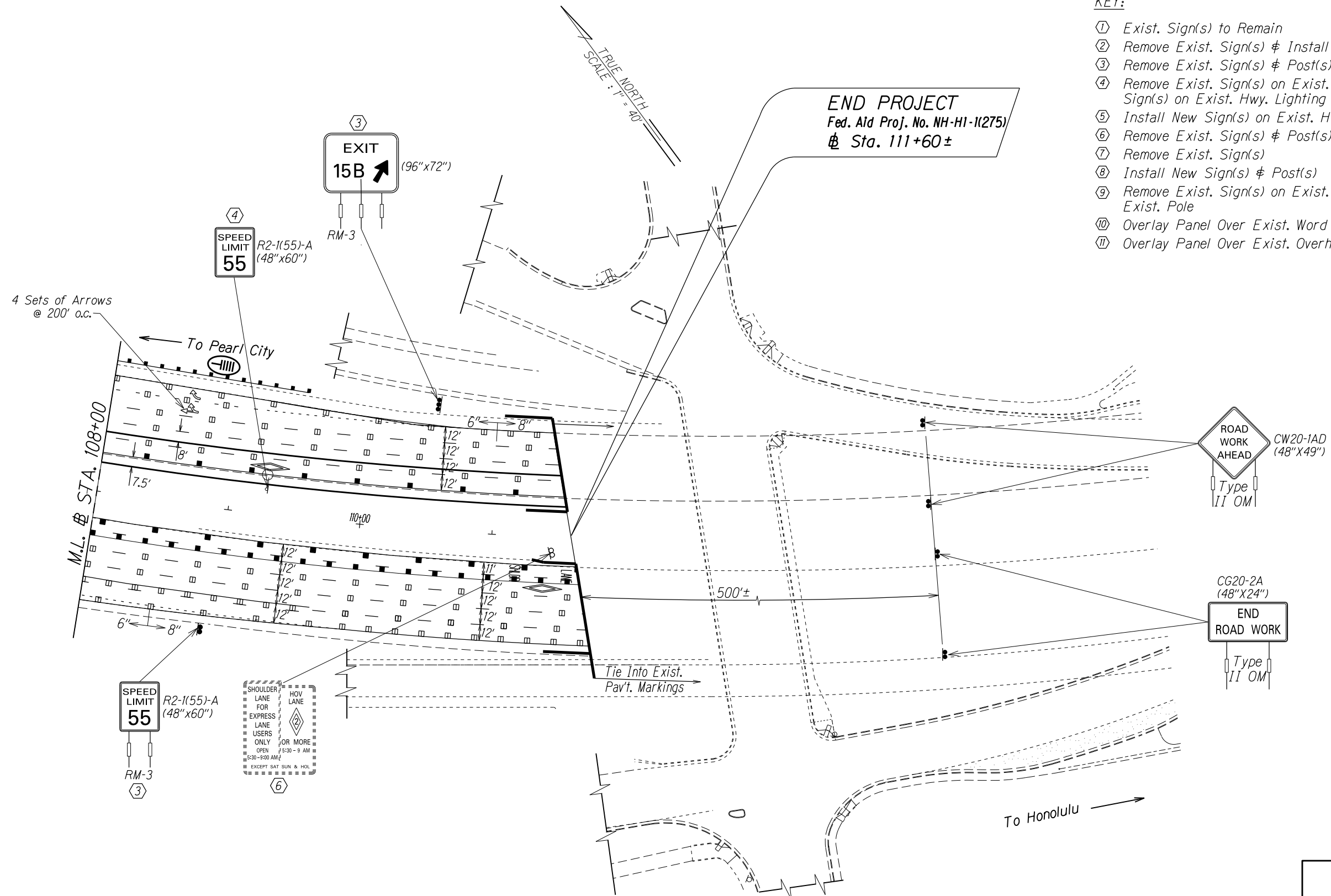
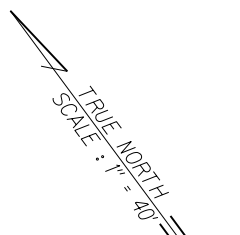
SHEET No. T14 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	61	65

KEY:

- ① Exist. Sign(s) to Remain
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ④ Remove Exist. Sign(s) on Exist. Hwy. Lighting Pole & Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑤ Install New Sign(s) on Exist. Hwy. Lighting Pole
- ⑥ Remove Exist. Sign(s) & Post(s)
- ⑦ Remove Exist. Sign(s)
- ⑧ Install New Sign(s) & Post(s)
- ⑨ Remove Exist. Sign(s) on Exist. Pole & Install New Sign(s) on Exist. Pole
- ⑩ Overlay Panel Over Exist. Word "EXPRESS" on Exist. Sign(s)
- ⑪ Overlay Panel Over Exist. Overhead Sign(s)

END PROJECT
 Fed. Aid Proj. No. NH-HI-1(275)
 @ Sta. 111+60±

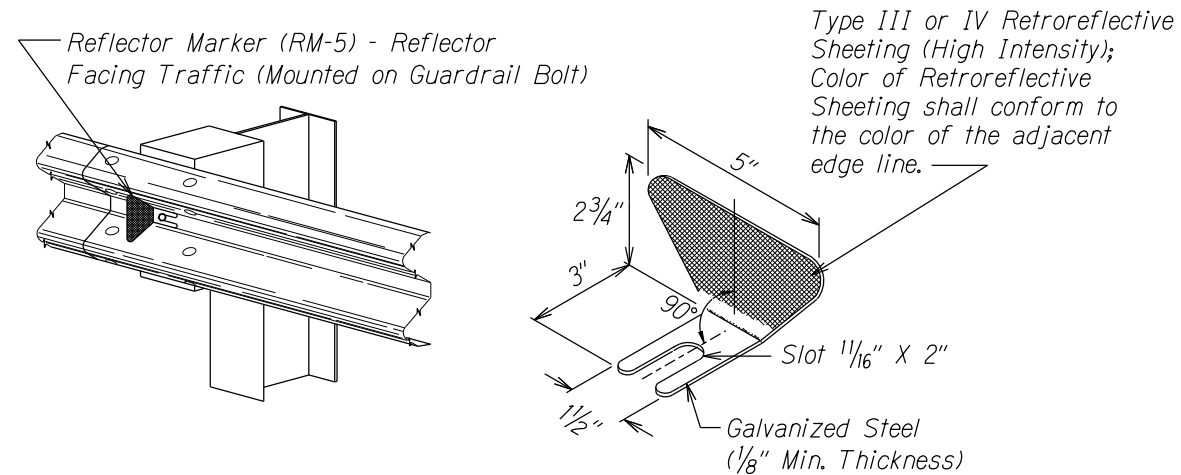
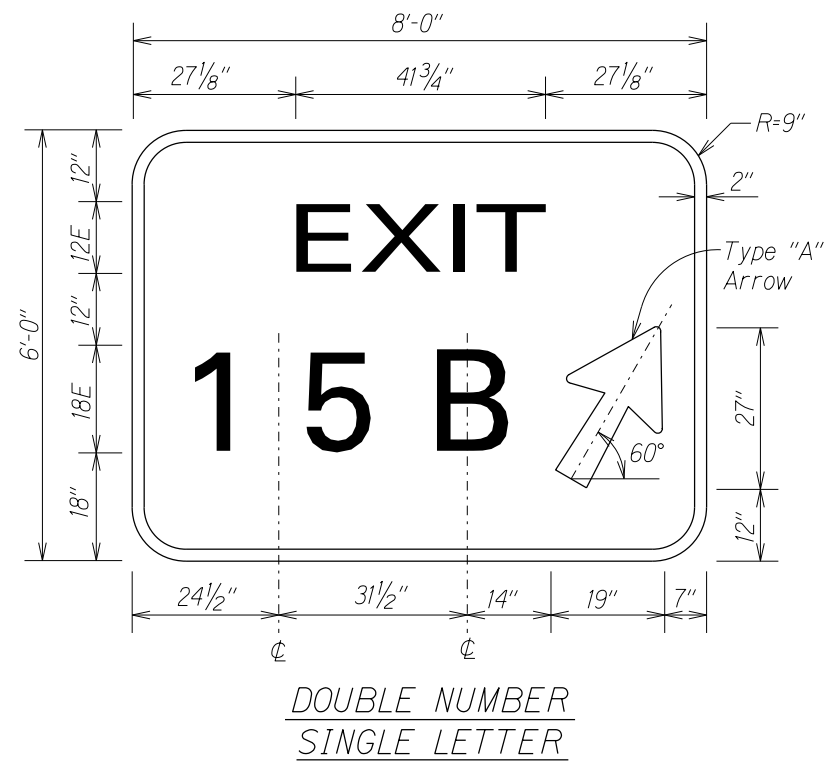
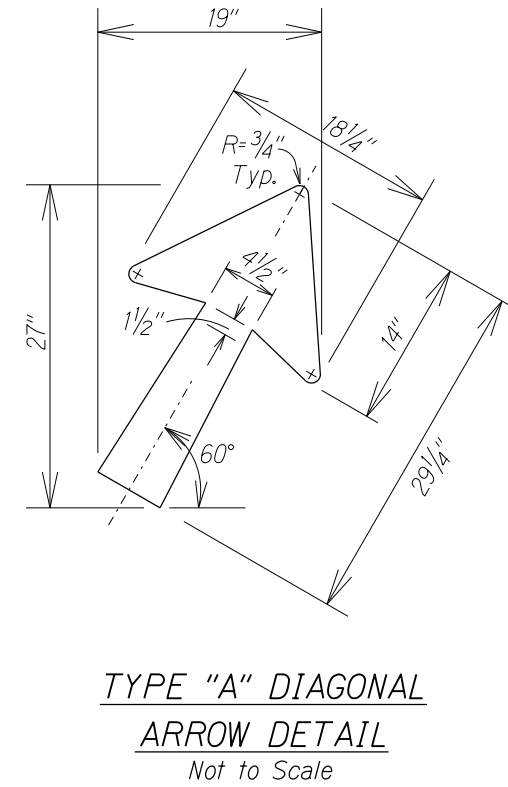
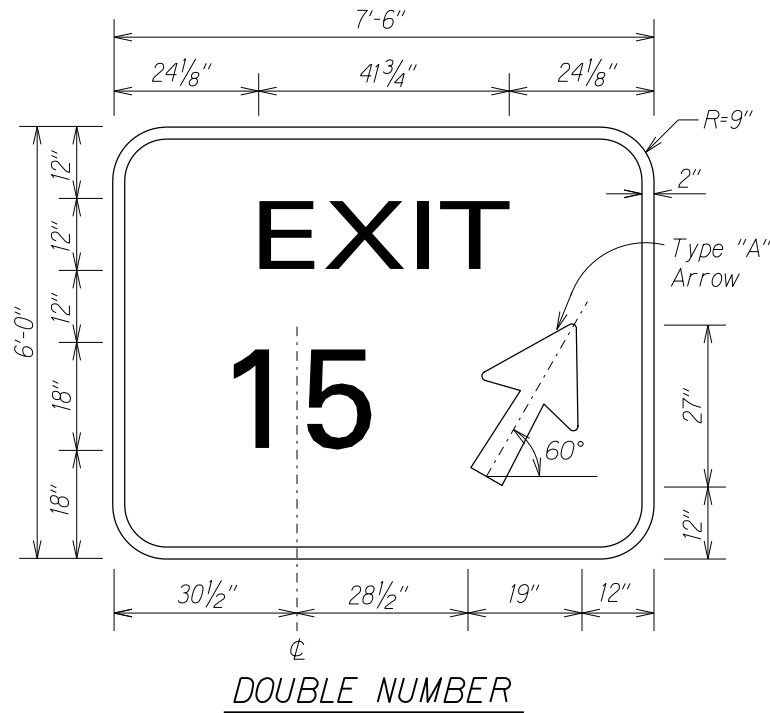
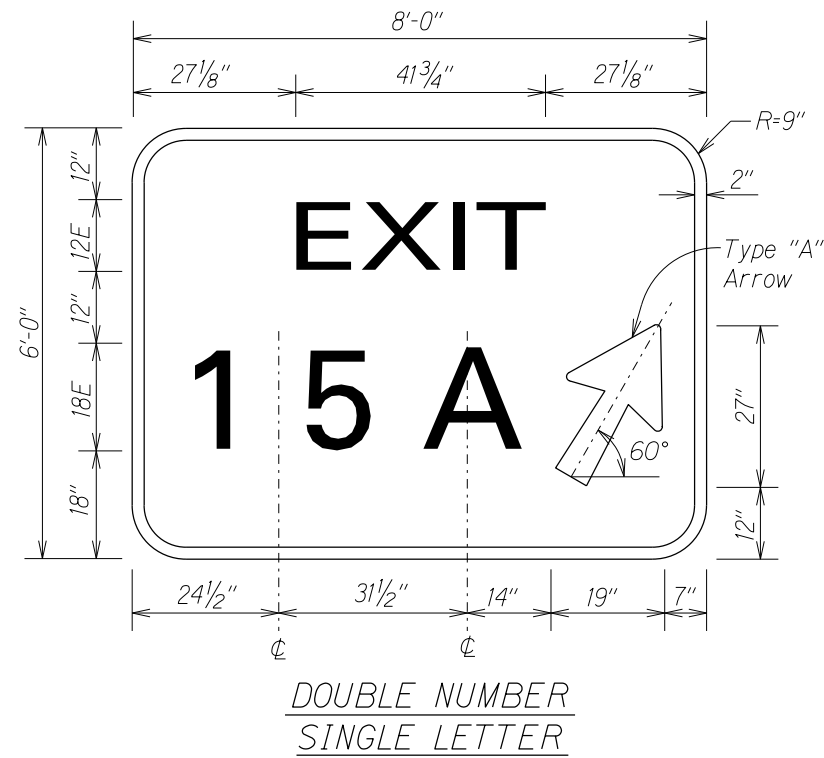


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. 99h1p08	

RM-5 Delineator, See Plan Notes on Plan Sheet No. T16.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING
& STRIPING PLAN
 INTERSTATE ROUTE H-1 REHABILITATION
 Salt Lake Boulevard to Airport Viaduct
 Federal-Aid Project No. NH-HI-1(275)
 Scale: 1" = 40' Date: June 2021
 SHEET No. T15 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	62	65



Note:

Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. RM-5's shall not be installed on Terminal Sections. Furnishing and installing of each RM-5 shall be paid for under Contract Item No. 632.4200 - Reflector Marker (RM-5) mounted on new and existing guardrail. The Contractor shall be responsible for mounting RM-5's on all new and existing metal guardrails even when not shown on plans.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

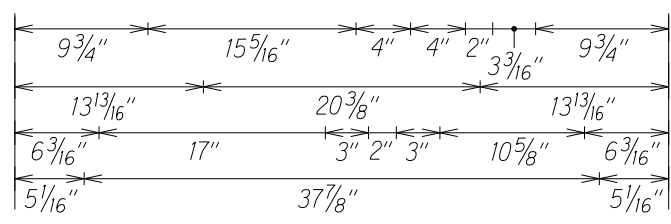
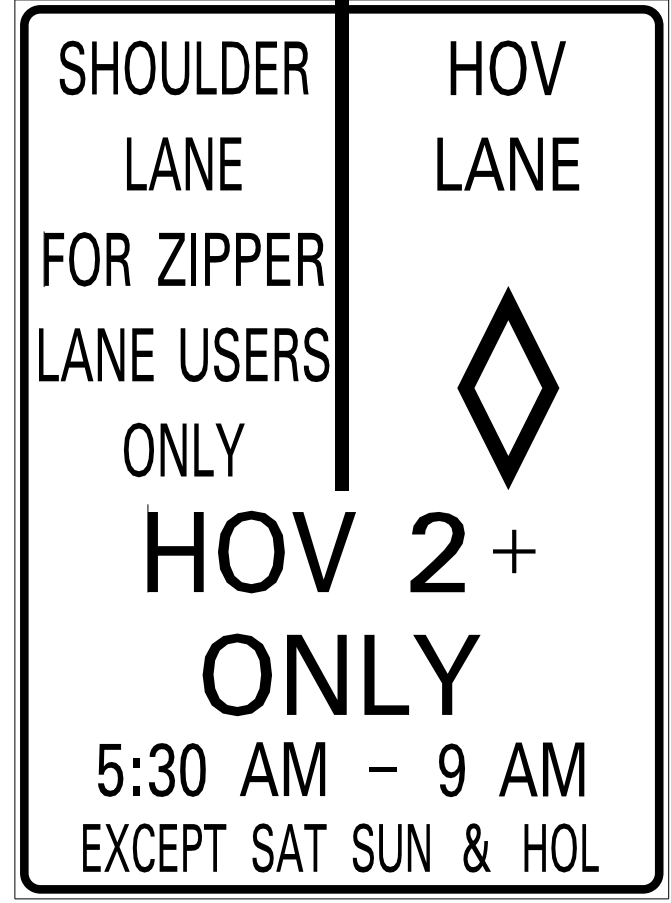
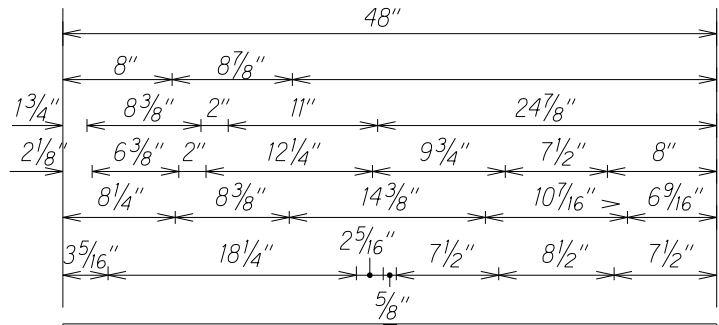
MISCELLANEOUS SIGN DETAILS

INTERSTATE ROUTE H-1 RHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-H1-1(275)

Not to Scale Date: June 2021

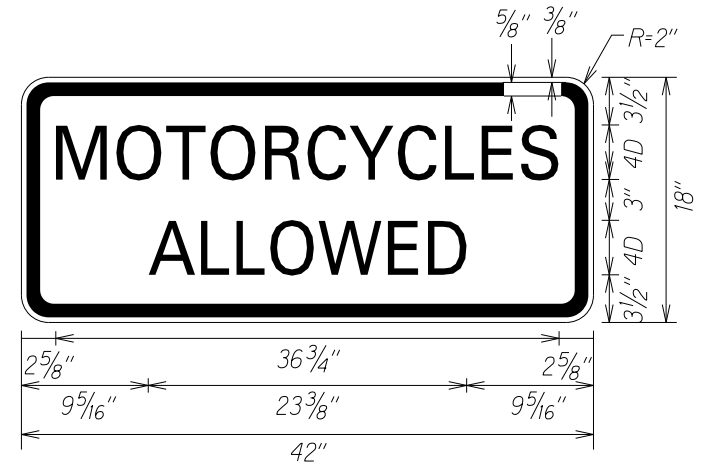
SHEET No. T16 OF 19 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
99/htmscl	

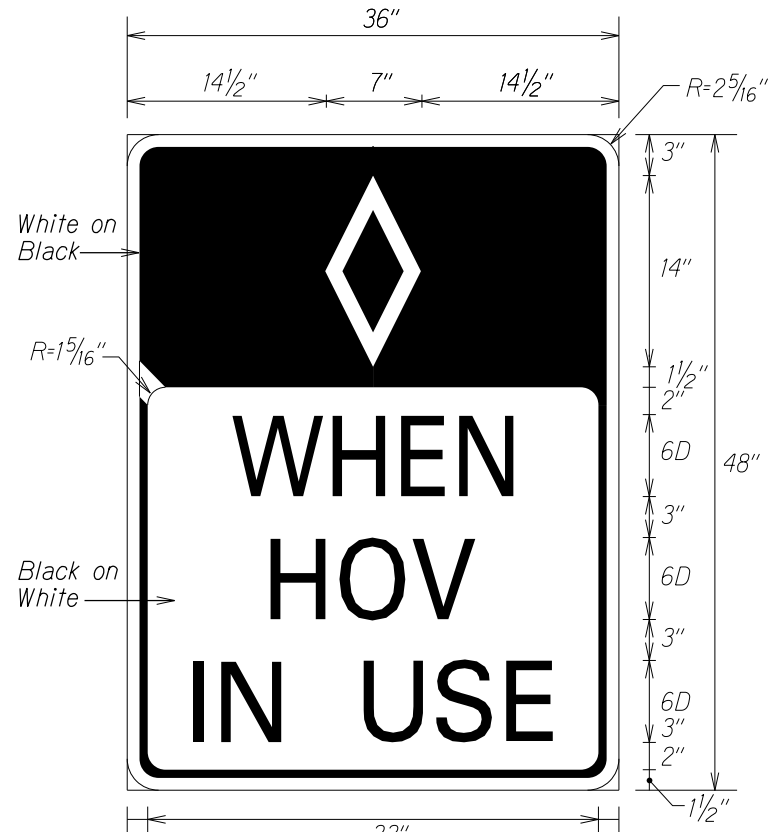


R3-11a

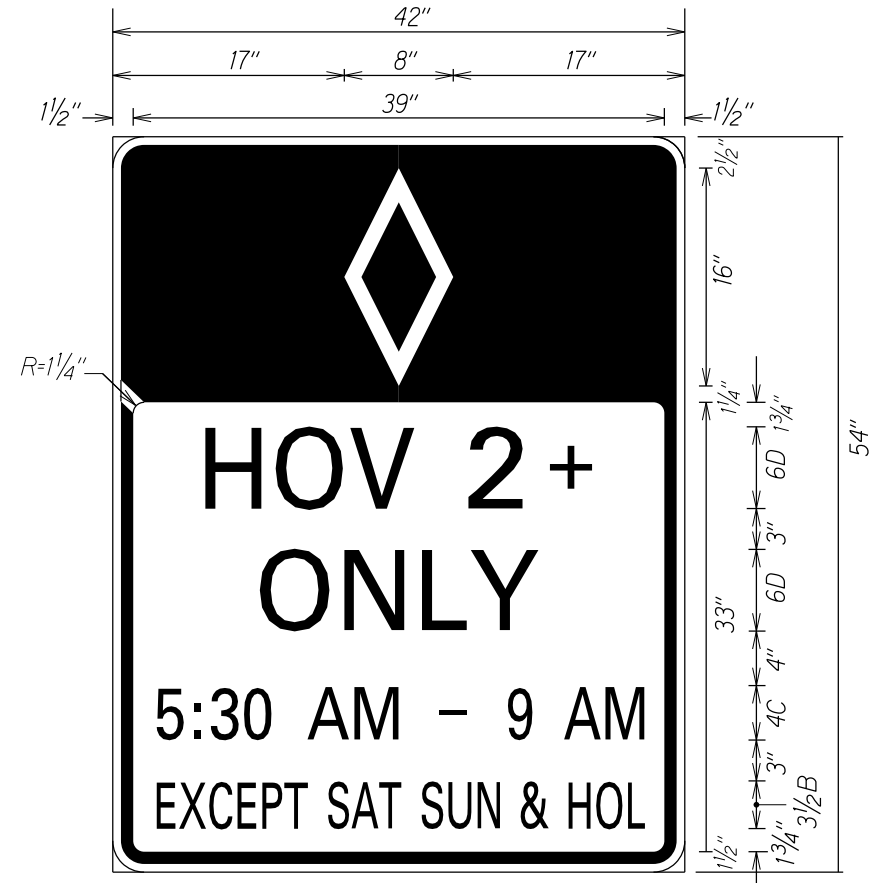
1 1/2" Radius, 5/8" Border,
3/8" Indent, Black on White



R3-11P
Black on White

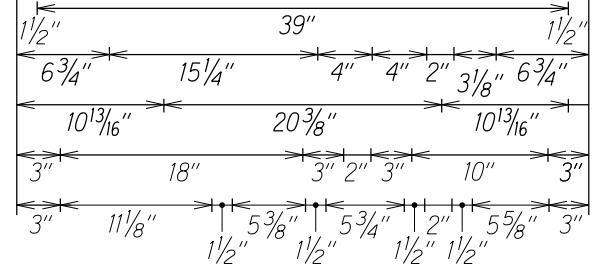


R3-12b



R3-11

2 1/4" Radius, 5/8" Border, White on Black
1 1/4" Radius, 0" Border, Black on White



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNER'S NO.	
CHECKER'S NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

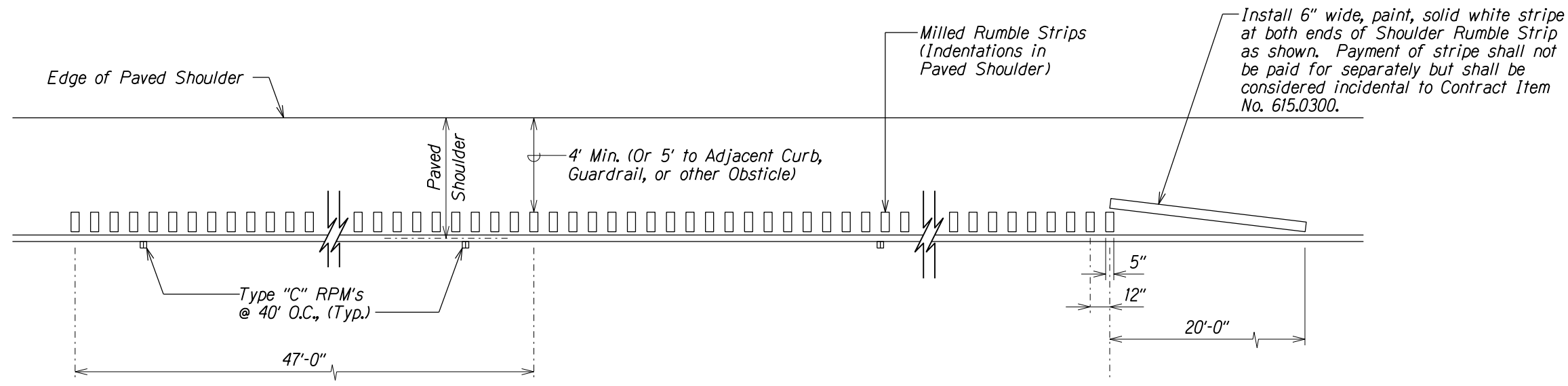
MISCELLANEOUS SIGN DETAILS

INTERSTATE ROUTE H-1 RHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-H1-1(275)

Not to Scale Date: June 2021

SHEET No. T17 OF 19 SHEETS

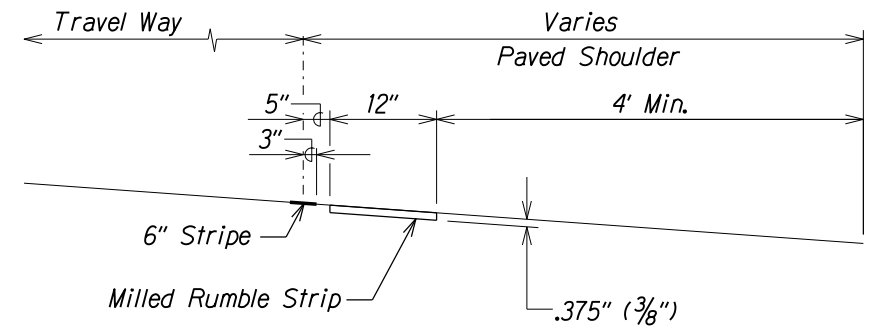
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(275)	2021	65	65



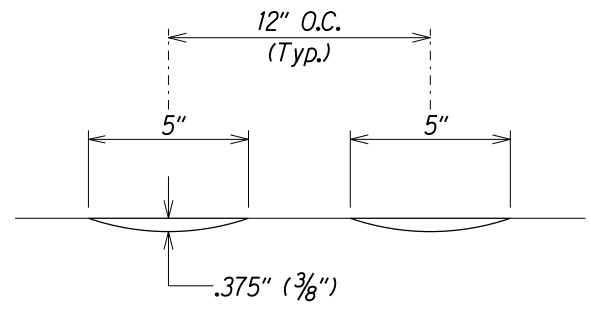
PLAN - MILLED RUMBLE STRIP
Not to Scale

NOTES:

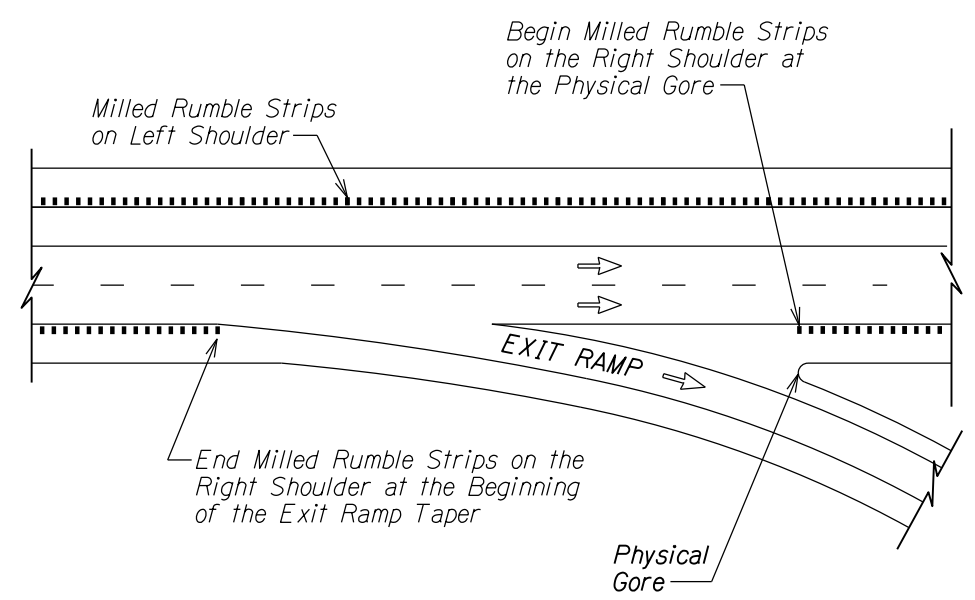
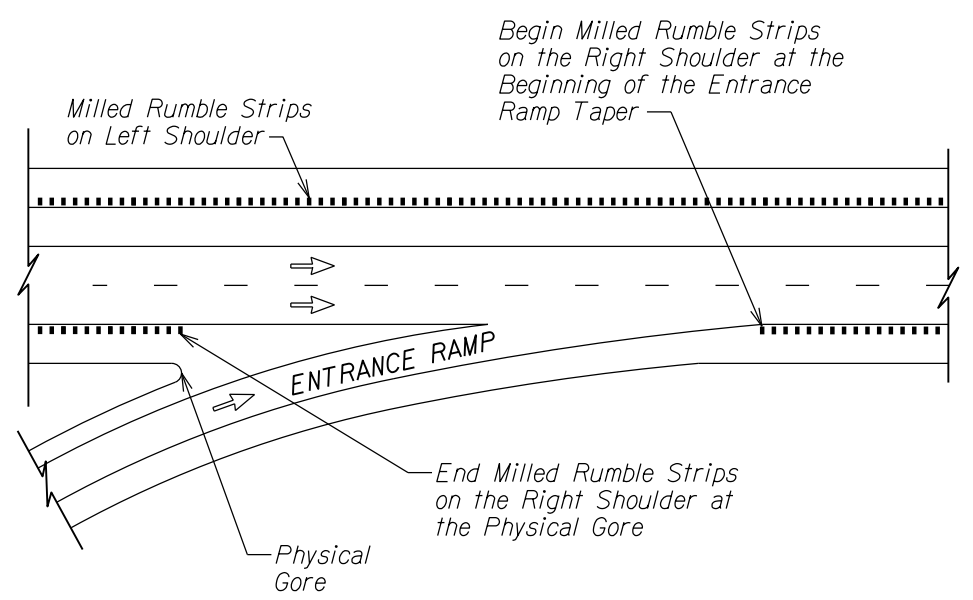
1. Dimensions Shown are Approximate. Adjust Rumble Strip Spacing to Coordinate with Pavement Marking Prior to Installation.
2. The Construction of the Shoulder Milled Rumble Strip and shall be Paid for Under Item No. 615.0300 - 12-Inch Milled Rumble Strip, Shoulder.
3. The Milling Apparatus will not be Paid for Separately and Shall be Considered Incidental to Item 615.0300 - 12-Inch Milled Rumble Strip, Shoulder.
4. Do not Install Shoulder Rumble Strips on Bridge Decks.
5. Where At-Grade Bridges are Present, Rumble Strips Shall End/Begin 20 L.F. Beyond the Existing Bridge Deck Joints/Concrete Approach Slab.
6. Where Median Concrete Barrier are Present, Do Not Install Rumble Strips where Shoulder is 4 Feet or Less.



LONGITUDINAL SECTION - MILLED RUMBLE STRIP
Not to Scale



CROSS SECTION - MILLED RUMBLE STRIP
Not to Scale



INTERSTATE FREEWAY
Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER MILLED RUMBLE STRIP
DETAILS FOR INTERSTATE FREEWAYS

INTERSTATE ROUTE H-1 REHABILITATION
Salt Lake Boulevard to Airport Viaduct
Federal-Aid Project No. NH-HI-1(275)

Not to Scale Date: June 2021

SHEET No. T19 OF 19 SHEETS