

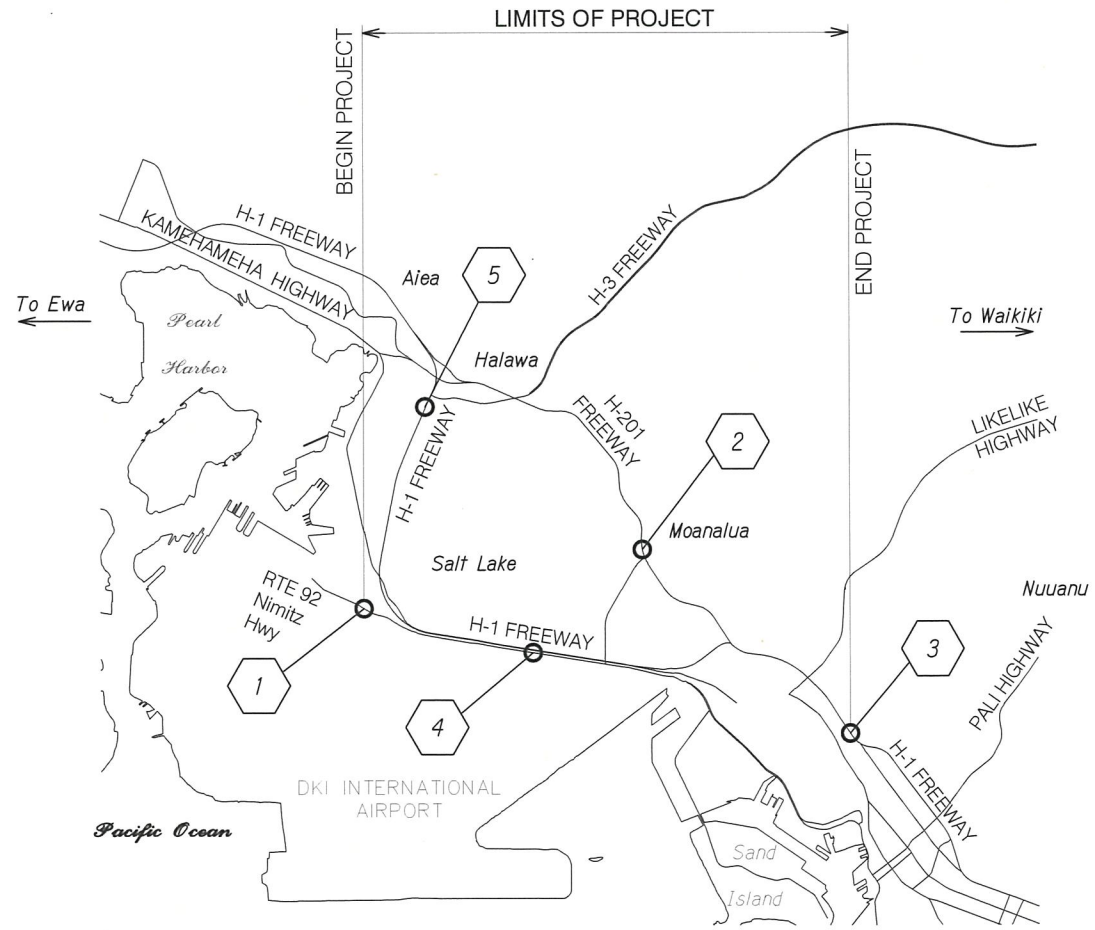
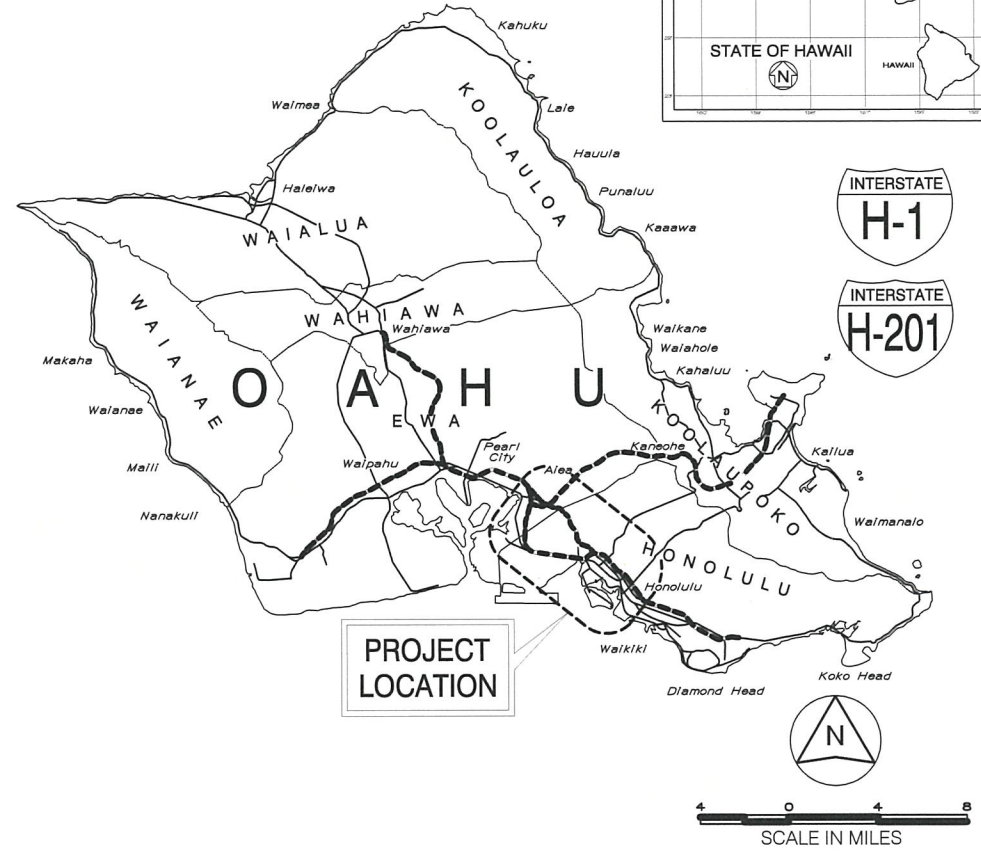
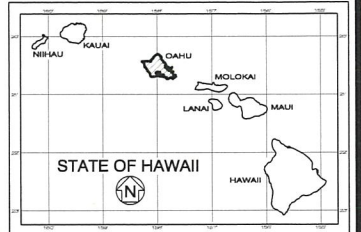
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SHEET NO.	DESCRIPTION
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10	GENERAL LAYOUT PLAN
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII

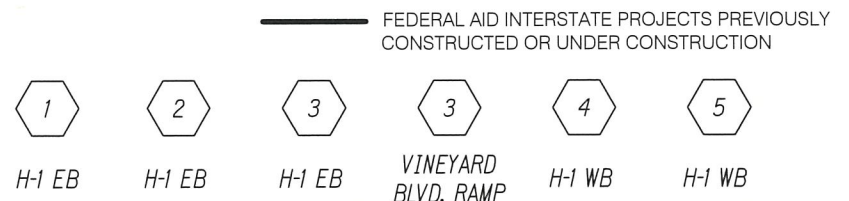
PLANS FOR
INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FEDERAL-AID PROJECT NO. NH-0300(144)

DISTRICT OF HONOLULU
ISLAND OF OAHU

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	1	175



- 1 SIGN H1EBR - 253
ROUTE 92
NIMITZ HIGHWAY,
BEGIN MILEPOST = 0.60
END MILEPOST = 0.60
- 2 SIGN 78EBR - 830
INTERSTATE ROUTE H-201
MOANALOA FREEWAY
BEGIN MILEPOST = 0.81
END MILEPOST = 0.81
- 3 SIGN H1EB - 305
INTERSTATE ROUTE H-1
LUNALILO FREEWAY
BEGIN MILEPOST = 20.24
END MILEPOST = 20.24
- 4 SIGN H1WB - 505
INTERSTATE ROUTE H-1
AIRPORT VIADUCT
BEGIN MILEPOST = (-) 17.14
END MILEPOST = (-) 17.14
- 5 SIGN H1WB - 511
INTERSTATE ROUTE H-1
NORTH LEG VIADUCT
BEGIN MILEPOST = (-) 13.75
END MILEPOST = (-) 13.75



	H-1 EB	H-1 EB	H-1 EB	VINEYARD BLVD. RAMP	H-1 WB	H-1 WB
2022 ADT	24,000	15,800	120,600	17,800	69,800	67,200
2032 ADT	25,700	16,300	128,500	19,000	74,800	71,700
2042 ADT	27,400	16,600	136,600	20,200	79,800	76,200
2032 DHV	3,860	1,390	9,640	1,430	7,110	6,450
2042 DHV	4,110	1,410	10,250	1,520	7,580	6,860
Des K	15.0	8.5	7.5	7.5	9.5	9.0
Des D	100/0	100/0	100/0	100/0	100/0	100/0
Des T	7.0	3.5	4.0	4.0	5.0	5.0
T24	8.0	4.0	4.5	4.5	6.0	6.0

DESIGNED BY KSF, INC.
HWY-DB P. S. & E. BY
(808) 692-7611 PHONE
SEPT. 2022 DATE

LAYOUT PLAN
NOT TO SCALE

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII
APPROVED:
for DIR. OF TRANSPORTATION DATE

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	2	175

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	05/31/07
	CAN DETAILS	
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
TE-31	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
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 ●)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

*INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)*

Scale: As Noted Date: Sept. 2022

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY: _____ DATE: _____
 DRAWN BY: _____
 TRACED BY: _____
 DESIGNED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 No. _____

DRAWING NAME: Z:\00_ONGOING\00_0F_PROJECTS\16-006-DESTINATION SIGNS\01_CAD\09-30-22_BID\0511-1002_STDPANSUM.DWG PLOT TIME: 09-29-22, 4:14 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	4	175

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES:

1. The Contractor shall observe and comply with all Federal, State, and Local laws required for the protection of public health and safety and environmental quality.
2. The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health. The City may require supplementary measures as necessary.
3. The Contractor's attention is directed to Chapter 448, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control for Oahu" in which maximum allowable noise levels have been set. If the construction activities for this project will exceed the allowable noise levels, the Contractor will be required to obtain a permit from the Director of the Department of Health. The Contractor shall obtain a copy of Chapter 448 and become familiar with the noise level restrictions and the procedures for obtaining a Permit for construction activities.
4. The Contractor is to comply with the directions of the State of Hawaii Occupation Safety and Health Law (DOSH).

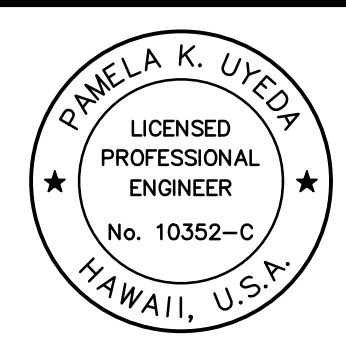
HISTORICAL PRESERVATION NOTES:

1. 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, and the find shall be protected from further damage. The Contractor shall cordon off the area and immediately notify the State Historic Preservation Division at (808) 692-8015, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary. In addition, if human burials are found, the Contractor shall immediately notify the Honolulu Police Department.

NOTES FOR PROTECTION OF ENDANGERED SPECIES:

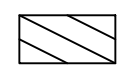
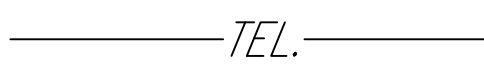








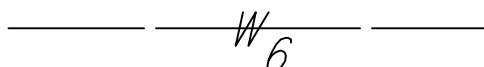
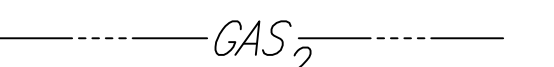
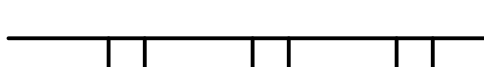
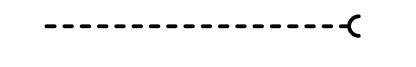

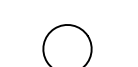



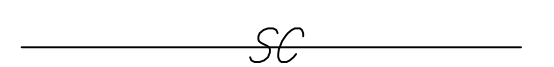
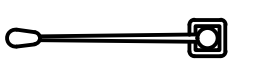




1. If nighttime construction occurs, all lighting shall be shielded and directed towards the ground to avoid attracting adult seabirds as they travel from the ocean to their breeding areas. No night work will be allowed during the shearwater fledging period of September 15th to December 15th.
2. Automatic motion sensor switches and timer controls shall be installed on all outdoor lights or manually turned off when activity is not occurring in the lighted area.
3. Woody plants taller than 15 feet shall not be disturbed, removed, or trimmed during the bat birthing and pup-rearing season between June 1st and September 15th.

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

 <p>PAMELA K. UYEDA LICENSED PROFESSIONAL ENGINEER No. 10352-C HAWAII, U.S.A.</p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<p><u>GENERAL NOTES</u></p> <p><i>INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)</i></p>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. SIGNATURE: <i>Paul K. King</i> EXPIRATION DATE OF THE LICENSE: 04/30/24	Scale: None Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	5	175

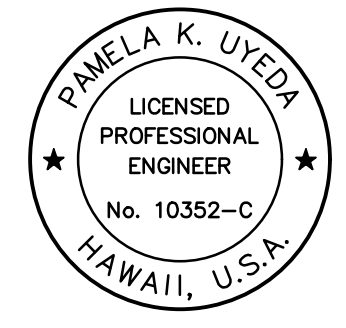

LEGEND:

EXISTING			
	CATV BOX		TELEPHONE LINE
	DI		TREE
D_{24}	24" DRAIN LINE		U.P./S.L.
	ELEC. LINE		U.P./CONDUIT
	ELEC MH		UTILITY BOX
	ELEC. BOX		6" WATERLINE
	2" GAS LINE		GuardRail
	G.W.		
	L.P.		
	MH		
	OVERHEAD LINE		
	SCMH		
	SDMH		
	SIGNAL CORPS LINE		
	S.L.		
	SLB		
	STREET MONUMENT		
	TEL BOX		
	TEL. MH		

ABBREVIATIONS:

AC	Asphalt Concrete
#	Baseline
BC	Bottom Curb
BOT.	Bottom
BW	Bottom Wall
CATV	Cable Television
C.B.	Catch Basin
CLF	Chain Link Fence
COL.	Column
COMM	Communications
CONC.	Concrete
D	Diameter or Drain
DI	Drain Inlet
E/ELEC.	Electric
ELEV/EL.	Elevation
EMH	Electric Manhole
EP	Edge of Pavement
ES	Edge of Shoulder
EXIST.	Existing
G	Gas
G.W.	Guy Wire
H	Height
HMA	Hot Mix Asphalt
INV.	Invert
JBPHH	Joint Base Pearl Harbor Hickam
L.F.	Linear Feet
L.P.	Lamp Pole / Light Pole
LT.	Left
MH	Manhole
NTS	Not to Scale
o.c.	On Center
O/H	Overhead
PB	Panel Box / Pull Box
PP	Power Pole
REF	Reflector
RPM	Raised Pavement Marker
RT.	Right
R/W	Right of Way
S	Sewer
SC	Signal Corps
SCMH	Signal Corps Manhole
SDMH	Storm Drain Manhole
SHT.	Sheet
S.L.	Street Light
SLB	Street Light Box
STA.	Station
TC	Top Curb
TEL.	Telephone
TW	Top Wall
Typ.	Typical
U.P.	Utility Pole
W	Water
WV	Water Valve

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	LEGEND & ABBREVIATIONS
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: None Date: Sept. 2022

WATER POLLUTION AND EROSION CONTROL NOTES:

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	6	175

A. GENERAL:

1. See Special Provisions Section 209 - Water Pollution and Erosion Control. Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.
2. Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the Best Management Practices (BMP) for the project. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A.2, "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the Storm Water Pollution Prevention Plan (SWPPP) when applicable.
3. Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
4. The Engineer may assess liquidated damages of up to \$27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
5. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
6. If necessary, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.
7. Submit Site-Specific BMP Plan to the Engineer along with a completed Site-Specific BMP Review Checklist within 21 calendar days of date of award. The Site-Specific BMP Review Checklist may be obtained from <http://www.stormwaterhawaii.com>.

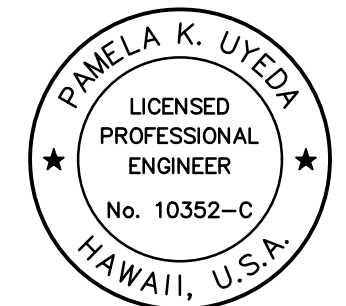
B. WASTE DISPOSAL:

1. **Waste Materials**
Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster weekly or when the container is two-thirds full, whichever is sooner. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 21 calendar days of date of award. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed.
2. **Hazardous Waste**
Dispose all hazardous waste materials in the manner specified by local or State regulations and by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.
3. **Sanitary Waste**
Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.
2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.
4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.
5. Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.
8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
11. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

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DESIGNED BY	
NOTE BOOK	
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 <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.</p> <p><i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE</p>	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>WATER POLLUTION & EROSION CONTROL NOTES</p> <p><u>INTERSTATE ROUTE H-1 AND H-201</u> <u>DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3</u> <u>FAP NO. NH-0300(144)</u></p> <p>Scale: None Date: Sept. 2022</p>
	<p>SHEET No. N-4 OF 7 SHEETS</p>

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	7	175

12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.
13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.
14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. Materials Pollution Prevention Plan

- a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

Concrete	Cleaning Solvents
Detergents	Wood
Paints (enamel and latex)	Masonry Block
Metal Studs	Herbicides and Pesticides
Tar	Curing Compounds
Fertilizers	Adhesives
Petroleum Based Products	

- b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- d. Keep products in their original containers with the original manufacturer's label.
- e. Do not mix substances with one another unless recommended by the manufacturer.
- f. Whenever possible, use a product up completely before disposing of the container.
- g. Follow manufacturer's recommendations for proper use and disposal.
- h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

- a. Keep products in original containers unless they are not resealable.
- b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
- c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.

3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

- a. **Petroleum Based Products:**
Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.

b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

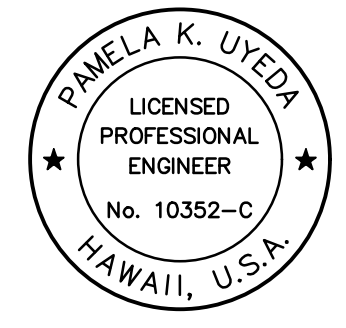
d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

4. Spill Control Plan

- a. Post a spill prevention plan to include measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.
- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

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 <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.</p> <p><i>Paul K. Hylleberg</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE</p>	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>WATER POLLUTION & EROSION CONTROL NOTES</p> <p><u>INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)</u></p> <p>Scale: None Date: Sept. 2022</p>
	<p>SHEET No. N-5 OF 7 SHEETS</p>

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	8	175

E. PERMIT REQUIREMENTS:

1. The calculated land disturbance area for this project based on the construction plans is 0.75 acres not including Contractor Staging and Storage areas. If the total of the disturbed area and the Contractor Staging and Storage area is one acre or greater, the Contractor shall obtain the NPDES Construction Activities Permit using HDOT's latest SWPPP template. See Hawaii Administrative Rules Chapter 11-55, Appendix C for the definition of land disturbance. The Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit and complying with the requirements of HAR 11-55 including, but not limited to:
 - a. Deadlines for initiating and completing initial stabilization
 - b. Increased inspection frequency and installation of rain gage if applicable
 - c. Deadlines to initiate and complete repairs to BMPs
 - d. Reporting requirements and corrective action reports

2. Comply with all applicable State and Federal Permit conditions. Permits may include, but not limited to the following:
 - a. NPDES Permit for Construction Activities

 - b. NPDES Permit for Construction Dewatering

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/> under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-1).

2. Contain on-site runoff using Perimeter Sediment Controls
 - a. SC-7 Silt Fence or Filter Fabric Fence
 - b. SC-2 Vegetated Filter Strips and Buffers
 - c. SC-6 Compost Filter Berm/Sock
 - d. SC-8 Sandbag Barrier
 - e. SC-9 Brush or Rock Filter

3. Control offsite runoff from entering construction area
 - a. EC-3 Run-On Diversion
 - b. EC-6 Earth Dike, Swales, and Ditches

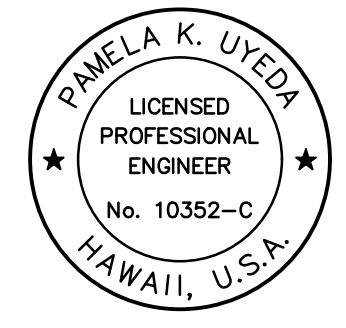
4. Incorporate applicable Site Management BMP
 - a. SM-1 Employee Training
 - b. SM-2 Material Storage and Handling
 - c. SM-3 Stockpile Management
 - d. SM-6 Solid Waste Management
 - e. SM-7 Sanitary Waste Management
 - f. SM-9 Hazardous Materials and Waste Management
 - g. SM-10 Spill Prevention and Control
 - h. SM-11 Vehicle and Equipment Cleaning
 - i. SM-12 Vehicle and Equipment Maintenance
 - j. SM-13 Vehicle and Equipment Refueling
 - k. SM-14 Scheduling
 - l. SM-15 Location of Potential Sources of Sediment
 - m. SM-16 Staging Area
 - n. SM-17 Preservation of Existing Vegetation
 - o. SM-19 Dust Control

5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (SC-11) for all areas which exit onto a paved street. Restrict vehicle access to these points.

6. Manage Concrete Waste including installing a Concrete Washout Area (SM-4) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).

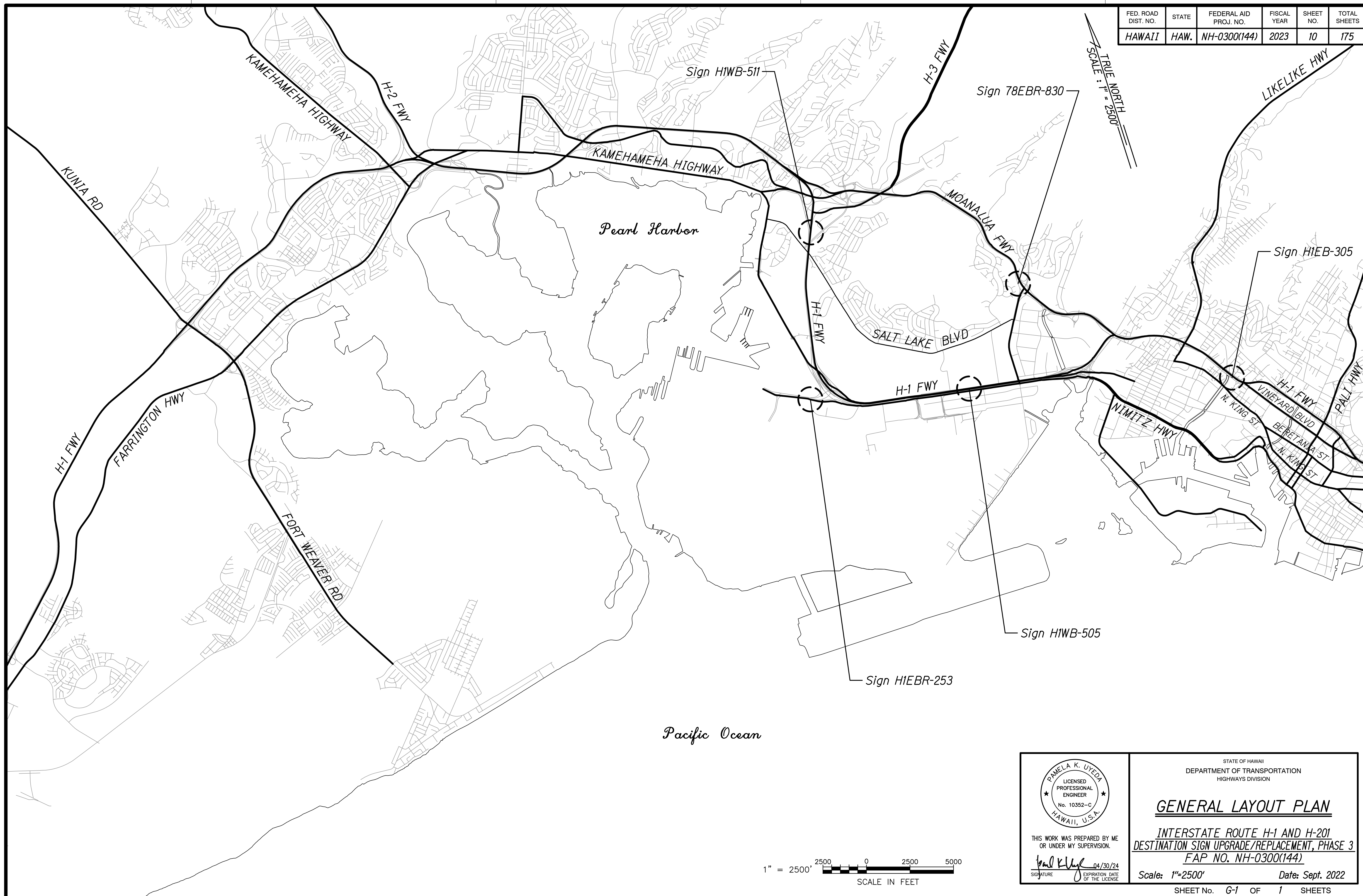
7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

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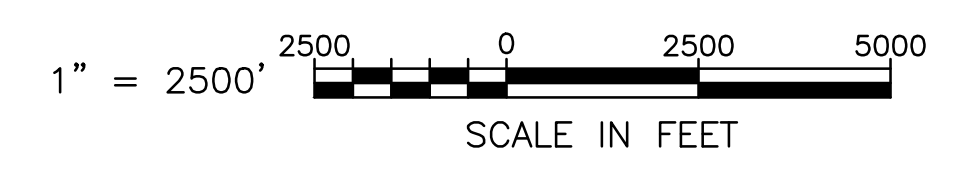
 <p>PAMELA K. UYEDA LICENSED PROFESSIONAL ENGINEER No. 10352-C HAWAII, U.S.A.</p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<p>WATER POLLUTION & EROSION CONTROL NOTES</p> <p>INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)</p>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Pamela K. Uyeda</i> Date: 04/30/24 EXPIRATION DATE OF THE LICENSE	Scale: None Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	10	175

TRUE NORTH
SCALE: 1" = 2500'



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
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No.	



PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

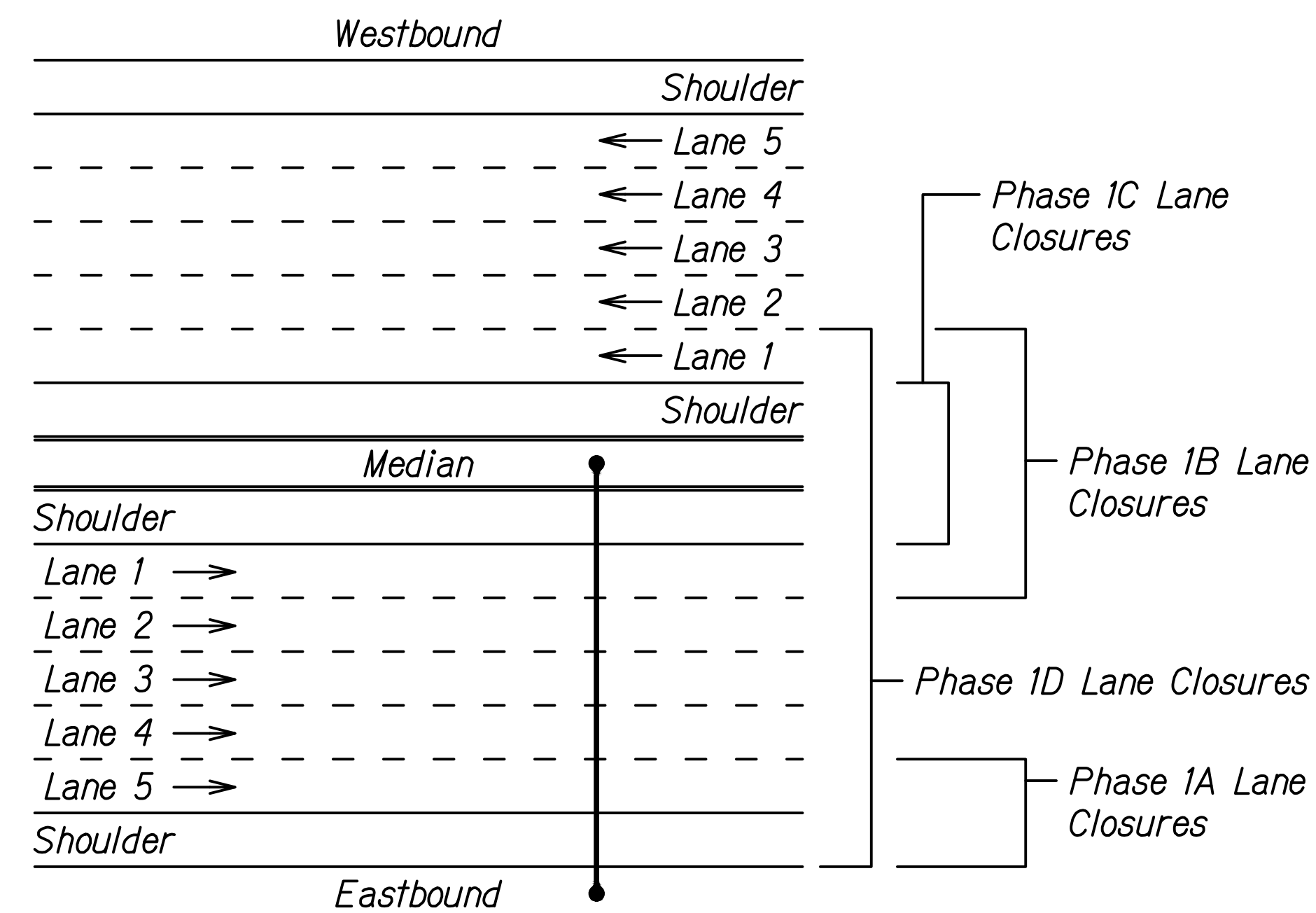
GENERAL LAYOUT PLAN

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Paul K. King 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

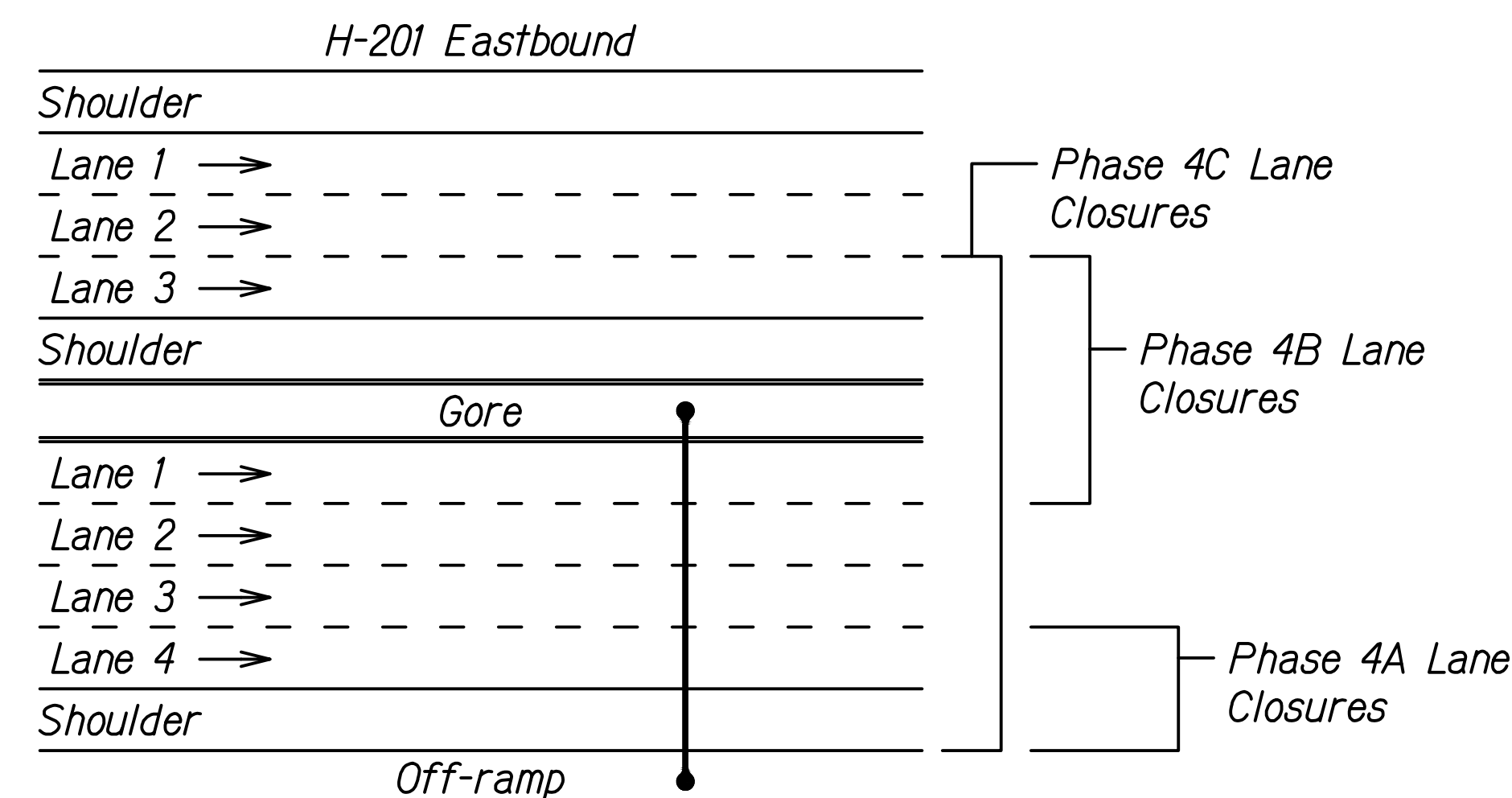
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TRAFFIC CONTROL PHASE 1 - SIGN H1EBR-253



Construction Phasing Schedule		
Phase	Closure Description	Allowable Lane Closure Hours*
1A**	Eastbound Lane 5	Sat-Sun 12:00 midnight to 12:00 midnight Mon-Fri 12:00 midnight to 2:00 pm Mon-Fri 6:00 pm to 12:00 midnight
1B**	Eastbound Lane 1 + Westbound Lane 1	Sat-Sun 12:00 midnight to 12:00 midnight Mon-Fri 12:00 midnight to 2:00 pm Mon-Fri 6:00 pm to 12:00 midnight
1C**	Median shoulder both directions	Sat-Sun 12:00 midnight to 12:00 midnight Mon-Fri 12:00 midnight to 2:00 pm Mon-Fri 6:00 pm to 12:00 midnight
1D**	Full Eastbound Roadway + Westbound Lane 1	Sun-Th 6:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Maximum 2 consecutive days
4A	Off-ramp Lane 4	No Restriction
4B	Off-ramp Lane 1 + H201 Eastbound Lane 3	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
4C	Full Off-ramp + H201 Eastbound Lane 3	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Max 2 consecutive days
5A	Eastbound Lane 4 + Off-ramp	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
5B	Eastbound Lanes 3 & 4 + Off-ramp	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Max 2 consecutive days
5C	Eastbound Shoulder + Off-ramp Shoulder	No Restriction

TRAFFIC CONTROL PHASE 4 - SIGN 78EBR-830



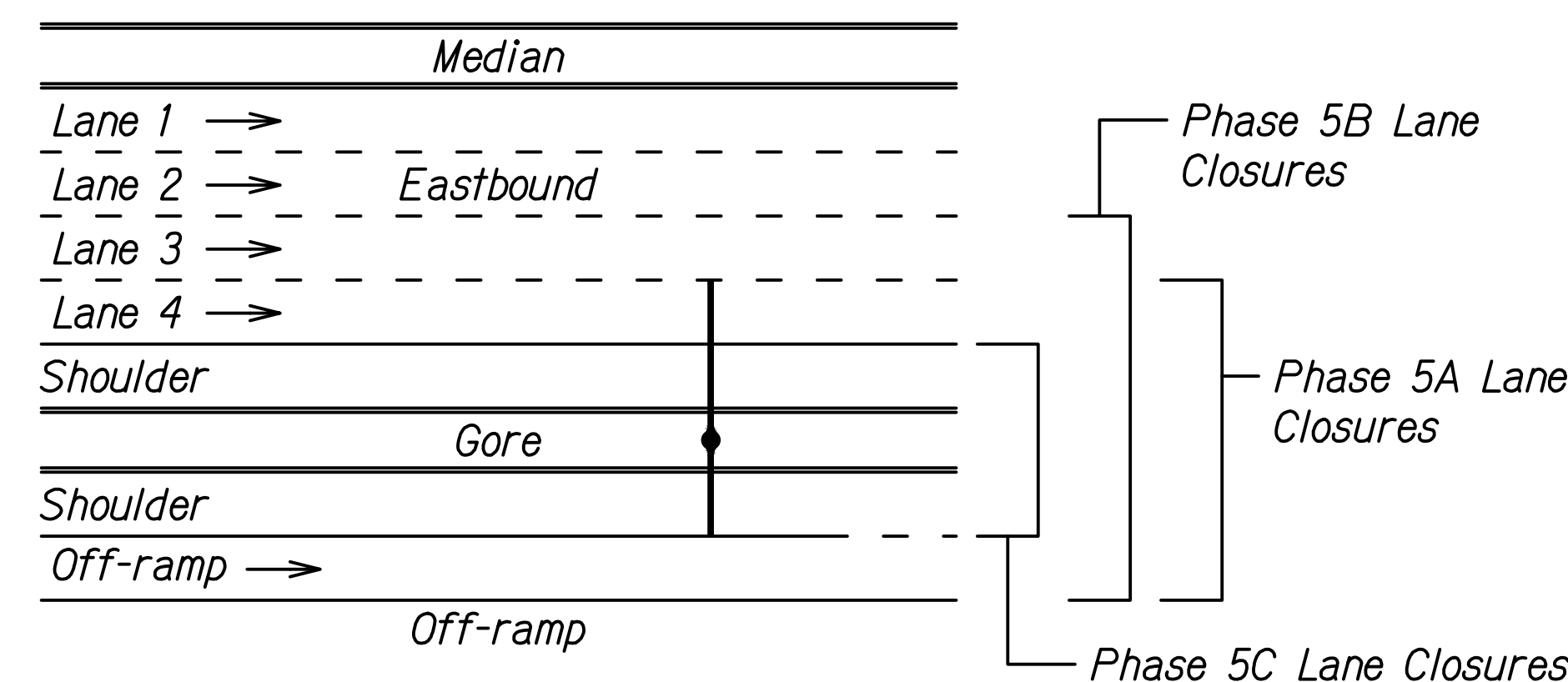
* The Contractor shall comply with the conditions of the Community Noise Permit and Noise Variance, specifically, the work that is permitted during the variance hours.

** The Contractor shall notify JBPHH personnel a minimum of six (6) weeks prior to planned lane closures:

Capt. Samuel Doyel
Ph. (984) 218-8864
Email samuel.doyel.1@us.af.mil

Joe Clark
Ph. (808) 351-2242
Email joe.m.clark4.civ@us.navy.mil

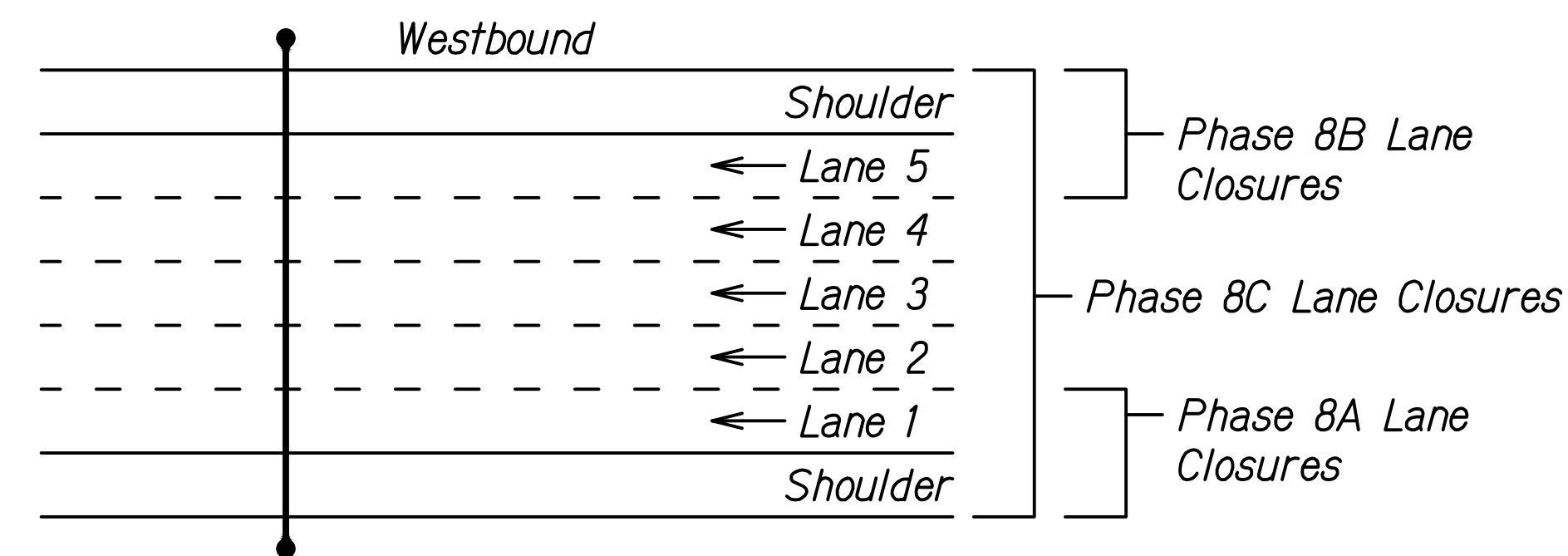
TRAFFIC CONTROL PHASE 5 - SIGN H1EB-305



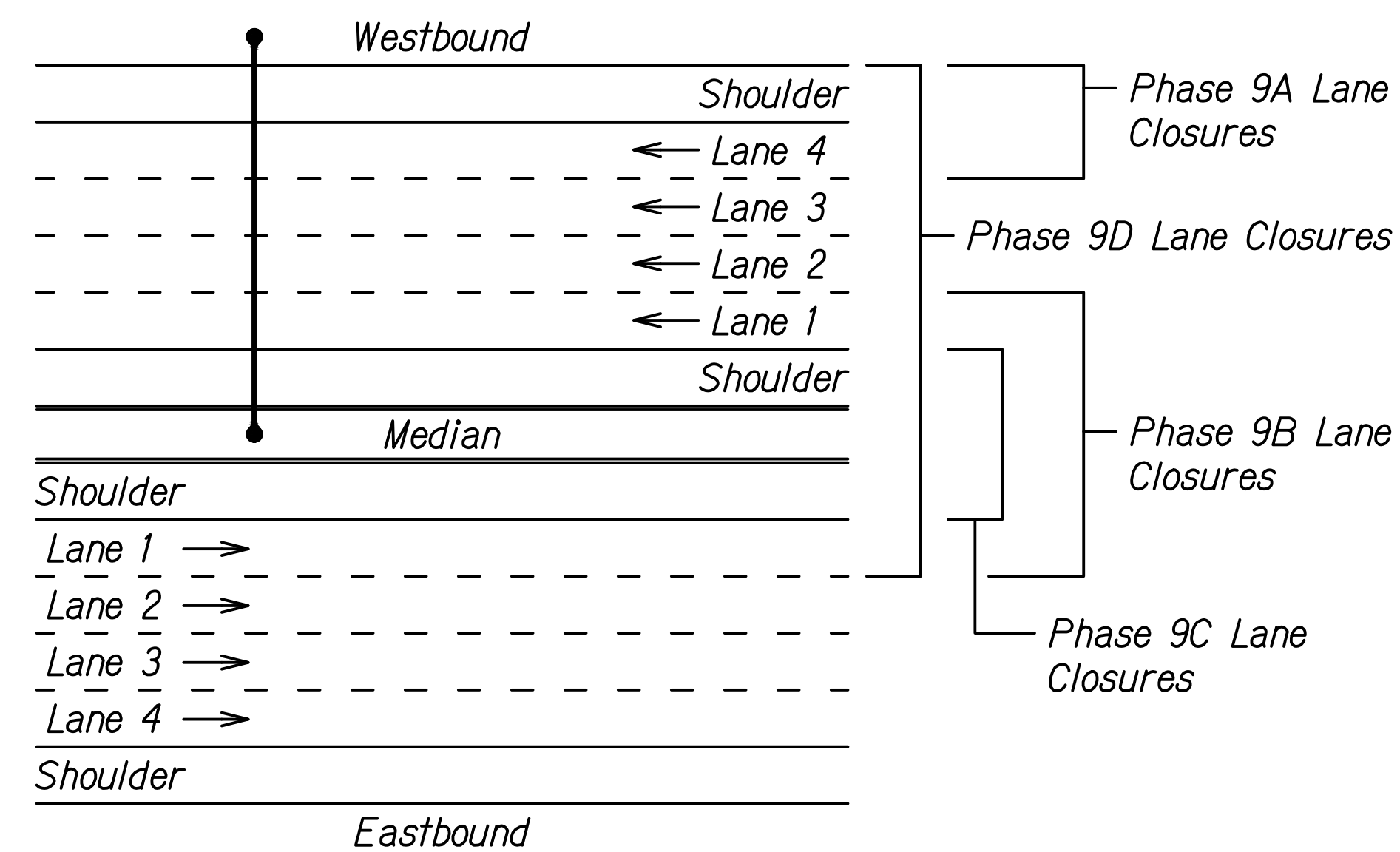
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 NOTE BOOK TRACED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 No. _____

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONSTRUCTION PHASING PLAN INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Paul K. Uyeda</i> 04/30/24 EXPIRATION DATE OF THE LICENSE: _____ Scale: None Date: Sept. 2022

TRAFFIC CONTROL PHASE 8 - SIGN HIWB-505



TRAFFIC CONTROL PHASE 9 - SIGN HIWB-511



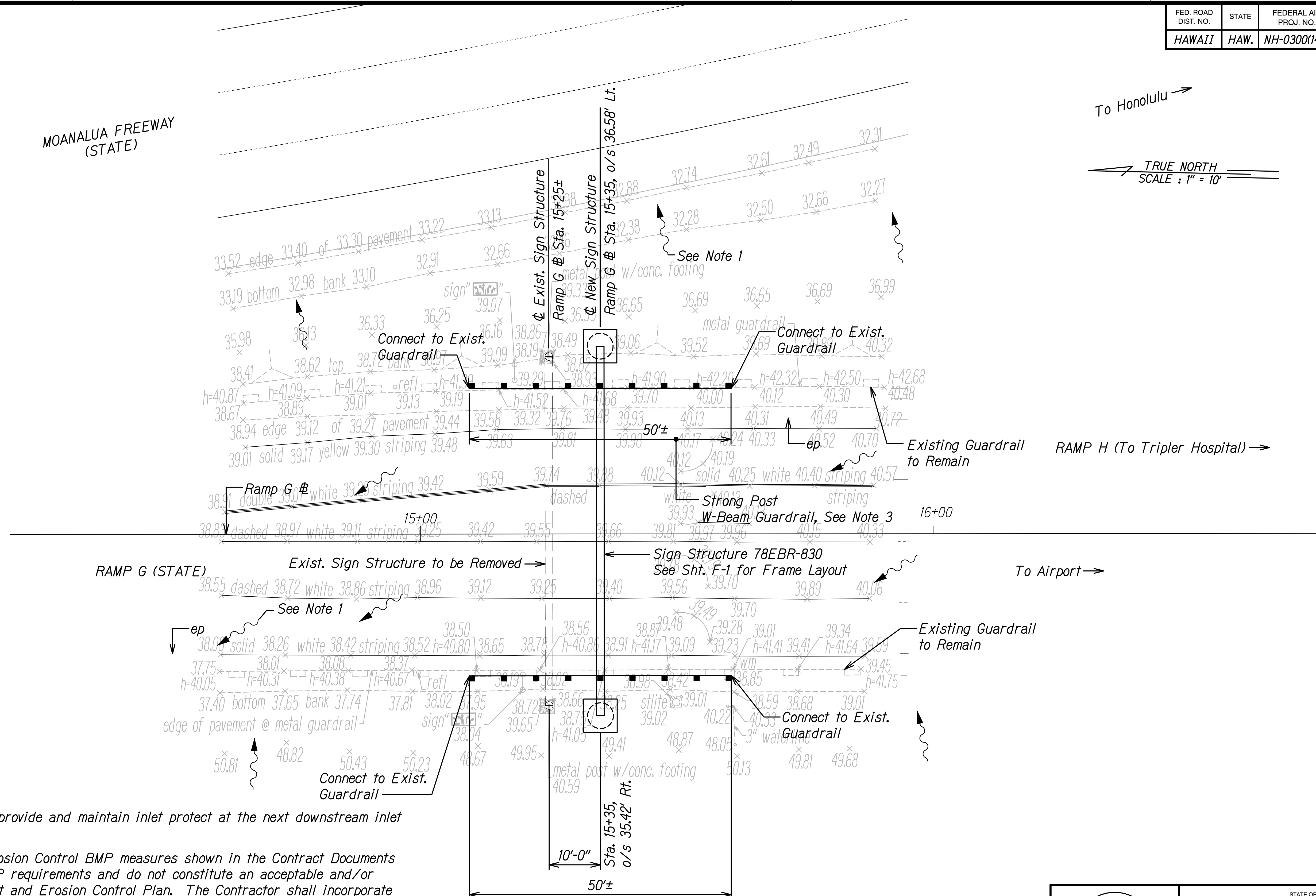
Construction Phasing Schedule		
Phase	Closure Description	Allowable Lane Closure Hours*
8A	Westbound Lane 1	Sun-Th 7:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
8B	Westbound Lane 5	Sun-Th 7:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
8C	Full Westbound Freeway	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Max 2 consecutive days
9A	Westbound Lane 4	Sun-Th 8:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
9B	Westbound Lane 1 + Eastbound Lane 1	Sun-Th 8:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Sunday 12:00 midnight to 12:00 midnight
9C	Median shoulder both directions	No Restriction
9D	Full Westbound Roadway + Eastbound Lane 1	Sun-Th 9:00 pm to 12:00 midnight Mon-Fri 12:00 midnight to 4:00 am Max 2 consecutive days

* The Contractor shall comply with the conditions of the Community Noise Permit and Noise Variance, specifically, the work that is permitted during the variance hours.

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONSTRUCTION PHASING PLAN INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Paul K. Uyeda</i> 04/30/24 EXPIRATION DATE OF THE LICENSE
Scale: None Date: Sept. 2022	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	14	175



NOTES:

- Contractor shall provide and maintain inlet protect at the next downstream inlet (not shown).
- Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based upon their means and methods considering site conditions and construction sequence in accordance with the Contract Documents, including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP.
- The Contractor may remove up to 50 LF of existing guardrail and posts for his convenience. Upon completion of the work, the guardrail, posts, and offset blocks shall be replaced with NCHRP 350 guardrail for the limits shown. See Details on sheets R-7 and R-8. Removal of existing guardrail and posts shall be considered incidental to Item No. 606.1100 - Guardrail Type 3, Strong Post W-Beam Guardrail.

SIGN STRUCTURE 78EBR-830
RAMP G @ STA. 15+35
 Scale: 1"=10'

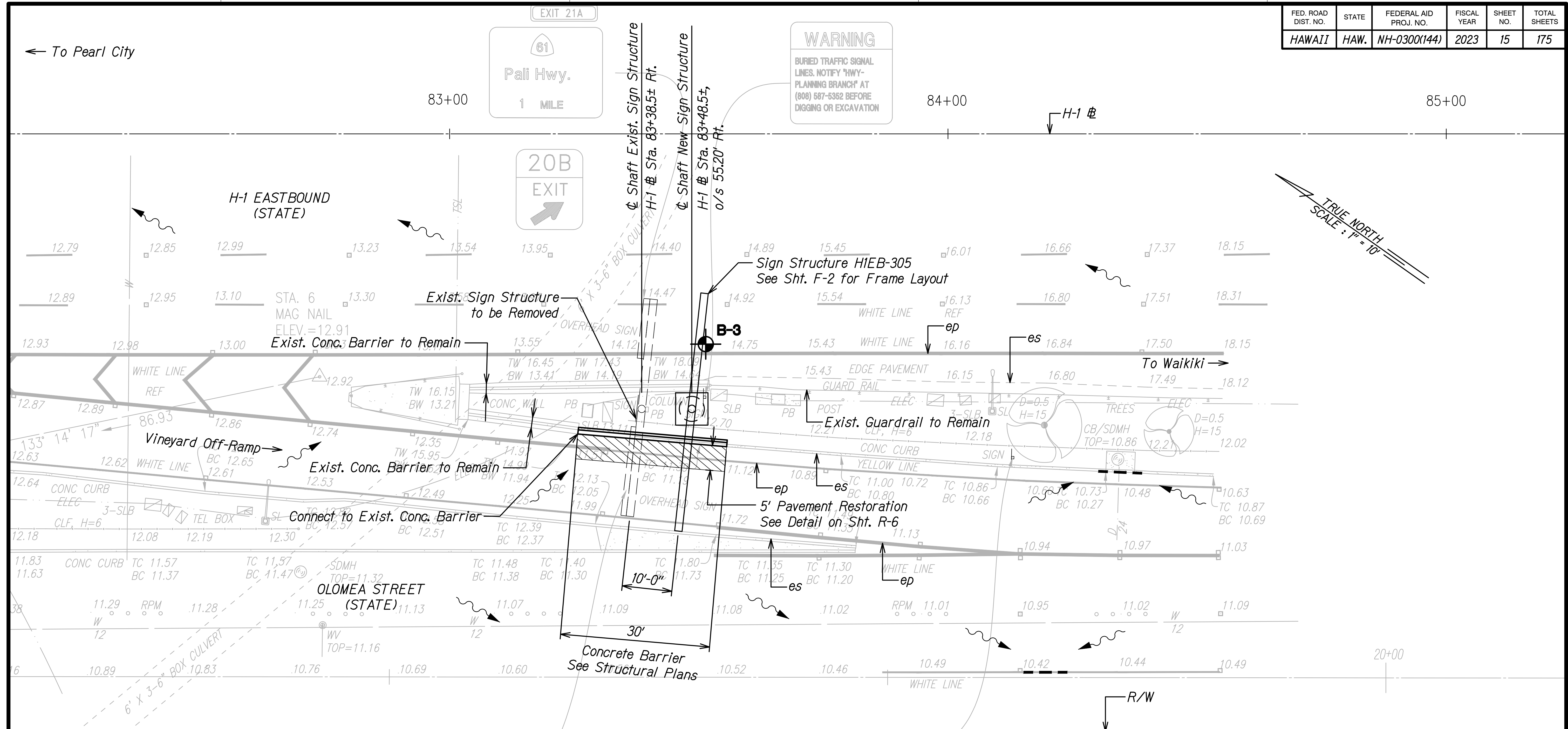
LEGEND:

← Flow Arrow

DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
NO.	.....

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	ROADWAY CONSTRUCTION PLAN
	SIGN 78EBR-830
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: 1"=10' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	15	175



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

SIGN STRUCTURE HIEB-305
H-1 # STA. 83+48.5
Scale: 1"=10'

TMK: 1-6-2: 96
OWNER: KOKEA GARDENS

LEGEND:

- Approximate Boring Location
See Sht. G-3 for Boring Log
- Perimeter Control
See Details on Sht. N-7
- Flow Arrow

ORIGINAL PLAN

DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
No.	.....

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

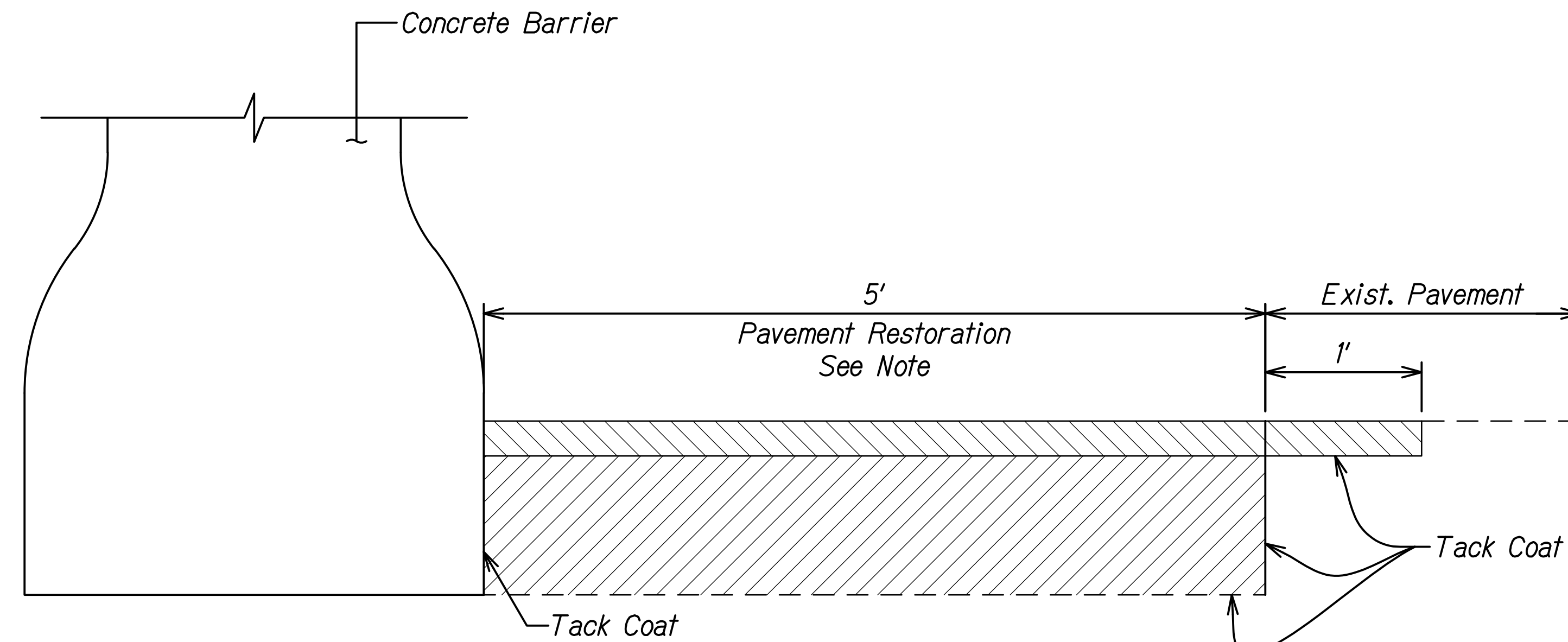
ROADWAY CONSTRUCTION PLAN
SIGN HIEB-305
INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=10' Date: Sept. 2022

SIGNATURE: 04/30/24
EXPIRATION DATE OF THE LICENSE

SHEET No. R-3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	18	175



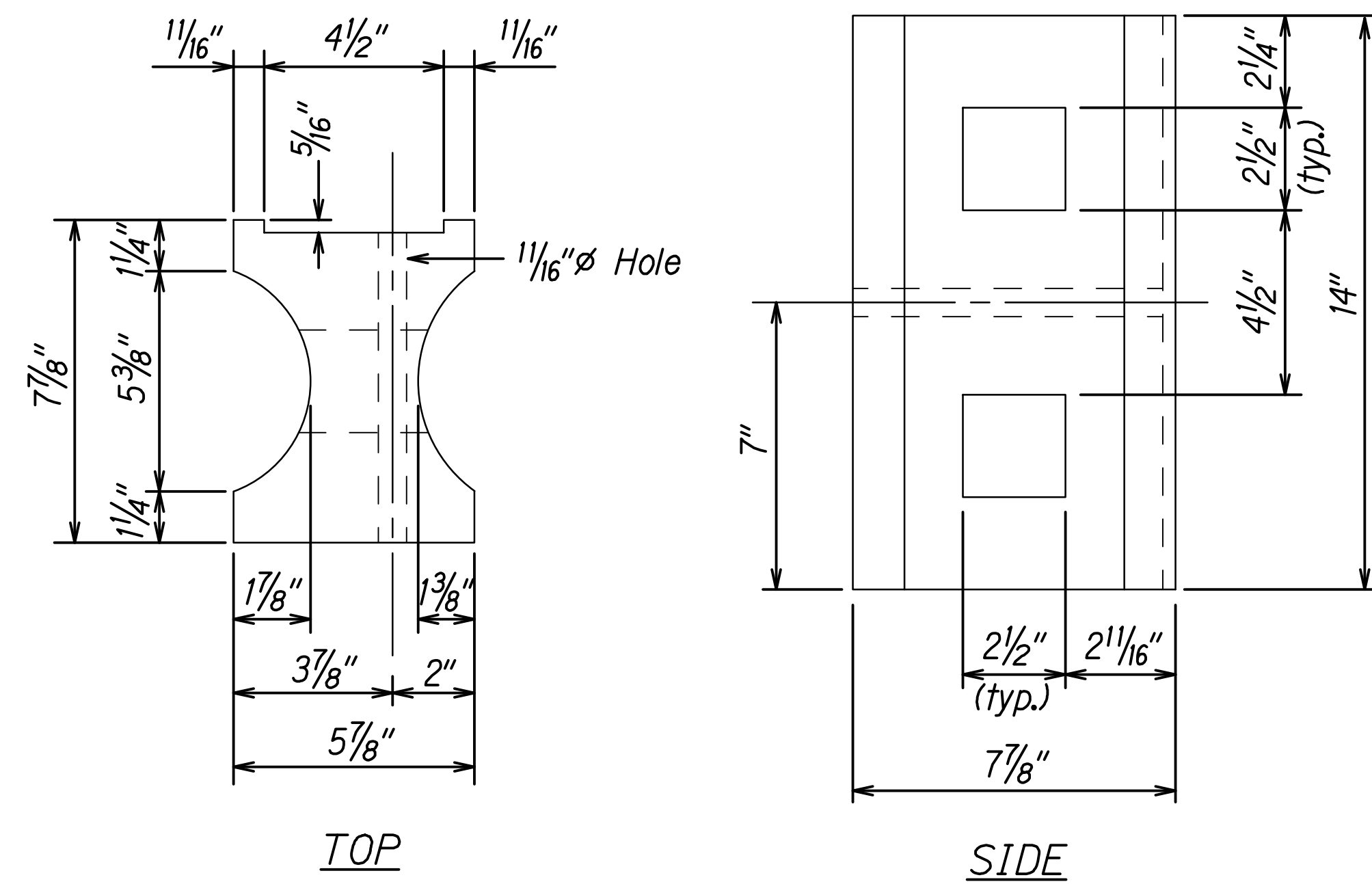
PAVEMENT RESTORATION DETAIL
Scale: NTS

Note:
Pavement Restoration shall consist of 2" HMA Mix IV over 8" of HMA Base or 8" HMA Mix IV.

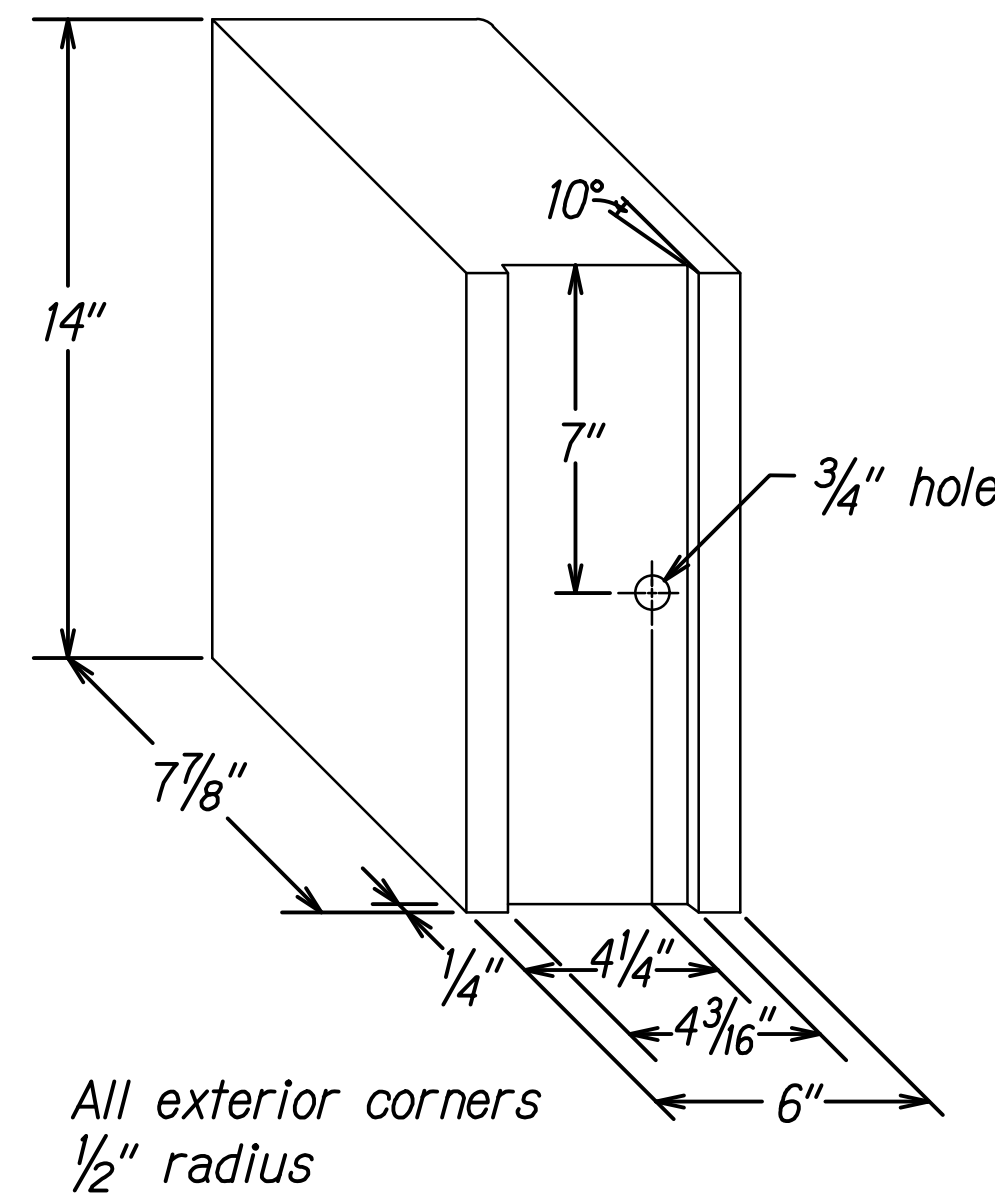
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	.
No.	DESIGNED BY	.
	QUANTITIES BY	.
	CHECKED BY	.

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	ROADWAY DETAILS INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Paul K. Uyeda</i> EXPIRATION DATE OF THE LICENSE: 04/30/24	Scale: As Shown Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	19	175



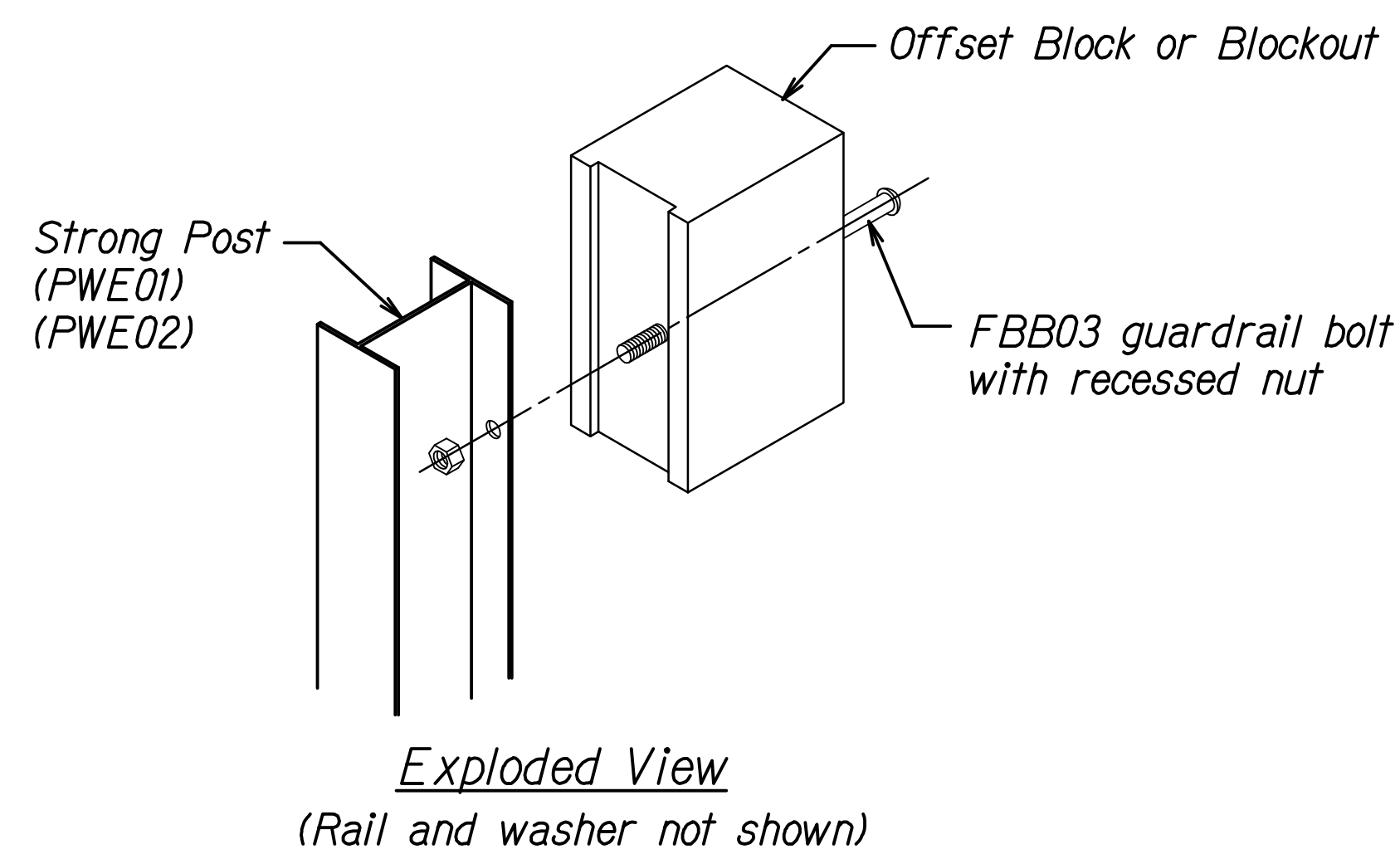
RECYCLED PLASTIC BLOCKOUT (TYPE I)



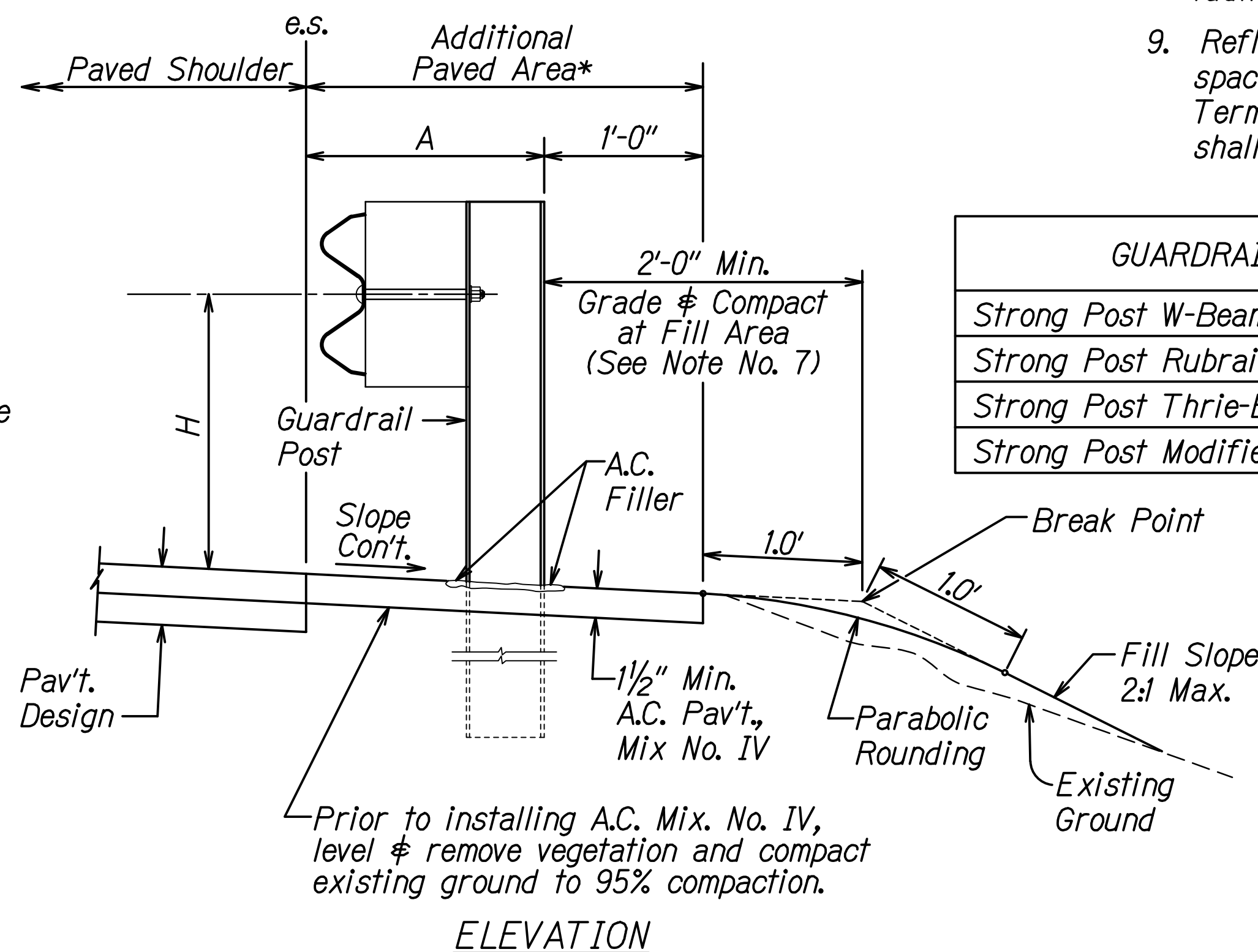
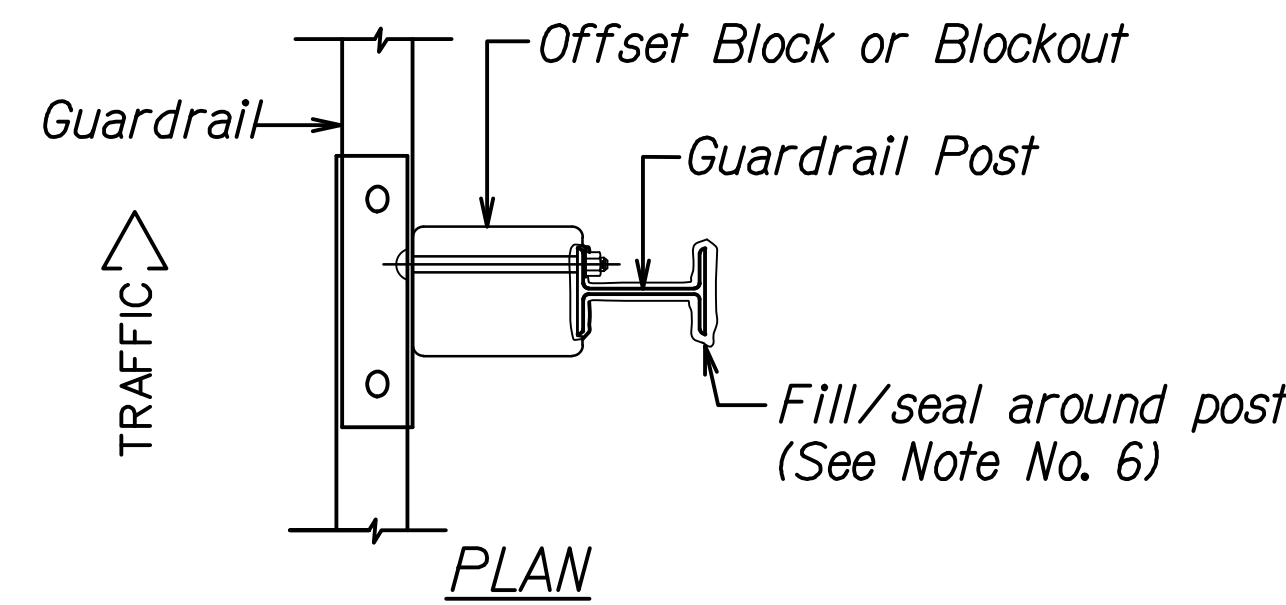
RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)

GENERAL NOTES

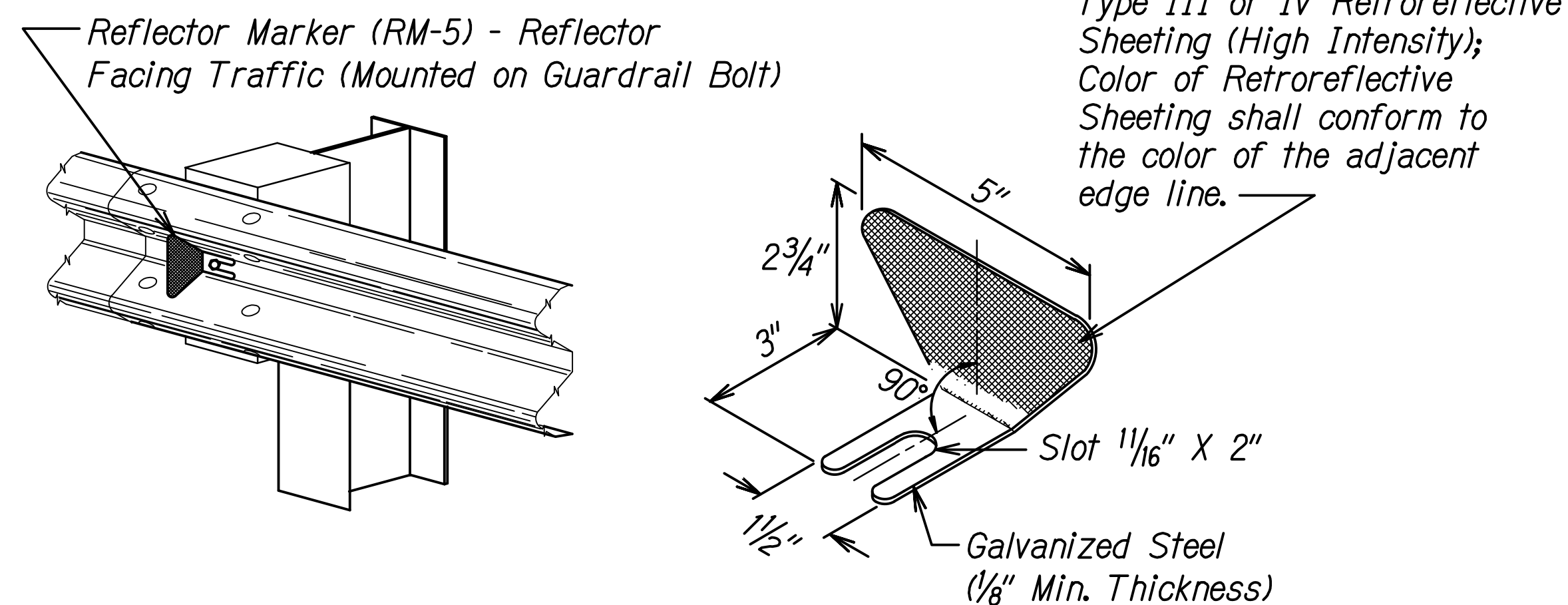
- All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- Where conditions require, special post lengths in increments of 6 inches may be specified.
- All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fasteners, posts and rail elements have been converted from metric units into their present form.
- The Recycled Plastic Block or Offset Block shall be approved by the State.
- All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the Additional Paved Area.
- After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the inspector/engineer, the Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
- When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
- New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
- 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 considered incidental to the adjacent guardrail system.



STEEL POST AND BLOCK DETAIL



GUARDRAIL TYPE	DIMENSION	
	H	A
Strong Post W-Beam	1'-9 5/8"	1'-6"
Strong Post Rubrail (W-Beam)	2'-0"	1'-6"
Strong Post Thrie-Beam	1'-9 5/8"	1'-6"
Strong Post Modified Thrie-Beam	2'-0"	2'-0"



REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION

TYPICAL GUARDRAIL INSTALLATION

DATE	.....
DESIGNED BY	.....
CHECKED BY	.....
QUANTITIES BY	.....
DRAWN BY	.....
PLANNED BY	.....
ORIGINAL PLAN	.....
NO. _____	.....

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.

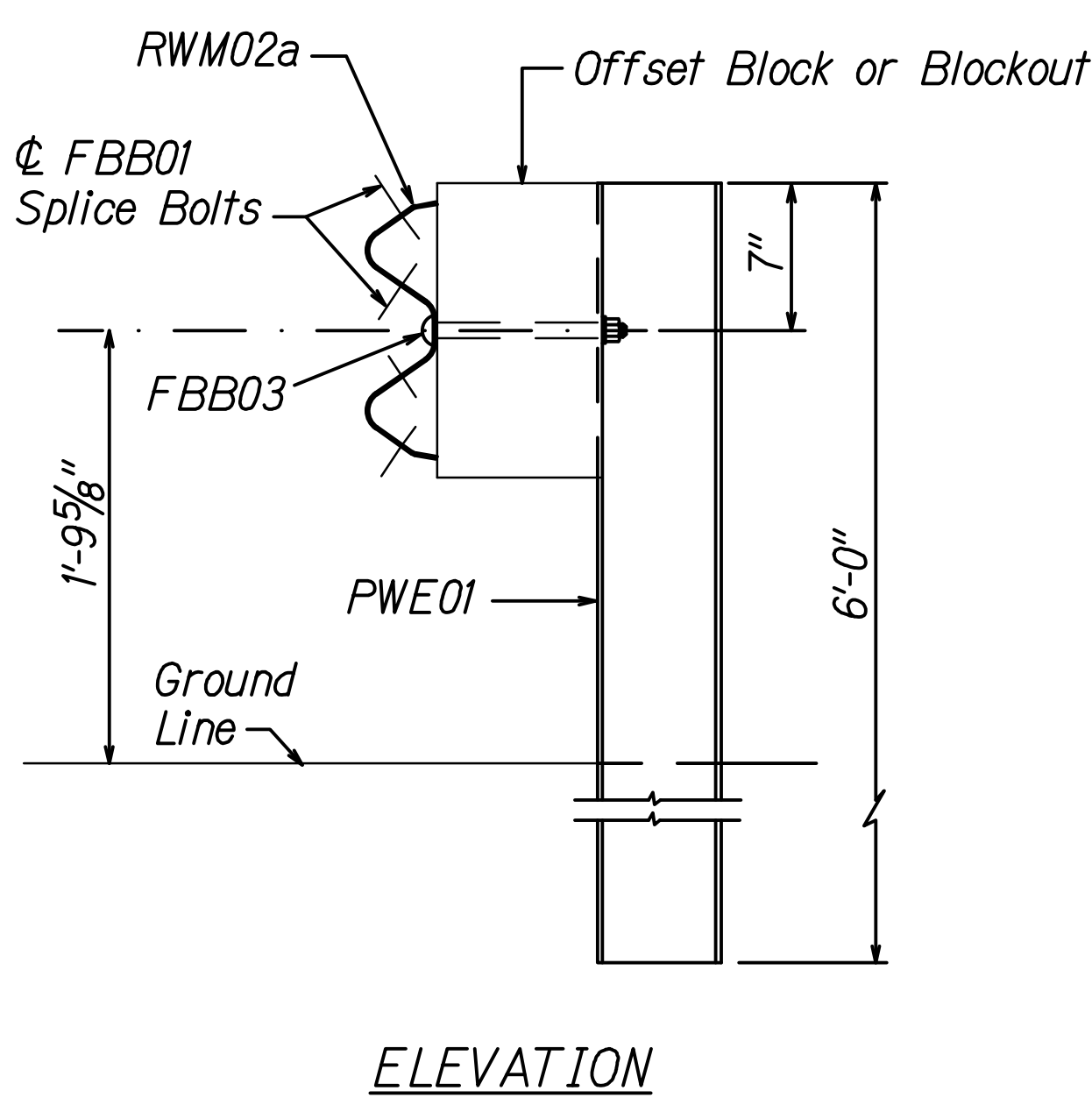
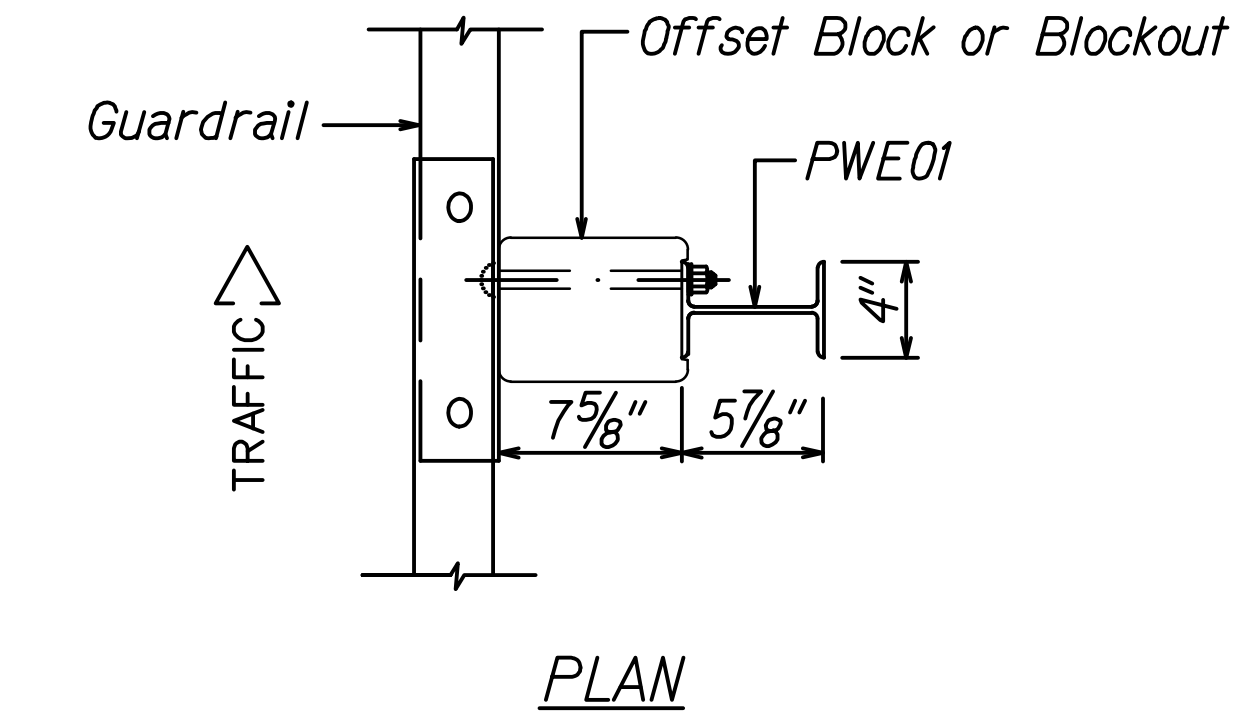
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Pamela K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

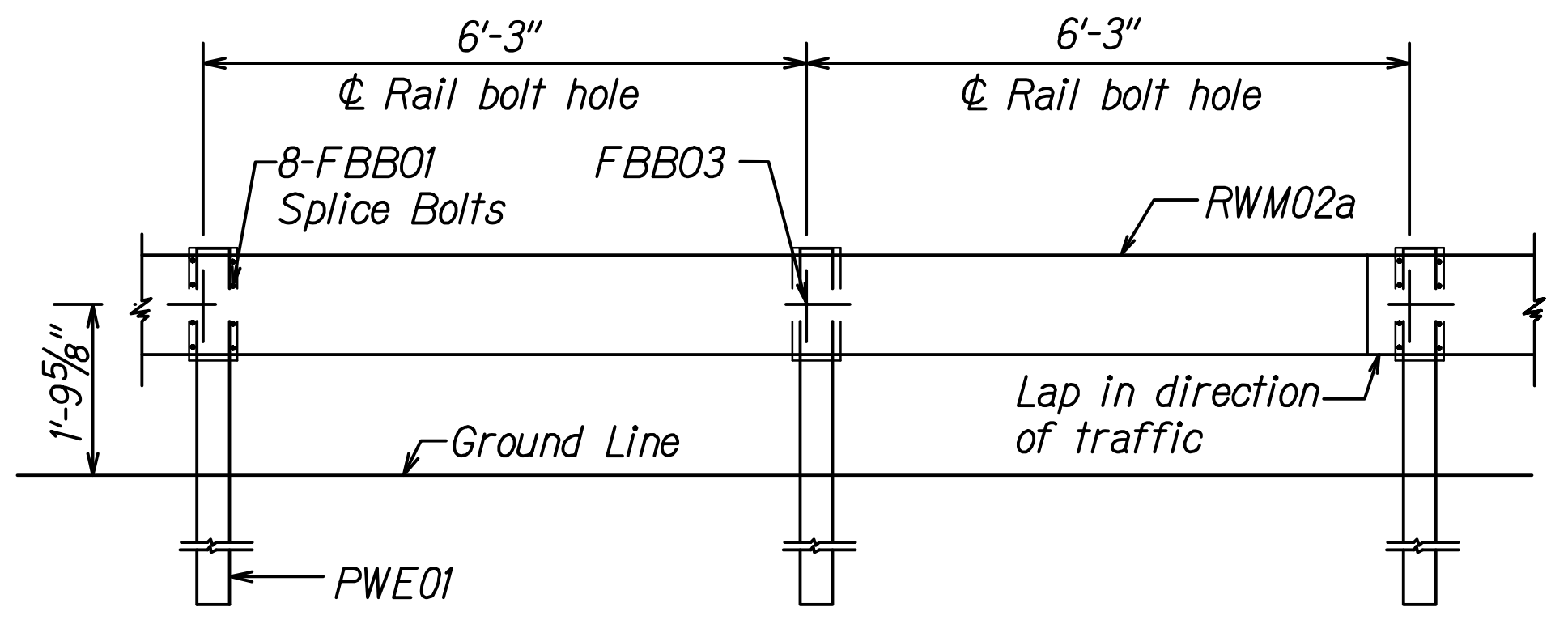
GUARDRAIL DETAILS & NOTES

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: NTS Date: Sept. 2022

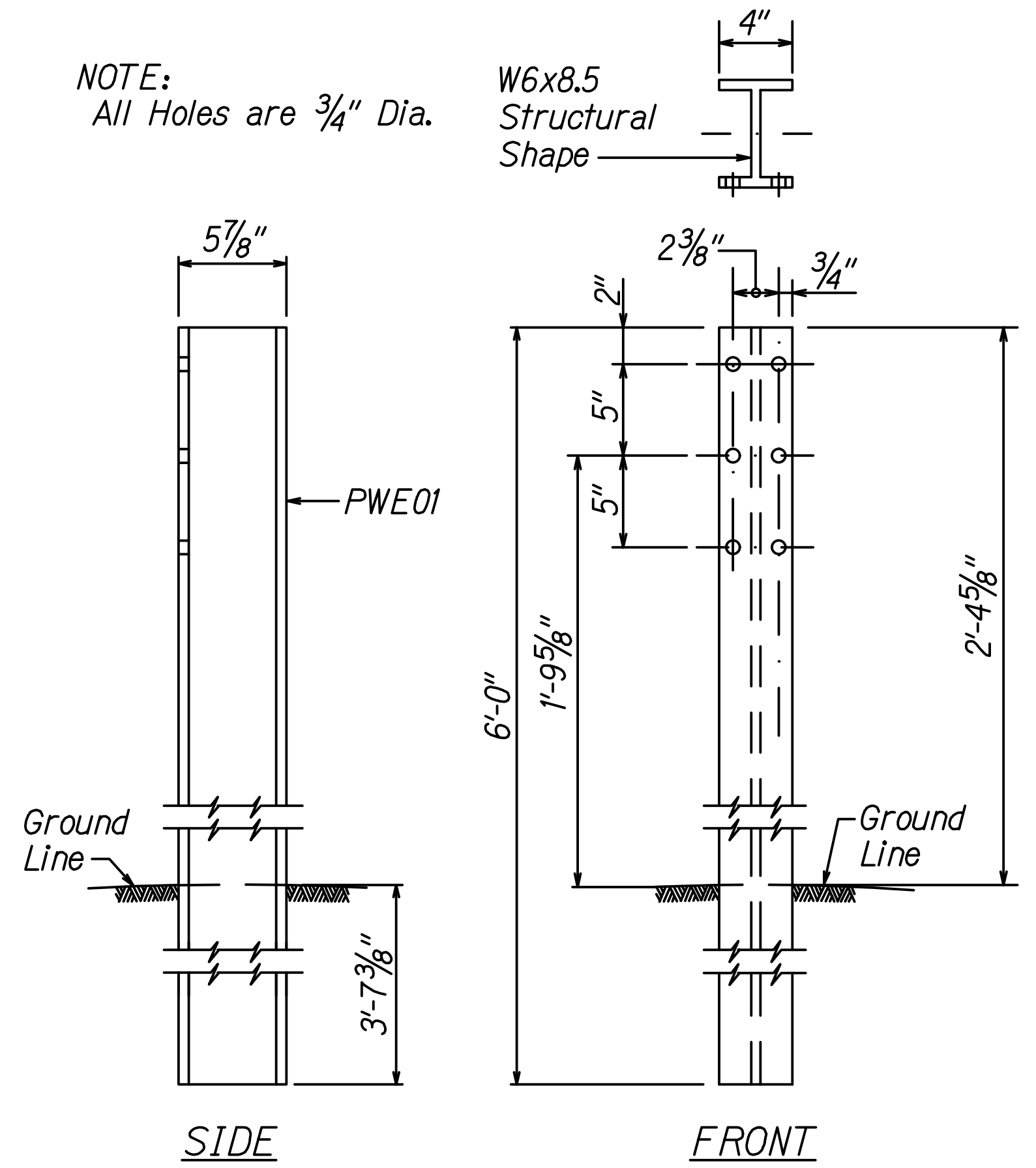


STRONG POST W-BEAM GUARDRAIL (SGR04a)

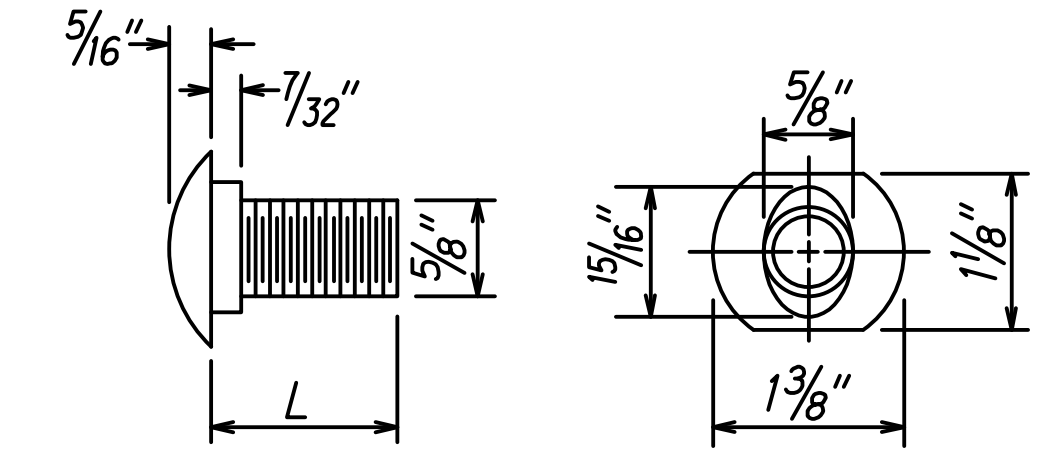
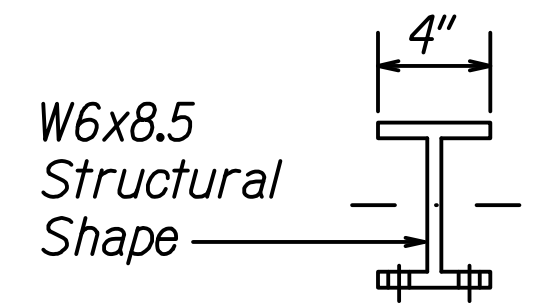


STRONG POST W-BEAM GUARDRAIL WITH RECYCLED OFFSET BLOCK OR PLASTIC BLOCKOUT

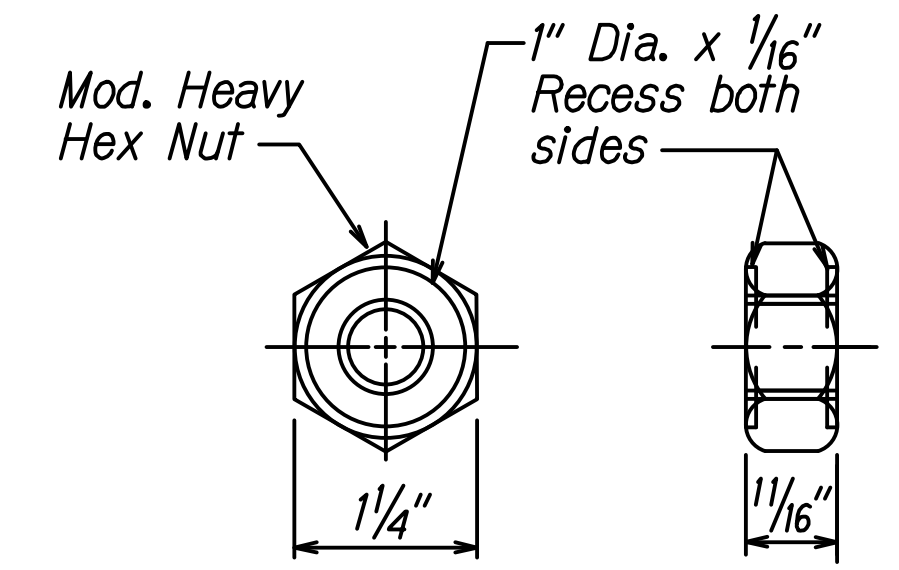
NOTE: All Holes are 3/4" Dia.



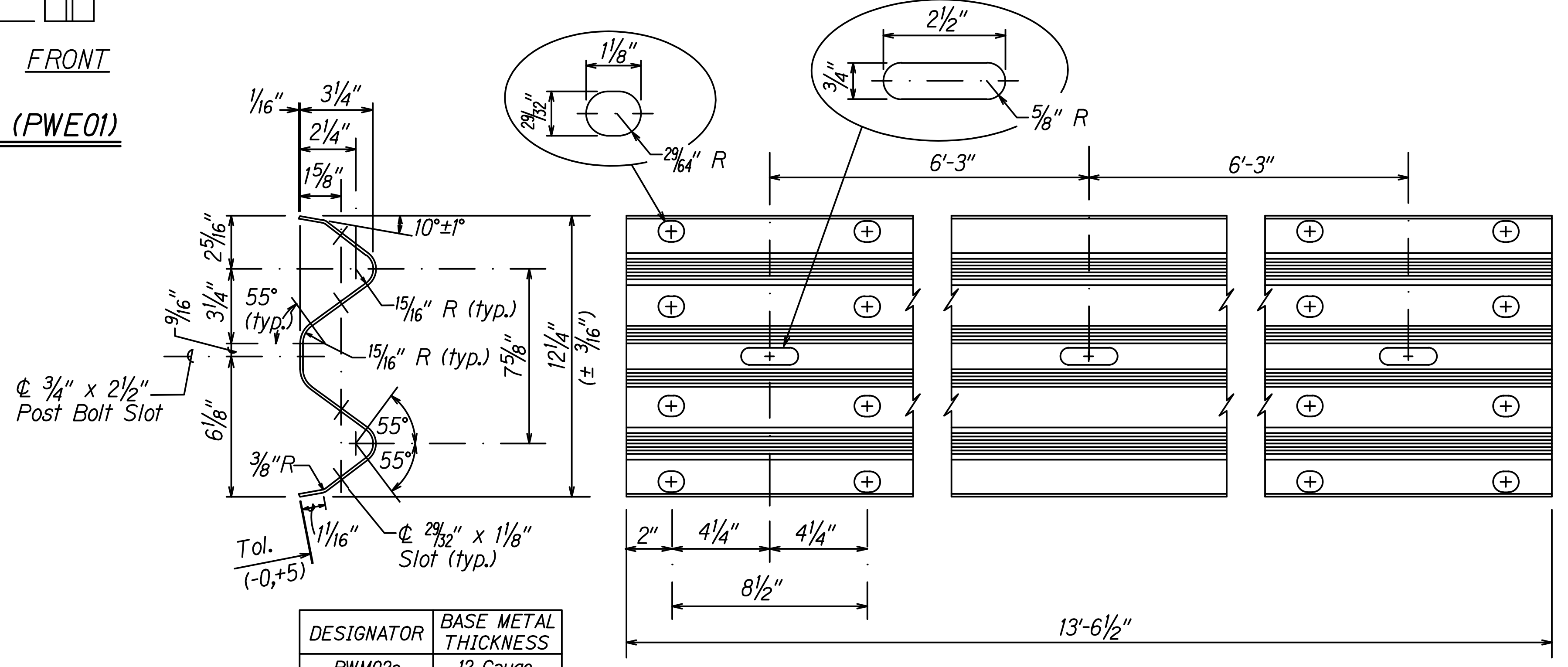
W-BEAM STRONG POST (PWE01)



DESIGNATOR	L
FBB01	1 3/8"
FBB02	2"
FBB03	10"



GUARDRAIL BOLTS AND RECESSED NUT



DESIGNATOR	BASE METAL THICKNESS
RWM02a	12 Gauge

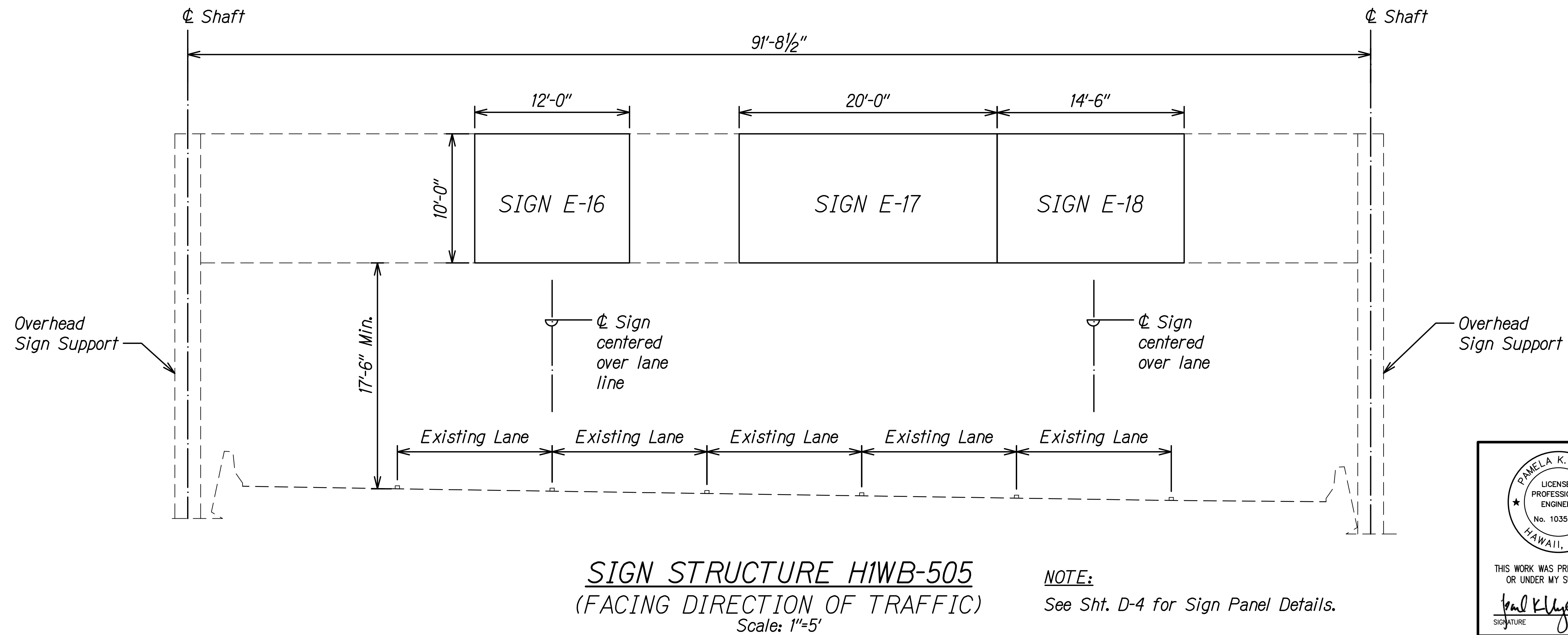
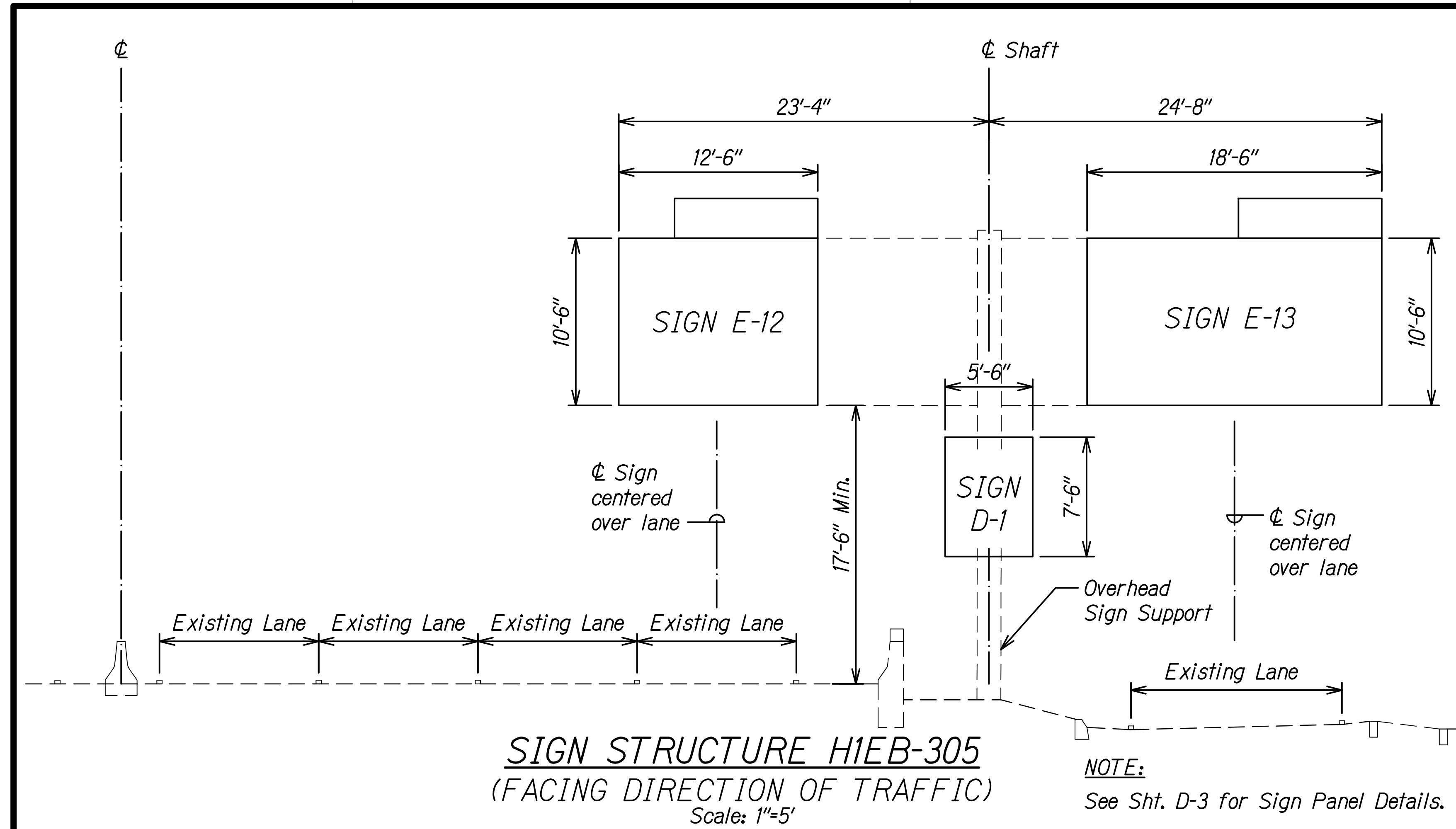
2 SPACE W-BEAM GUARDRAIL (RWM02a)

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

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: Pamela K. Uyeda
 EXPIRATION DATE OF THE LICENSE: 04/30/24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRONG POST W-BEAM GUARDRAIL
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: Not to Scale Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	22	175

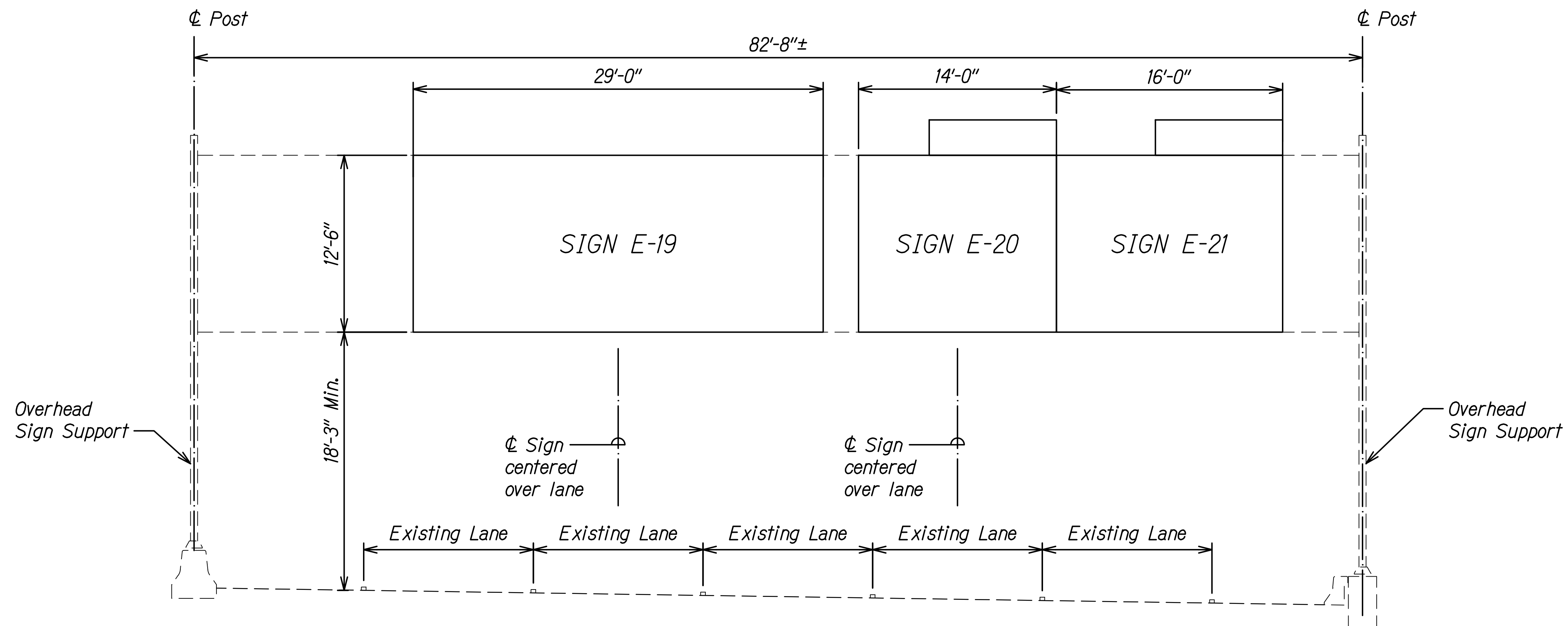


DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	DESTINATION SIGN FRAME LAYOUT
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: As Shown Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	23	175



SIGN STRUCTURE HWB-511
 (FACING DIRECTION OF TRAFFIC)
 Scale: 1"=5'

NOTE:
 See Sht. D-5 for Sign Panel Details.

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

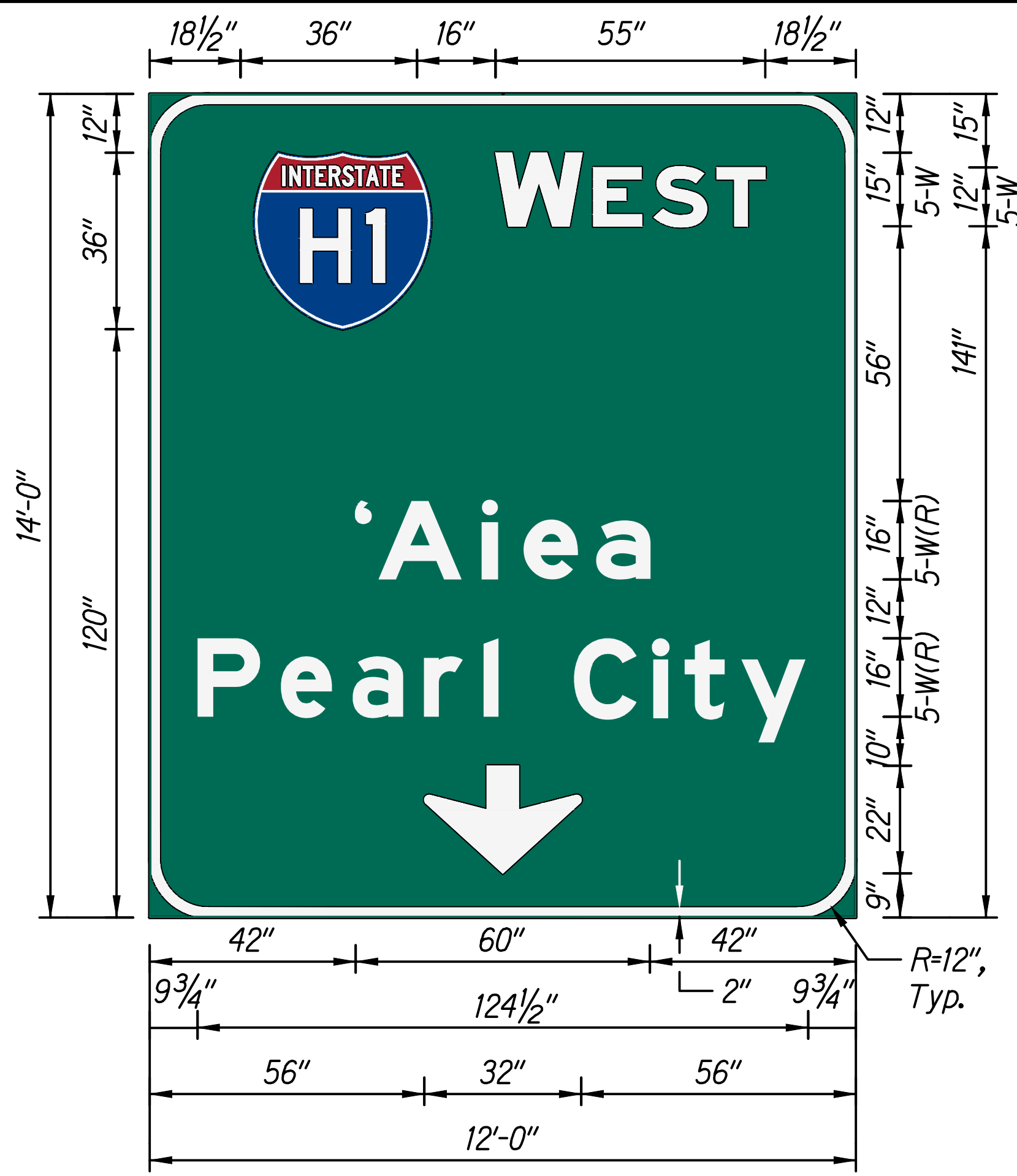
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	DESTINATION SIGN FRAME LAYOUT
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: As Shown Date: Sept. 2022

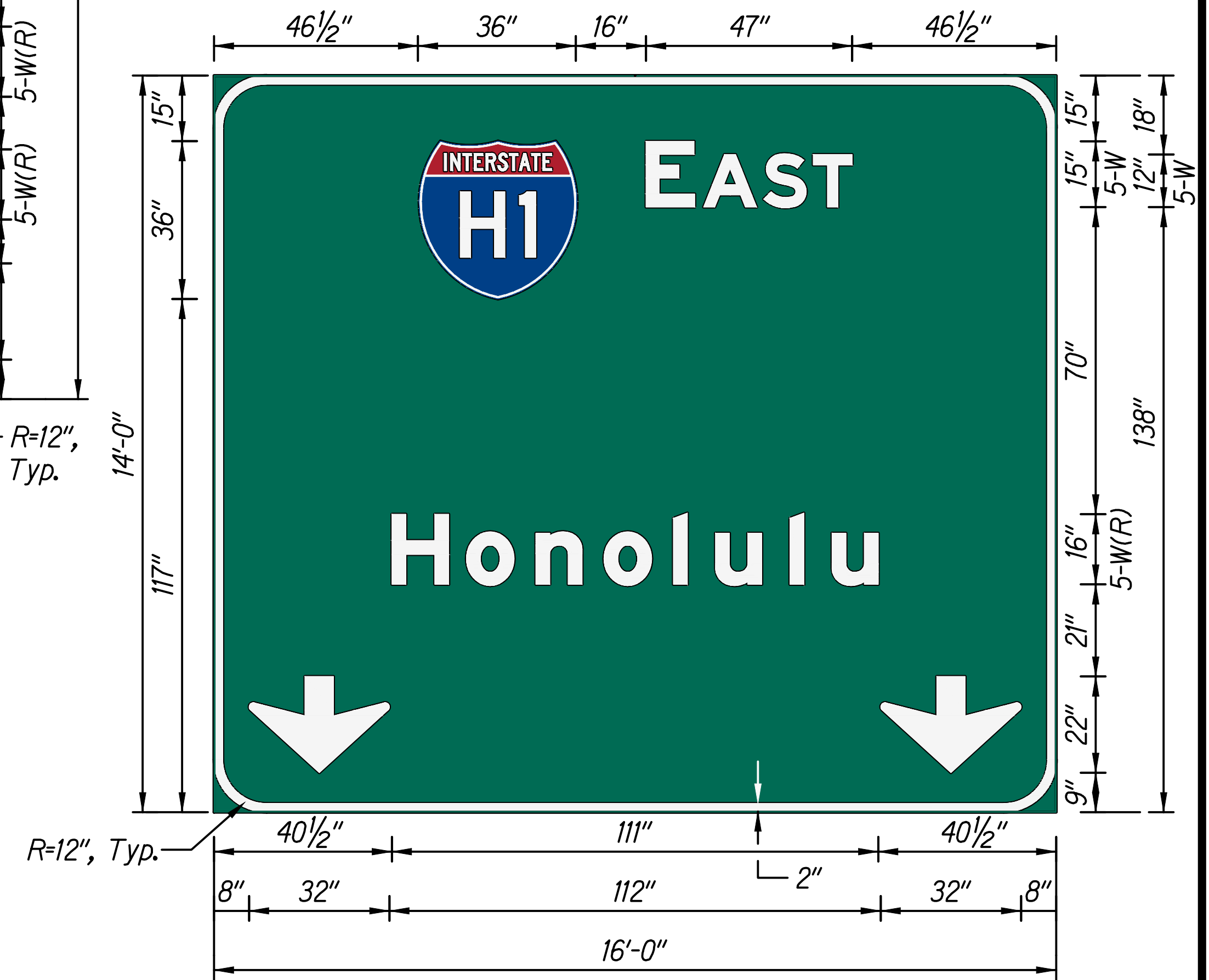
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	24	175



E-1
Not to Scale



E-2
Not to Scale



E-3
Not to Scale



E-4
Not to Scale

NOTE:

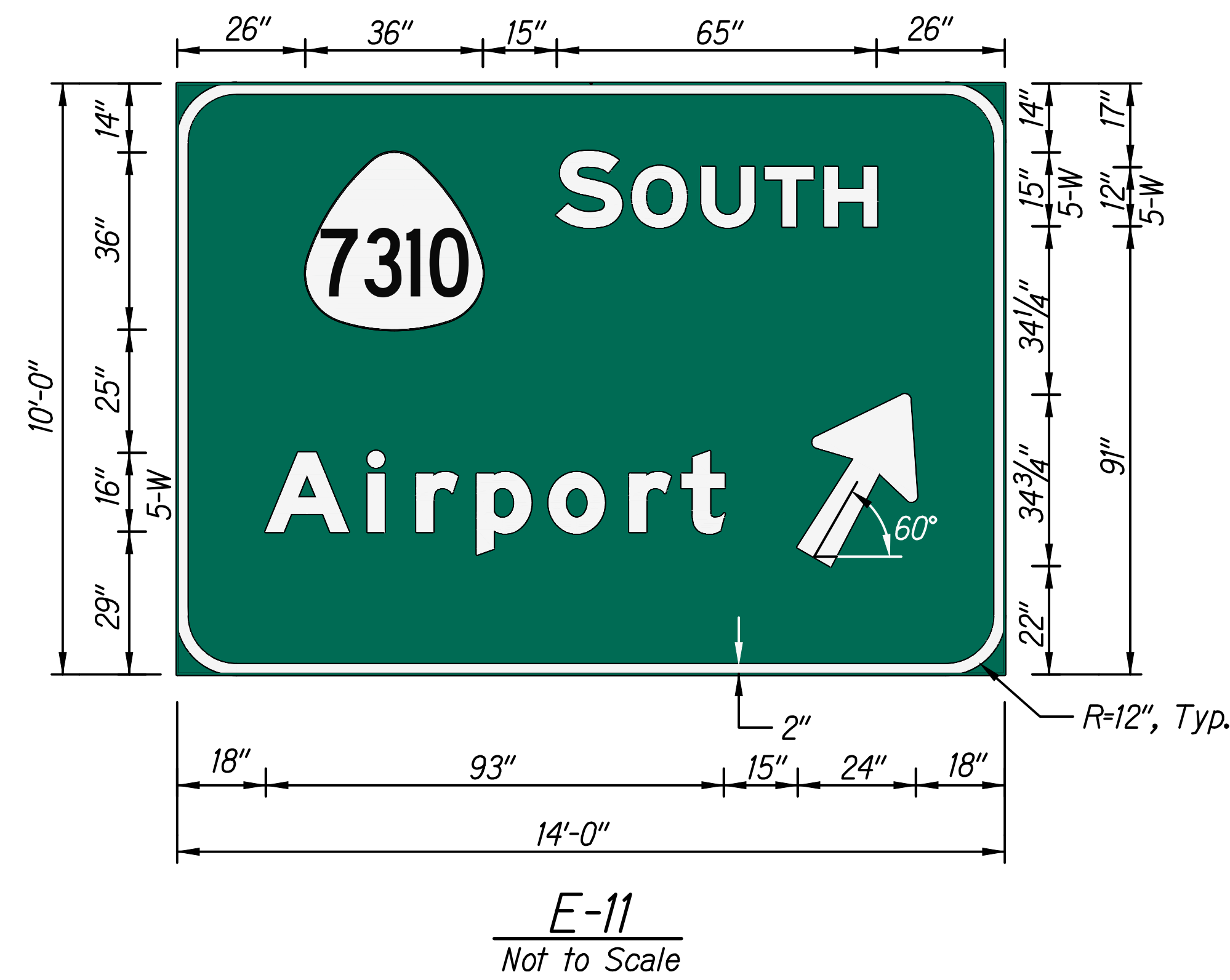
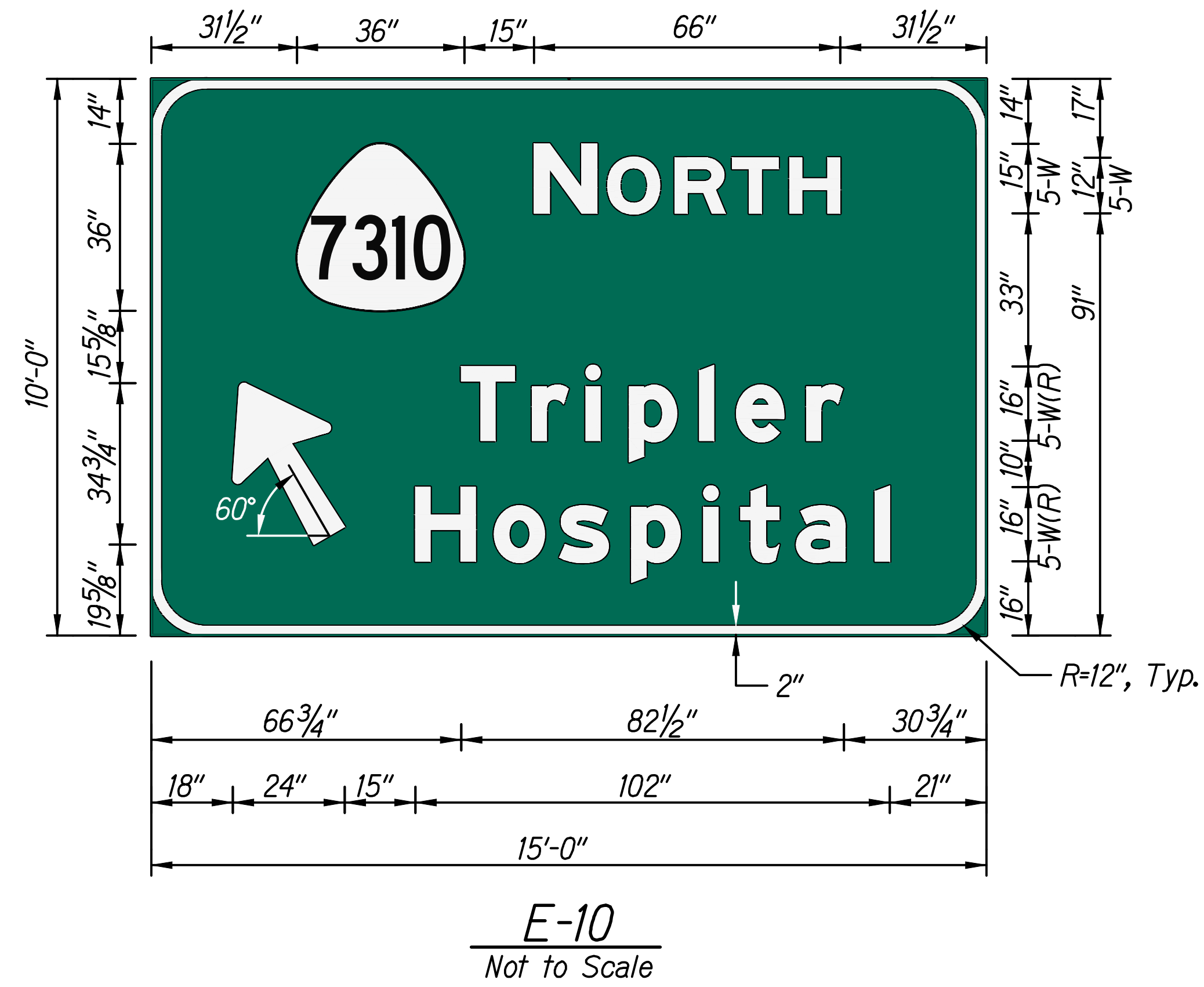
All signs shall use Clearview Font 5-W or 5-W(R) as noted.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SIGN PANEL DETAILS
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	Scale: None Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Paul K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	25	175



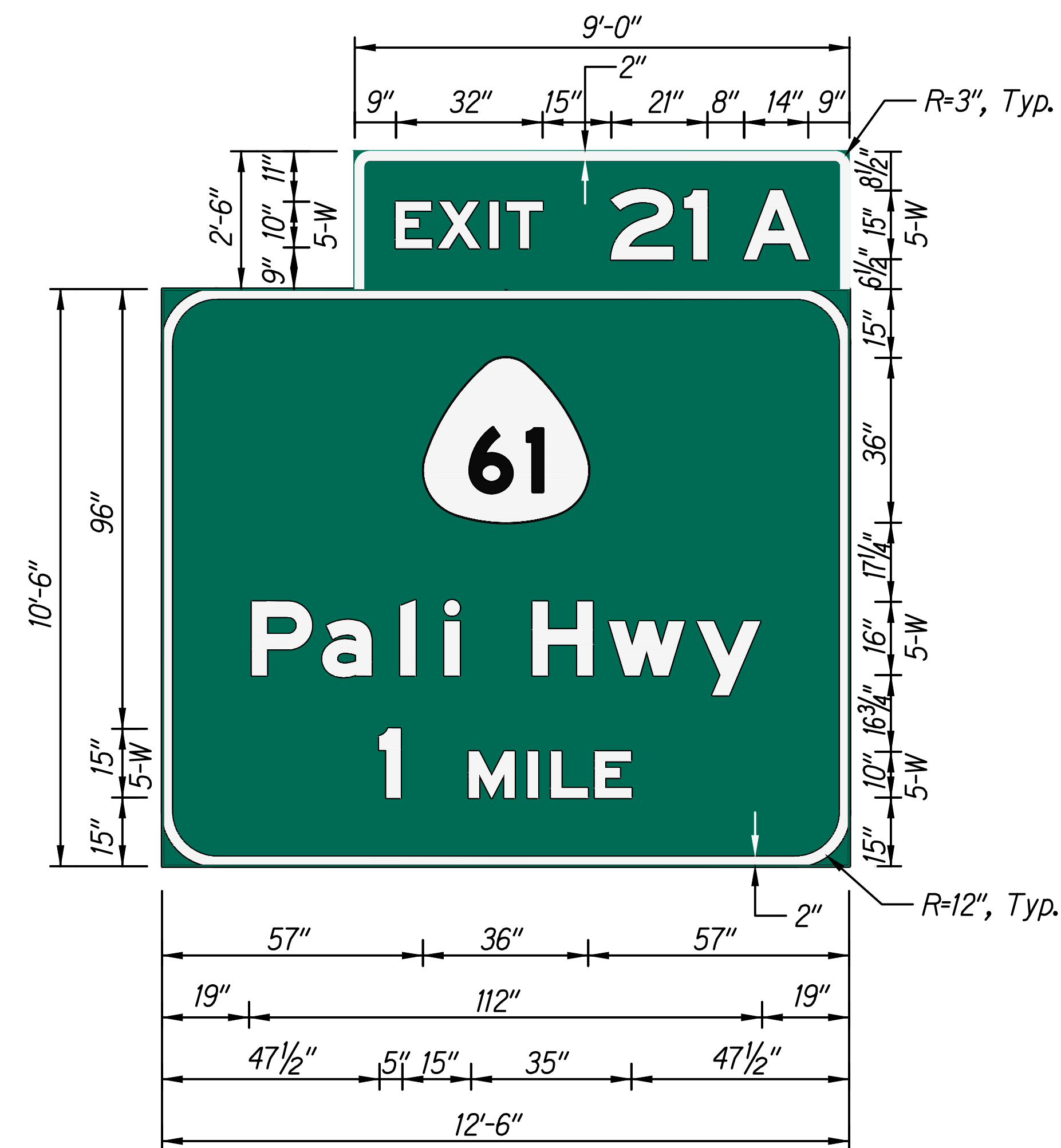
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

NOTE:

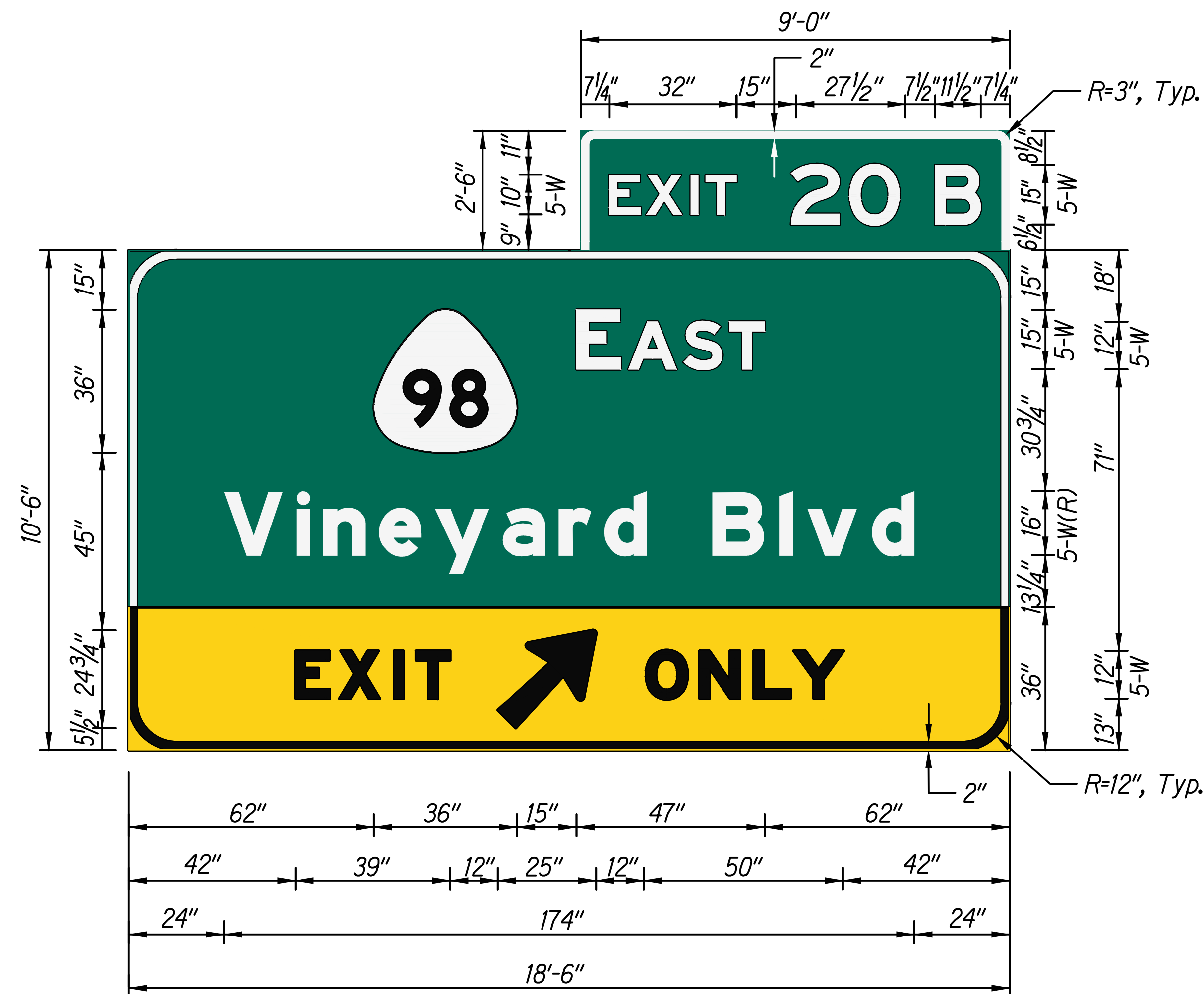
All signs shall use Clearview Font 5-W or 5-W(R) as noted.

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SIGN PANEL DETAILS INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. SIGNATURE: <i>Paul K. Uyeda</i> 04/30/24 <small>EXPIRATION DATE OF THE LICENSE</small>	Scale: None Date: Sept. 2022

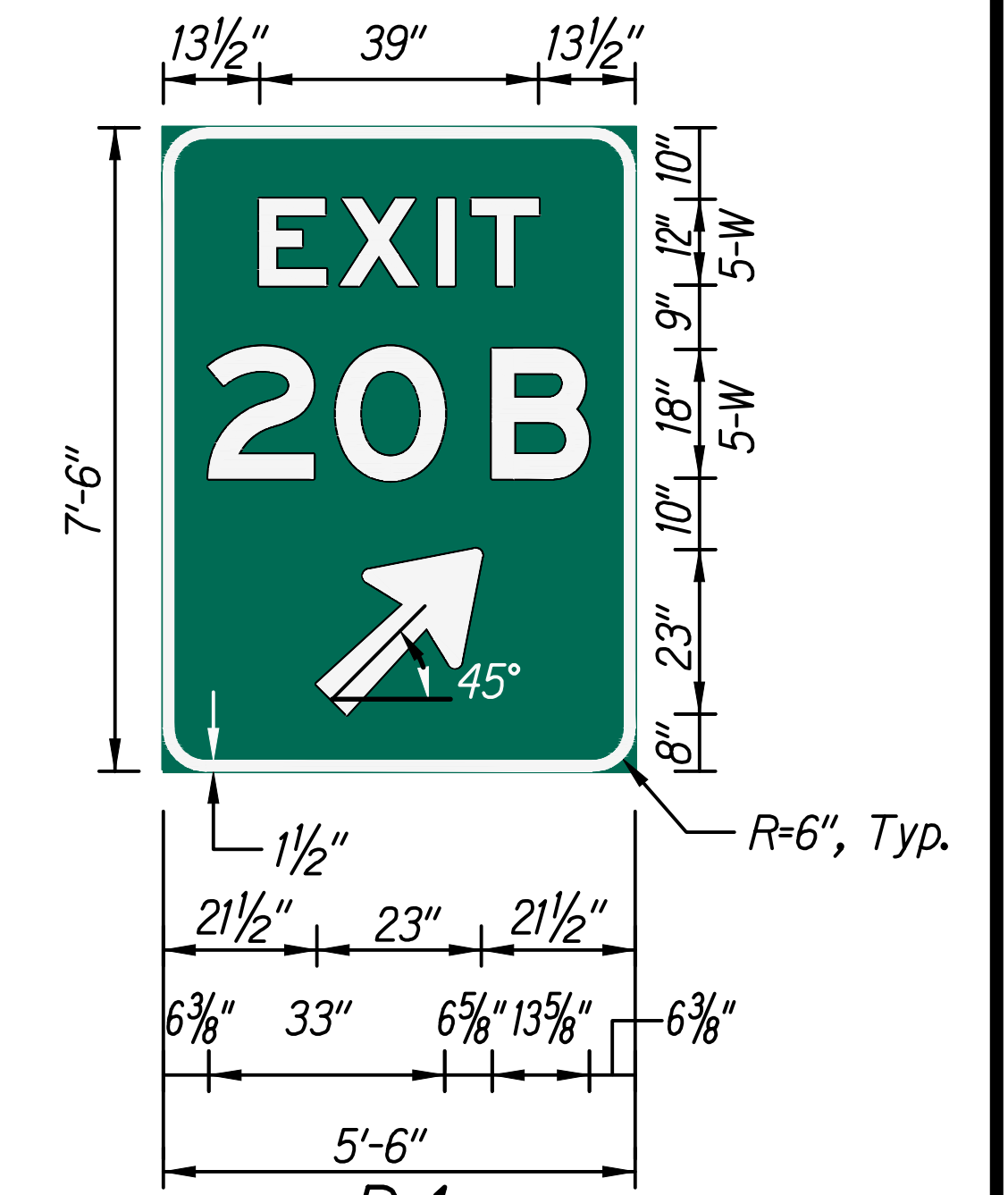
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	26	175



E-12
Not to Scale



E-13
Not to Scale



D-1
Not to Scale

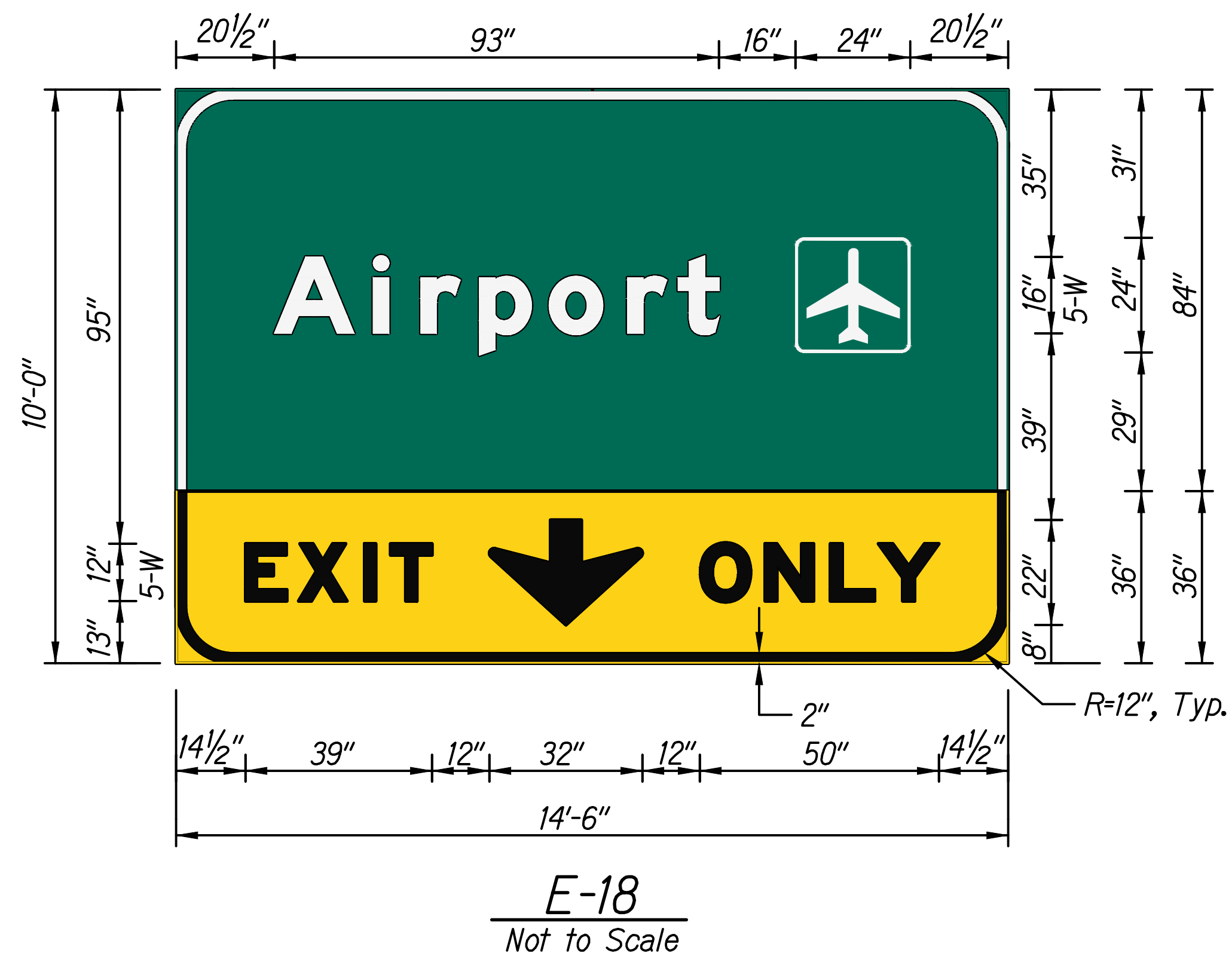
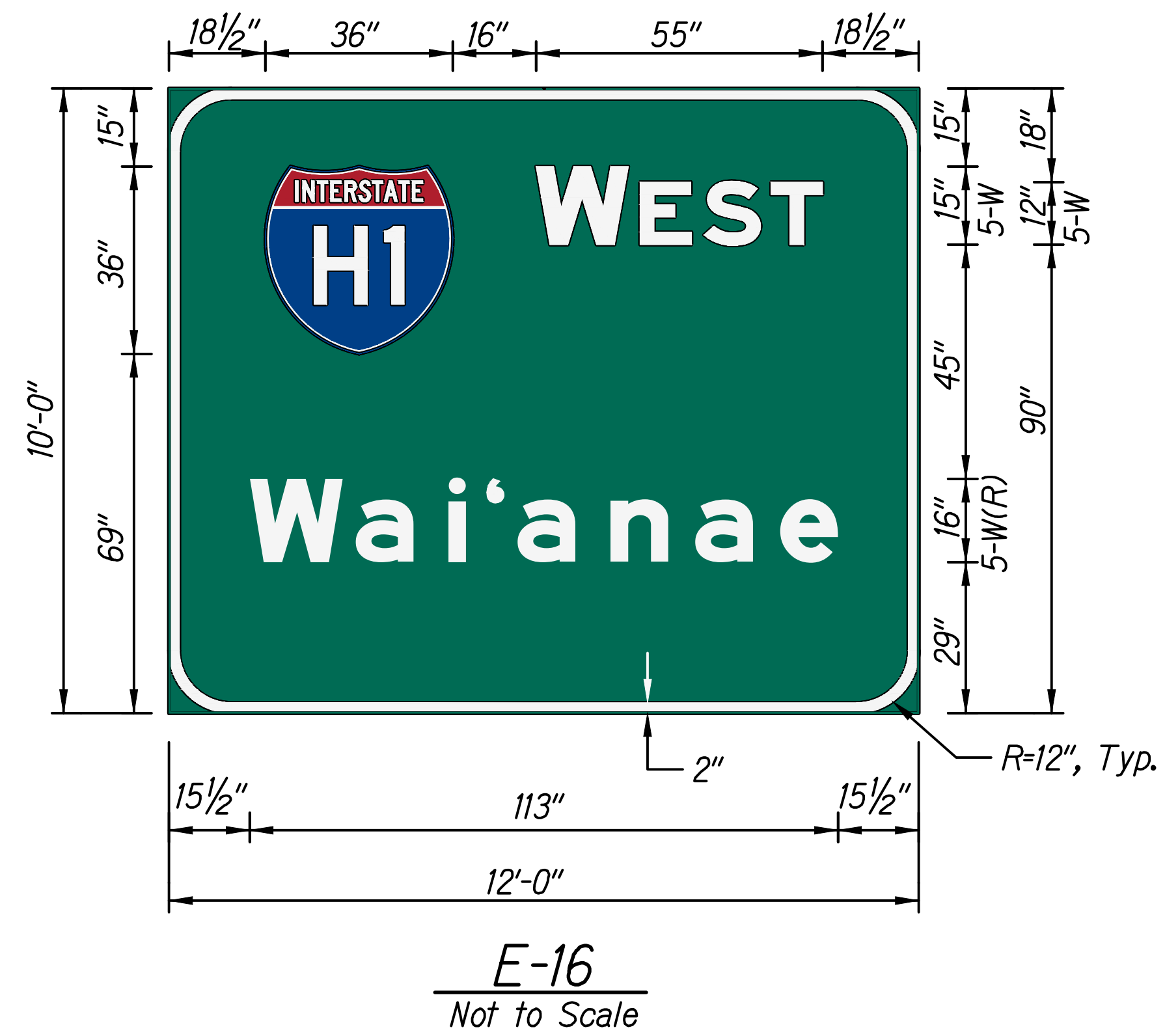
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

NOTE:

All signs shall use Clearview Font 5-W or 5-W(R) as noted.

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SIGN PANEL DETAILS
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
Scale: None Date: Sept. 2022	SHEET No. D-3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	27	175



NOTE:

All signs shall use Clearview Font 5-W or 5-W(R) as noted.

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

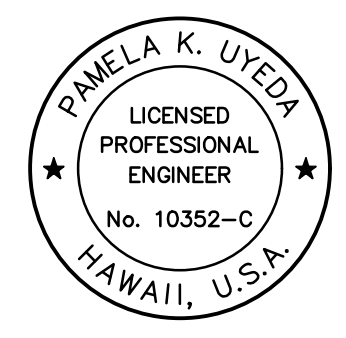
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SIGN PANEL DETAILS INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Pamela K. Uyeda</i> 04/30/24 EXPIRATION DATE OF THE LICENSE	Scale: None Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	29	175

GENERAL NOTES FOR TRAFFIC CONTROL PLAN
(STATE R/W):

- Only Traffic Control Plans for major construction activities are shown. The Contractor shall develop his own Traffic Control Plans in accordance with Section 645 of the Special Provisions for activities to complete work not covered by the Traffic Control Plans. The Contractor shall submit the Traffic Control Plans to the Engineer for acceptance. Payment for development and implementation of the Traffic Control Plans shall be included in the various traffic control pay items.
- All lane closures and traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for acceptance in accordance with Specifications Section 645 - Work Zone Traffic Control. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Subsection 107.03 - Working Hours; Night Work and Section 645-Work Zone Traffic Control.
- The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
- Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
- Flaggers and/or police officers shall be in sight of each other or in direct communications at all times. Flaggers and/or police officers working at night shall be illuminated as required by the MUTCD.
- Sign spacings (L), taper lengths (T), and spacings of cones or delineators shall be as shown in Table 1 of Section 645 in the Specifications, unless otherwise noted on HDOT's Traffic Control Plans.
- All traffic lanes shall be minimum of 10 feet wide.
- All signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- The backs of all signs for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
- At the end of each day's work or as soon as the work is completed, the Contractor shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
- Replace permanent pavement markings and traffic signs upon completion of each phase of work. Temporary pavement markings and traffic signs shall be used in the interim.
- The locations of pavement markings, signs, and delineators used in the Traffic Control shall be as shown on the plans, Contractor's approved Traffic Control Plans, and/or as determined in the field by the Engineer.
- Damage to signs, pavement markers, and delineators caused by the Contractor's negligence shall be repaired or replaced by the Contractor as directed by the Engineer at no cost to the State.
- Signs for night work shall be retroreflective and shall be mounted with a Type B high intensity flasher. The sign and flasher will be paid under the various traffic control pay items.
- The Contractor shall provide all sign supports, barrier mounting brackets, and/or posts for construction warning signs.
- Steel plates for covering trenches shall have a skid resistant surface. The skid resistant surface shall be maintained throughout its use. Steel plates shall be installed in such a manner as to minimize movement from its intended location and minimize noise when traffic crosses over it (i.e., steel plates shall not generate any noise impact). Steel plates shall not be allowed in the travelway for posted speeds in excess of 35 mph.
- Work zone limits shown for each traffic control phase encompass all work items to be completed in that particular phase. The length of the work zone may be reduced to accommodate the Contractor's actual work zone for that time period, provided it has been accepted by the Engineer, and all tangents, tapers, and buffer lengths are maintained.
- The Contractor shall provide and maintain four (4) portable message boards in addition to those shown on the traffic control plans to provide advanced warning of the lane closures. The message boards' location to be determined by the Engineer for each construction phase. Message boards shall display closure dates and times and shall be operational 24 hours a day for three (3) days prior to each lane closure. The Contractor shall provide appropriate traffic control devices (barricades, cones, etc.) to protect the message boards. Installation, Maintenance, and removal of message boards shall be paid under the various traffic control pay items.
- The Contractor shall furnish, install, maintain, and remove all traffic control devices shown on the traffic control plans.
- Contractor shall protect all areas below when working on sign structures above, including public streets, service roads, parking lots, private properties, and pedestrian walkways.
- Contractor shall provide MASH TL-3 compliant positive protection barriers and Terminal Impact Attenuators for locations and durations that existing concrete barriers or metal guardrails are removed. Payment shall be considered incidental to the various traffic control pay items.
- Type II barricades shall have Type B steady burn amber warning lights.
- Regulatory and Warning Signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered.
- The Contractor shall provide and maintain portable message boards to provide advanced warning of freeway lane closures. Message boards shall display closure dates and times and shall be operational 24 hours a day for three (3) days prior to the first freeway lane closure. Signs shall remain for the duration of the anticipated lane closures. The Contractor shall provide appropriate traffic control devices (barricades, cones, etc.) to protect the message boards. Installation, maintenance, and removal of message boards shall be paid under the various traffic control pay items.
- Contractor shall provide towing services to remove disabled vehicles from the roadway during lane closures. Towed vehicles shall be moved to a location outside the work zone where there is curbside parking. Motorists shall not be charged for this service. The Contractor shall retain the services of at least three (3) tow trucks to enhance response times.
- All delineators used for night work shall have a 3" wide retroreflective band.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL NOTES
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: None Date: Sept. 2022


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	30	175

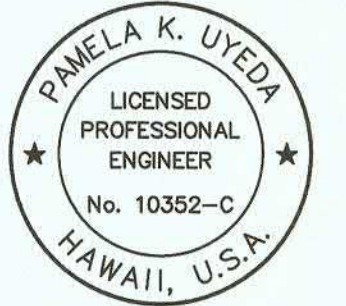
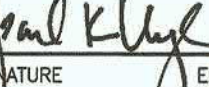
GENERAL NOTES FOR TRAFFIC CONTROL PLAN
(CITY R/W):

1. The Permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and Warning Signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered.
5. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the Permittee shall install a flashing arrow signal as shown on the traffic control plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
10. Lane closure shall be limited only to the extent of accomplishing each day's work. As soon as each day's work is completed, the Permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
11. Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
12. Cones and delineators shall be kept spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.
13. Driveways shall be kept open unless the owners of the property using the driveway are otherwise provided for satisfactorily. Further, the Permittee shall control traffic going into and out of driveways.
14. Buffer and taper area on approach to any work area shall be kept clear of vehicles and equipment.
15. A high level warning device (flag tree) shall be installed on approach to all work areas.
16. "No Parking" signs shall be posted within any work area and for the buffer and taper areas approaching the work area.
17. Where an accessible pedestrian route is closed or blocked during construction, Contractor shall provide temporary accessible pedestrian route.
18. Traffic control plans are approved for work on any City street area only for the hours shown on the construction phasing plans.
19. At no time outside of the hours shown in the construction phasing plans shall any lanes be obstructed either temporarily or momentarily that prevents the free movement of traffic by any equipment, vehicle, traffic control device, signage or person controlled by the Contractor. Non-compliance will result in the immediate revocation of the street usage permit. DTS will cause all construction activities to cease. Contractor may apply for a new street usage permit only after meeting with DTS. There will be no extension of contract time or compensation granted due to delays in the application and in the obtaining of a new street usage permit.

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

APPROVED:


TRAFFIC REVIEW BRANCH, DPP ^{VA} 10/31/22 DATE
(FOR WORK WITHIN CITY R-O-W)

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL NOTES INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. 	Scale: None Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	31	175


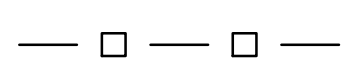

SIGNING NOTES:

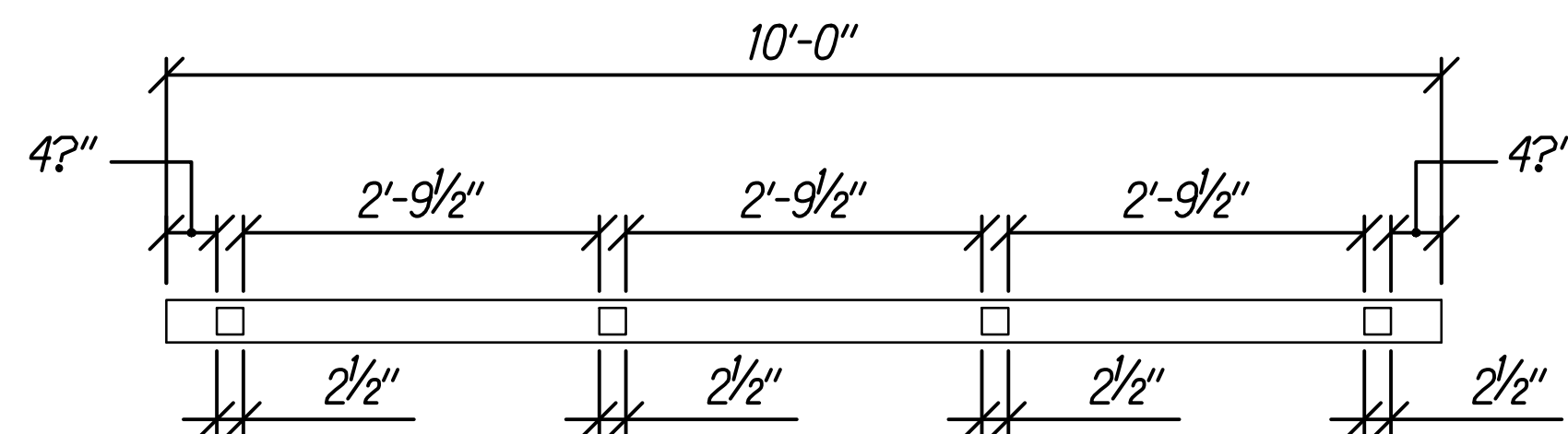
- All sign panels shall conform to Section 630, 631 and 632 of the specifications, DOT standard plans, and the latest editions and amendments of the following FHWA publications: "Manual on Uniform Traffic Control Devices for Streets and Highways", "Standard Highway Signs" and "Standard Alphabets for Highway Signs".
- For Miscellaneous Sign Details, see Standard Plan TE-01 to TE-18.
- Existing Signs to be removed shall be disposed of by the Contractor. Removal of signs shall also include the removal of post and foundation to a minimum height of 1-foot below the ground. Payment for the removal of such signs shall be incidental to the various contract items.
- The Contractor shall backfill all holes, depressions and pits left by the removal of the existing signs with embankment material.
- The cost of trimming existing vegetation for installation of signs to provide a clear view of the sign(s) shall be considered incidental to the sign(s).
- Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 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.
- All existing sign post(s) to remain within the sidewalk area shall meet the minimum clear width of 48 inches from the sidewalk edge. Where necessary, the existing sign post(s) shall be relocated to meet the minimum clear width. This work shall not be paid for separately but shall be considered incidental to the various contract items.
- Backing for all new regulatory and warning signs shall not be spliced.
- Remove and install signs in such a manner that it will not endanger the public (e.g. falling tools, debris, material, etc.)

PAVEMENT MARKING NOTES:

- Location of pavement markers is shown schematically. For exact location of markers in relation to stripe, see Standard Plans T-7, T-8, T-9 & T-10.
- Removal of existing pavement markings shall be considered incidental to the various contract items.
- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The costs shall be incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- All pavement striping shall be as noted on the legend or plans.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape's manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- Contractor shall verify locations of fire hydrants prior to installation of Type F Raised Pavement Markers.

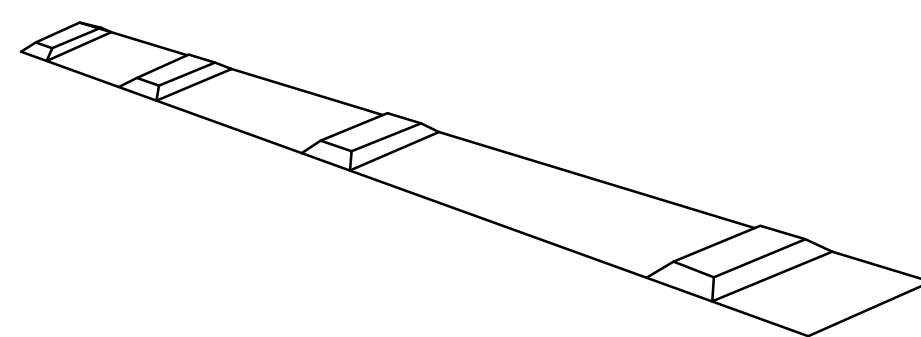
LEGEND

- ①  6" Solid Yellow Stripe with Type H RPMs @ 40'-0" o.c. (Thermoplastic Extrusion)
- ②  4" White Profiled Thermoplastic Stripe, 10' long with Type C RPMs @ 40'-0" o.c. See Detail this sheet.
- ③  1/2" White Zipper Barrier Guide Stripe (Thermoplastic Extrusion)



Top View
Lane Line

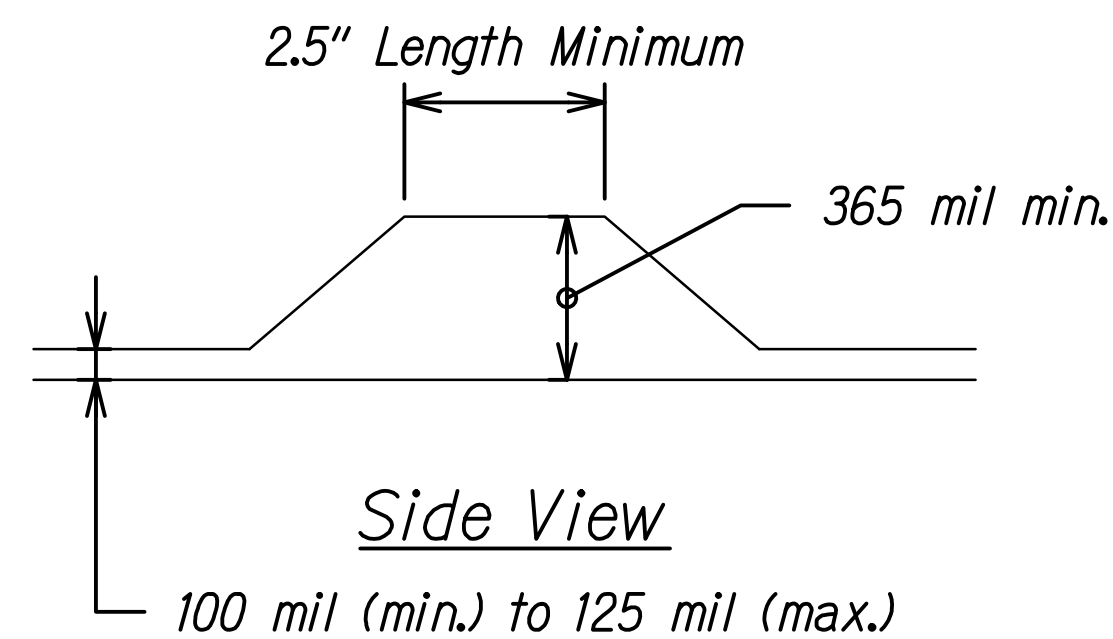
Profiles placed on 36" o.c.
365 mil height (min.), including 100-125 mil baseline.
Width equal to approximately baseline width.



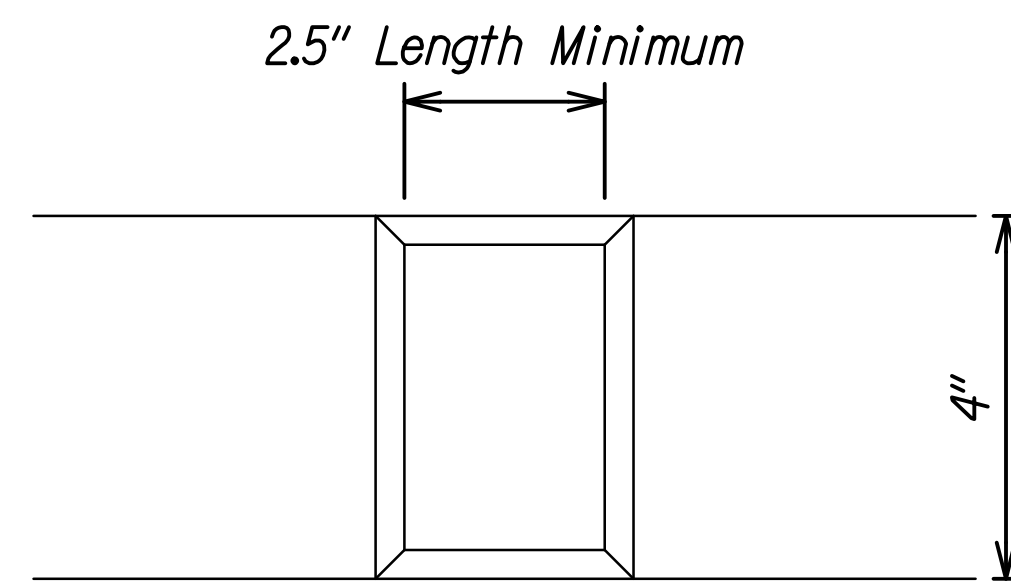
Perspective View

PROFILED THERMOPLASTIC STRIPING

Not to Scale

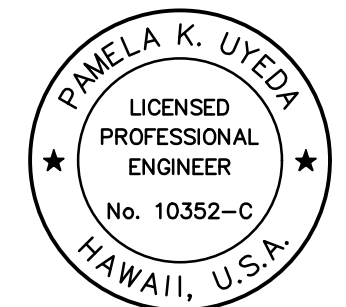



Side View

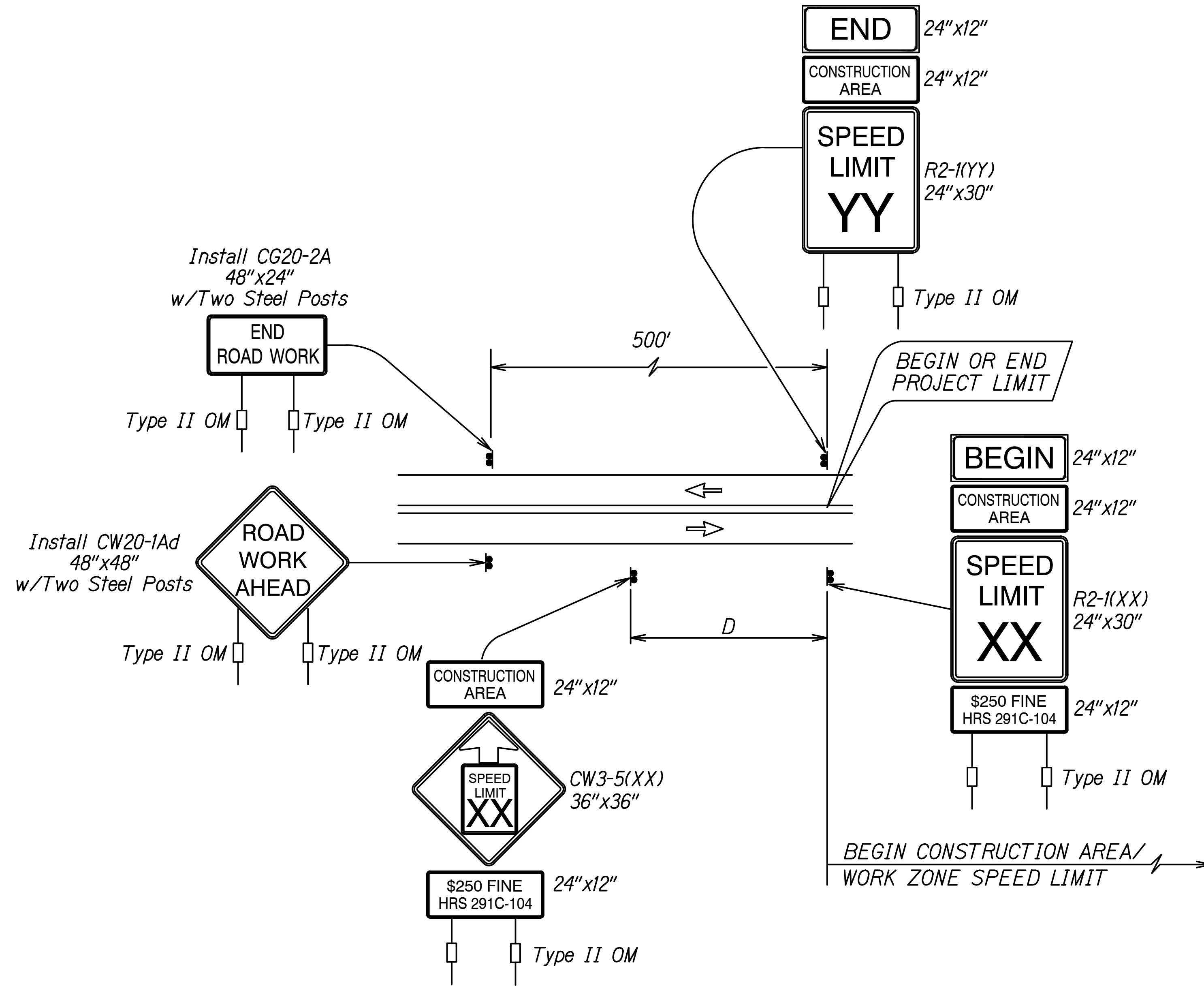


Top View

DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
NO.	.....

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SIGNING AND PAVEMENT MARKINGS NOTES & LEGEND
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	Scale: None Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

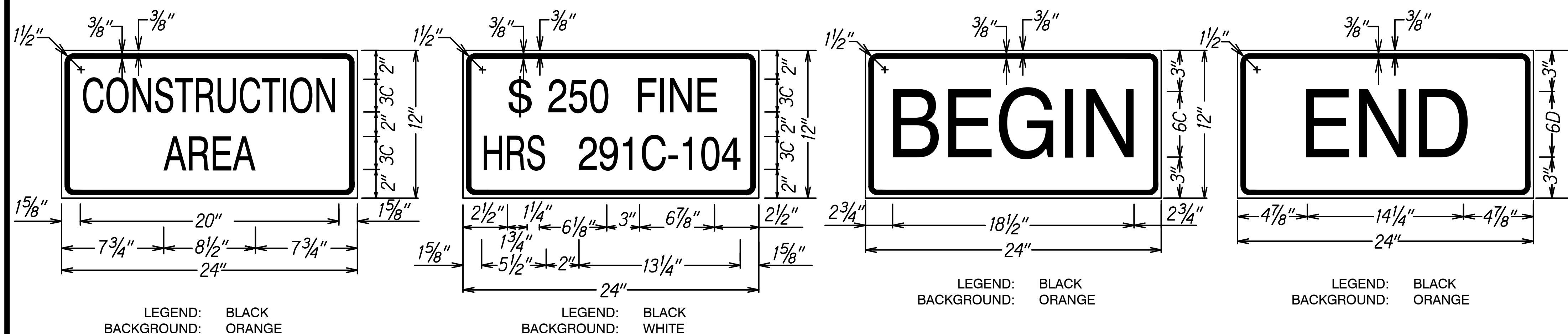


Work Zone Notes:

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(XX) and CW3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" 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 shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to the various traffic control pay items.
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.
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 shall be considered incidental to the various traffic control pay items.

YY - EXISTING POSTED SPEED LIMIT (MPH)	XX - NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
≤25	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175

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



LEGEND: BLACK BACKGROUND: ORANGE

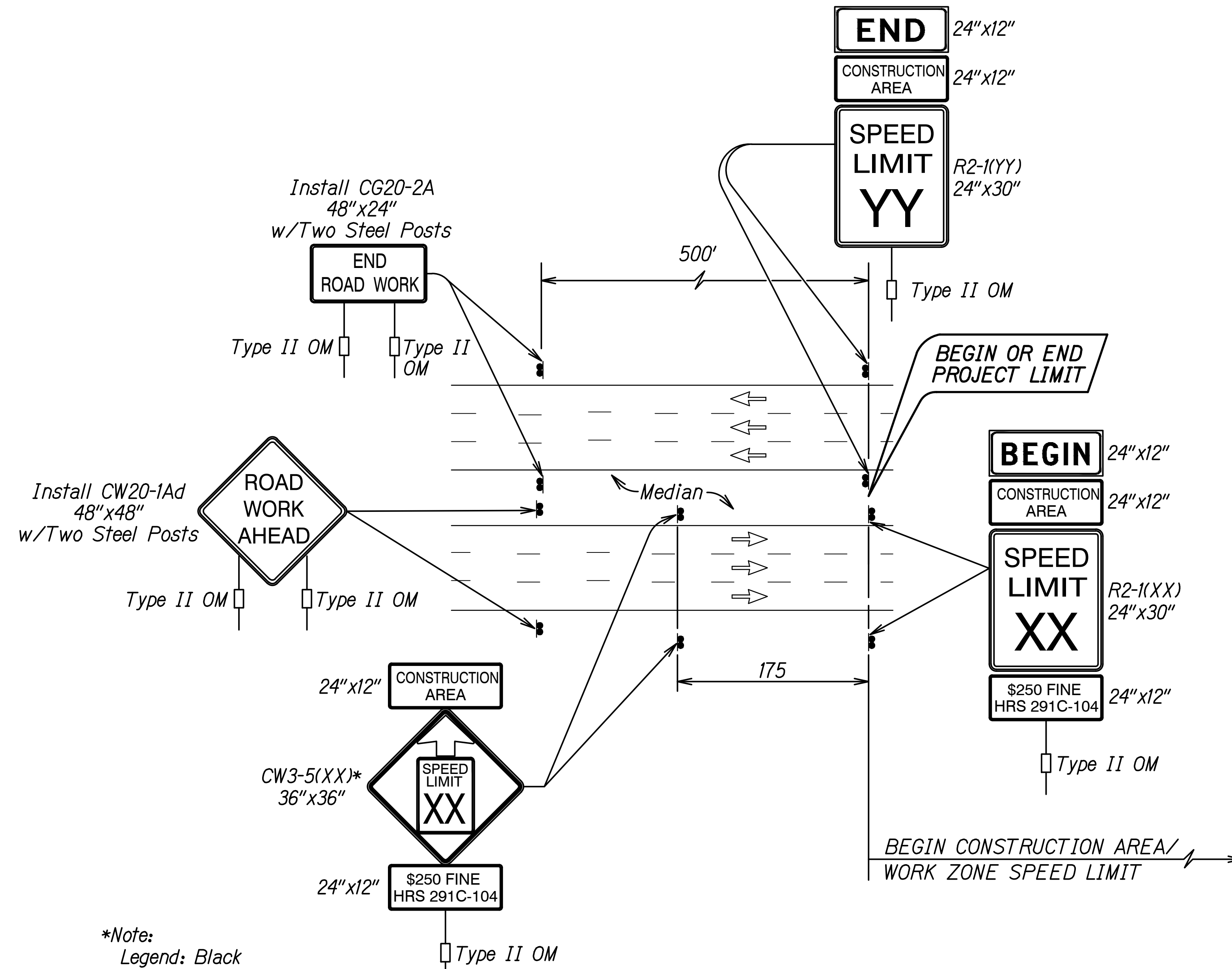
LEGEND: BLACK BACKGROUND: WHITE

LEGEND: BLACK BACKGROUND: ORANGE

LEGEND: BLACK BACKGROUND: ORANGE

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	LOW SPEED UNDIVIDED HIGHWAY WORK ZONE SIGNING PLAN, NOTES & DETAILS
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: Paul K. Uyeda EXPIRATION DATE OF THE LICENSE: 04/30/24	Scale: Not to Scale Date: Sept. 2022



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

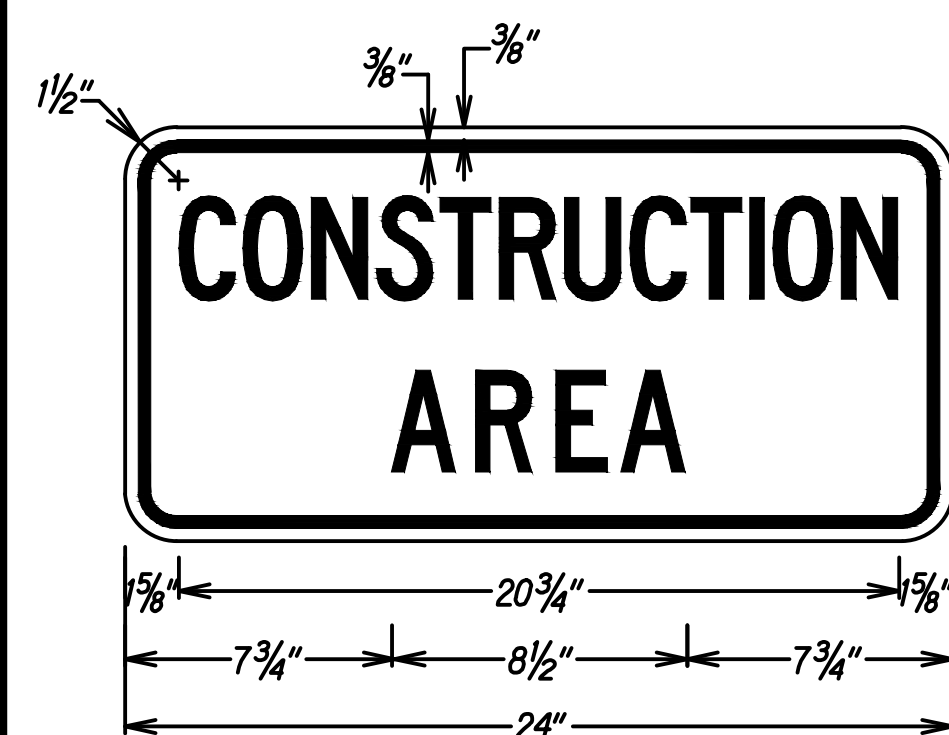
**TYPICAL DETAIL FOR CONSTRUCTION SIGNS
 ON MULTILANE DIVIDED LOW SPEED HIGHWAY**

Work Zone Notes:

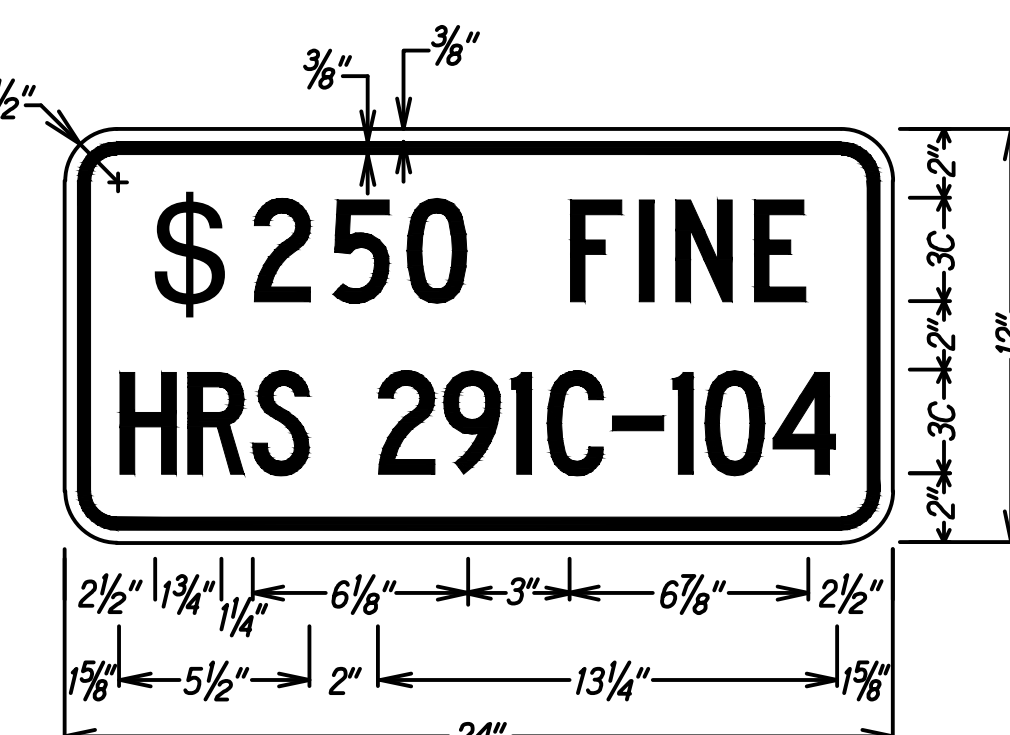
1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and CW3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" 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 shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be included in the various traffic control pay items.
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.
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 included in the various traffic control pay items. Sign covers shall be commercially manufactured and HDOT approved. Sign covers shall not allow any portion of the sign being covered to be visible. If the sign has more than one side, cover shall completely cover each side. "Homemade" or "field made" covers shall not be used or accepted.
8. All signs and markers shown shall be paid under the various traffic control pay items.

EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
≤ 25	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175

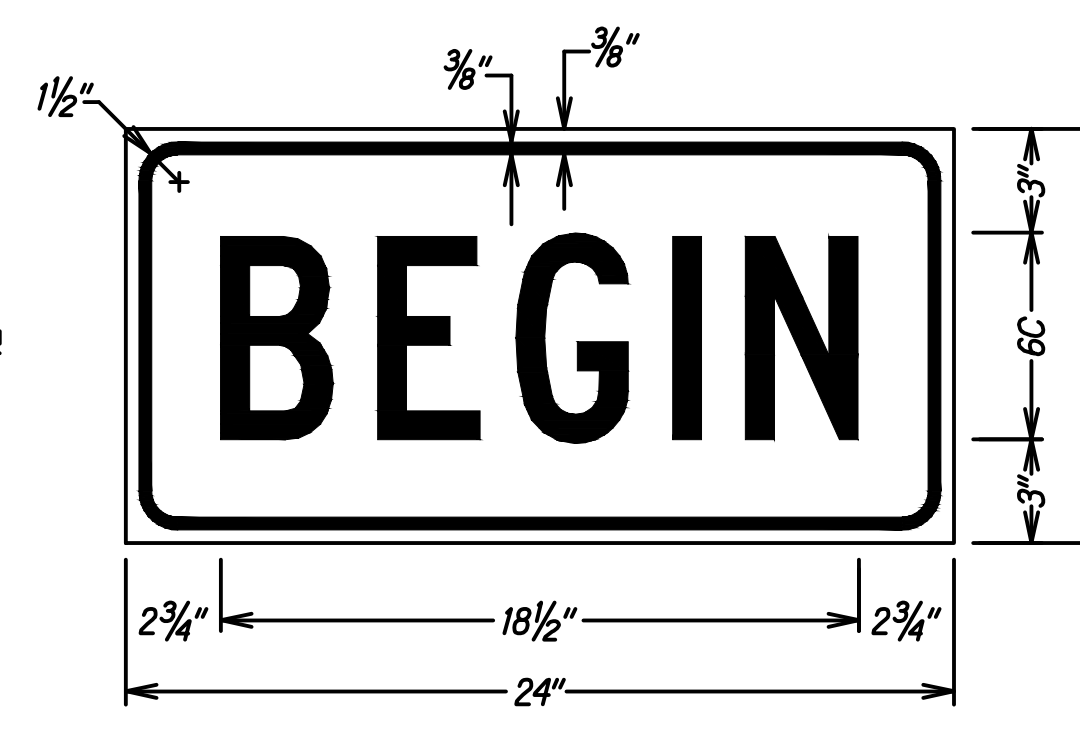
DATE
 SURVEY PLOTTED BY
 DRAWN BY
 TRACED BY
 DESIGNED BY
 NOTE BOOK
 QUANTITIES BY
 CHECKED BY
 No.



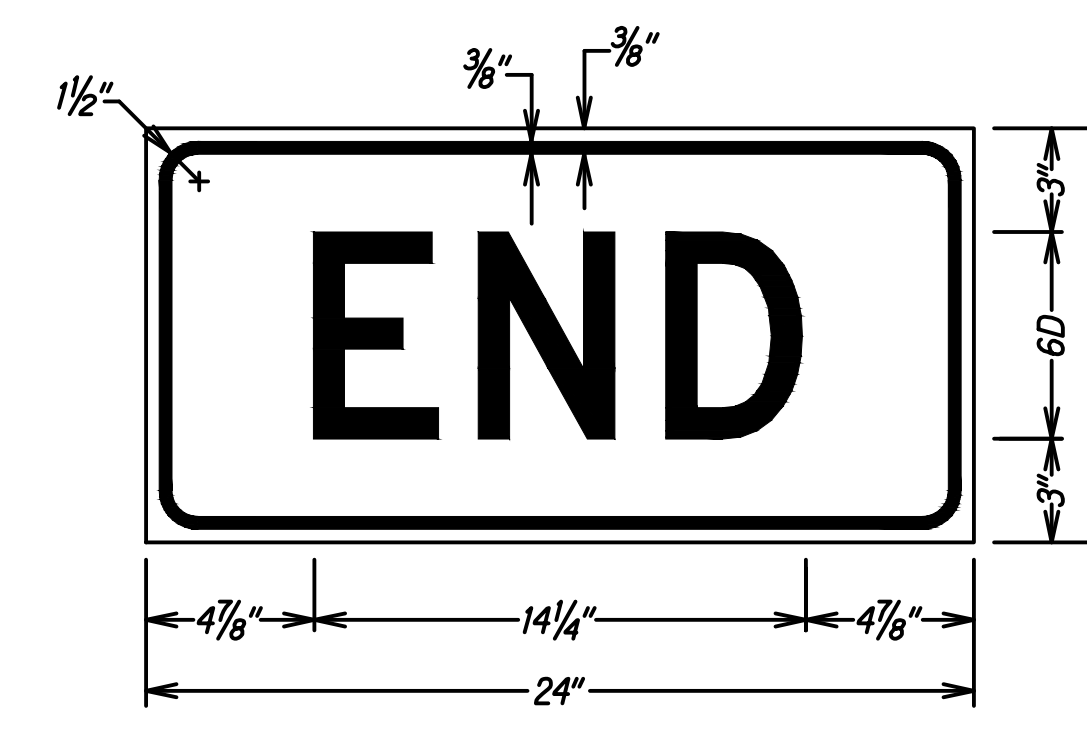
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 BACKGROUND: ORANGE



LEGEND: BLACK
 BACKGROUND: WHITE



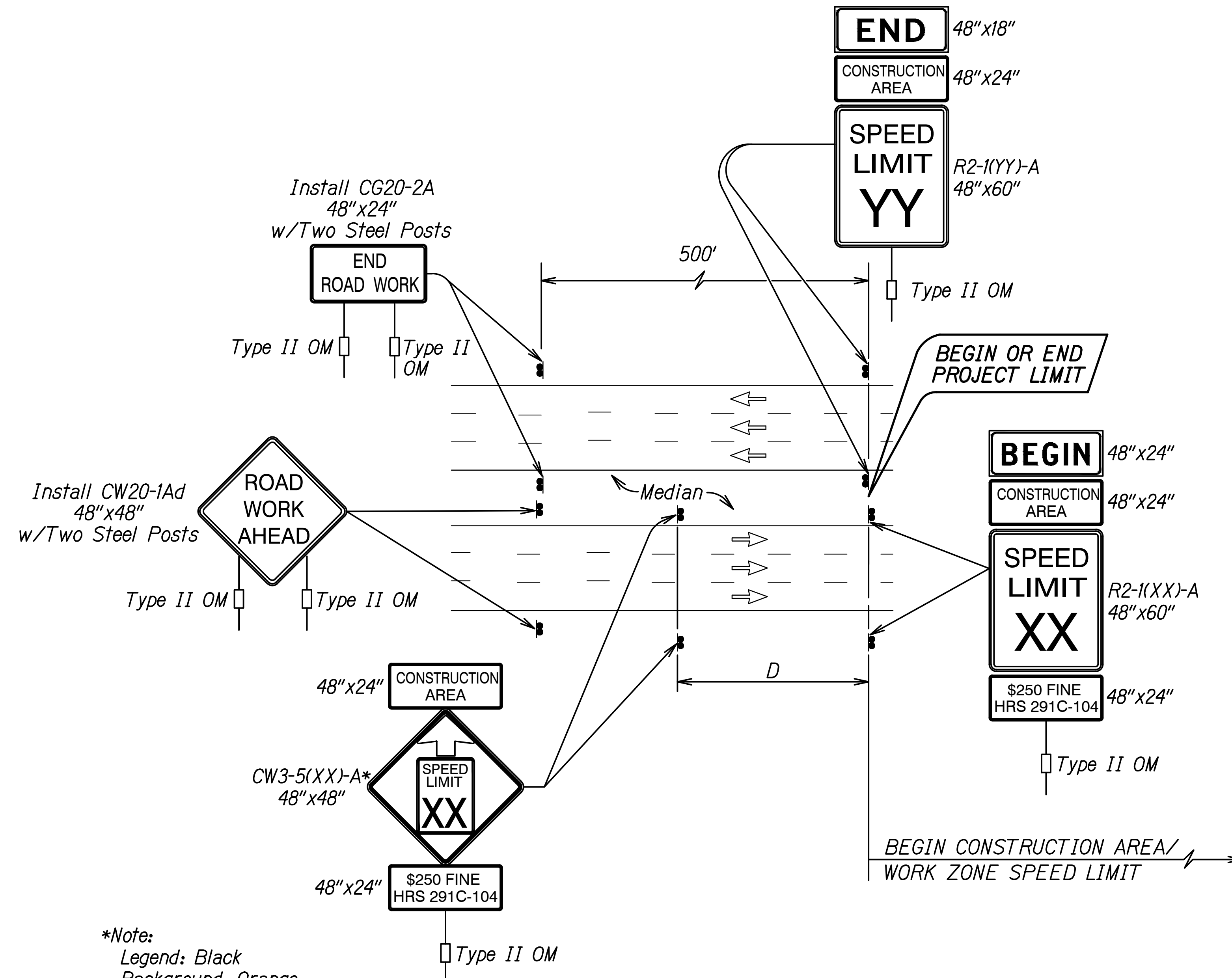
LEGEND: BLACK
 BACKGROUND: ORANGE



LEGEND: BLACK
 BACKGROUND: ORANGE

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: Paul K. Uyeda
 EXPIRATION DATE OF THE LICENSE: 04/30/24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**LOW SPEED DIVIDED HIGHWAY
 WORK ZONE SIGNING PLAN, NOTES & DETAILS**
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: None Date: Sept. 2022

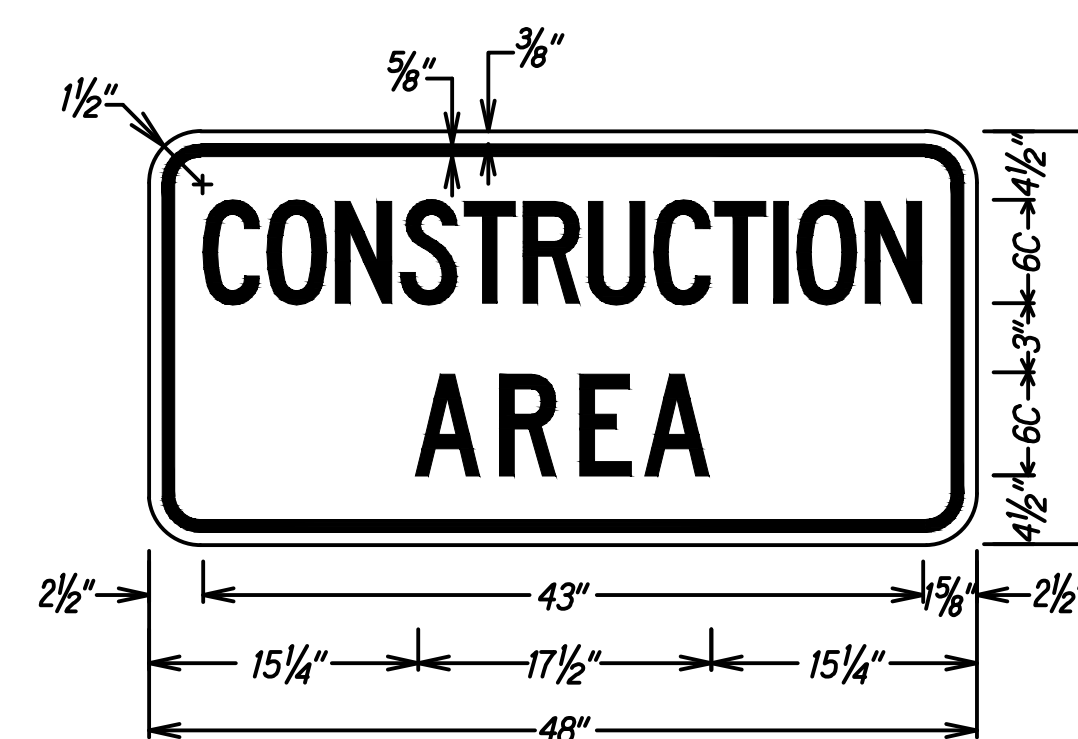


TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON FREEWAY

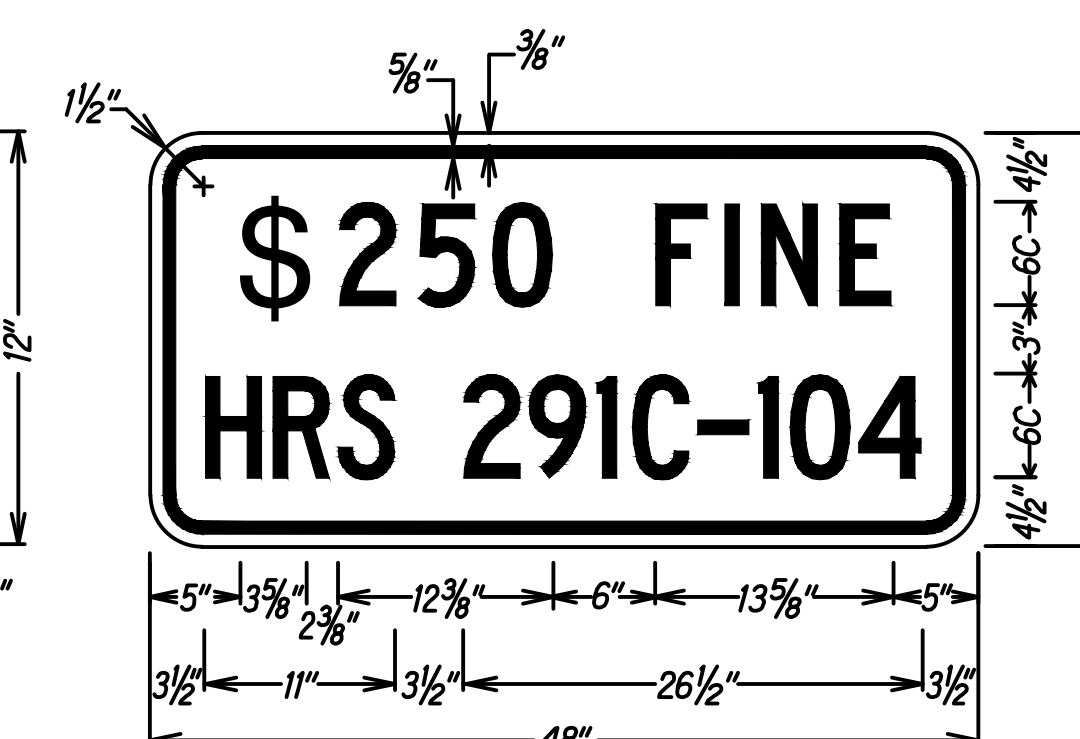
Work Zone Notes:

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 within the work zone/project limits shall be covered and work zone speed limit sign assemblies (R2-1(XX)-A and CW3-5(XX)-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 the various traffic control pay items.
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 the various traffic control pay items.

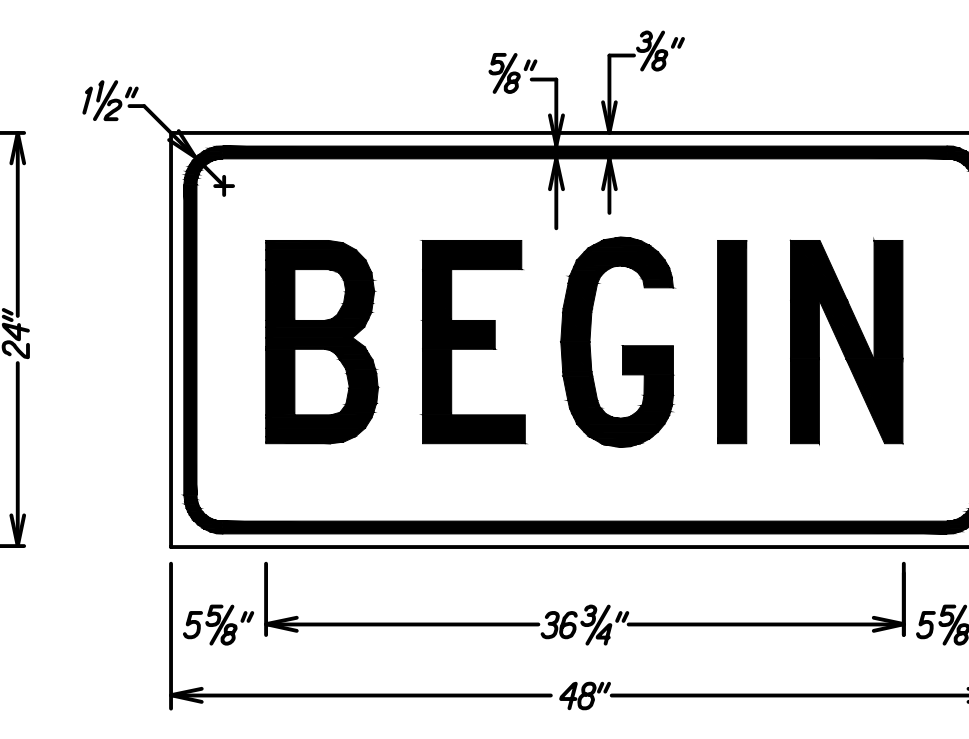
EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
40	30	175
45	35	225
50	40	225
55	45	300
60	50	300



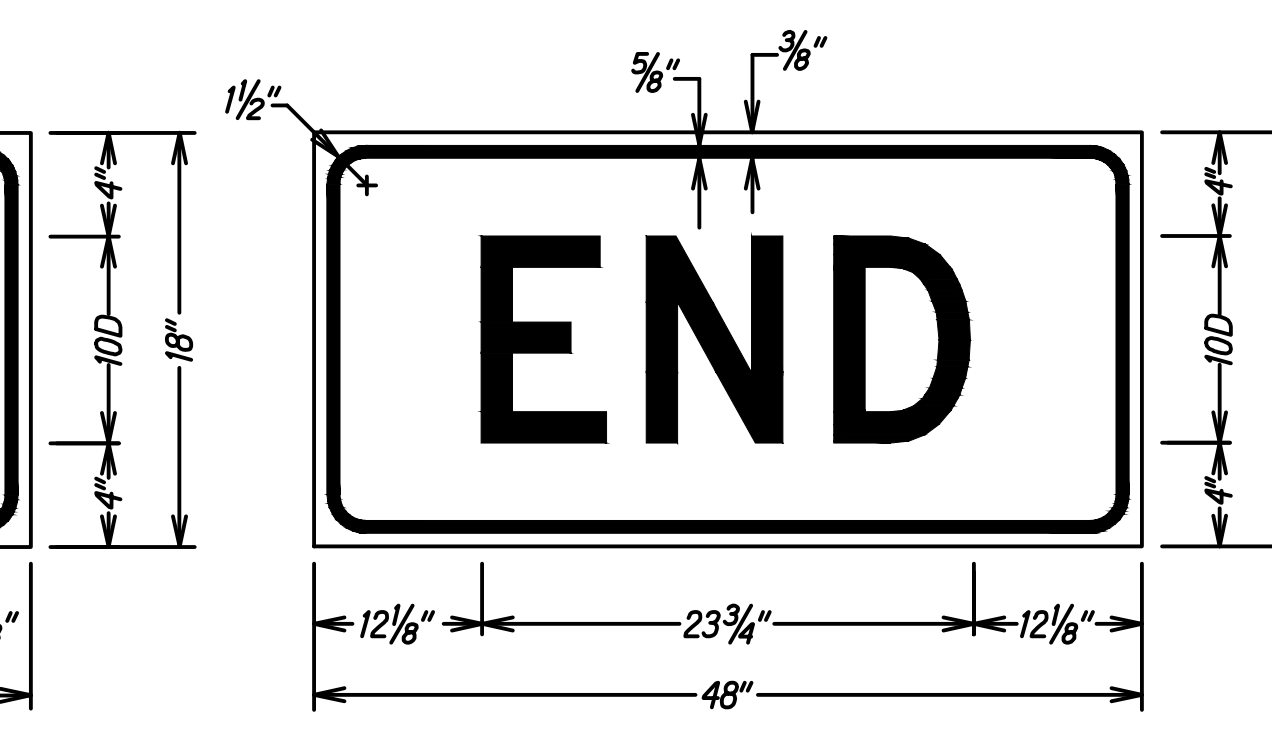
LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE

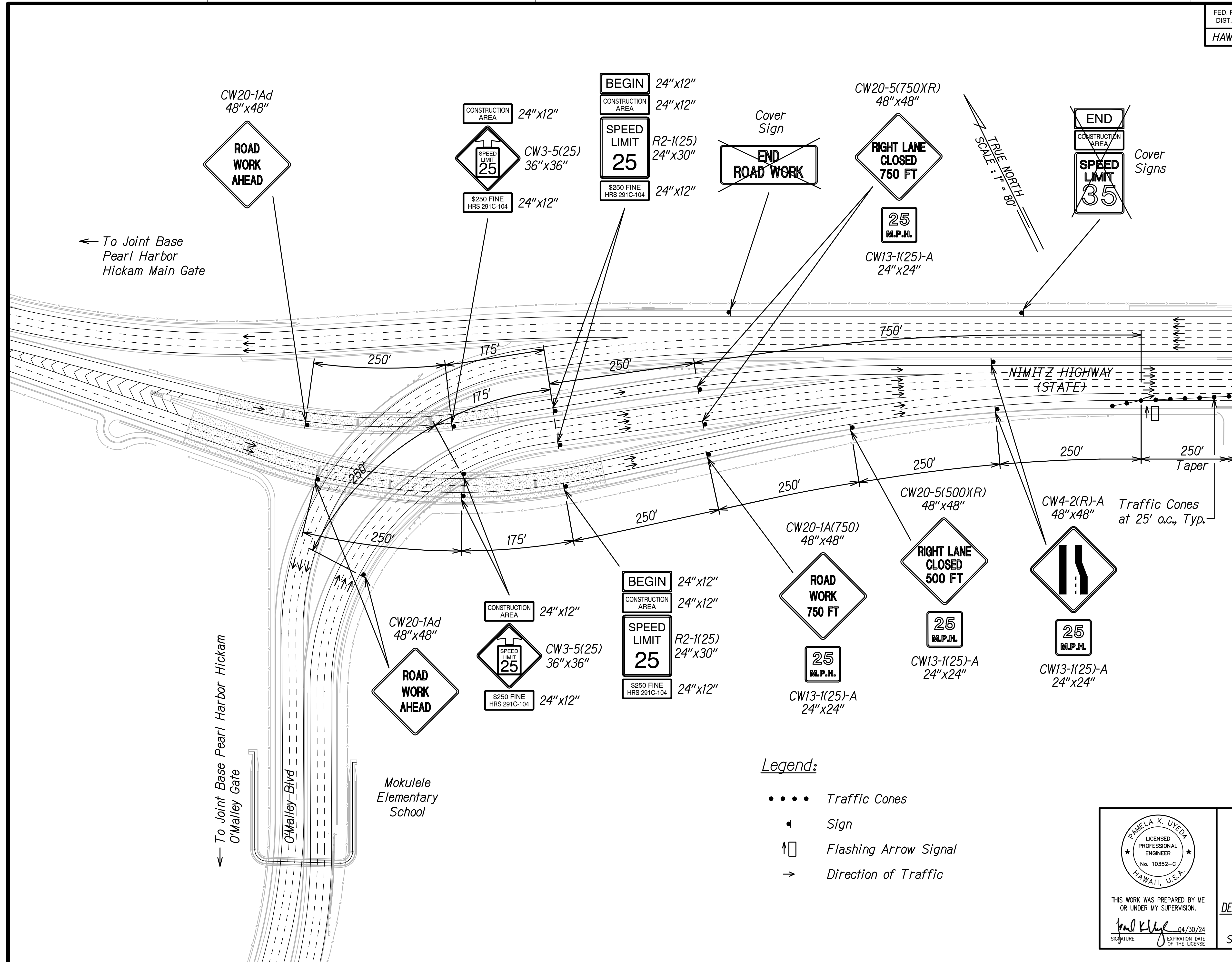


LEGEND: BLACK
BACKGROUND: ORANGE

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____
CHECKED BY: _____
No. _____

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION FREEWAY WORK ZONE SIGNING PLAN, NOTES & DETAILS INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Paul K. Uyeda</i> 04/30/24 EXPIRATION DATE OF THE LICENSE: _____ Scale: Not to Scale Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	35	175



← To Joint Base Pearl Harbor Hickam Main Gate

← To Joint Base Pearl Harbor Hickam O'Malley Blvd

Mokulele Elementary School

MATCHLINE SEE SHEET TC-8

DATE	.....
DESIGNED BY	.....
TRACED BY	.....
DESIGNED BY	.....
CHECKED BY	.....
DATE	.....

- Legend:**
- Traffic Cones
 - ◀ Sign
 - ⬆ Flashing Arrow Signal
 - Direction of Traffic

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Pamela K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 1A

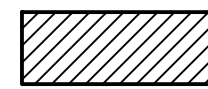


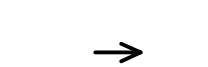

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

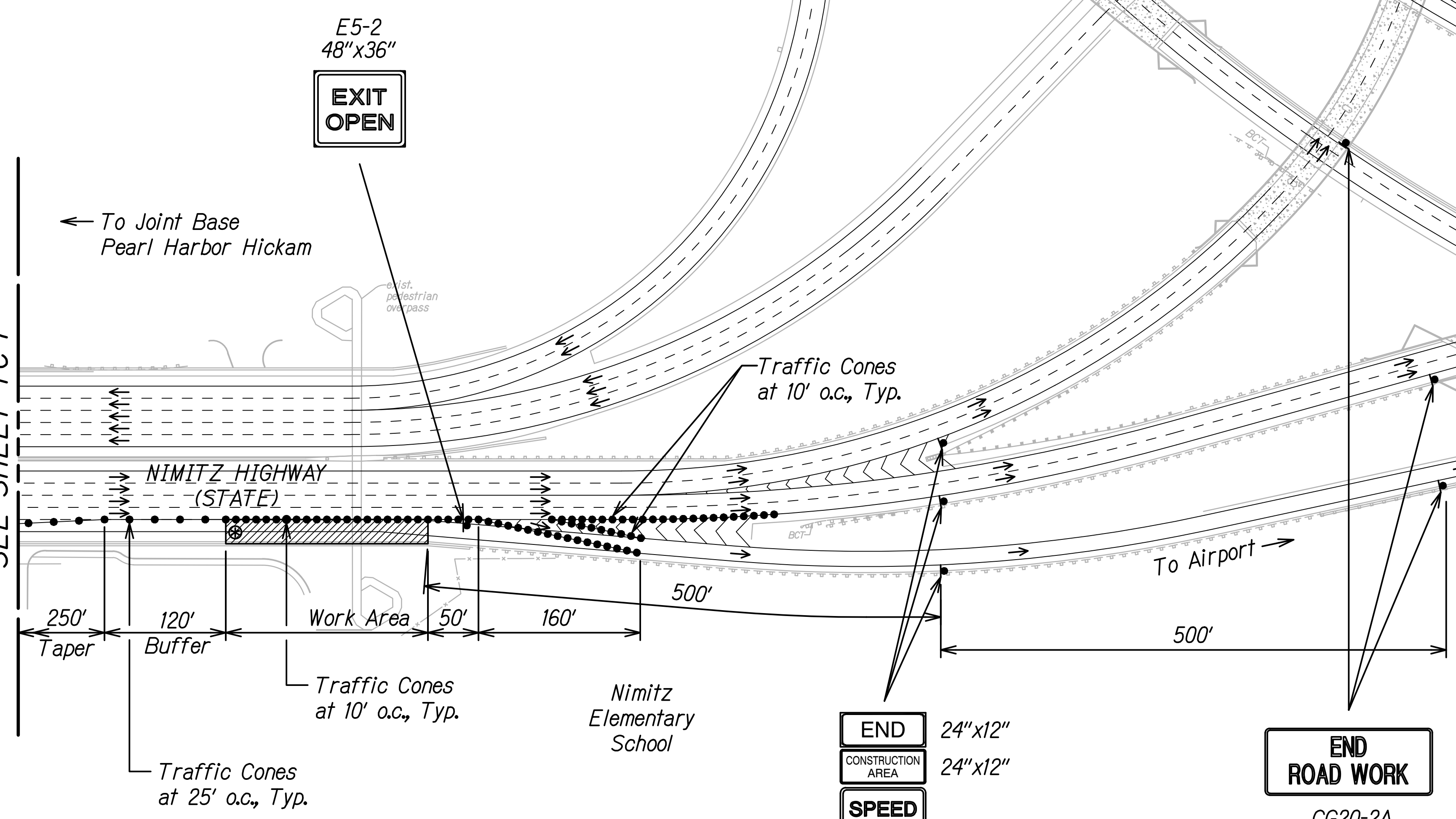
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	36	175

TRUE NORTH
SCALE: 1" = 80'

Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Direction of Traffic
-  Police Vehicle with Visible Blue Light

MATCHLINE
SEE SHEET TC-7



E5-2
48"x36"
EXIT OPEN

END 24"x12"
CONSTRUCTION AREA 24"x12"
SPEED LIMIT R2-1(35) 24"x30"
35

END ROAD WORK
CG20-2A
48"x24"

BEGIN
CONSTRUCTION AREA
SPEED LIMIT 25
S250 FINE
HRS 291C-104

CONSTRUCTION AREA
SPEED LIMIT 25
S250 FINE
HRS 291C-104

ROAD WORK AHEAD

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

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: *Pamela K. Uyeda* 04/30/24
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

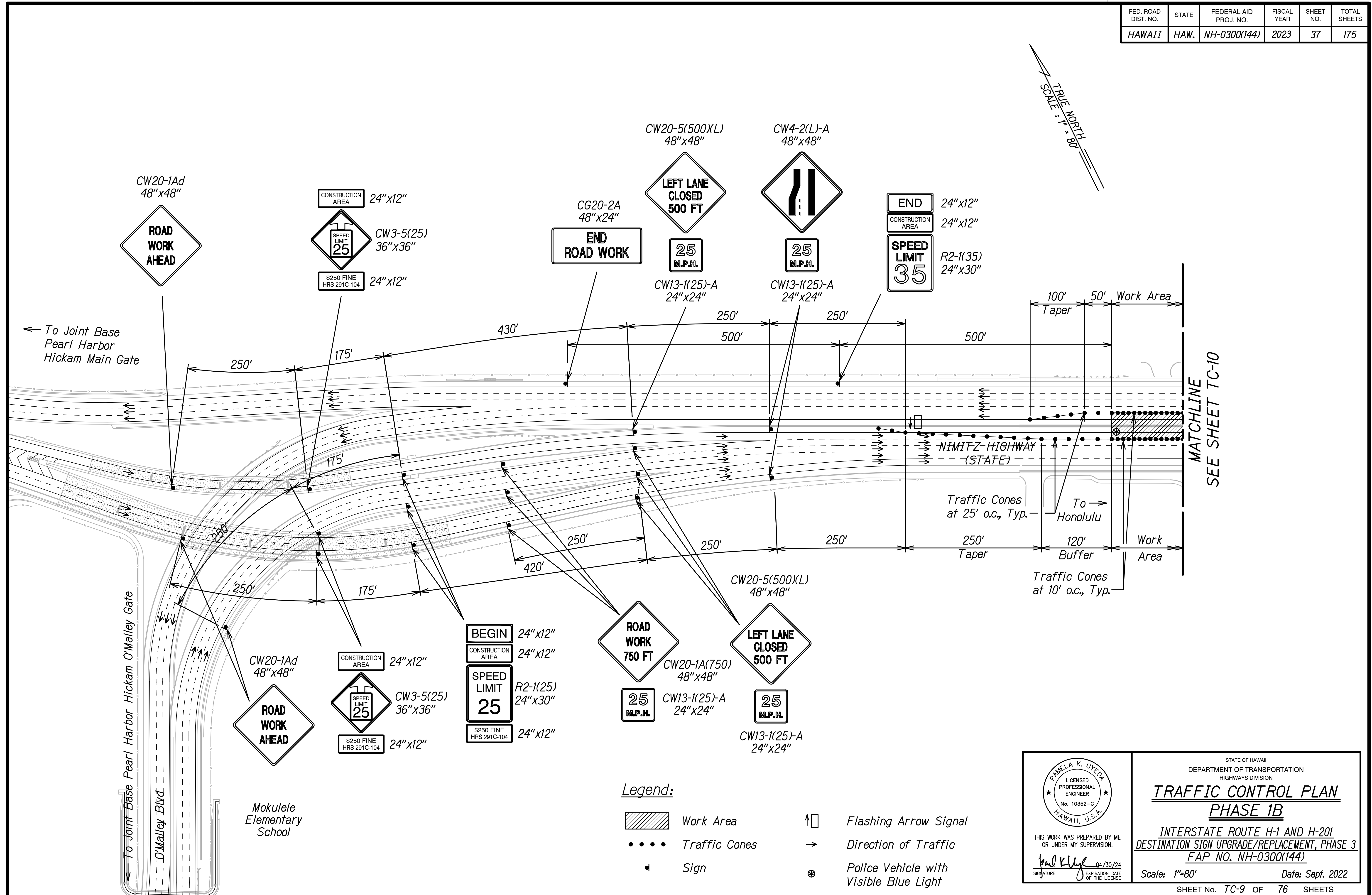
TRAFFIC CONTROL PLAN
PHASE 1A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	37	175

TRUE NORTH
SCALE: 1" = 80'



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

Legend:

- Work Area
- Traffic Cones
- Sign
- Flashing Arrow Signal
- Direction of Traffic
- Police Vehicle with Visible Blue Light

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

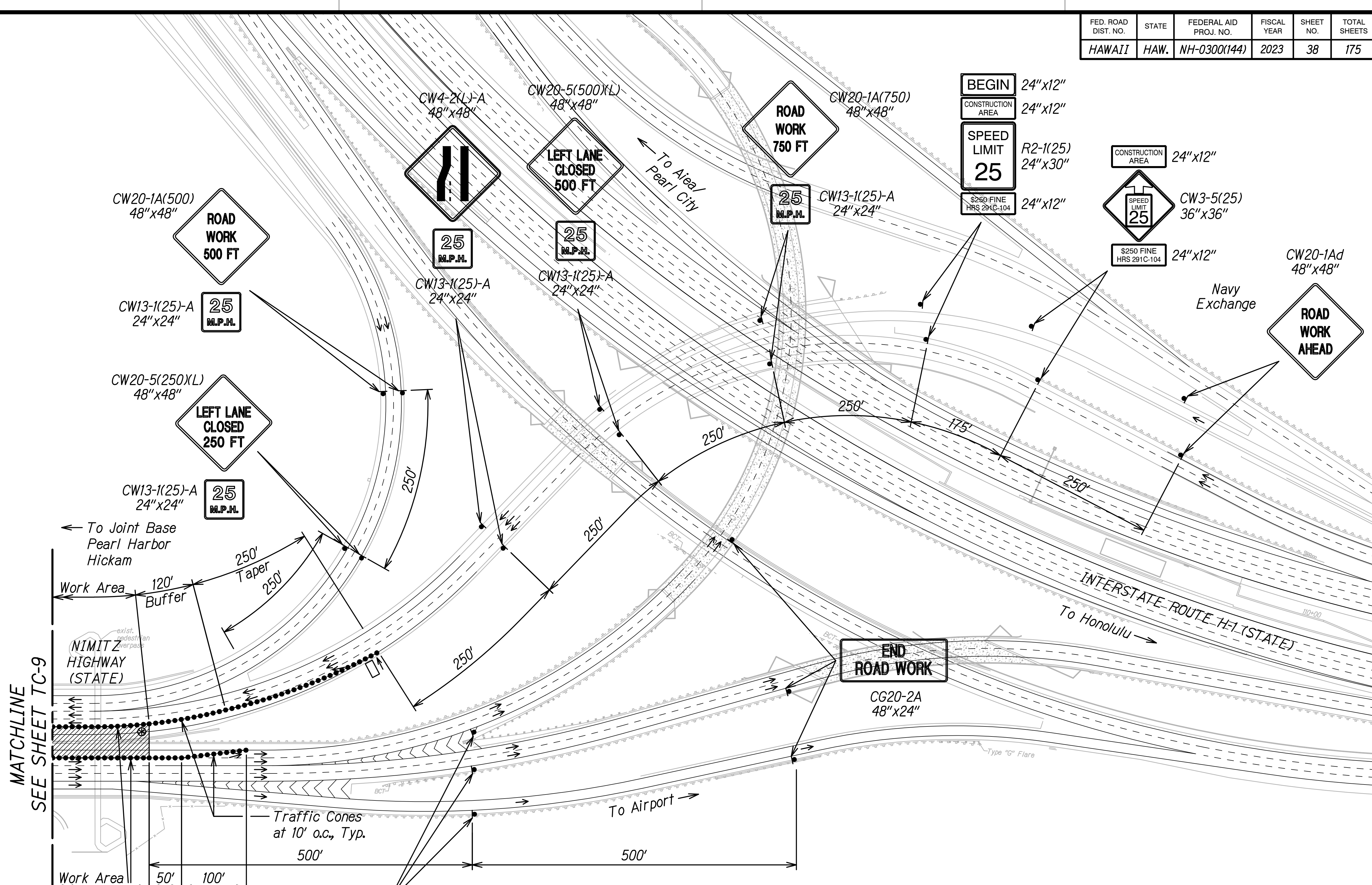
TRAFFIC CONTROL PLAN
PHASE 1B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	38	175

TRUE NORTH
SCALE: 1" = 80'



MATCHLINE
SEE SHEET TC-9

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

END 24"x12"
CONSTRUCTION AREA 24"x12"
SPEED LIMIT 35 R2-1(35) 24"x30"

- Legend:**
- Work Area
 - Traffic Cones
 - Direction of Traffic
 - Sign
 - Police Vehicle with Visible Blue Light
 - Flashing Arrow Signal

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Pamela K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

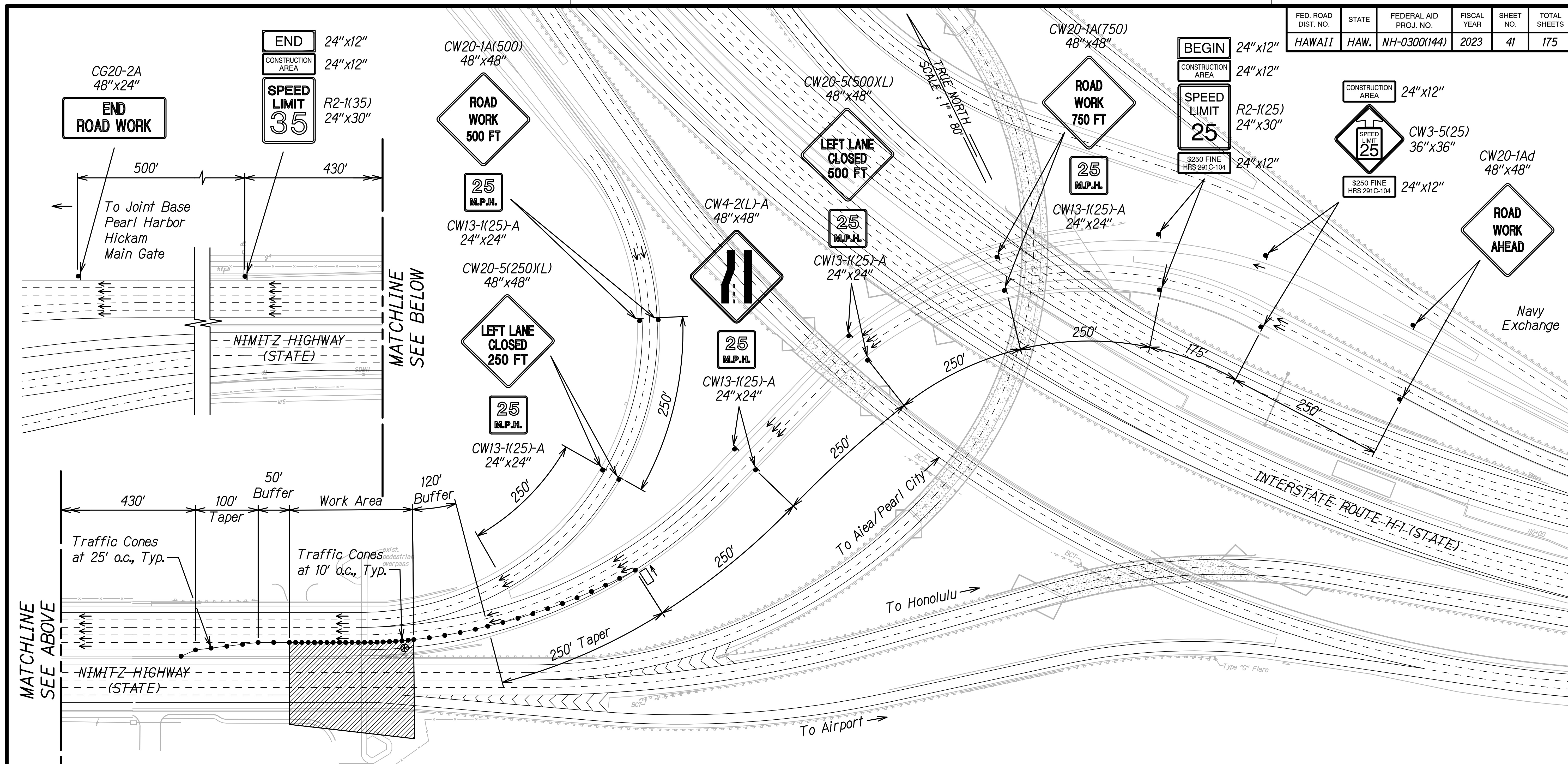
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 1B

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	41	175



CG20-2A
48"x24"
END ROAD WORK

END 24"x12"
CONSTRUCTION AREA 24"x12"
SPEED LIMIT 35 R2-1(35) 24"x30"

BEGIN 24"x12"
CONSTRUCTION AREA 24"x12"
SPEED LIMIT 25 R2-1(25) 24"x30"
\$250 FINE HRS 291C-104 24"x12"

CONSTRUCTION AREA 24"x12"
SPEED LIMIT 25 CW3-5(25) 36"x36"
\$250 FINE HRS 291C-104 24"x12"

MATCHLINE
SEE ABOVE

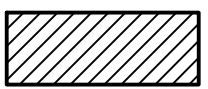





MATCHLINE
SEE BELOW

430' Taper 100' 50' Buffer Work Area 120' Buffer

Traffic Cones at 25' o.c., Typ.

Traffic Cones at 10' o.c., Typ.

Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Flashing Arrow Signal
-  Direction of Traffic
-  Police Vehicle with Visible Blue Light

NOTE:
Closure of the outbound lanes at Nimitz and O'Malley Gates are not shown, but are required for this traffic control phase. JBPHH personnel will close the gates for the Contractor. The Contractor shall coordinate with JBPHH personnel listed on Sheet P-1 a minimum of six (6) weeks prior to planned lane closures.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: *Pamela K. Uyeda* 04/30/24
EXPIRATION DATE OF LICENSE

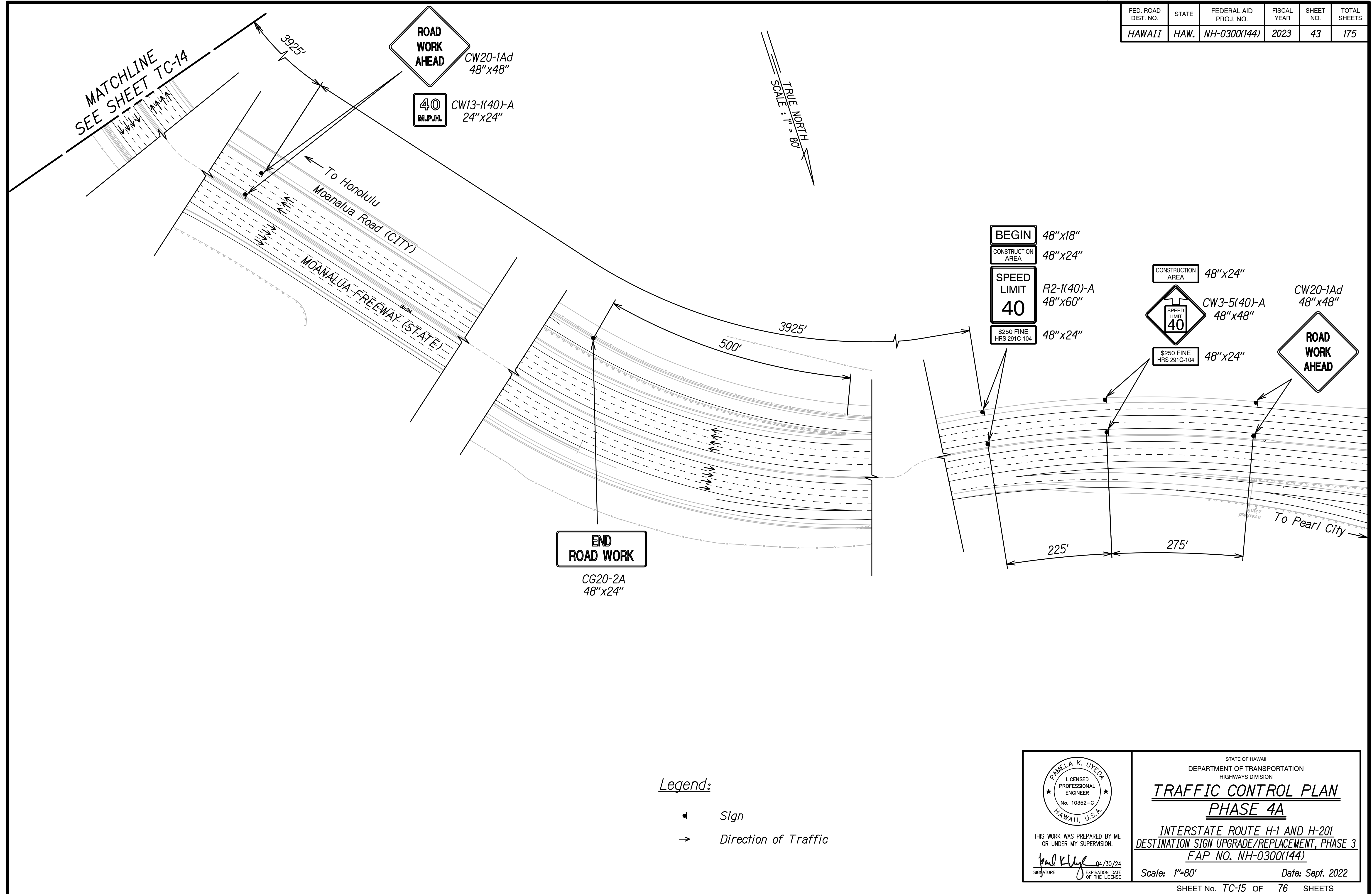
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE 1D**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	43	175



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

Legend:

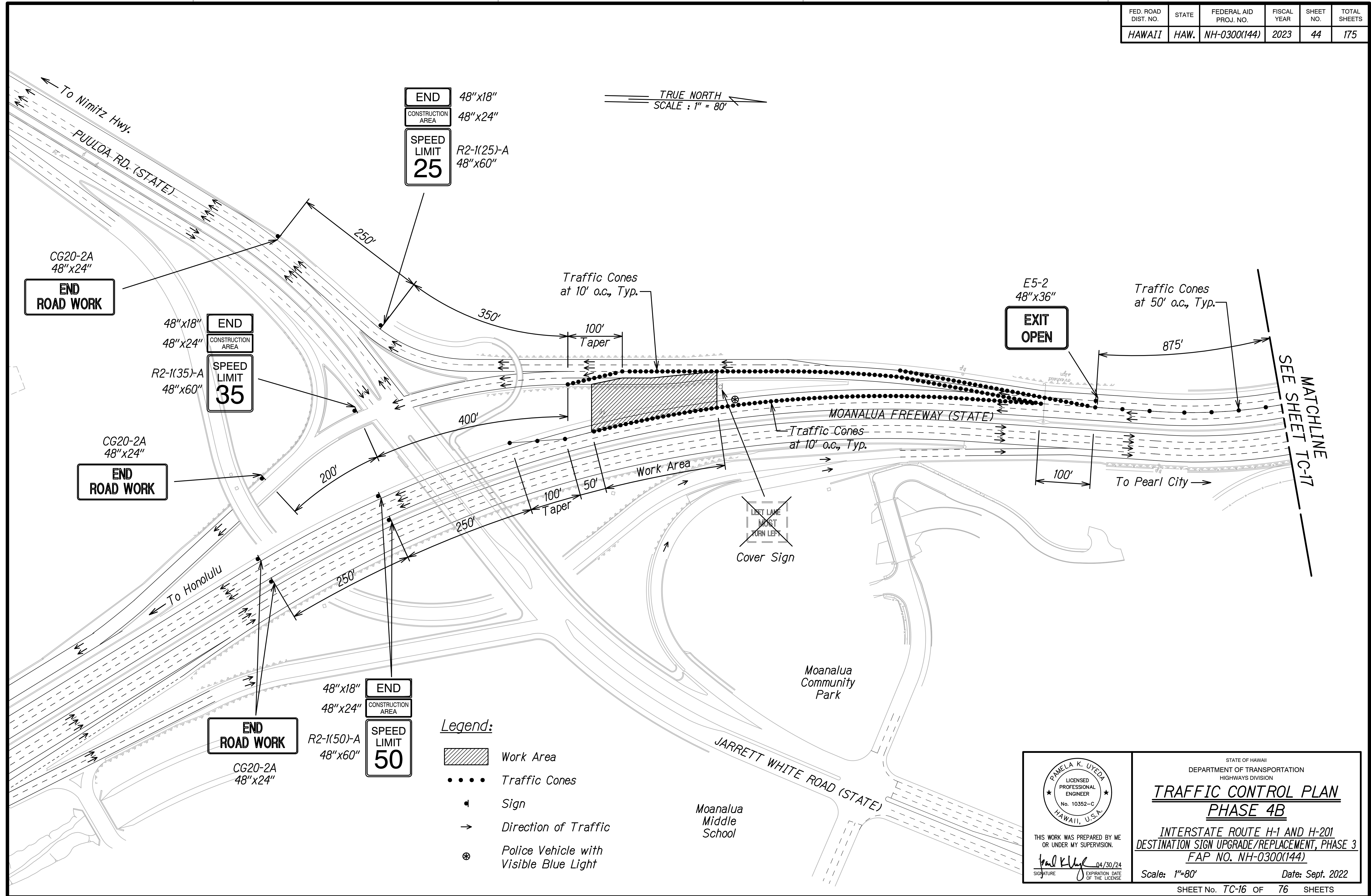
- ◀ Sign
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 4A
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

SHEET No. TC-15 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	44	175



TRUE NORTH
SCALE : 1" = 80'

END 48"x18"
CONSTRUCTION AREA 48"x24"
SPEED LIMIT 25 R2-1(25)-A 48"x60"

CG20-2A 48"x24"
END ROAD WORK

48"x18"
48"x24"
R2-1(35)-A 48"x60"
END CONSTRUCTION AREA
SPEED LIMIT 35

CG20-2A 48"x24"
END ROAD WORK

48"x18"
48"x24"
R2-1(50)-A 48"x60"
END CONSTRUCTION AREA
SPEED LIMIT 50
CG20-2A 48"x24"
END ROAD WORK

Legend:

- Work Area
- Traffic Cones
- Sign
- Direction of Traffic
- Police Vehicle with Visible Blue Light

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: *P. Uyeda* 04/30/24
EXPIRATION DATE OF THE LICENSE

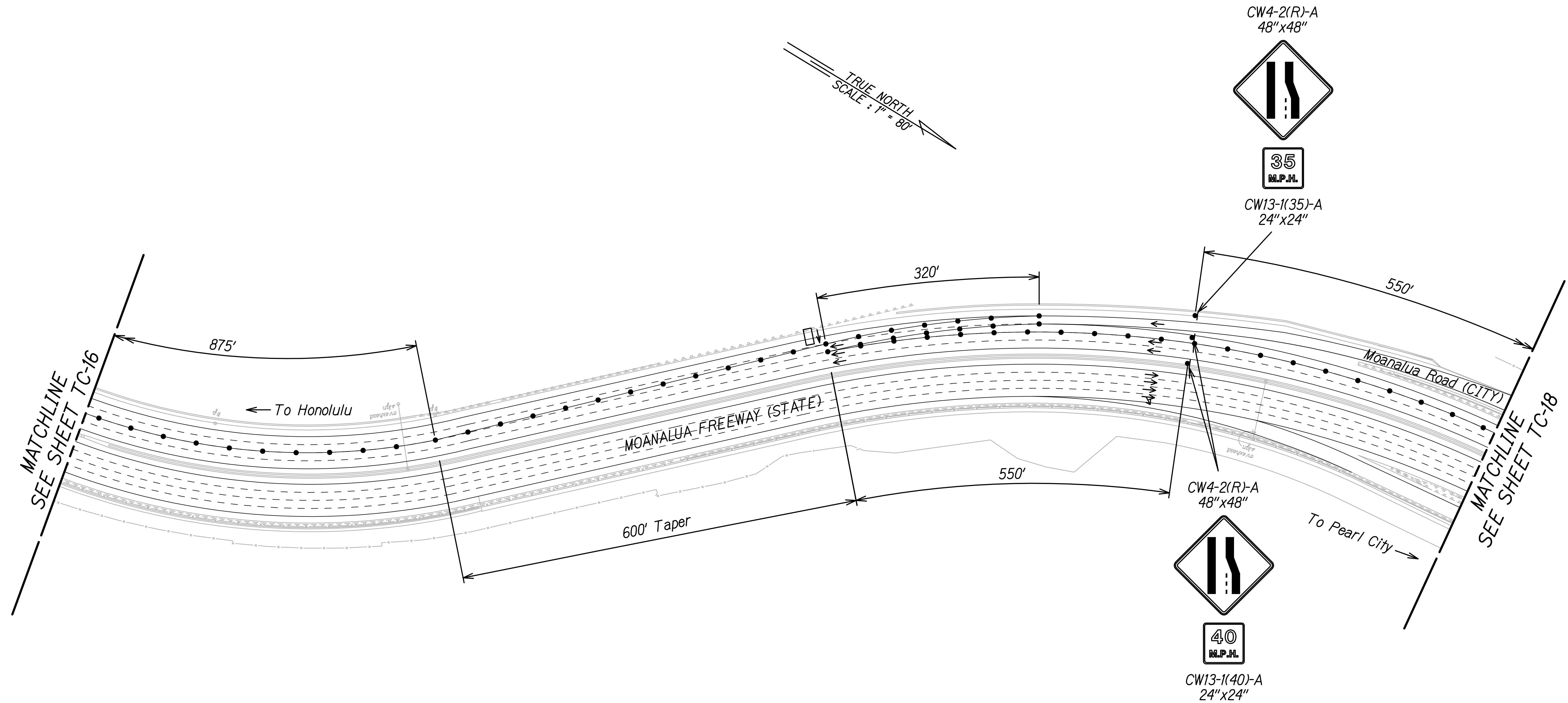
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 4B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	45	175



TRUE NORTH
SCALE: 1" = 80'

MATCHLINE
SEE SHEET TC-16

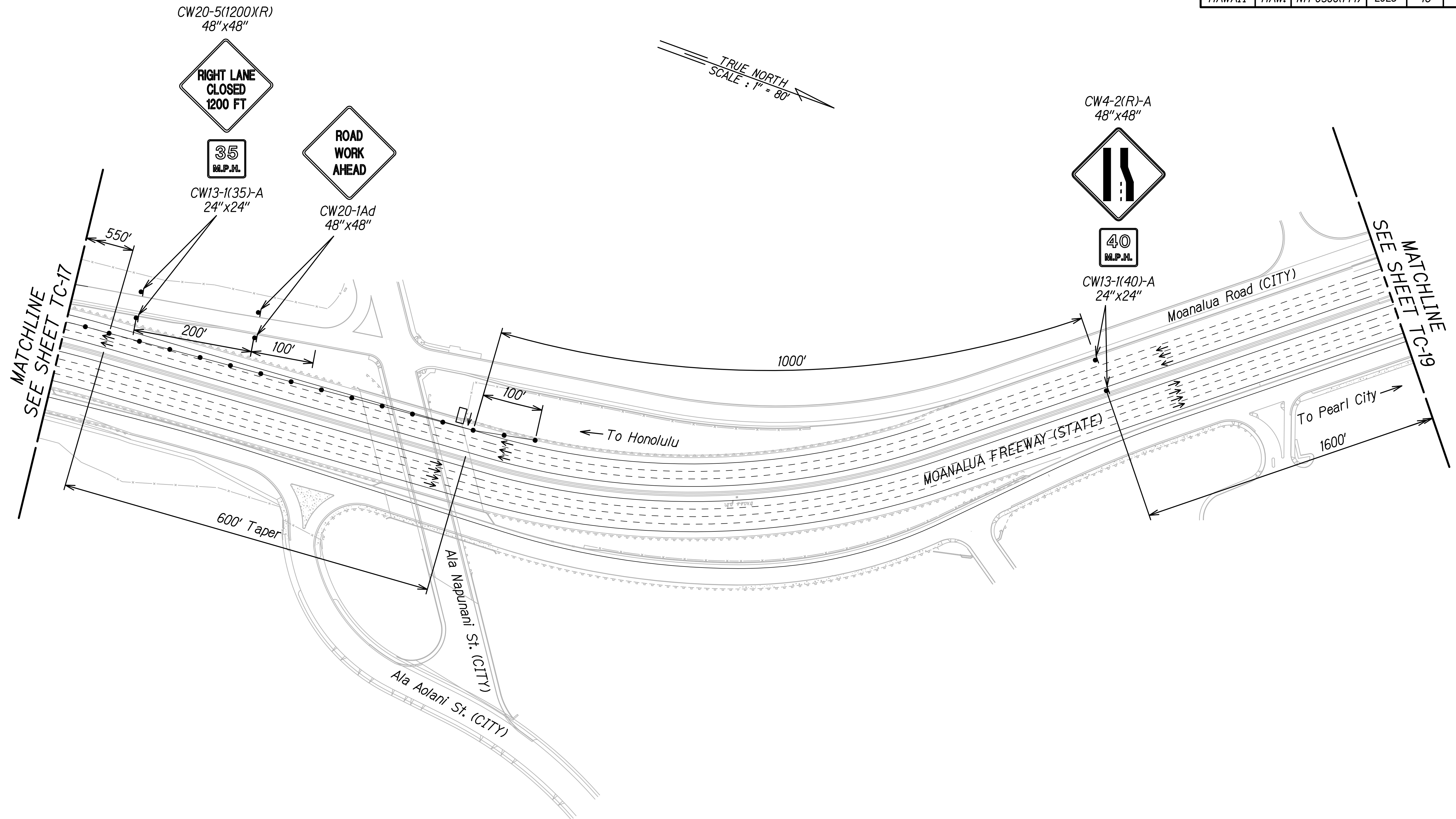
MATCHLINE
SEE SHEET TC-18

Legend:
 ◄ Sign
 → Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 4B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	Scale: 1"=80' Date: Sept. 2022
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	SHEET No. TC-17 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	46	175



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

Legend:

- ◄ Sign
- Direction of Traffic

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 4B

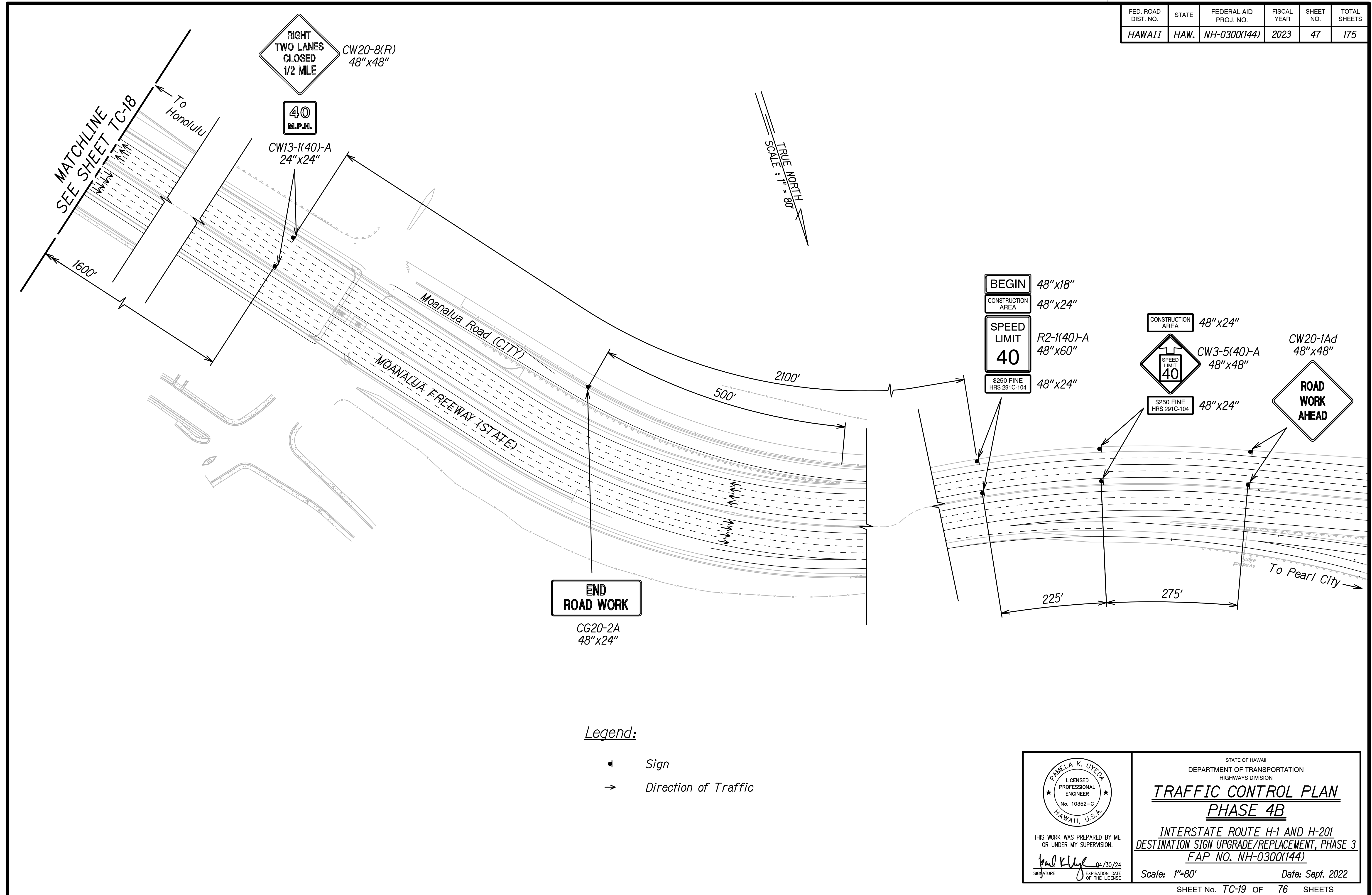
INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Paul K. King* 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	47	175



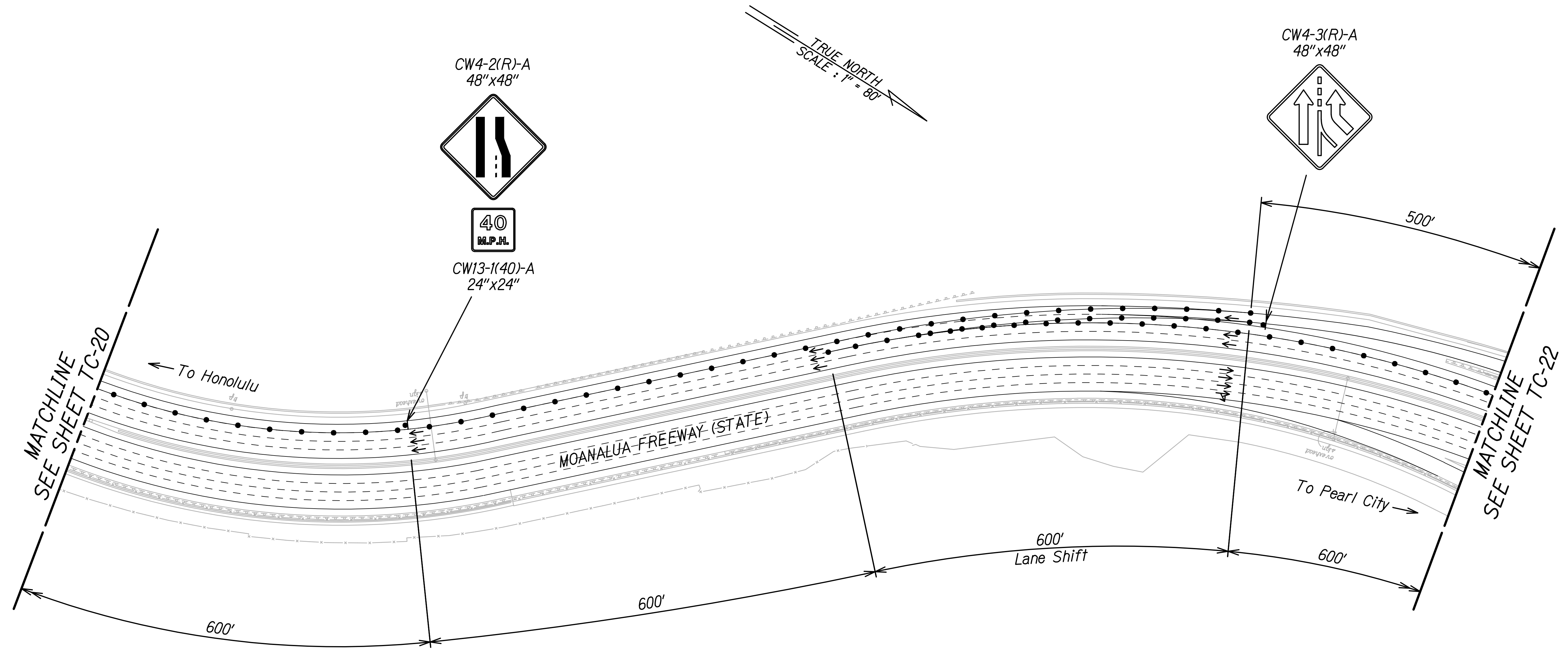
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

Legend:

- ◄ Sign
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 4B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Pamela K. Uyeda</i> 04/30/24 <small>SIGNATURE EXPIRATION DATE OF THE LICENSE</small>	Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	49	175



Legend:

- Traffic Cones
- ◄ Sign
- Direction of Traffic

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

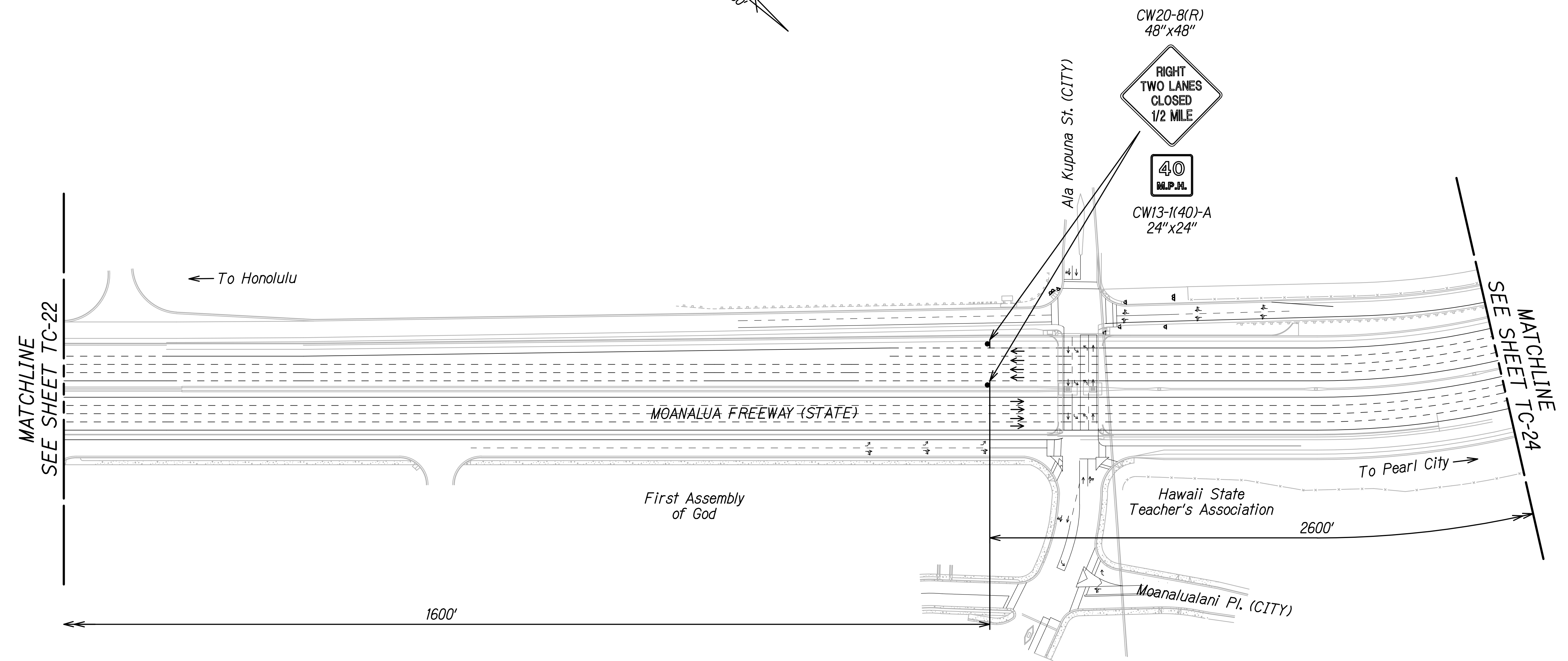
TRAFFIC CONTROL PLAN
PHASE 4C

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	51	175

TRUE NORTH
SCALE: 1" = 80'



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

Legend:
 ◄ Sign
 → Direction of Traffic

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

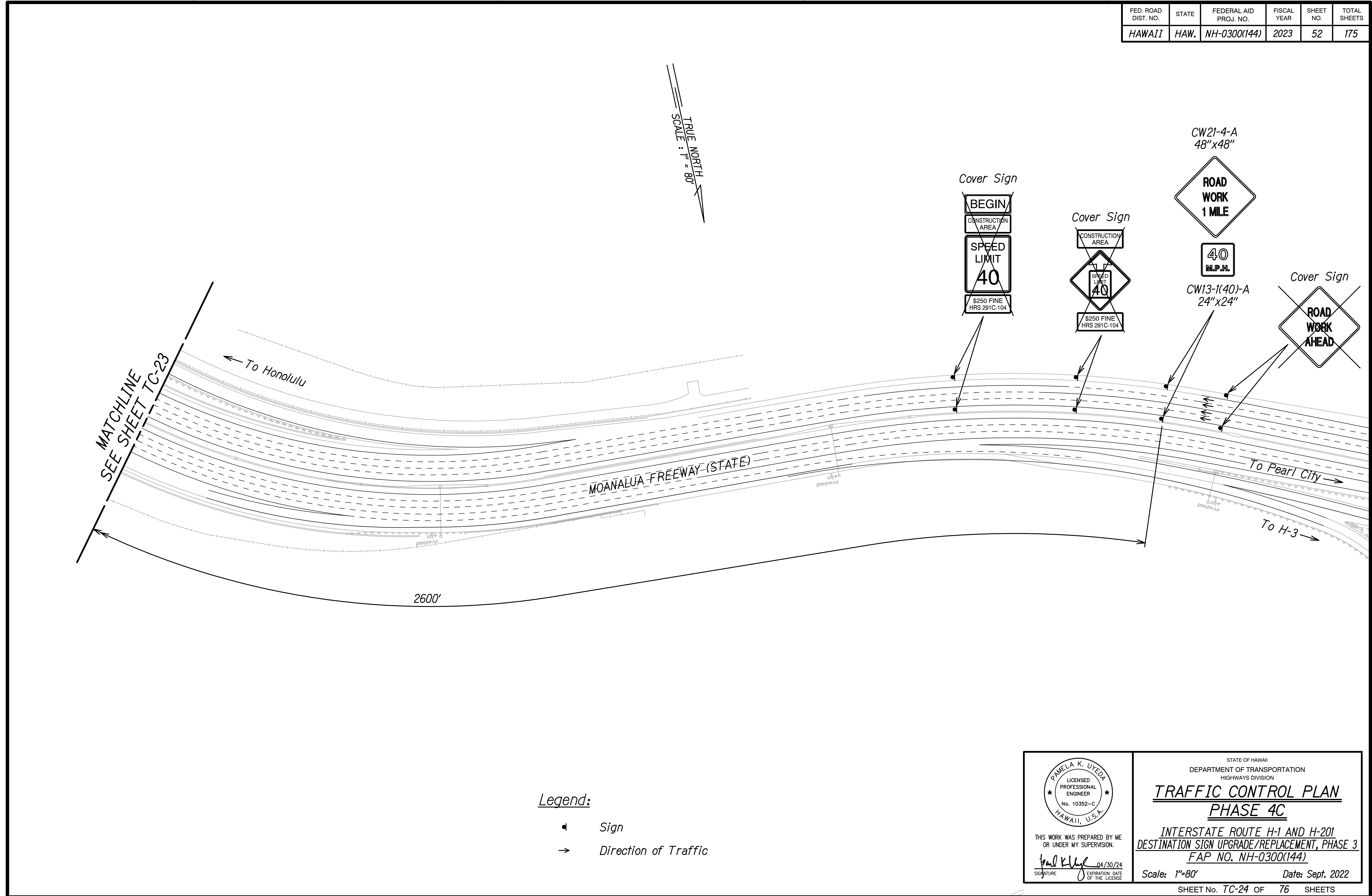
TRAFFIC CONTROL PLAN
PHASE 4C

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Paul K. King* Expiration Date of License: 04/30/24

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	52	175



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

Legend:

- ◄ Sign
- Direction of Traffic

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 4C

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

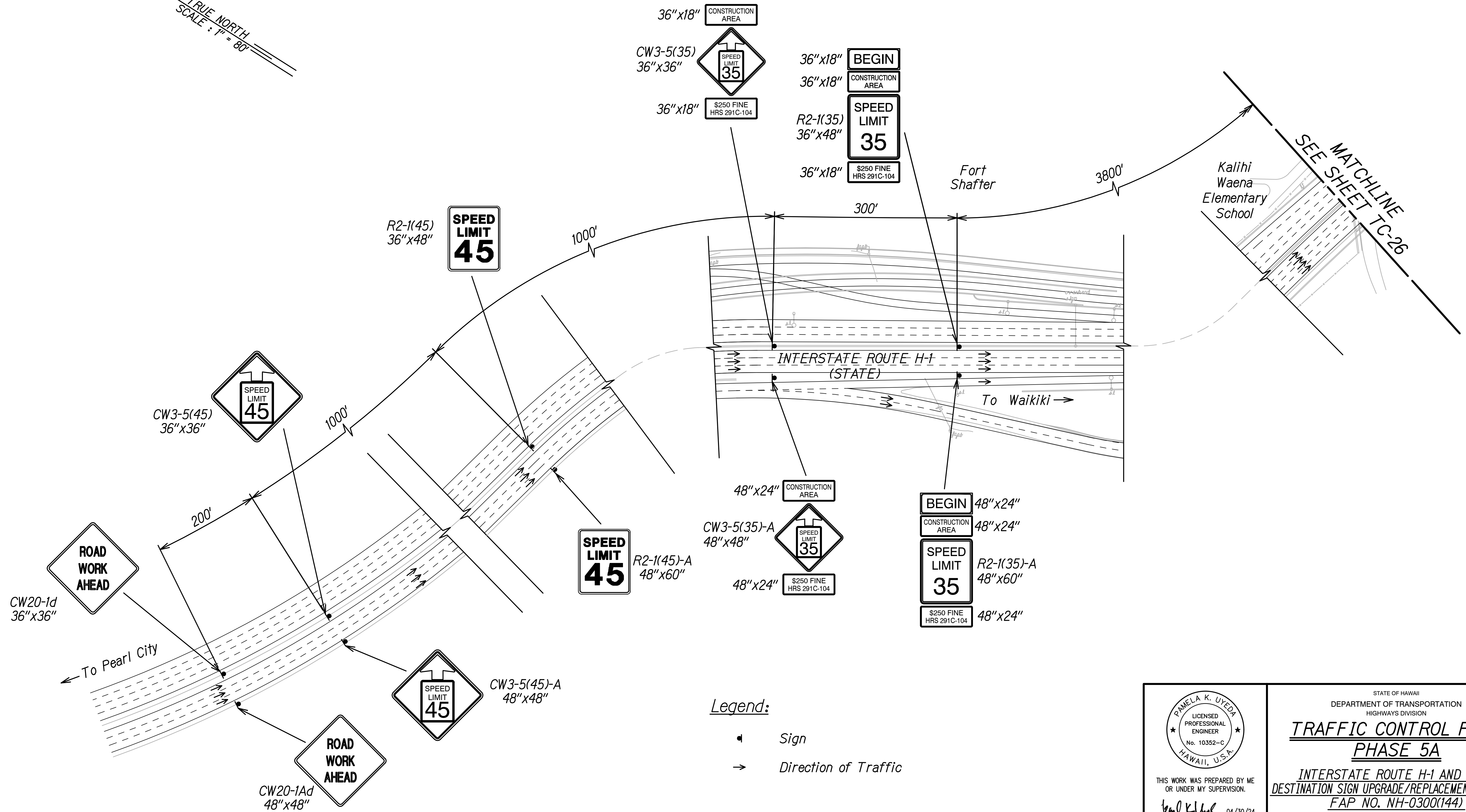
Scale: 1"=80' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Paul K. Uyeda* 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	53	175

TRUE NORTH
SCALE: 1" = 80'



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

Legend:

- ◄ Sign
- Direction of Traffic

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Paul K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

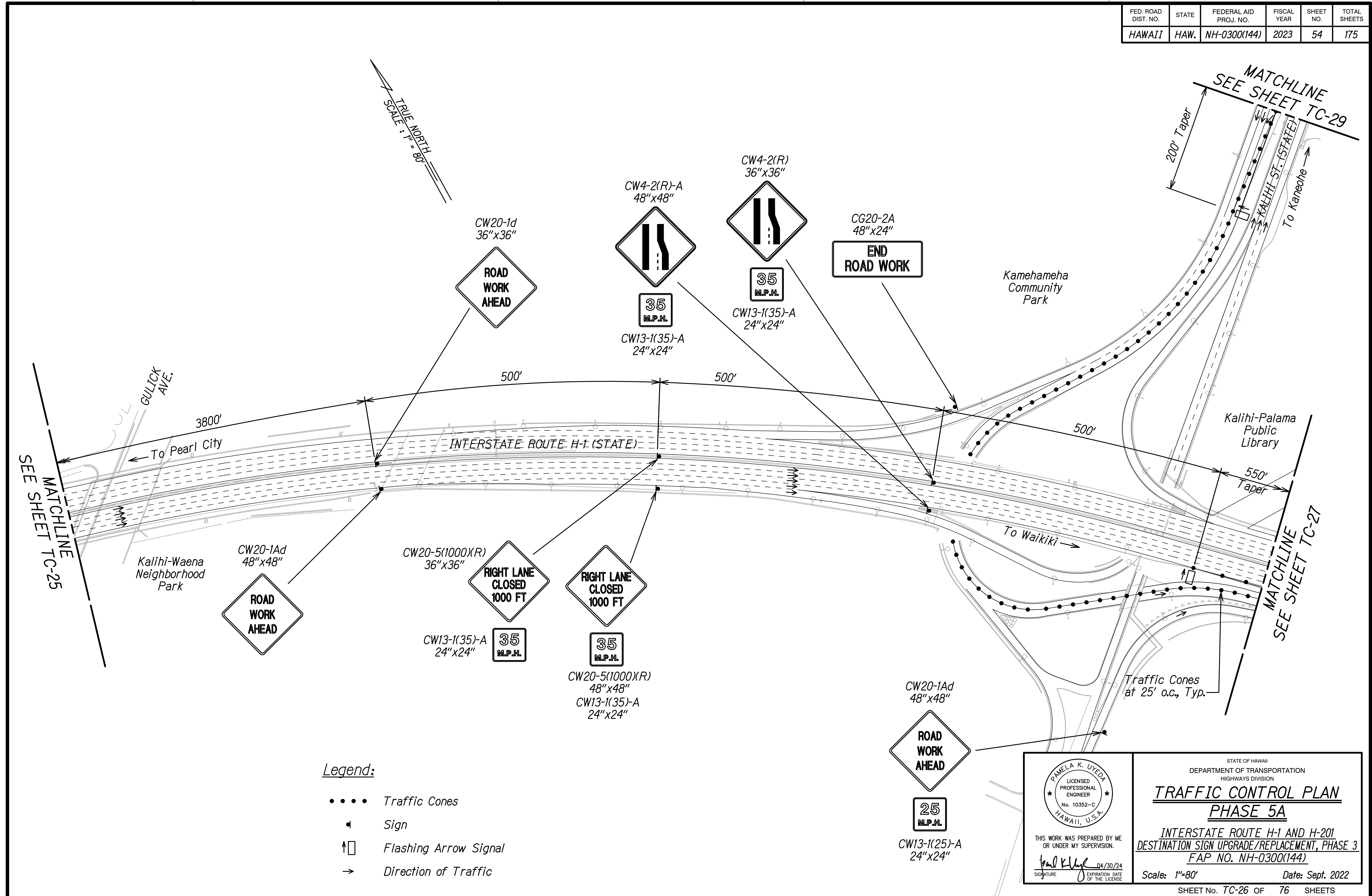
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE 5A**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	54	175



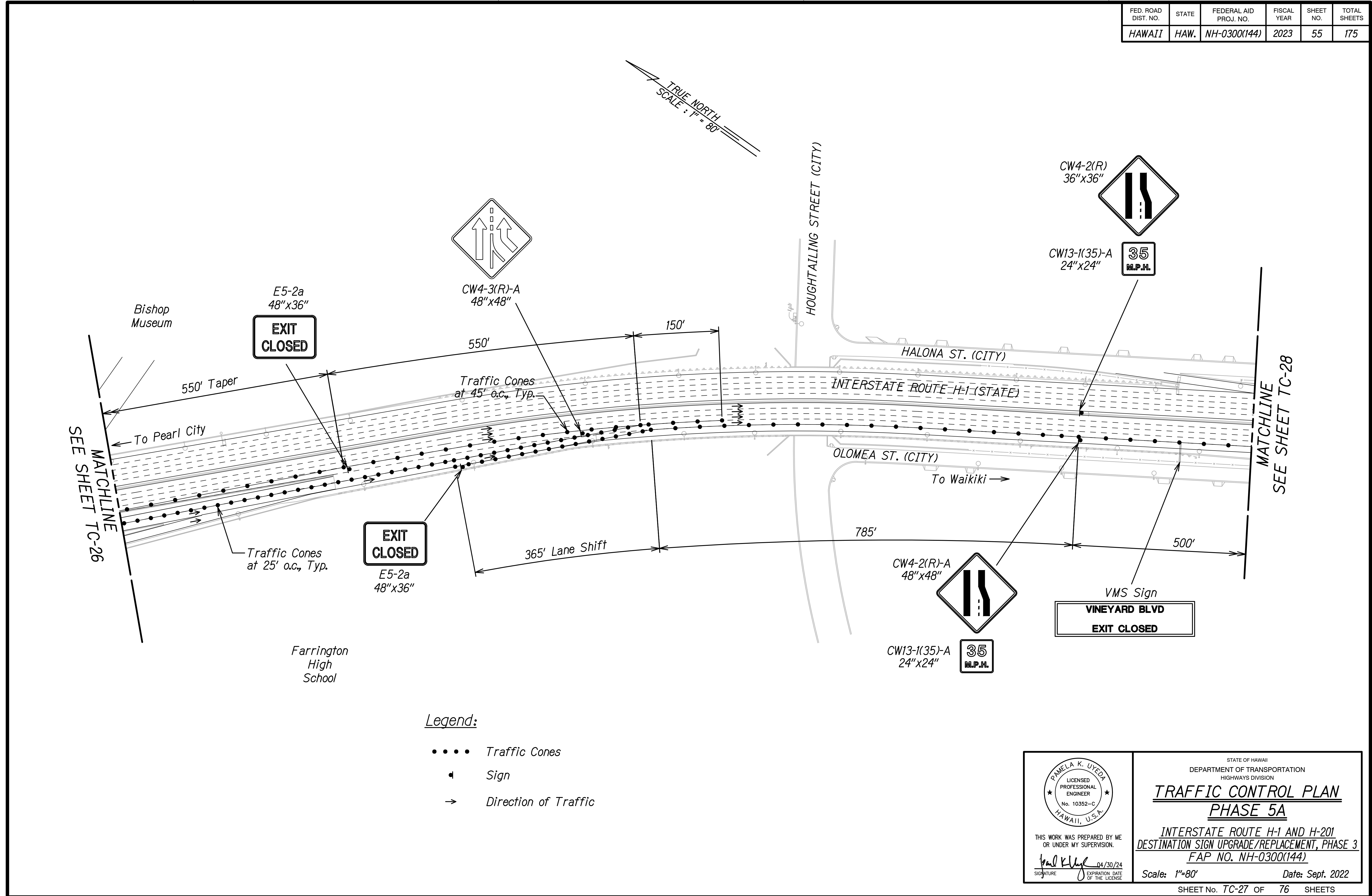
DATE	.....
SURVEY PLOTTED BY	.....
ORIGINAL PLAN DRAWN BY	.....
NOTE BOOK DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
No.	.....

Legend:

- Traffic Cones
- ◀ Sign
- ⬆ Flashing Arrow Signal
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN PHASE 5A INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
Scale: 1"=80'	Date: Sept. 2022
SHEET No. TC-26 OF 76 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	55	175



TRUE NORTH
SCALE: 1" = 80'

SEE SHEET TC-26
MATCHLINE

MATCHLINE
SEE SHEET TC-28

Legend:

- Traffic Cones
- ◀ Sign
- Direction of Traffic

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

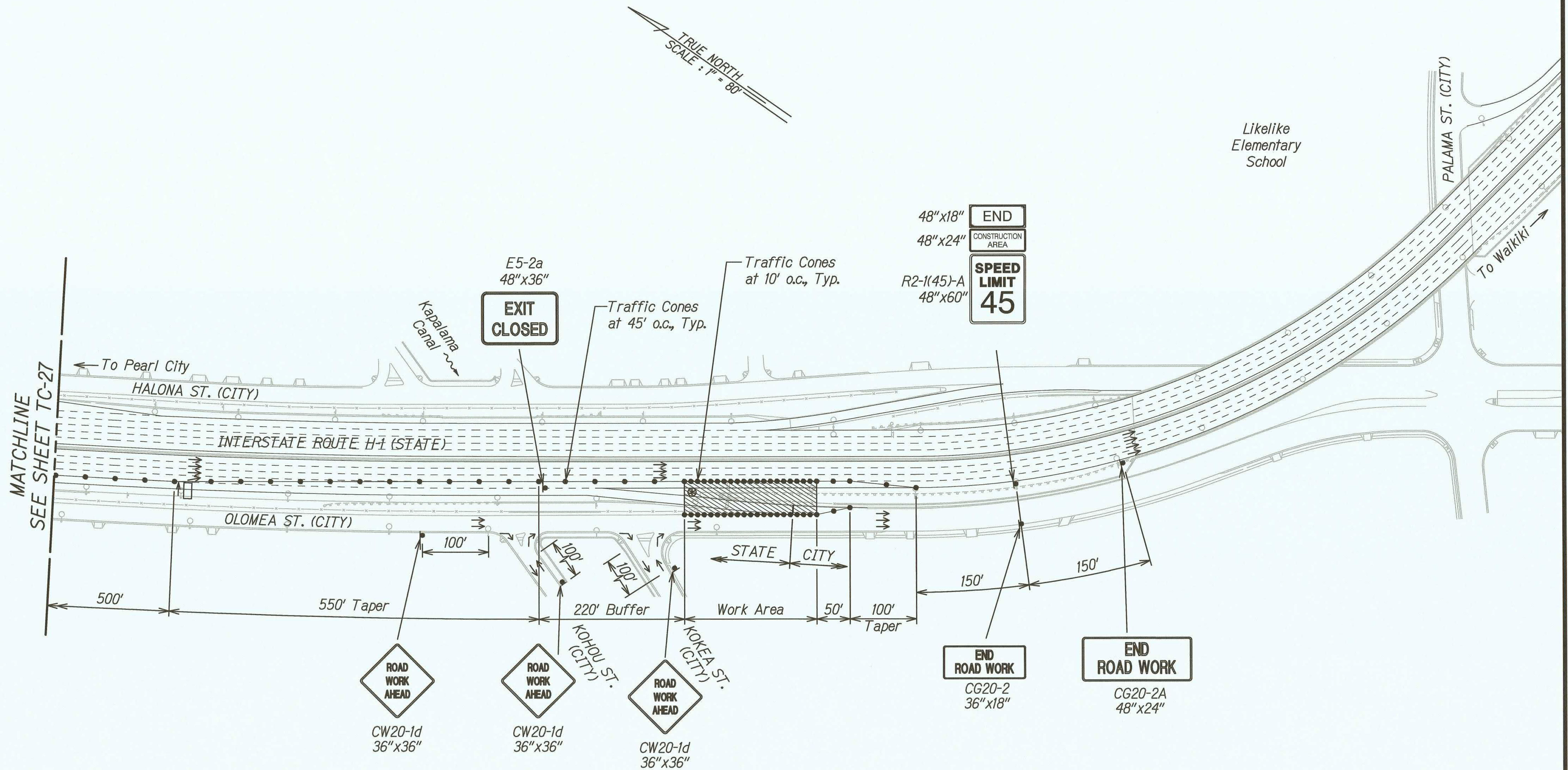
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 5A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	56	175



Legend:

- Work Area
- Traffic Cones
- Sign
- Flashing Arrow Signal
- Direction of Traffic
- Police Vehicle with Visible Blue Light

NOTE:
State & City jurisdiction line applies to the off-ramp only.

APPROVED:

[Signature]
TRAFFIC REVIEW BRANCH, DPP *VA*
(FOR WORK WITHIN CITY R-O-W) 10/31/22
DATE

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature] 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

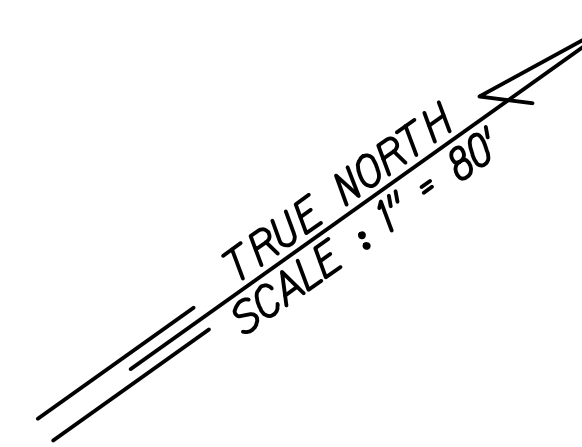
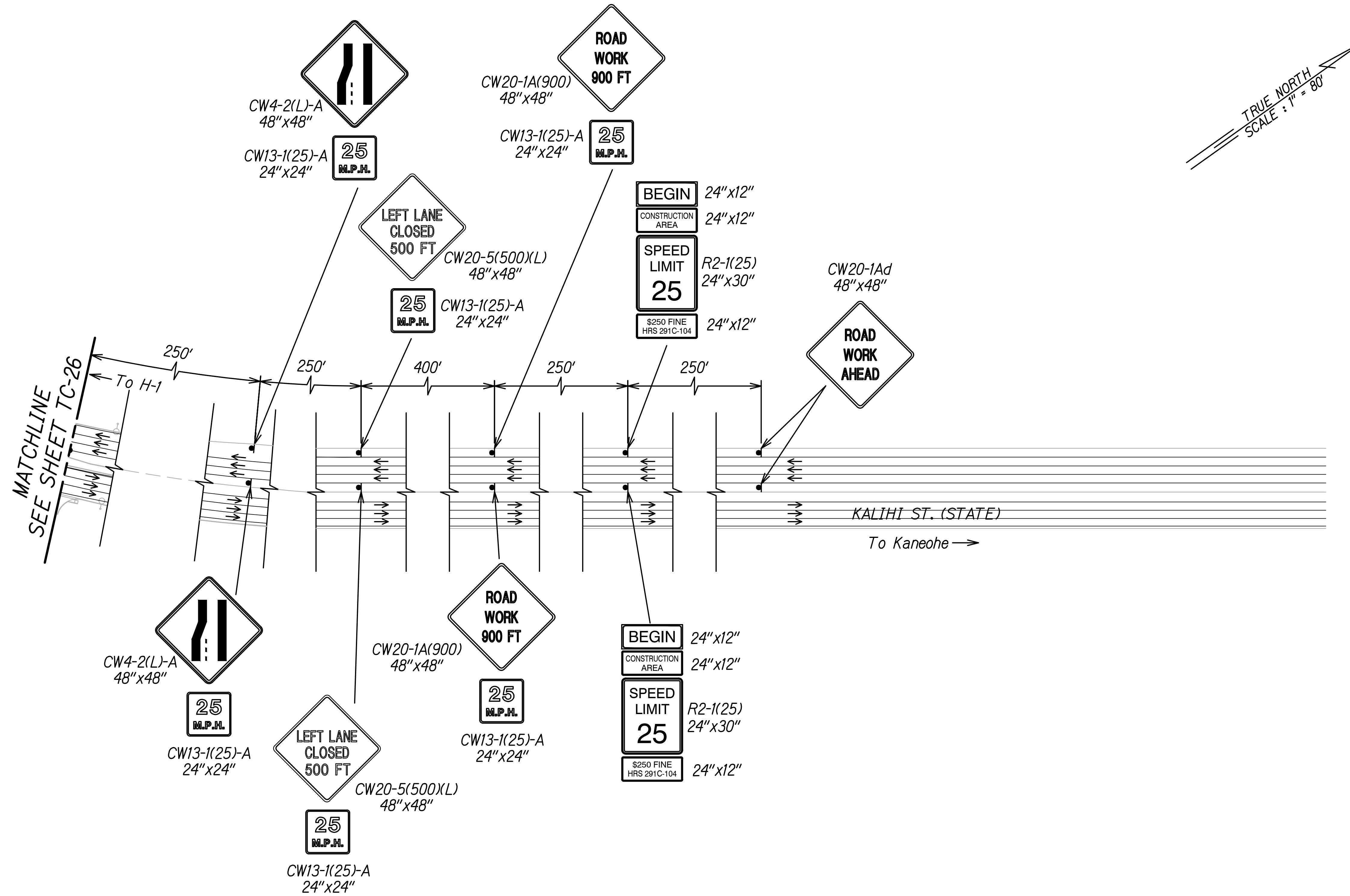
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 5A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	57	175



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

Legend:

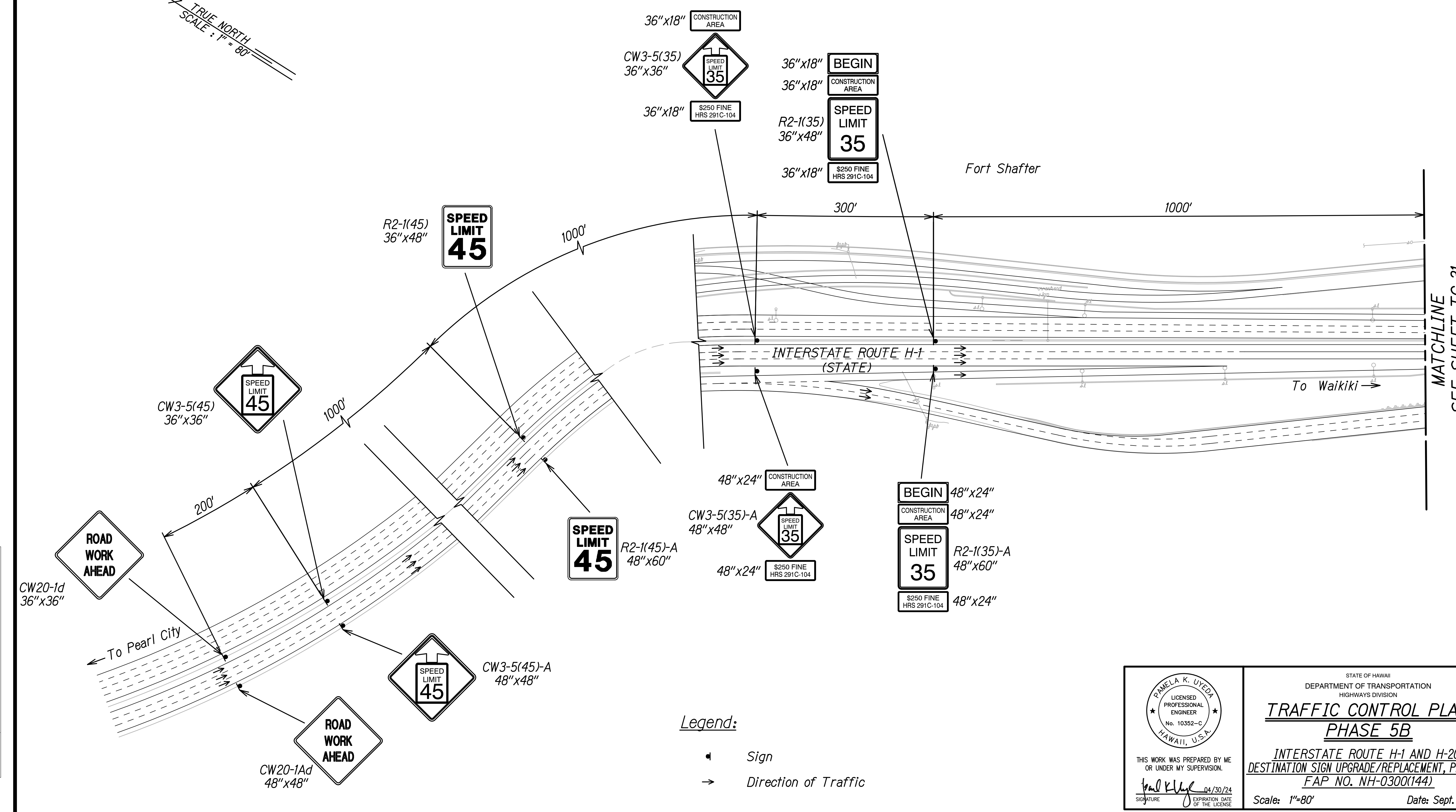
- ◀ Sign
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 5A
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	58	175

TRUE NORTH
SCALE: 1" = 80'



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

Legend:
 ◄ Sign
 → Direction of Traffic

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Pamela K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

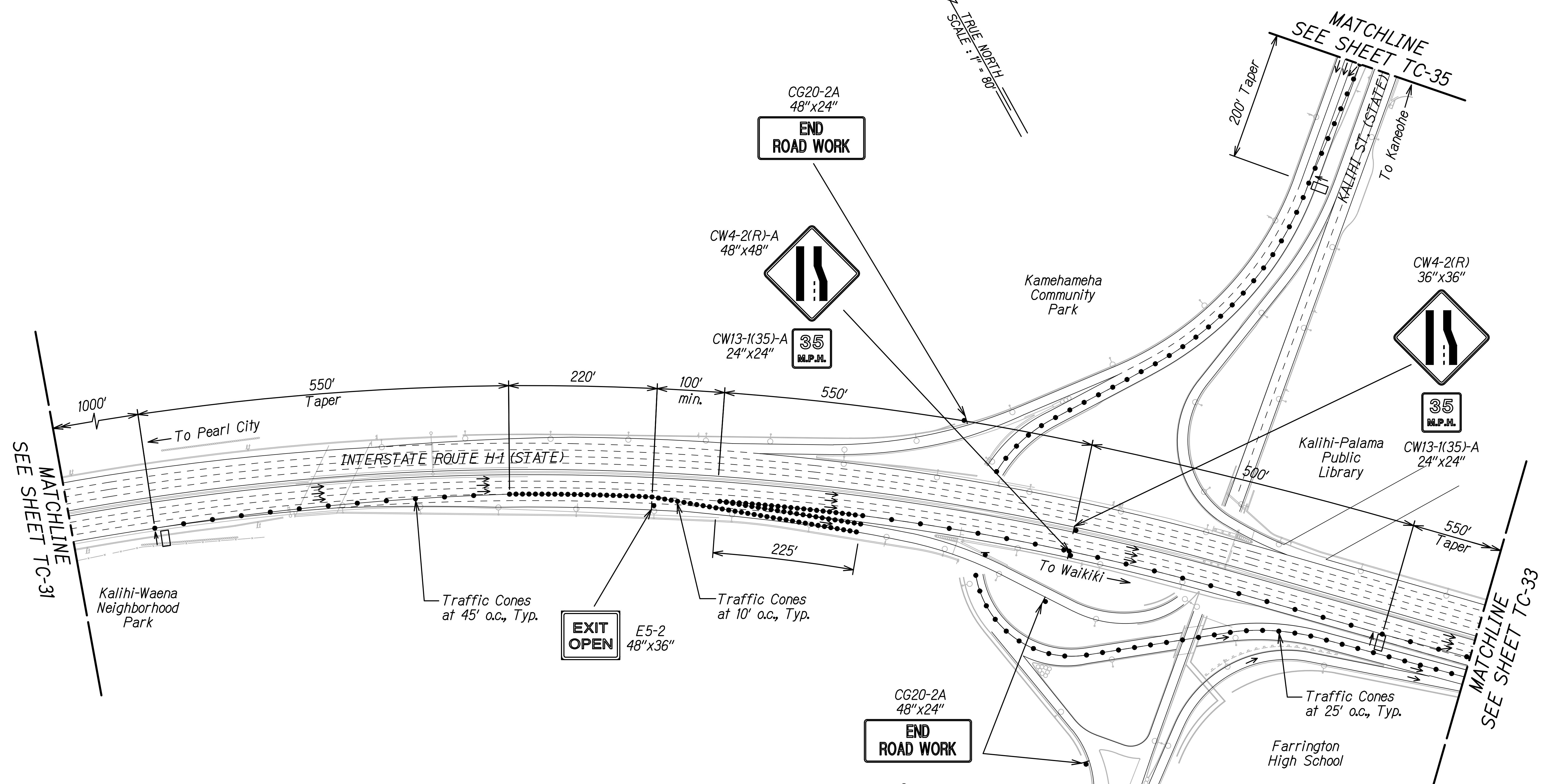
TRAFFIC CONTROL PLAN
PHASE 5B

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	60	175

TRUE NORTH
SCALE: 1" = 80'

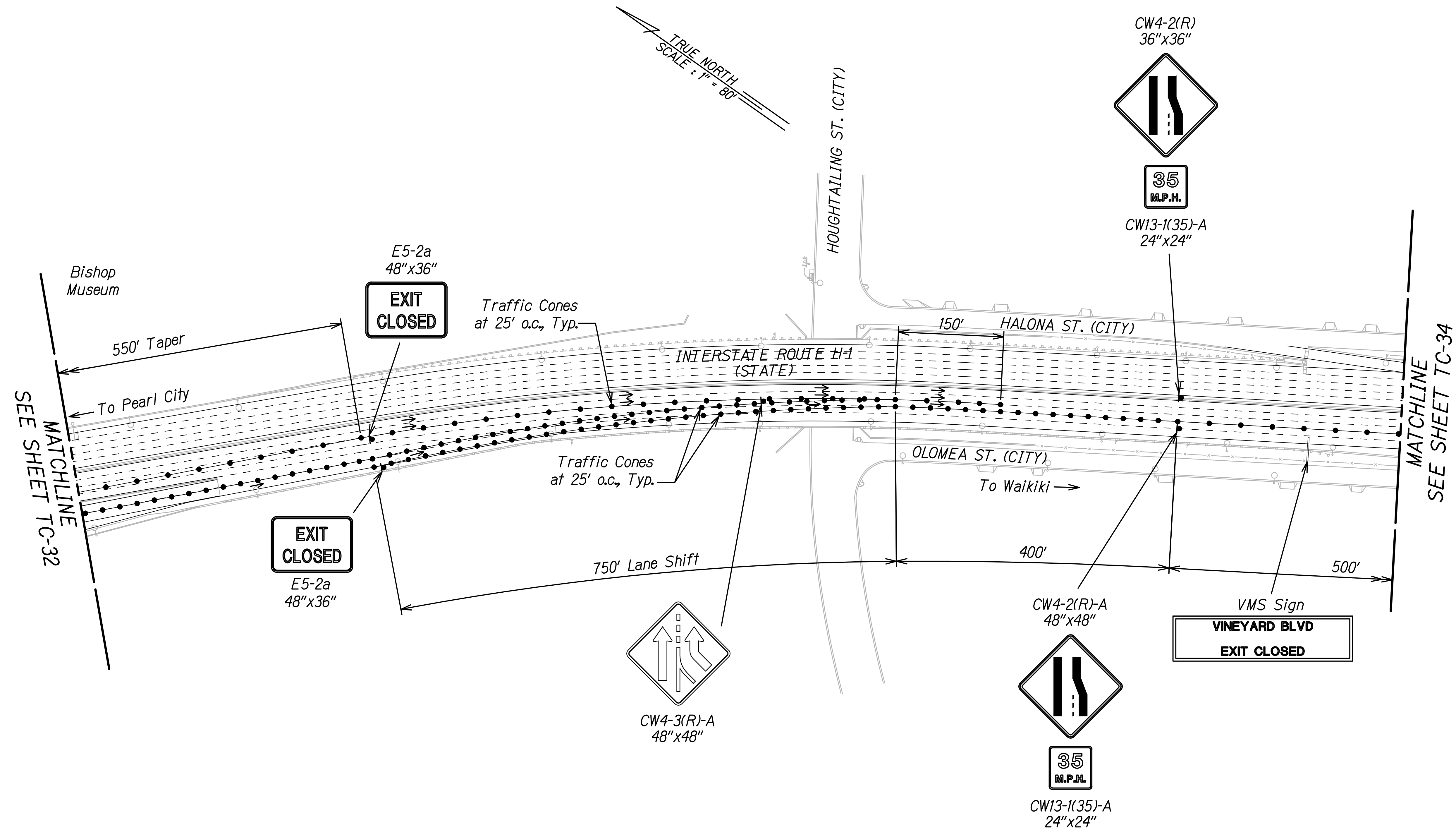


- Legend:**
- Traffic Cones
 - ◀ Sign
 - ⬆ Flashing Arrow Signal
 - Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN PHASE 5B INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Pamela K. Uyeda</i> 04/30/24 EXPIRATION DATE OF THE LICENSE
Scale: 1"=80'	Date: Sept. 2022
SHEET No. TC-32 OF 76 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	61	175



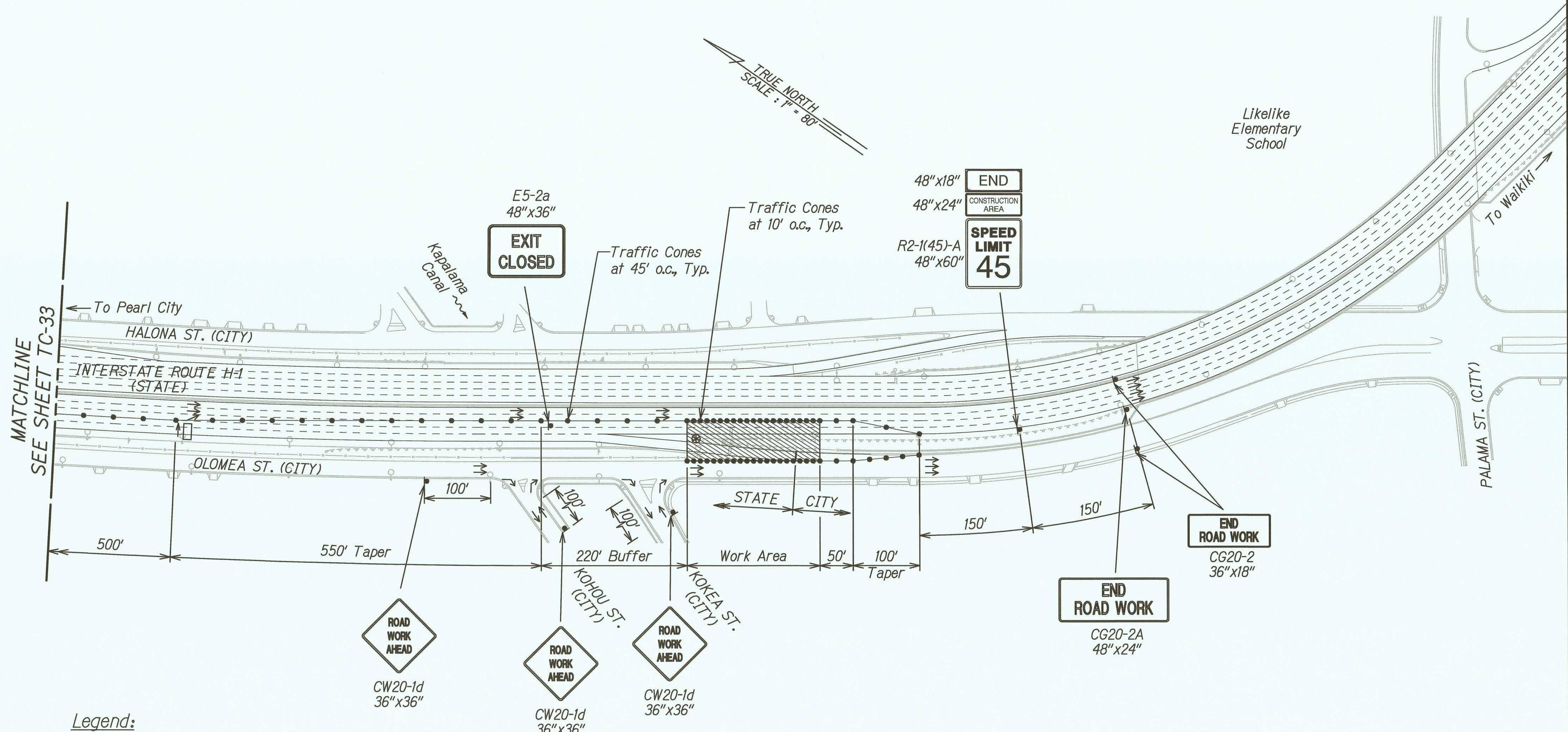
Legend:

- Traffic Cones
- ◀ Sign
- Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN PHASE 5B INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
	Scale: 1"=80' Date: Sept. 2022 SHEET No. TC-33 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	62	175



Legend:

- Work Area
- Traffic Cones
- Sign
- Flashing Arrow Signal
- Direction of Traffic
- Police Vehicle with Visible Blue Light

NOTE:
State & City jurisdiction line applies to the off-ramp only.

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

APPROVED: _____ DATE 10/31/22
 TRAFFIC REVIEW BRANCH, DPP (FOR WORK WITHIN CITY R-O-W)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 SIGNATURE: *Pamela K. Uyeda* EXPIRATION DATE OF THE LICENSE: 04/30/24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

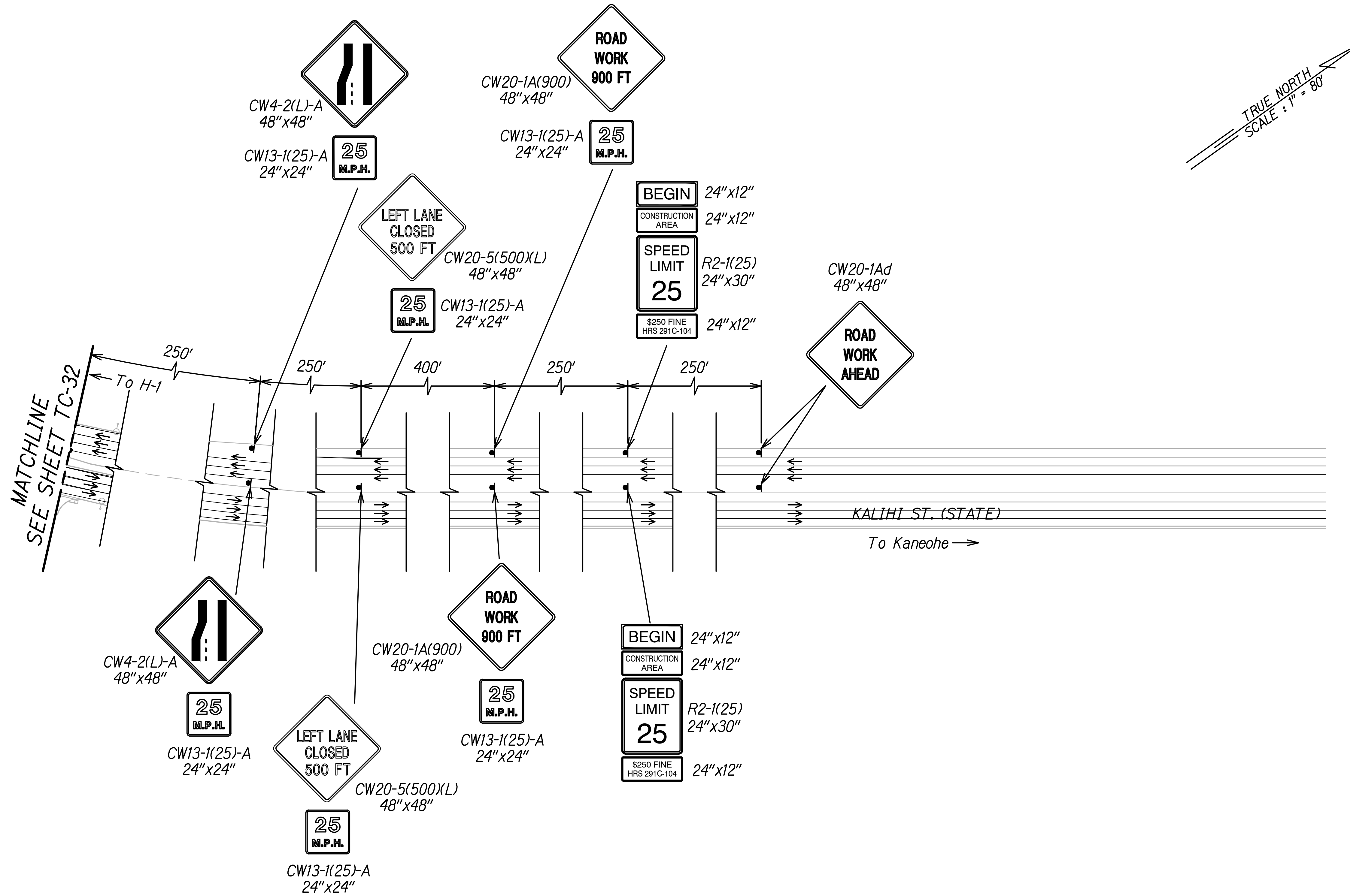
TRAFFIC CONTROL PLAN
PHASE 5B

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

SHEET No. TC-34 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	63	175



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

Legend:

- ◄ Sign
- Direction of Traffic

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

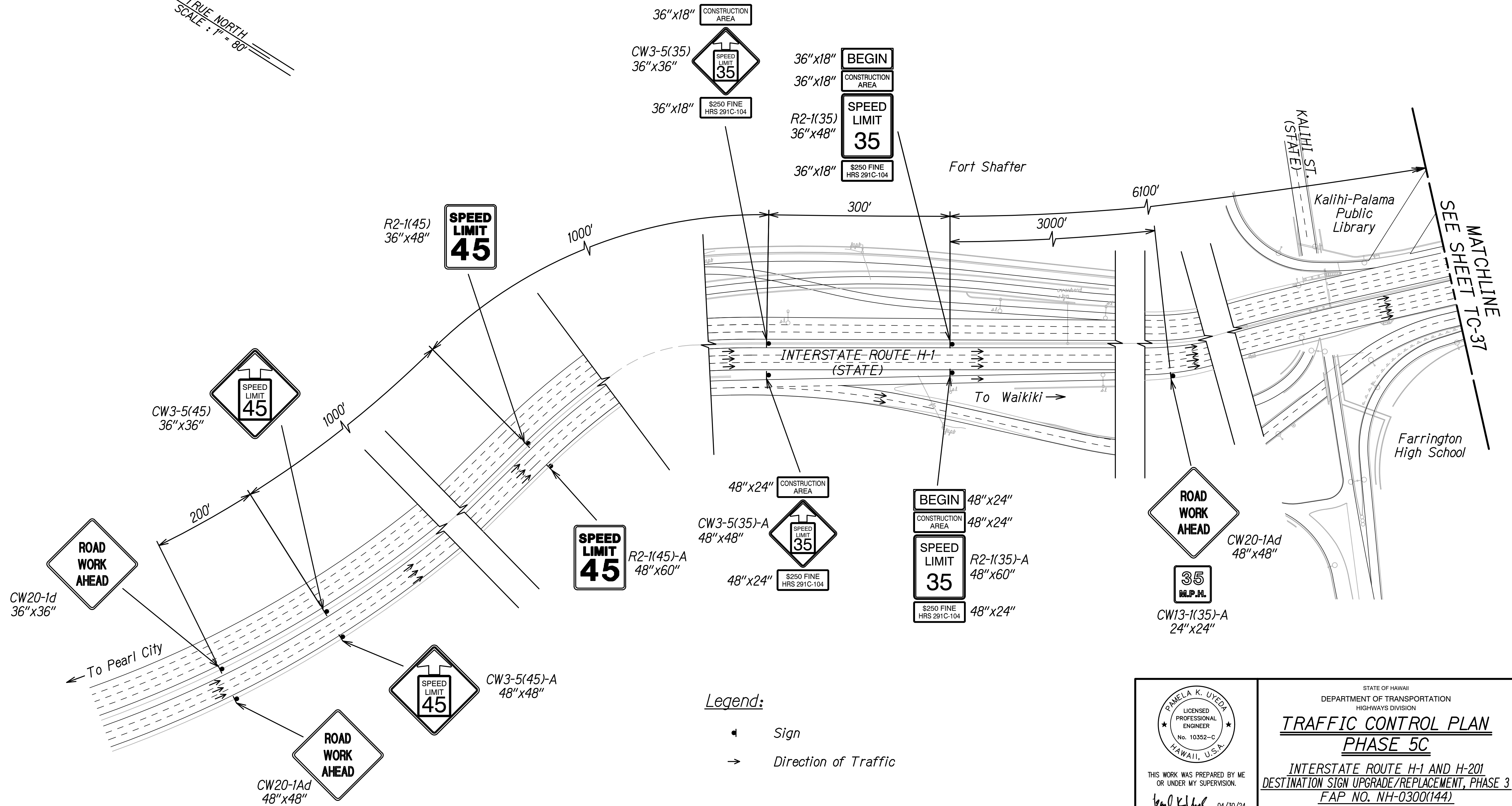
TRAFFIC CONTROL PLAN
PHASE 5B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	64	175

TRUE NORTH
SCALE: 1" = 80'



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

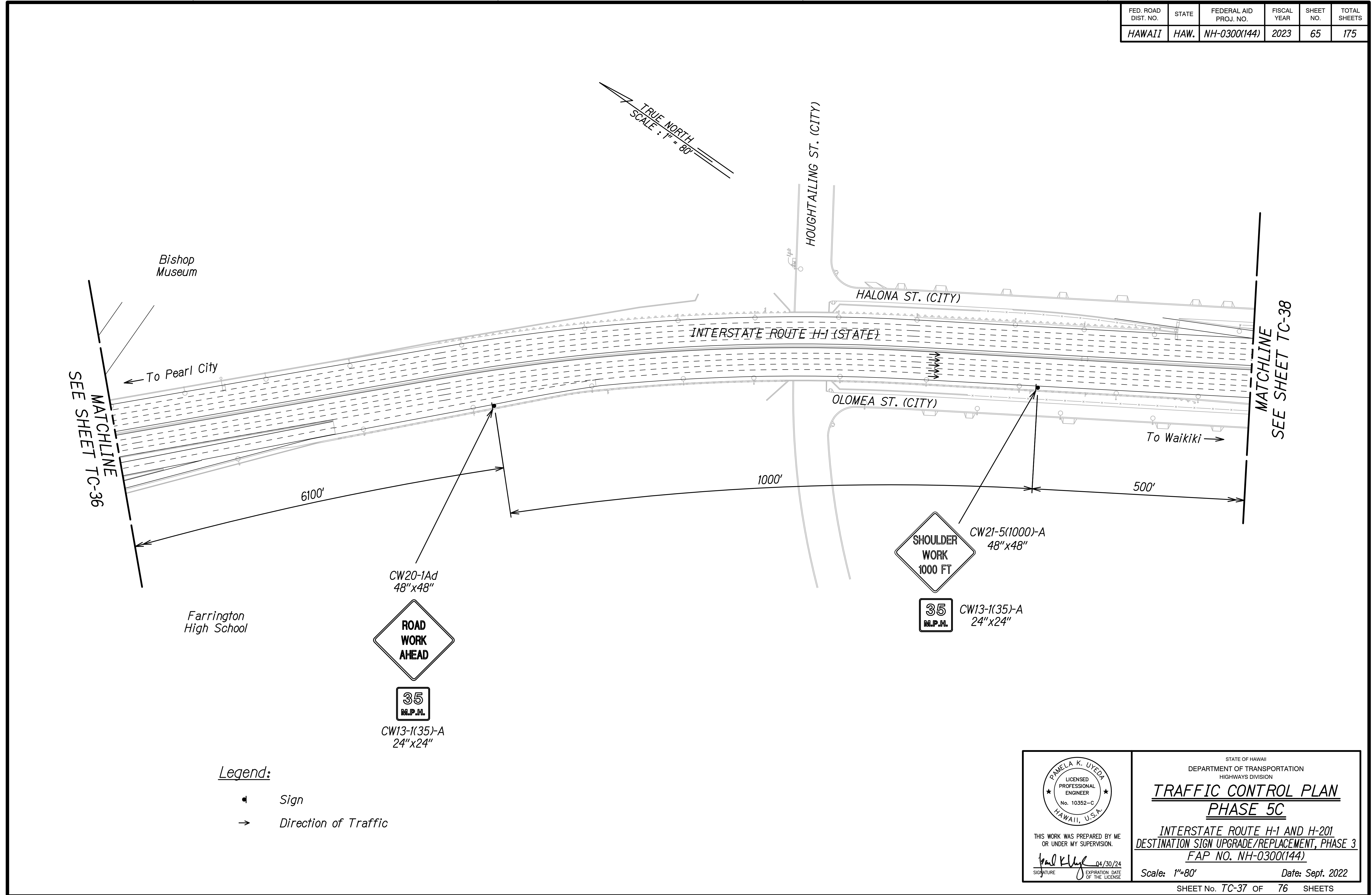
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 5C

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	65	175



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

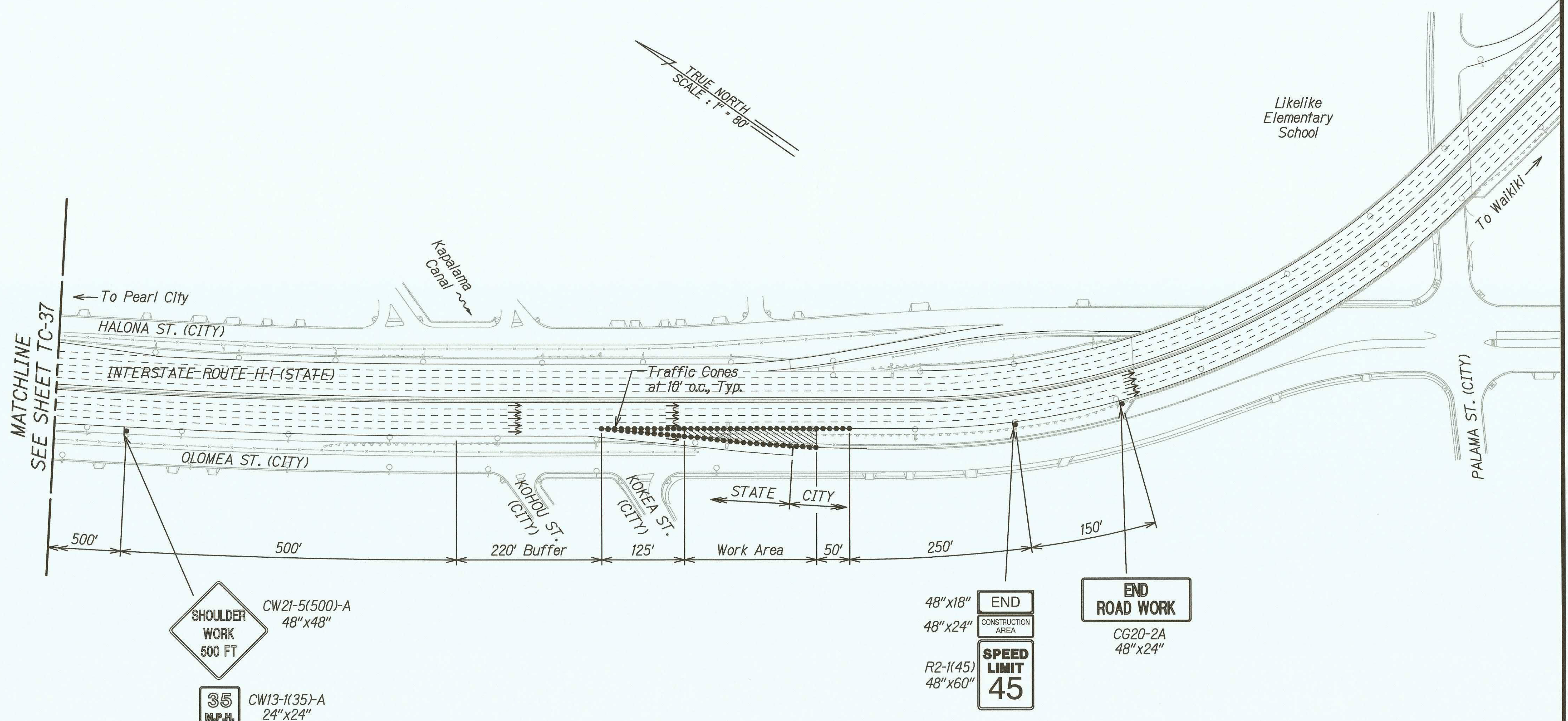
Legend:

- ◀ Sign
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 5C
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE





Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	66	175



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


Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Direction of Traffic

NOTE:
State & City jurisdiction line applies to the off-ramp only.

APPROVED:

[Signature]
TRAFFIC REVIEW BRANCH, DPP
(FOR WORK WITHIN CITY R-O-W) DATE 10/31/22



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature] 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

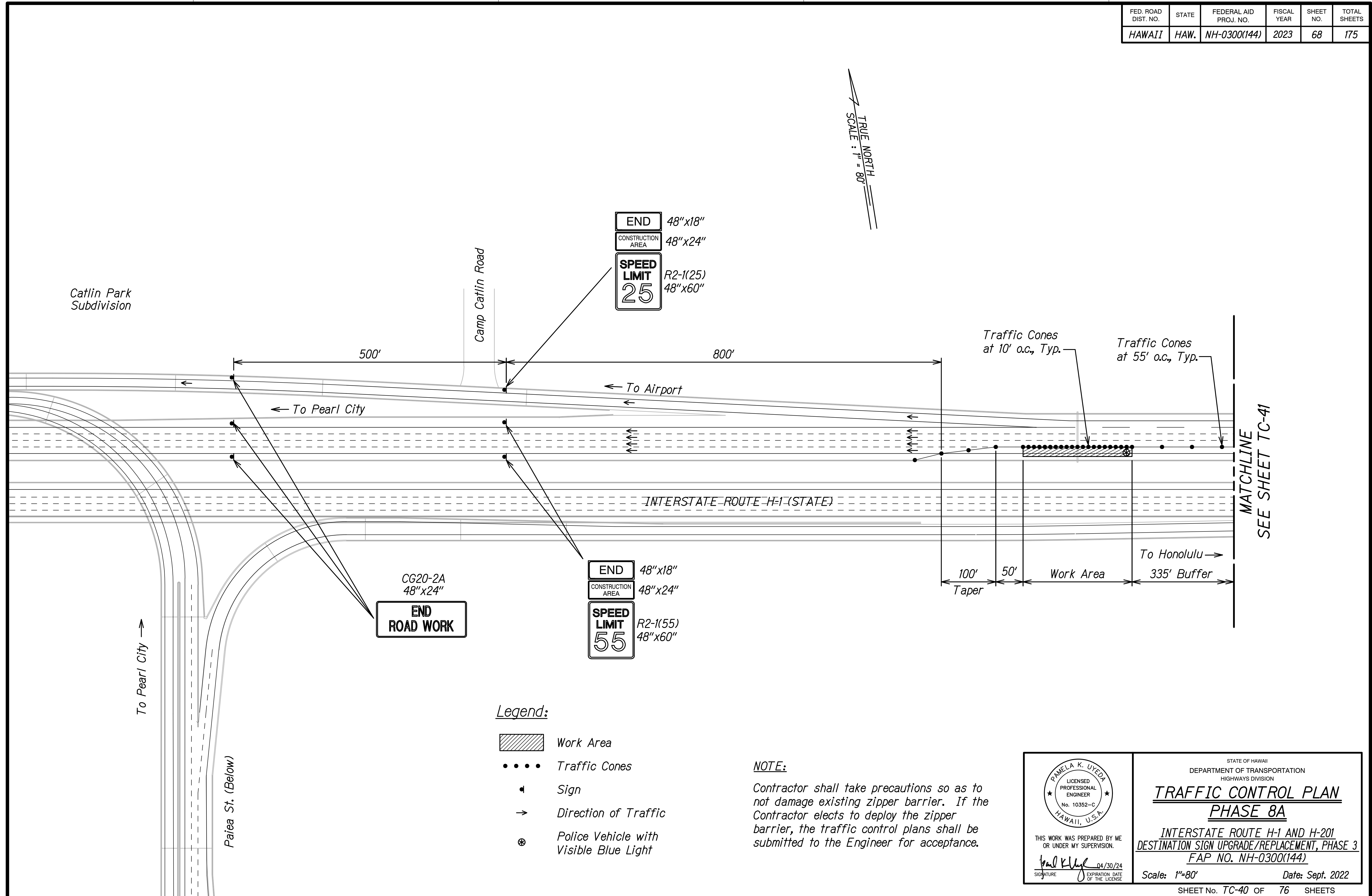
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE 5C**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	68	175



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

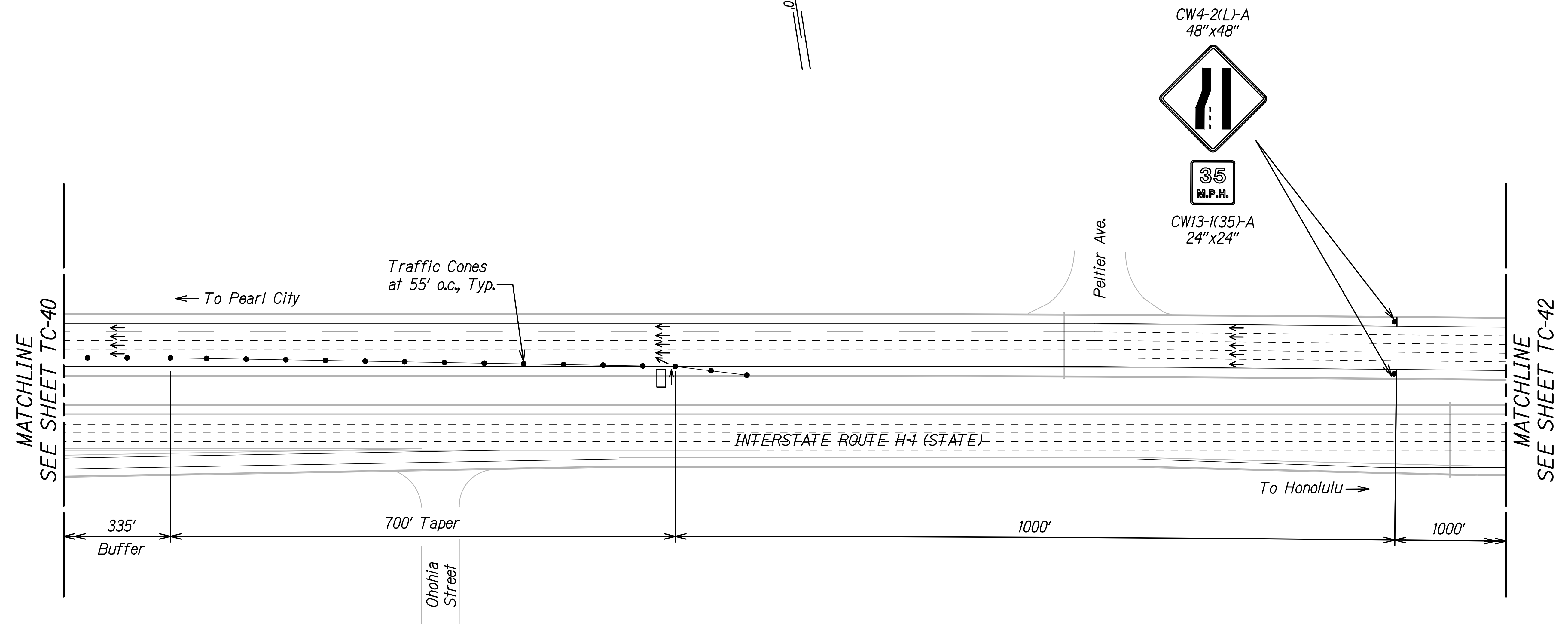
TRAFFIC CONTROL PLAN
PHASE 8A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	69	175

TRUE NORTH
SCALE: 1" = 80'



- Legend:
- Traffic Cones
 - ◼ Sign
 - Direction of Traffic
 - ⬆️ Flashing Arrow Signal

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

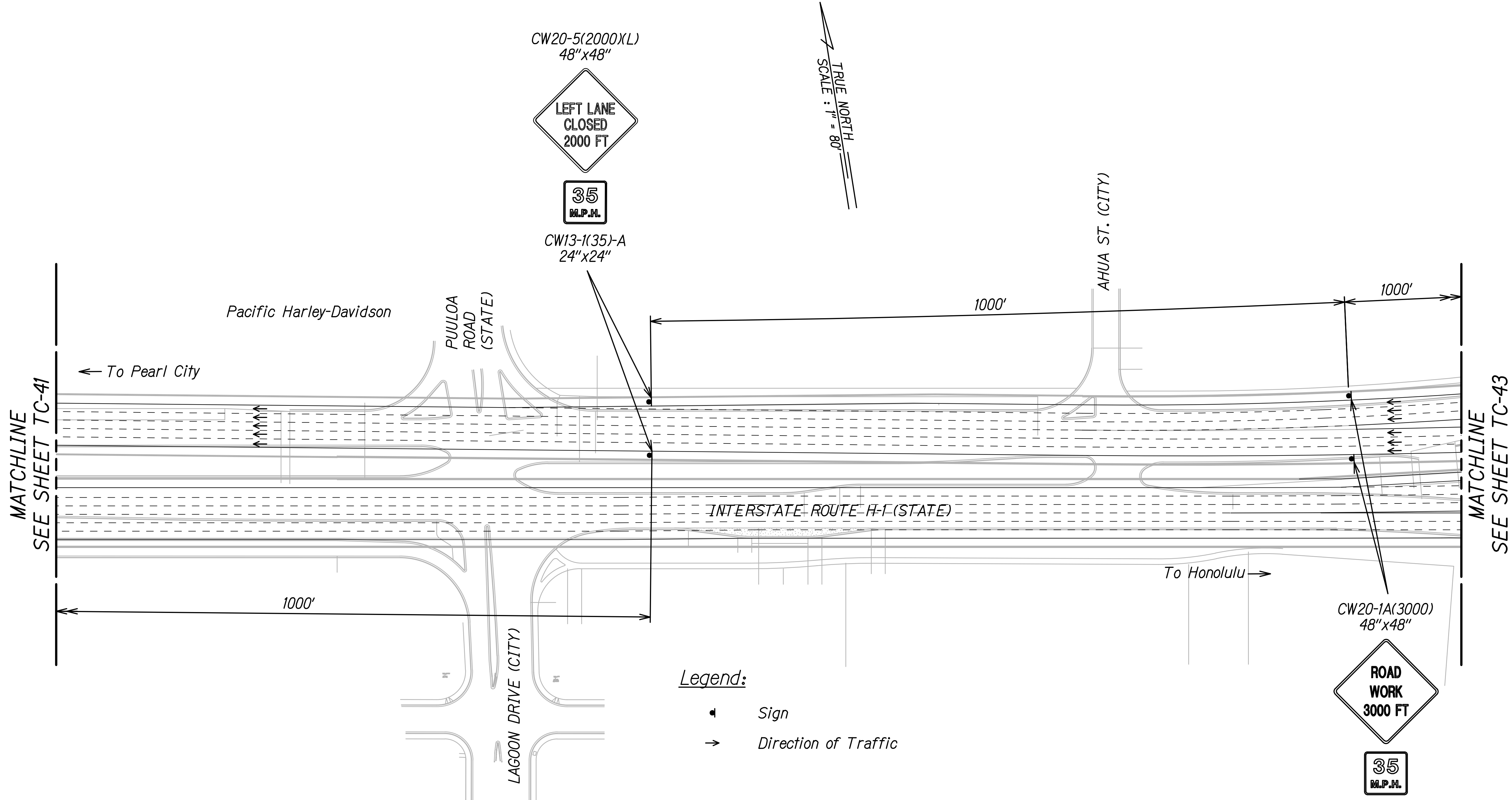
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 8A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	70	175



Legend:

- ◀ Sign
- Direction of Traffic

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

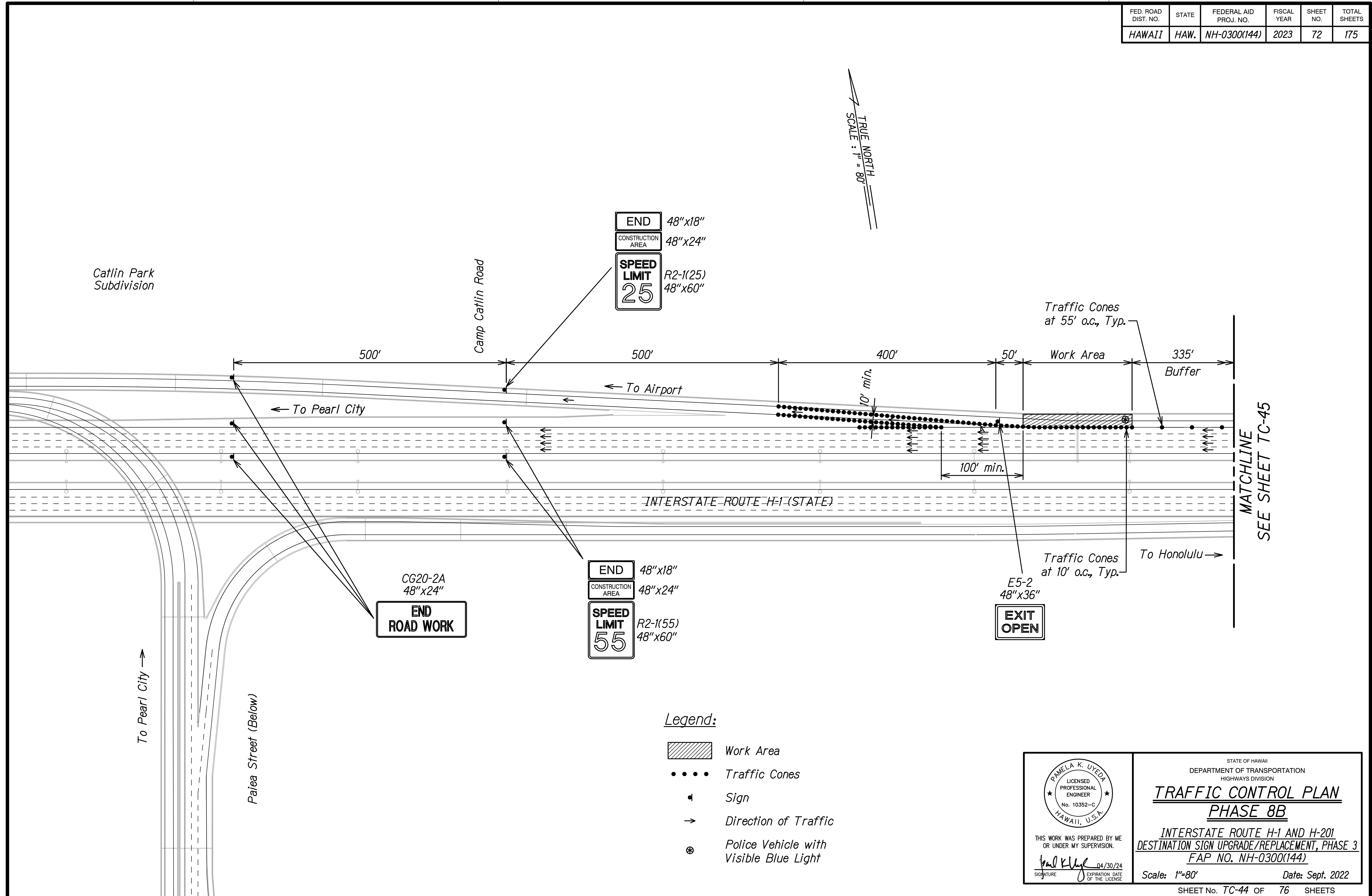
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 8A






INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

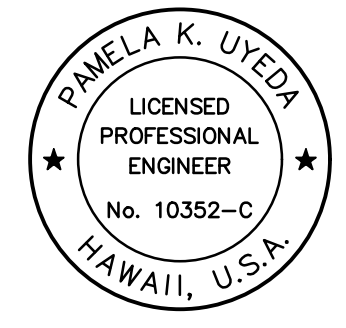
Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	72	175



SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

- Legend:**
-  Work Area
 -  Traffic Cones
 -  Sign
 -  Direction of Traffic
 -  Police Vehicle with Visible Blue Light



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

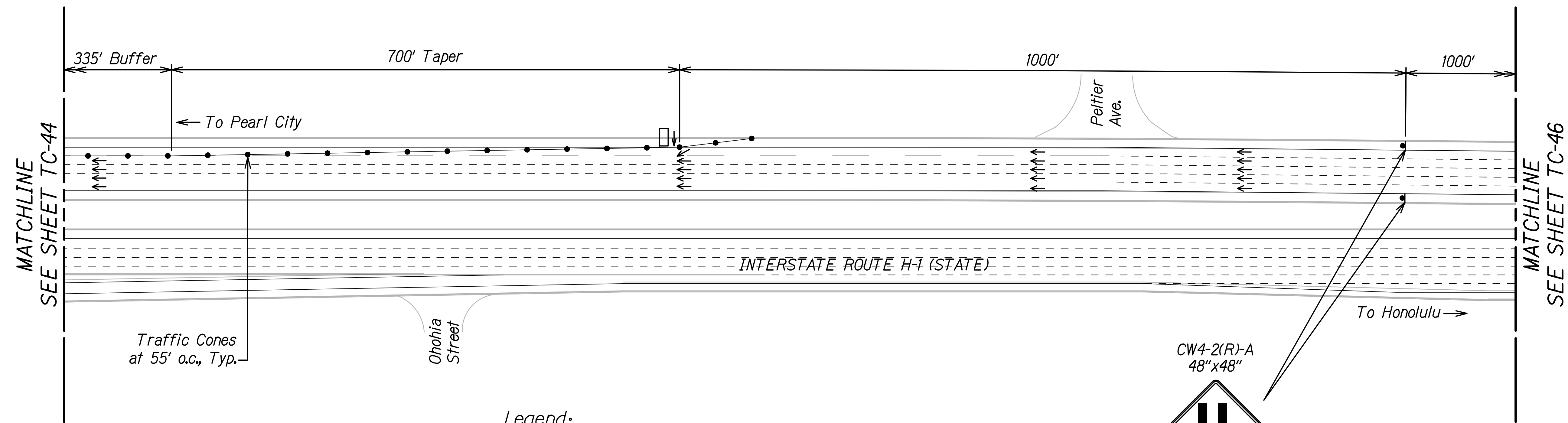
TRAFFIC CONTROL PLAN
PHASE 8B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

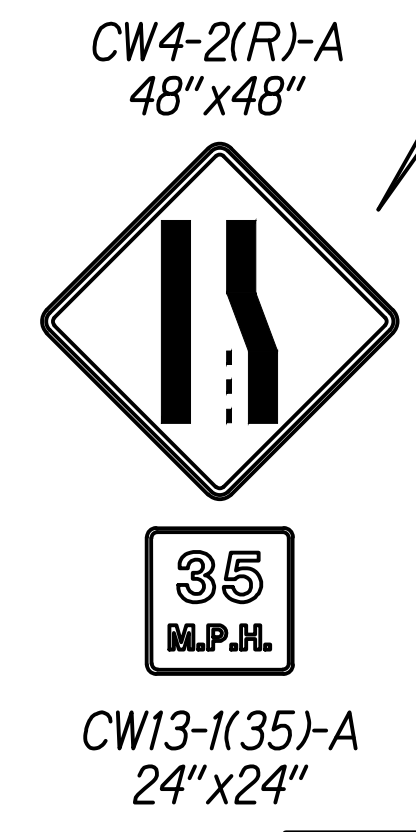
Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	73	175

TRUE NORTH
SCALE: 1" = 80'



- Legend:
- Traffic Cones
 - ◄ Sign
 - Direction of Traffic
 - ↑ □ Flashing Arrow Signal



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

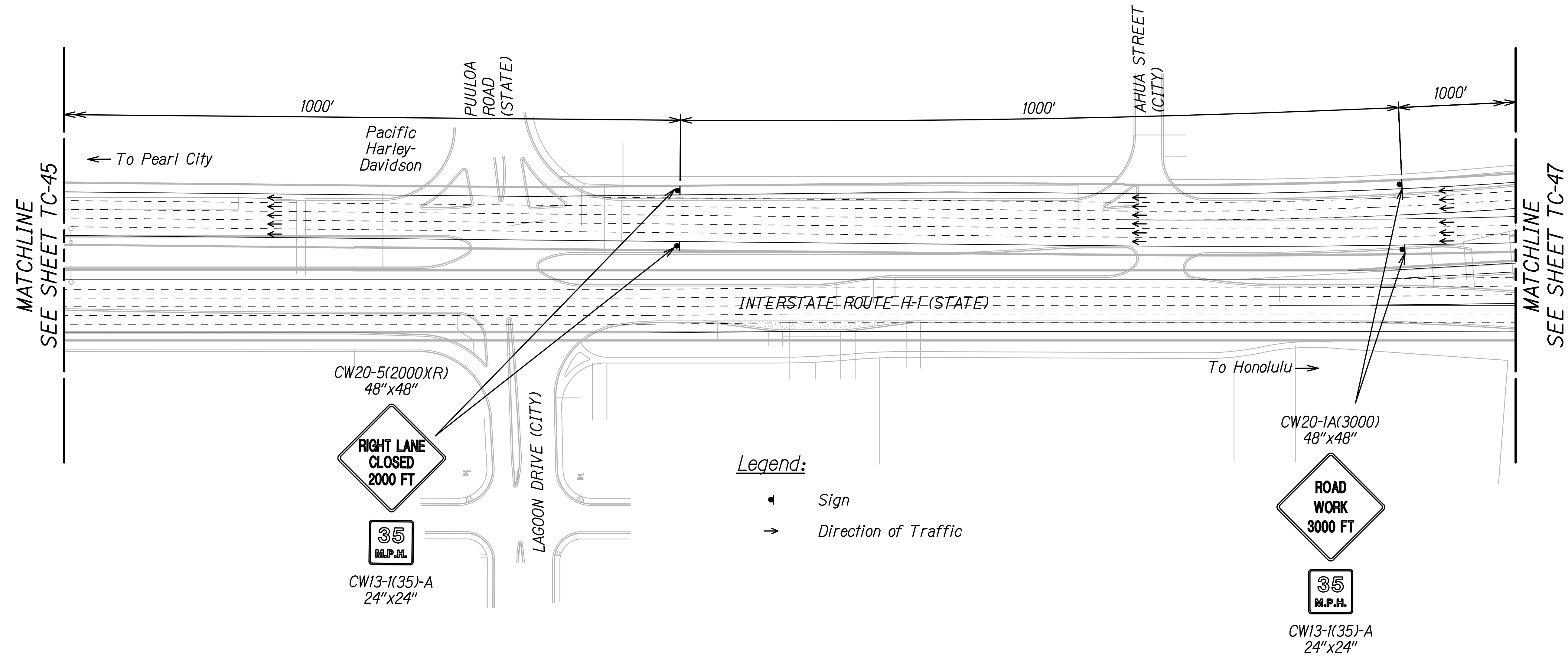
TRAFFIC CONTROL PLAN
PHASE 8B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	74	175

TRUE NORTH
SCALE: 1" = 80'



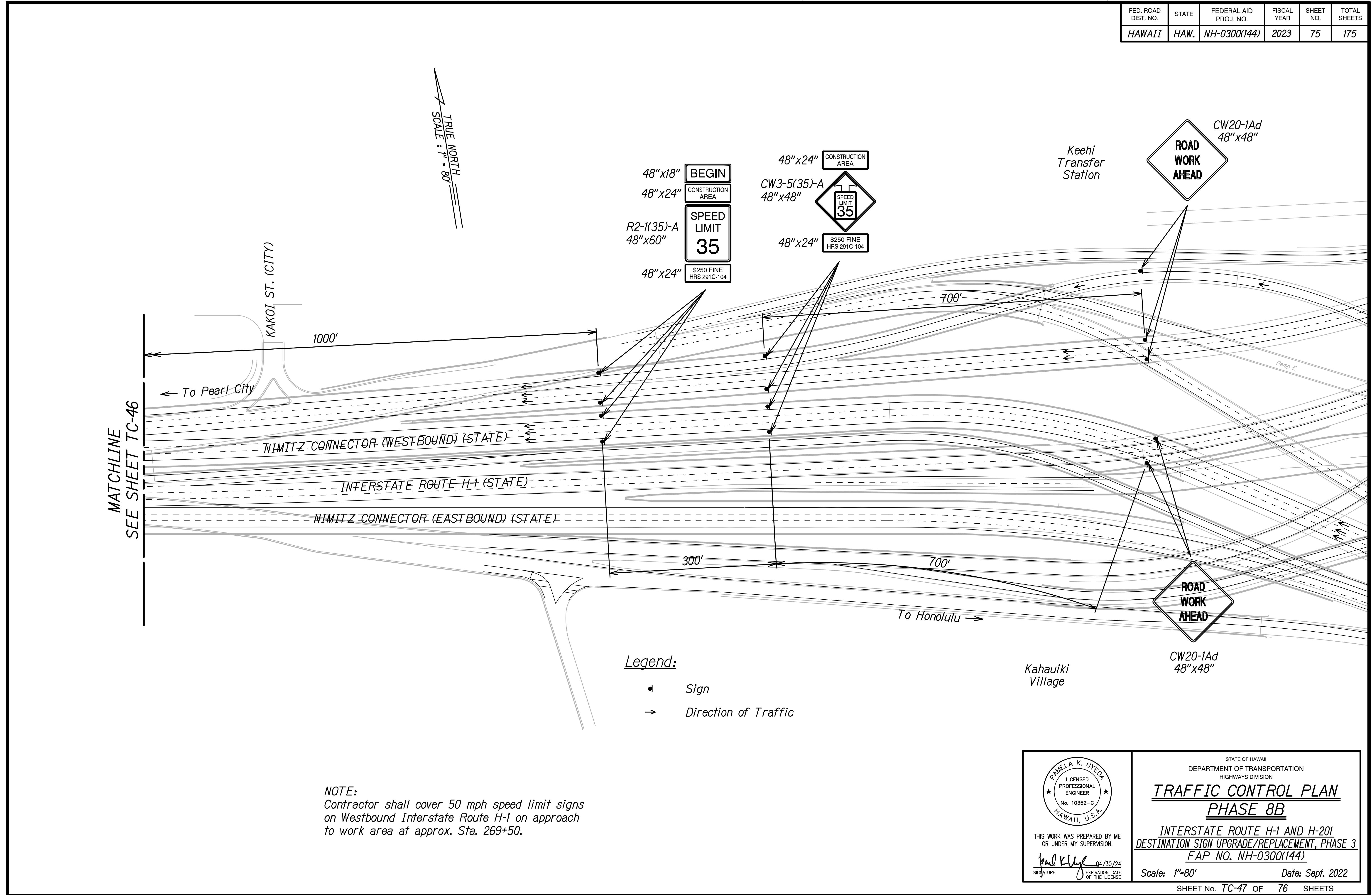
Legend:
 ▲ Sign
 → Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 8B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature: <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	75	175



MATCHLINE
SEE SHEET TC-46

NIMITZ CONNECTOR (WESTBOUND) (STATE)

INTERSTATE ROUTE H-1 (STATE)

NIMITZ CONNECTOR (EASTBOUND) (STATE)

KAKOI ST. (CITY)

← To Pearl City

To Honolulu →

Keahi
Transfer
Station

Kahauiki
Village

Legend:

- ◀ Sign
- Direction of Traffic

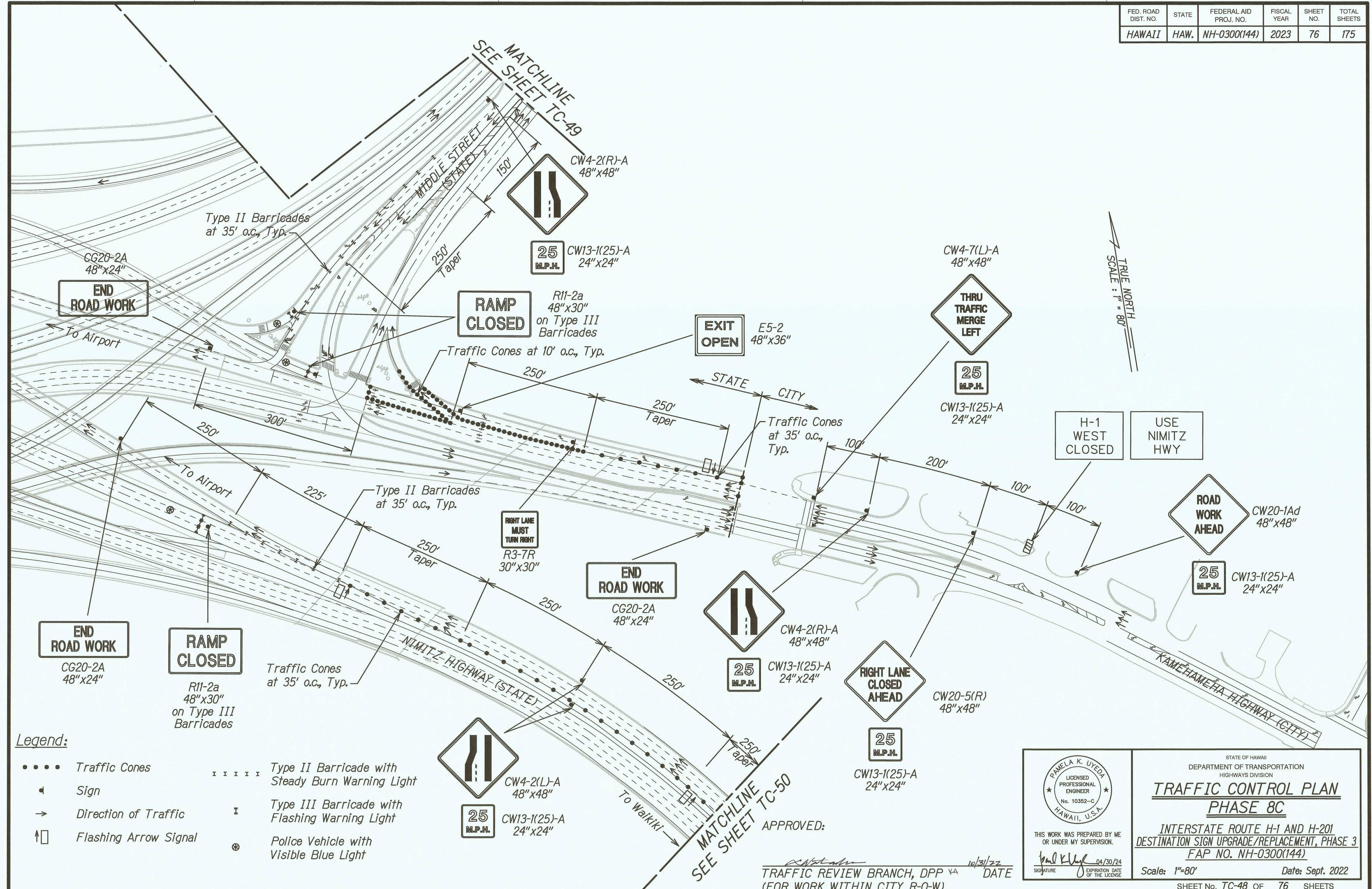
NOTE:
Contractor shall cover 50 mph speed limit signs on Westbound Interstate Route H-1 on approach to work area at approx. Sta. 269+50.

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 8B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	76	175



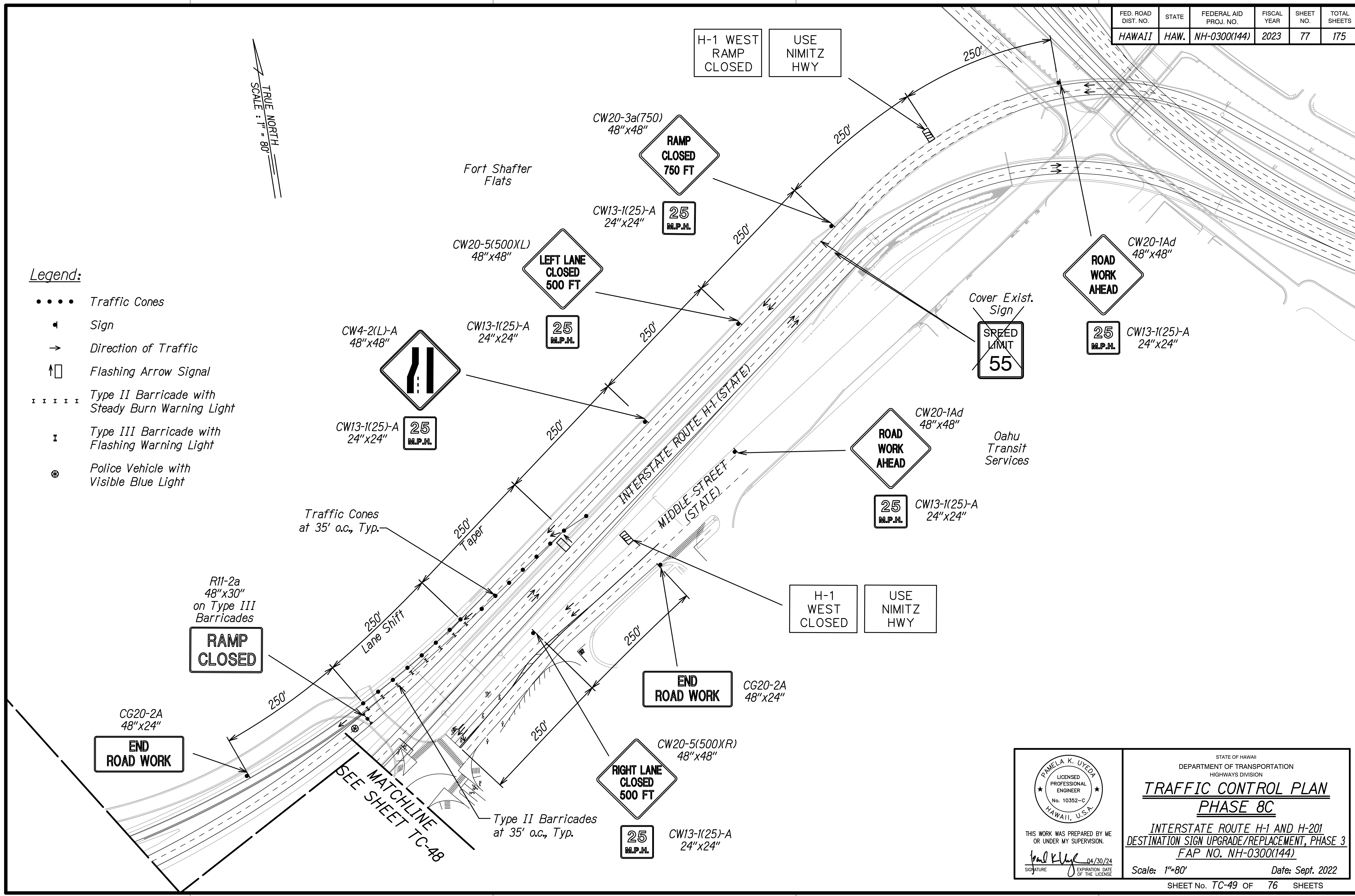
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

- Legend:**
- Traffic Cones
 - ▴ Sign
 - Direction of Traffic
 - ⬆ Flashing Arrow Signal
 - Type II Barricade with Steady Burn Warning Light
 - Type III Barricade with Flashing Warning Light
 - ⊕ Police Vehicle with Visible Blue Light

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	77	175

TRUE NORTH
SCALE: 1" = 80'

- Legend:**
- Traffic Cones
 - ◀ Sign
 - Direction of Traffic
 - ⬆ Flashing Arrow Signal
 - ⋮ Type II Barricade with Steady Burn Warning Light
 - ⋮ Type III Barricade with Flashing Warning Light
 - ⊕ Police Vehicle with Visible Blue Light

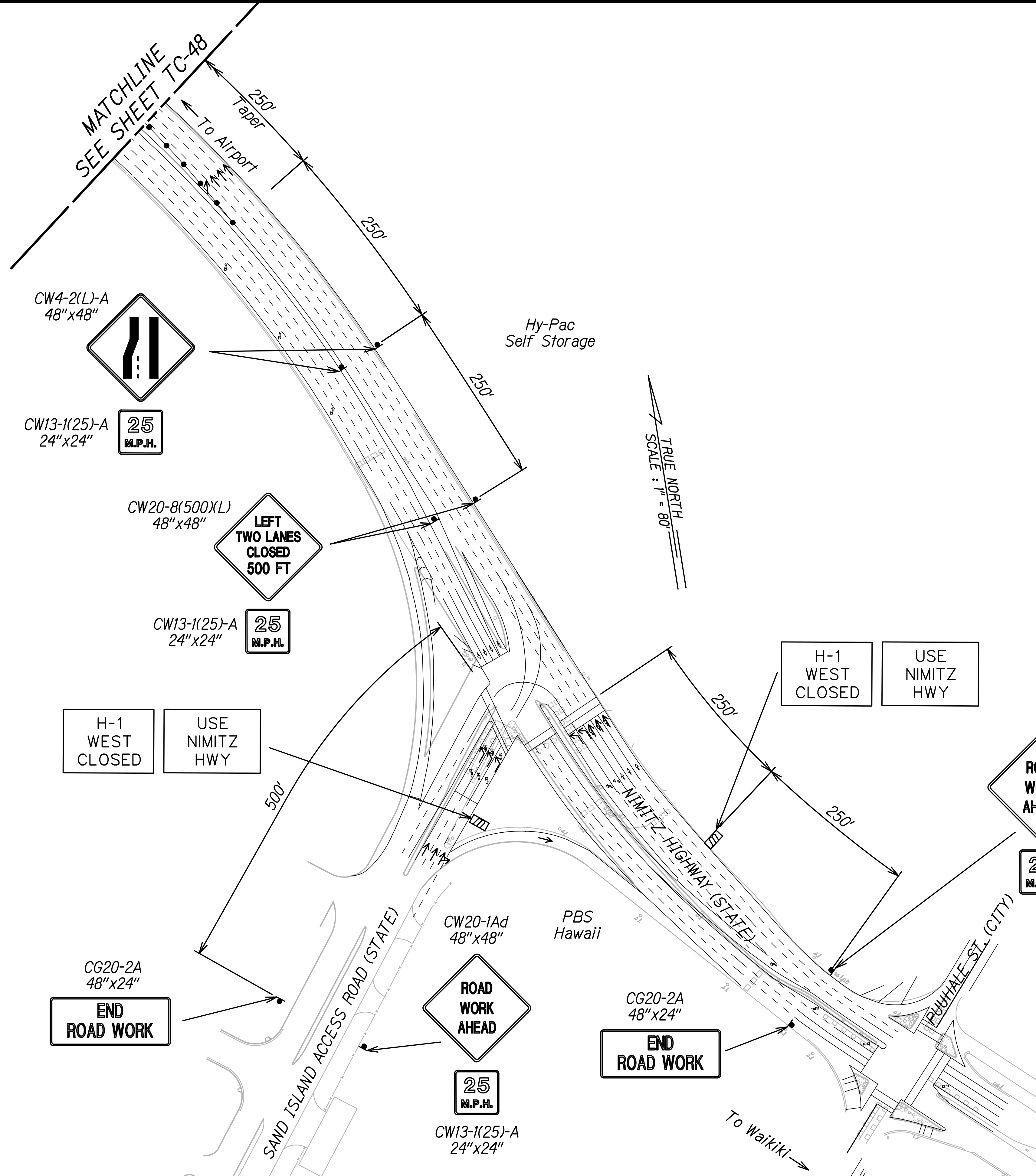


DATE	.....
SURVEY PLOTTED BY	.....
ORIGINAL PLAN	.....
DESIGNED BY	.....
TRACED BY	.....
NOTE BOOK	.....
DESIGNED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
No.	.....

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 8C
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	78	175



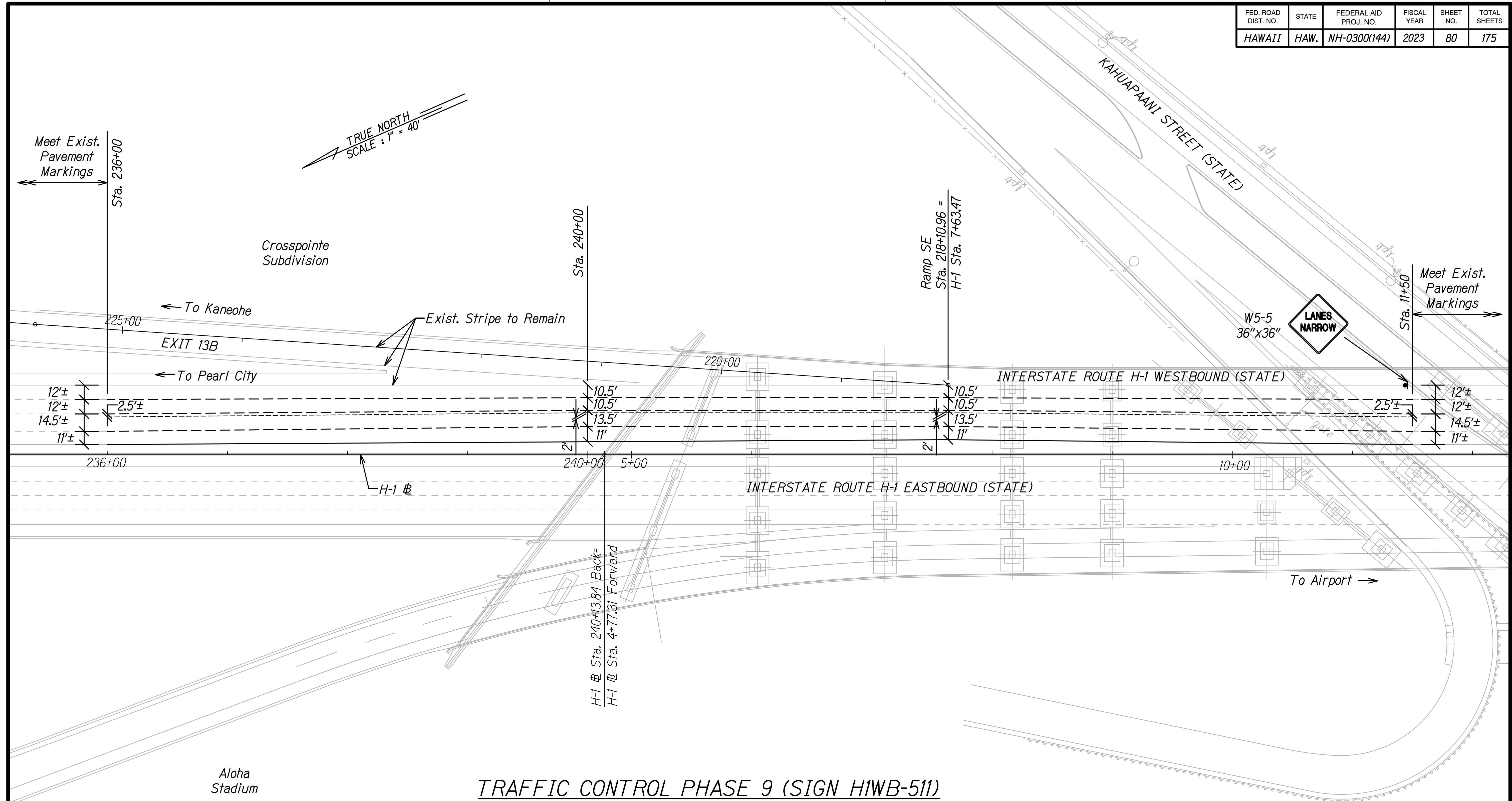
Legend:

- Traffic Cones
- ▲ Sign
- Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 8C
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 <small>SIGNATURE EXPIRATION DATE OF THE LICENSE</small>	Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	80	175



**TRAFFIC CONTROL PHASE 9 (SIGN HIWB-511)
TEMPORARY STRIPING PLAN**

Scale: 1"=40'

Legend:

- Temporary 4" Lane Line (10'-0" Long White Stripes at 40' o.c.)
- 6" Temporary Yellow Edge Line
- Temporary 1/2" Zipper Barrier Guide Stripe

NOTE:

Payment for temporary striping and signs shall be included in Pay Item 645.1109 - Traffic Control - HIWB-511.

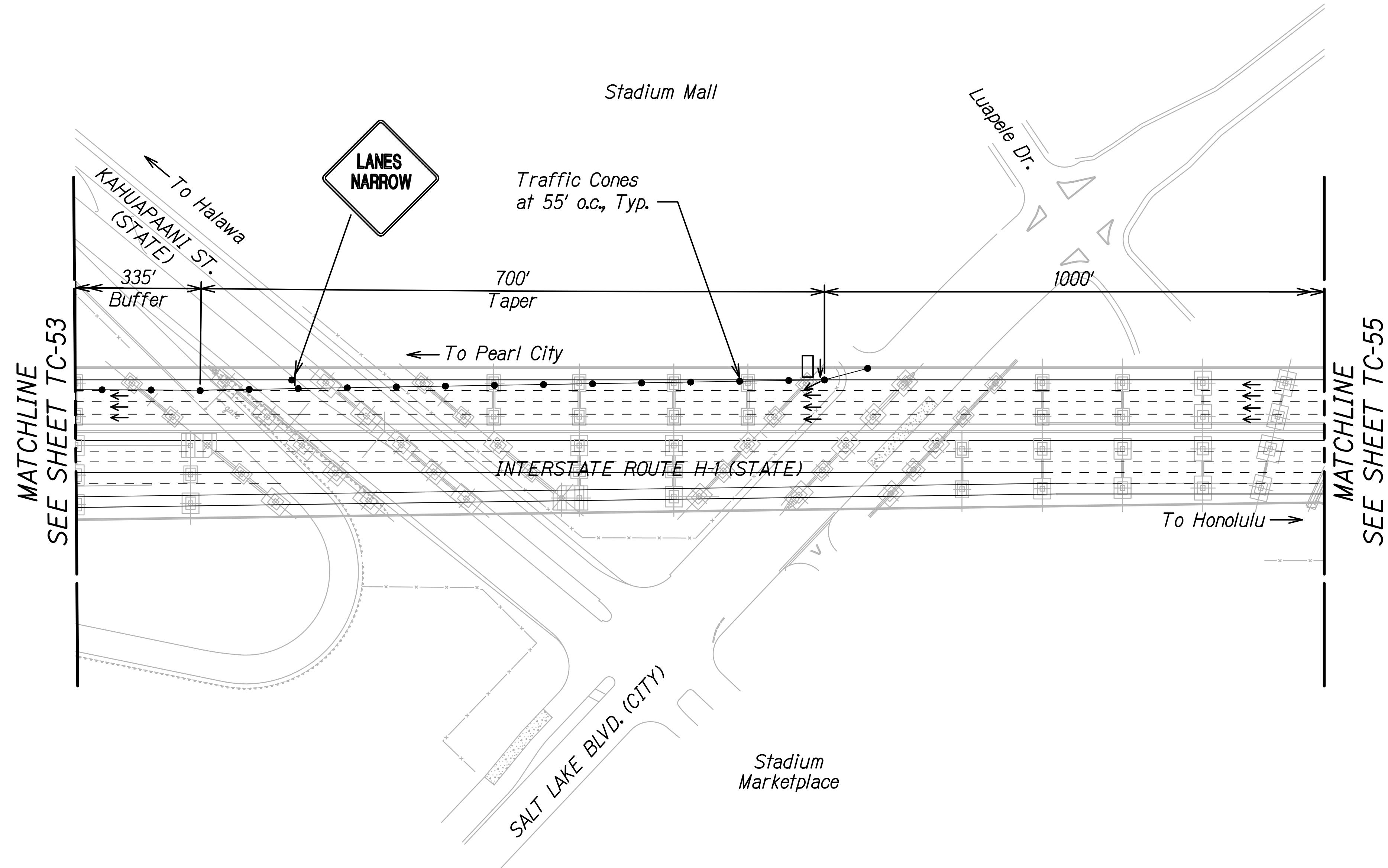
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9 TEMPORARY STRIPING
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	Scale: 1"=40' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Pamela K. Uyeda* 04/30/24
 EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	82	175

TRUE NORTH
SCALE: 1" = 80'



Legend:

- Traffic Cones
- ◄ Sign
- ⬆ Flashing Arrow Signal
- Direction of Traffic

NOTE:
See Temporary Striping Plan on Sht. TC-52.

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

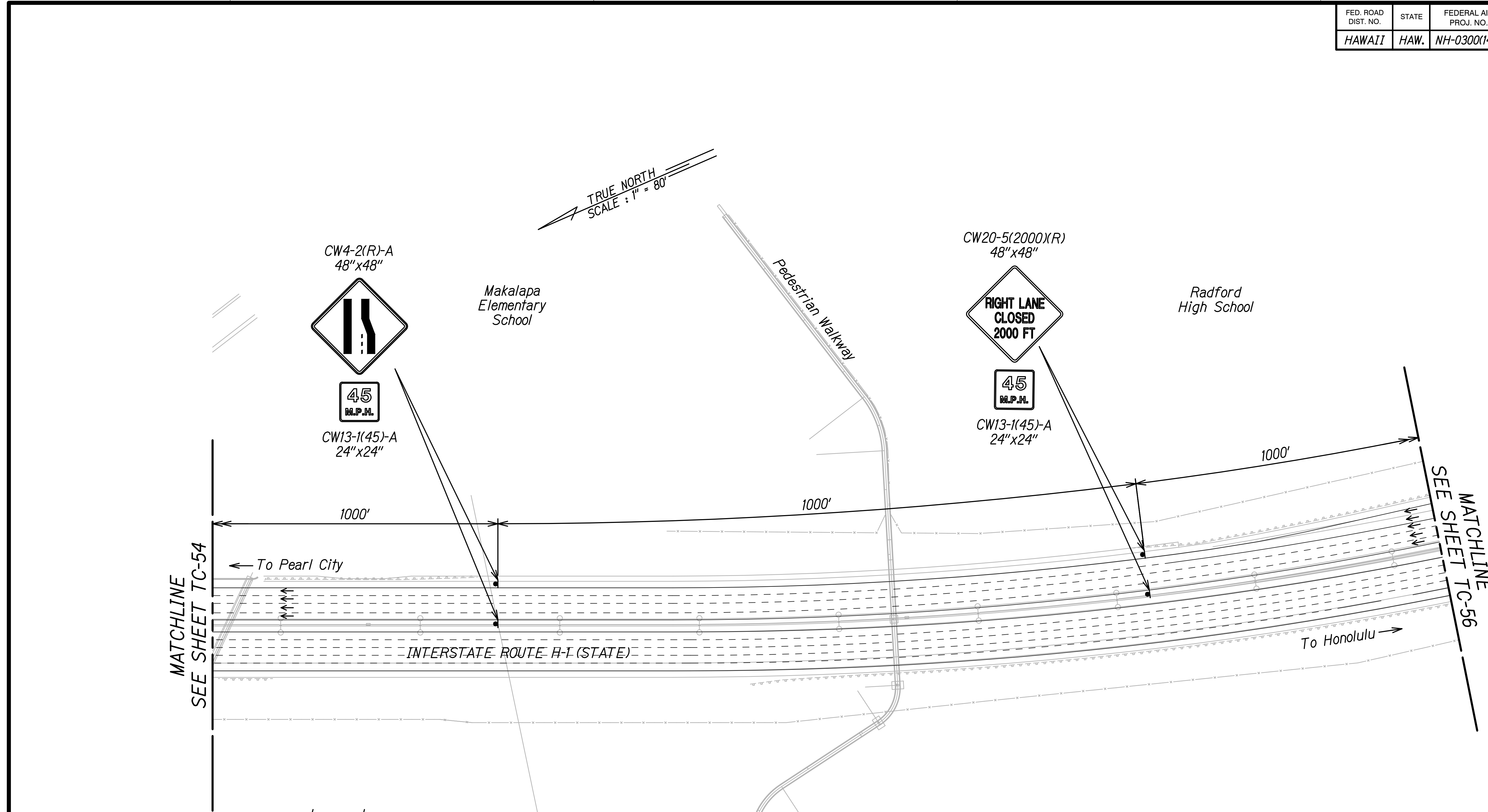
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9A

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	83	175



Legend:
 ◀ Sign
 → Direction of Traffic

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

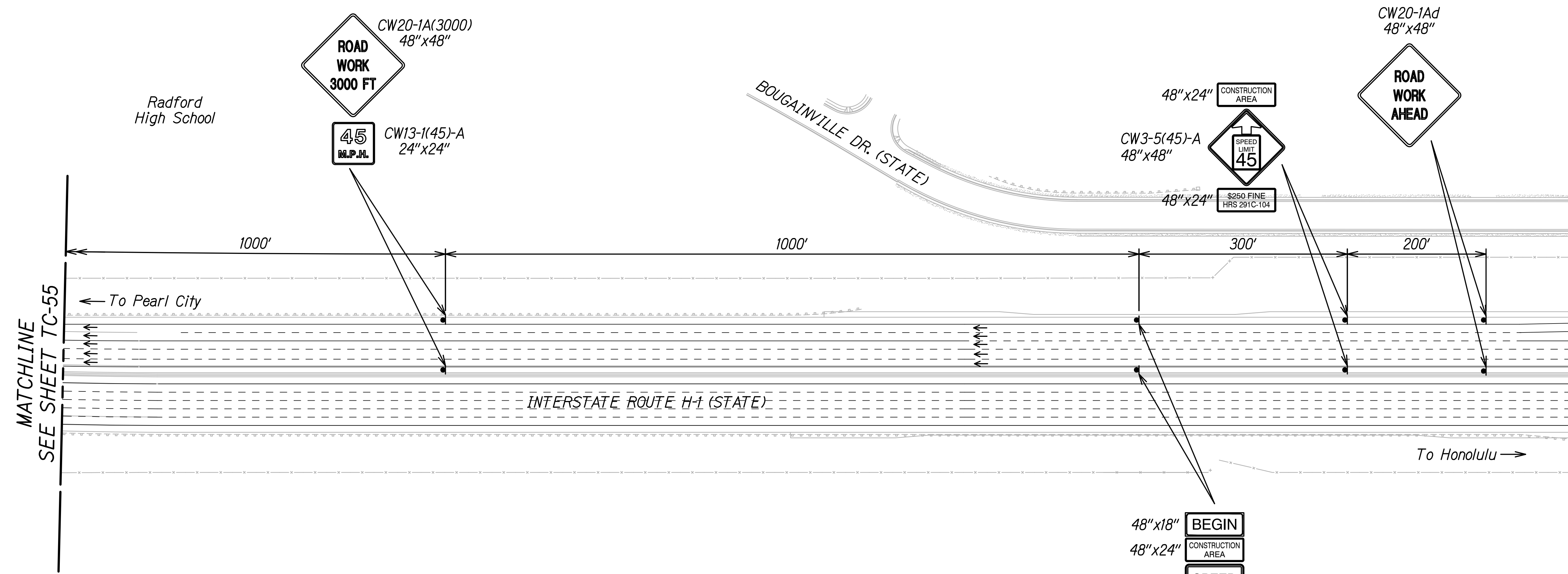
TRAFFIC CONTROL PLAN
PHASE 9A

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	84	175

TRUE NORTH
SCALE: 1" = 80'



MATCHLINE
SEE SHEET TC-55

Legend:
 ◀ Sign
 → Direction of Traffic

48" x 18" BEGIN
 48" x 24" CONSTRUCTION AREA
 R2-1(45)-A SPEED LIMIT 45
 48" x 60"
 48" x 24" \$250 FINE HRS 291C-104

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

PAMELA K. UYEDA
 LICENSED PROFESSIONAL ENGINEER
 No. 10352-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

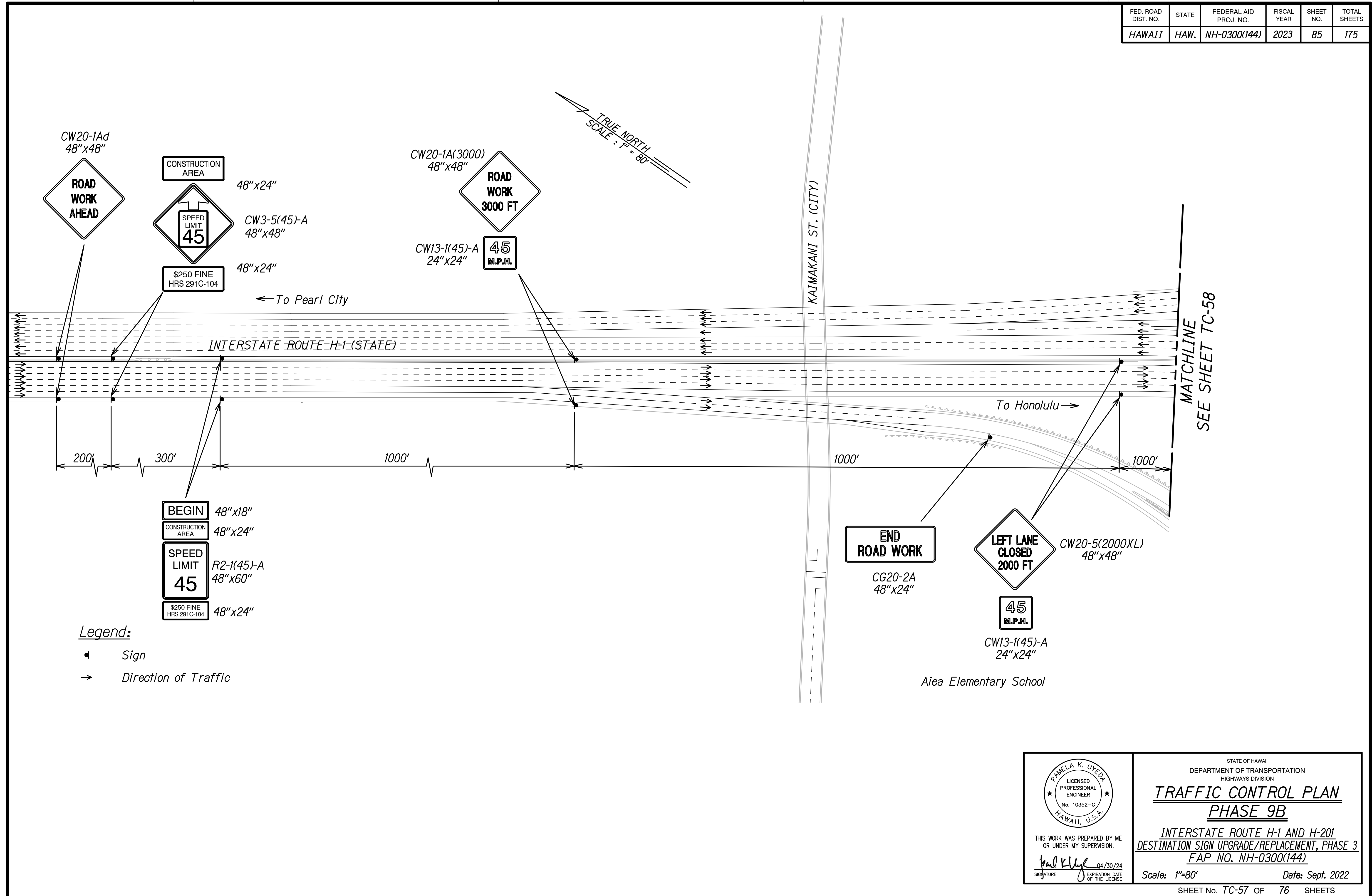
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9A

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	85	175



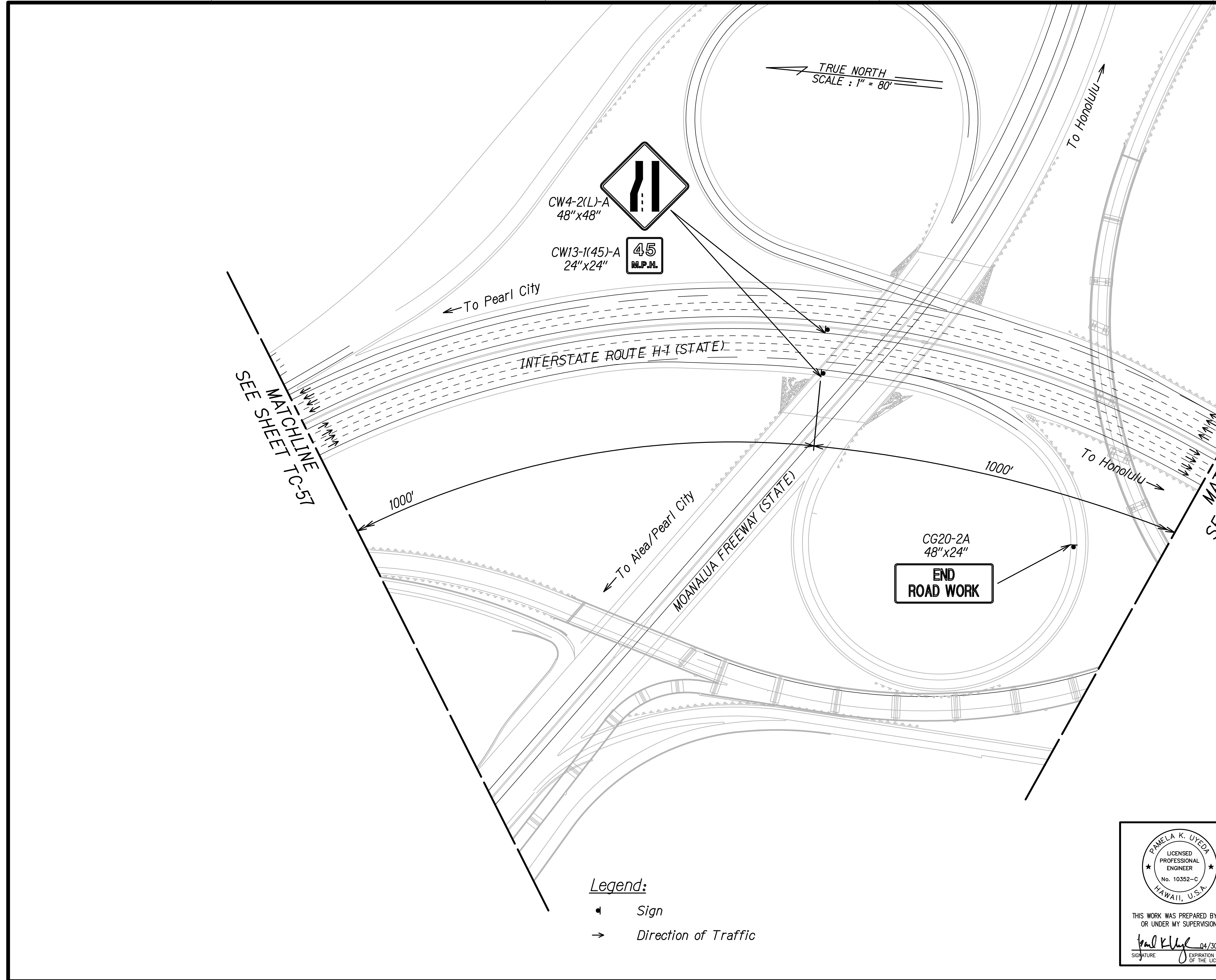
Legend:
 ◀ Sign
 → Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	86	175



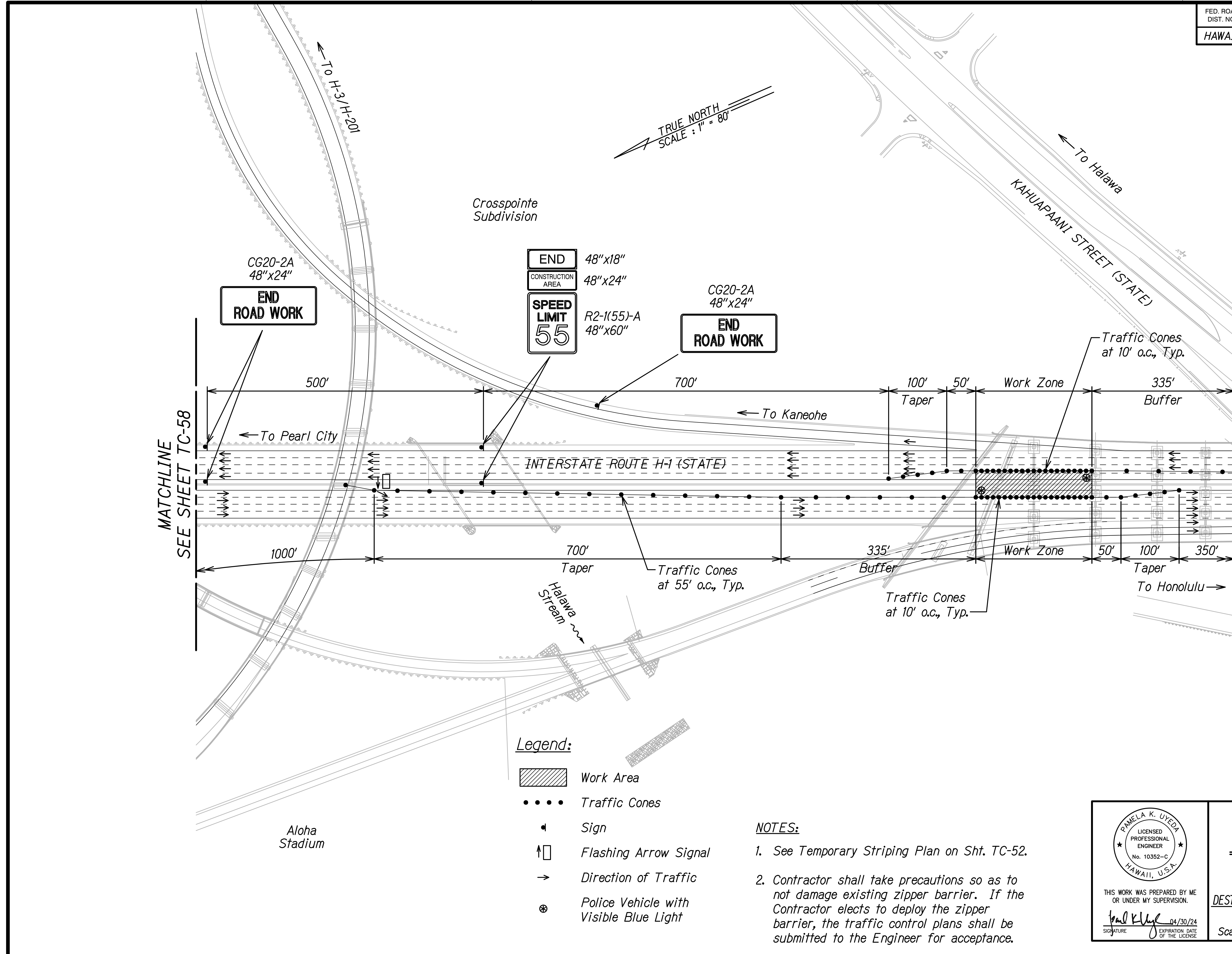
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

Legend:

- ◄ Sign
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9B
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
Scale: 1"=80' Date: Sept. 2022	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	87	175



MATCHLINE
SEE SHEET TC-58

MATCHLINE
SEE SHEET TC-60

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

- Legend:**
- Work Area
 - Traffic Cones
 - Sign
 - Flashing Arrow Signal
 - Direction of Traffic
 - Police Vehicle with Visible Blue Light

- NOTES:**
1. See Temporary Striping Plan on Sht. TC-52.
 2. Contractor shall take precautions so as to not damage existing zipper barrier. If the Contractor elects to deploy the zipper barrier, the traffic control plans shall be submitted to the Engineer for acceptance.

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

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SIGNATURE: *P. Uyeda* EXPIRATION DATE OF LICENSE: 04/30/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

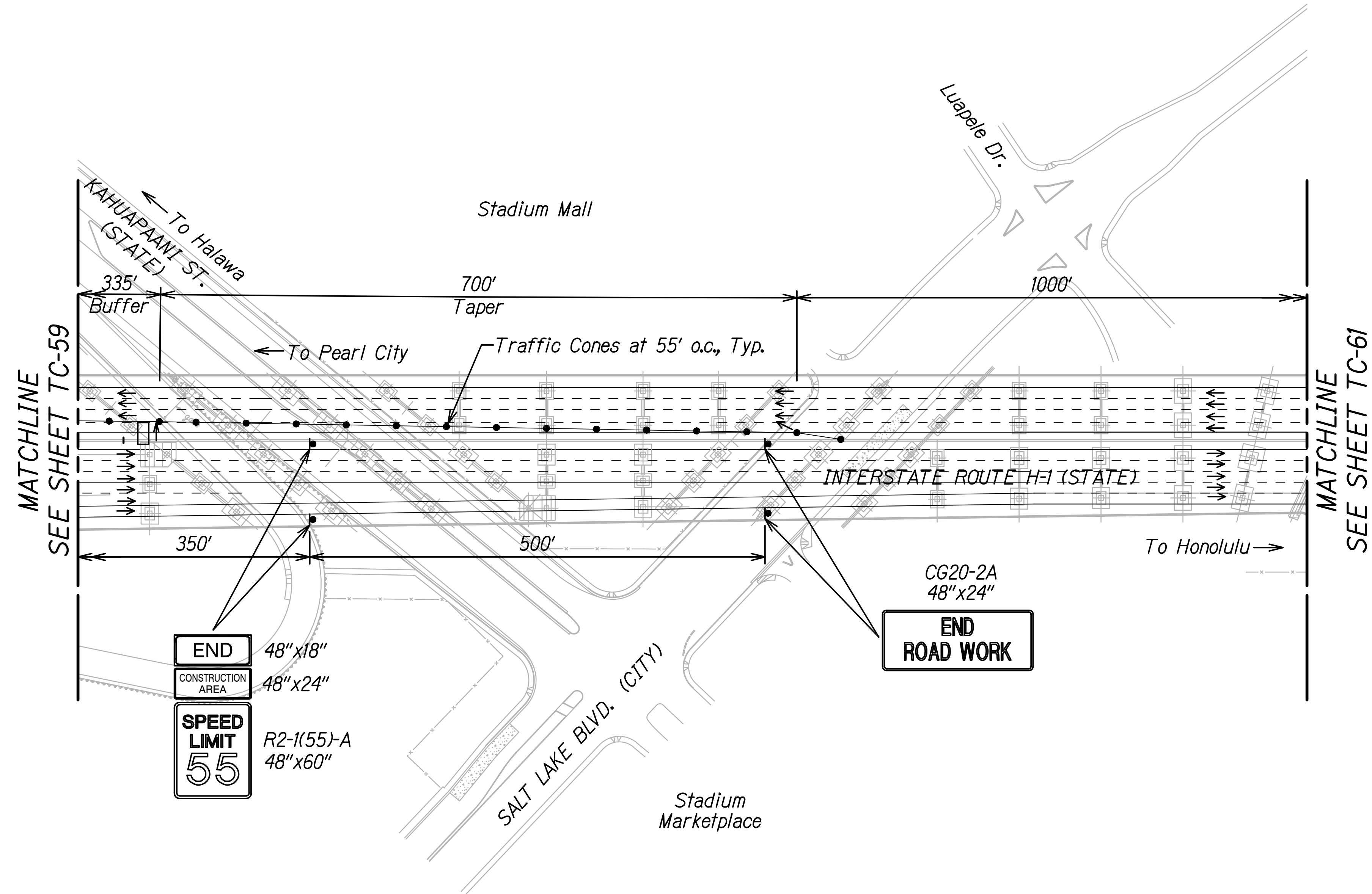
TRAFFIC CONTROL PLAN
PHASE 9B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	88	175

TRUE NORTH
SCALE: 1" = 80'



MATCHLINE
SEE SHEET TC-59

MATCHLINE
SEE SHEET TC-61

- END 48" x 18"
- CONSTRUCTION AREA 48" x 24"
- SPEED LIMIT 55 R2-1(55)-A 48" x 60"

CG20-2A
48" x 24"
END ROAD WORK

- Legend:
- Traffic Cones
 - ◀ Sign
 - ⬆ Flashing Arrow Signal
 - Direction of Traffic

NOTE:
See Temporary Striping Plan on Sht. TC-52.

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

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

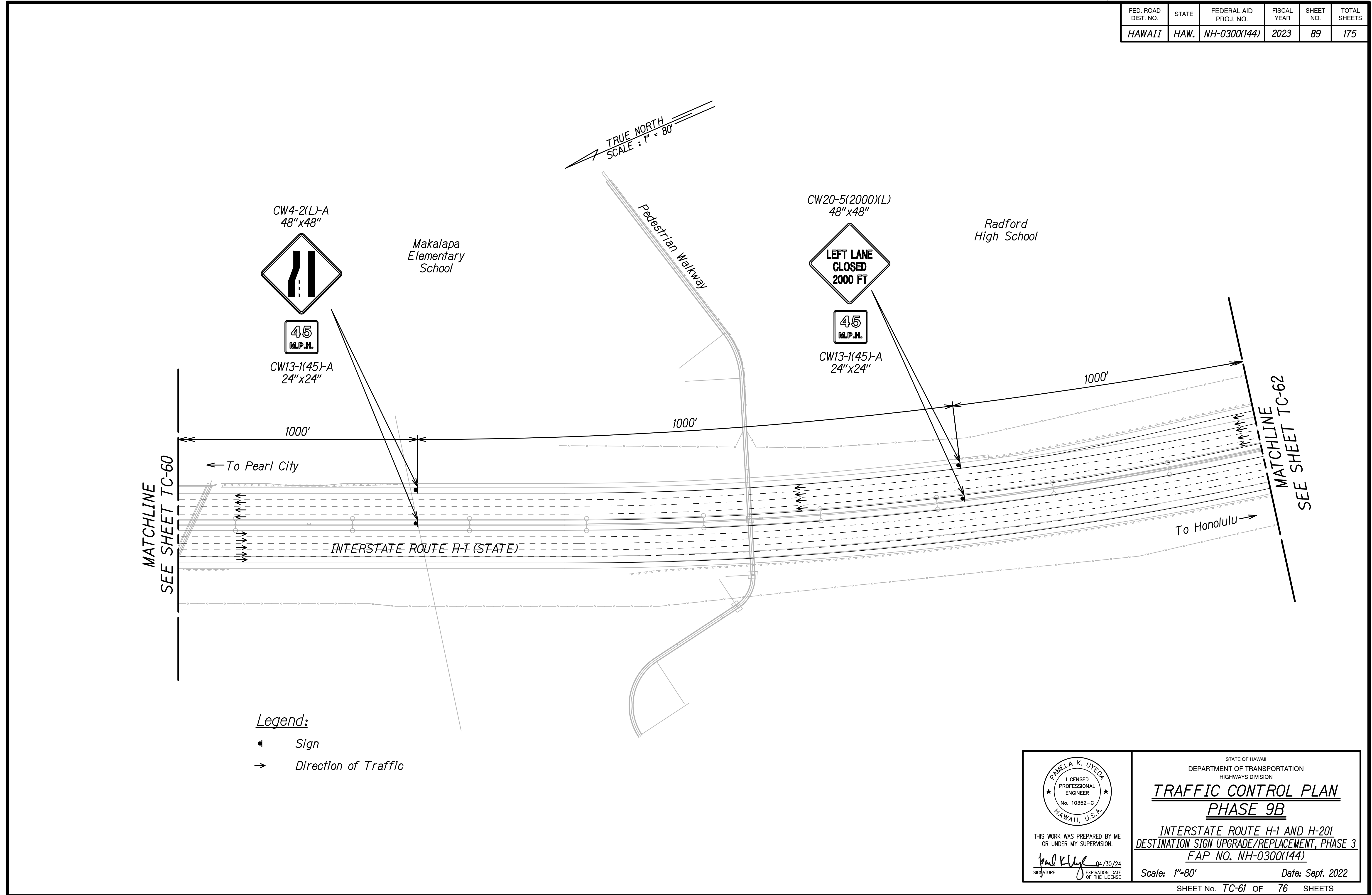
TRAFFIC CONTROL PLAN
PHASE 9B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
SIGNATURE: *Paul K. Uyeda* EXPIRATION DATE OF LICENSE: 04/30/24

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	89	175



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

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9B

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

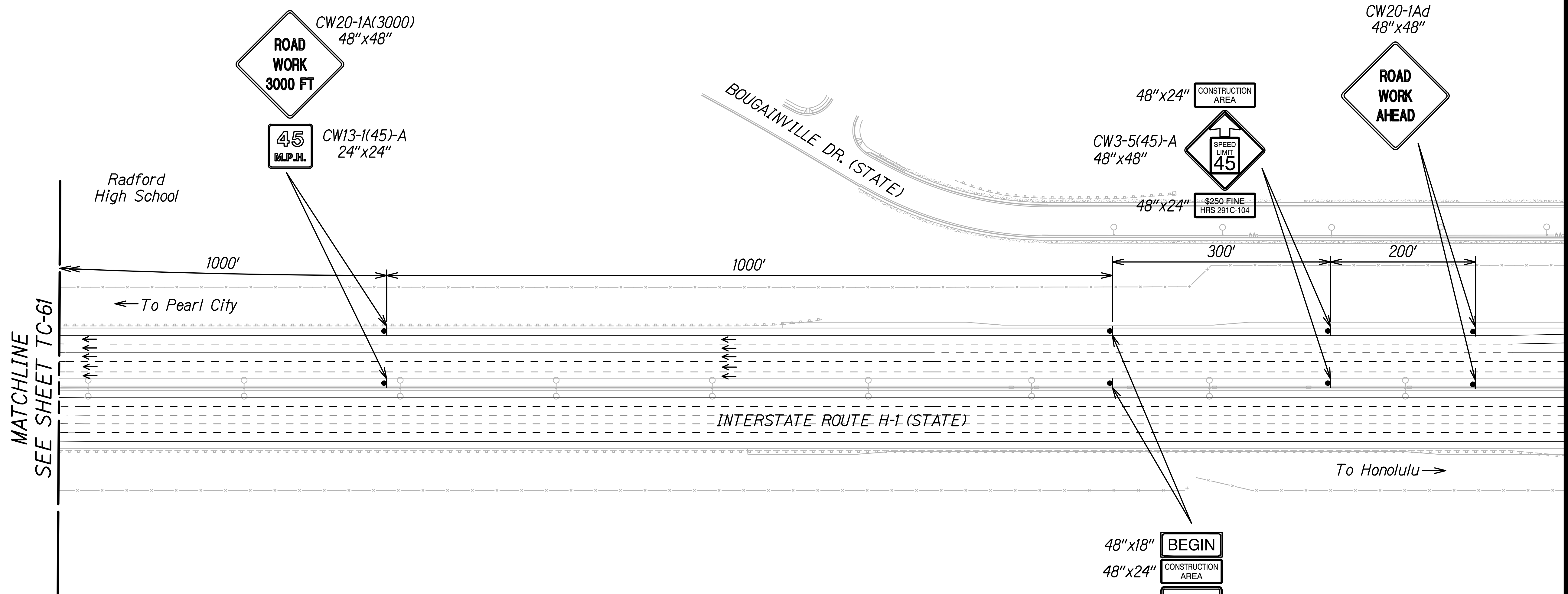
Scale: 1"=80' Date: Sept. 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Paul K. King* 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	90	175

TRUE NORTH
SCALE: 1" = 80'



Legend:
 ◀ Sign
 → Direction of Traffic

48" x 18" BEGIN
 48" x 24" CONSTRUCTION AREA
 R2-1(45)-A SPEED LIMIT 45
 48" x 60"
 48" x 24" \$250 FINE HRS 291C-104

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

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Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

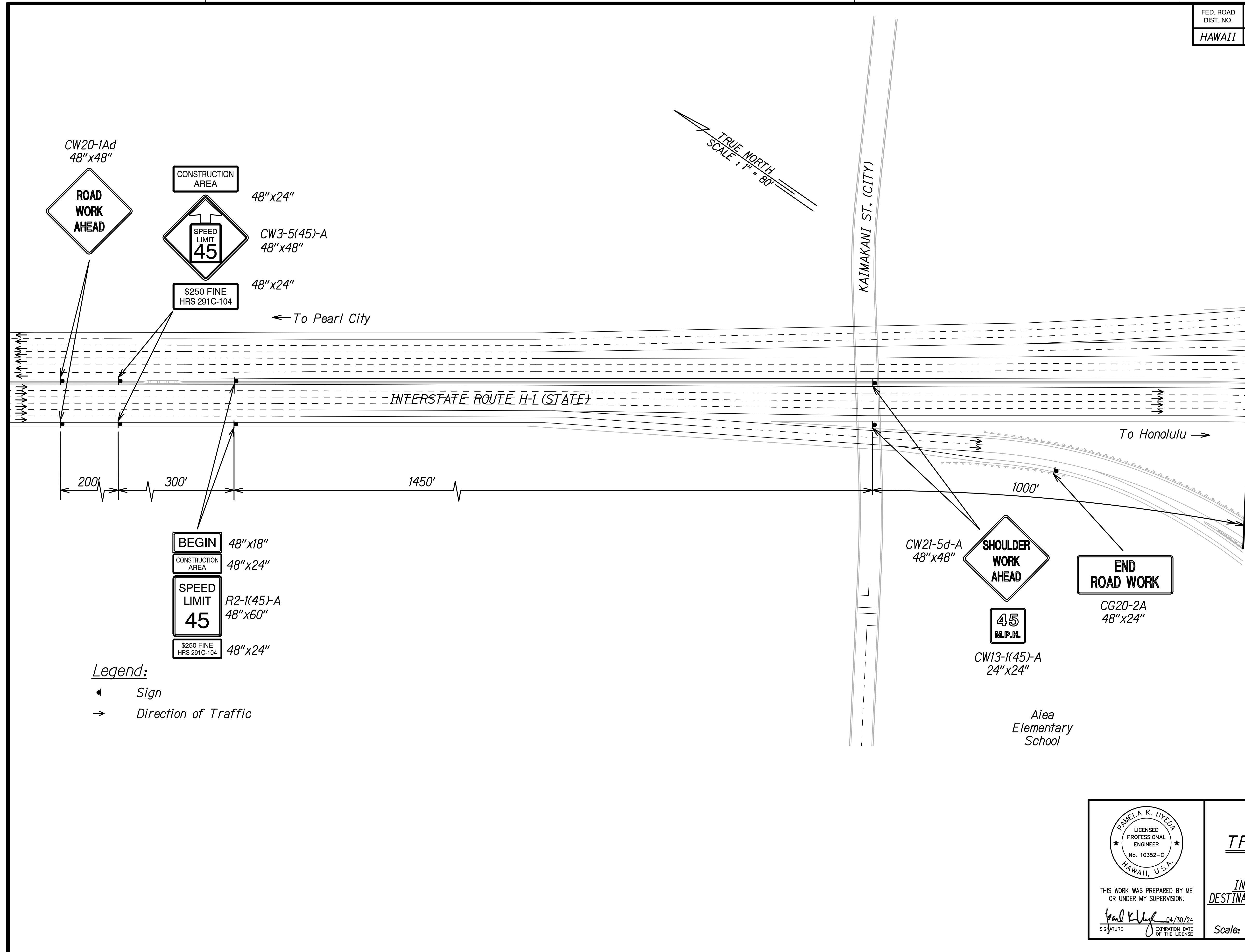
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9B

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	91	175



Legend:
 ◀ Sign
 → Direction of Traffic

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

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Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

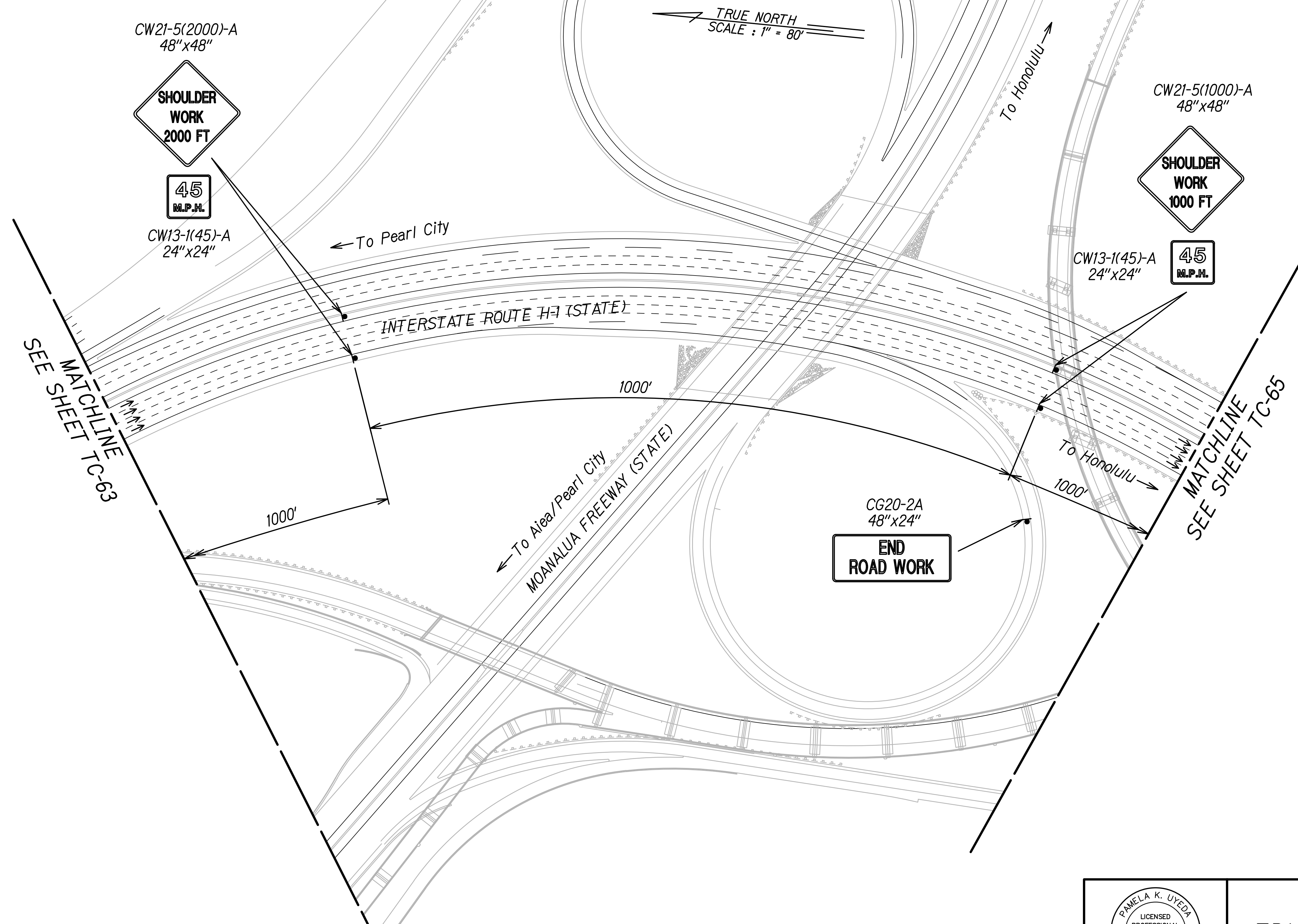
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9C

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	92	175



Legend:
 ◀ Sign
 → Direction of Traffic

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

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Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

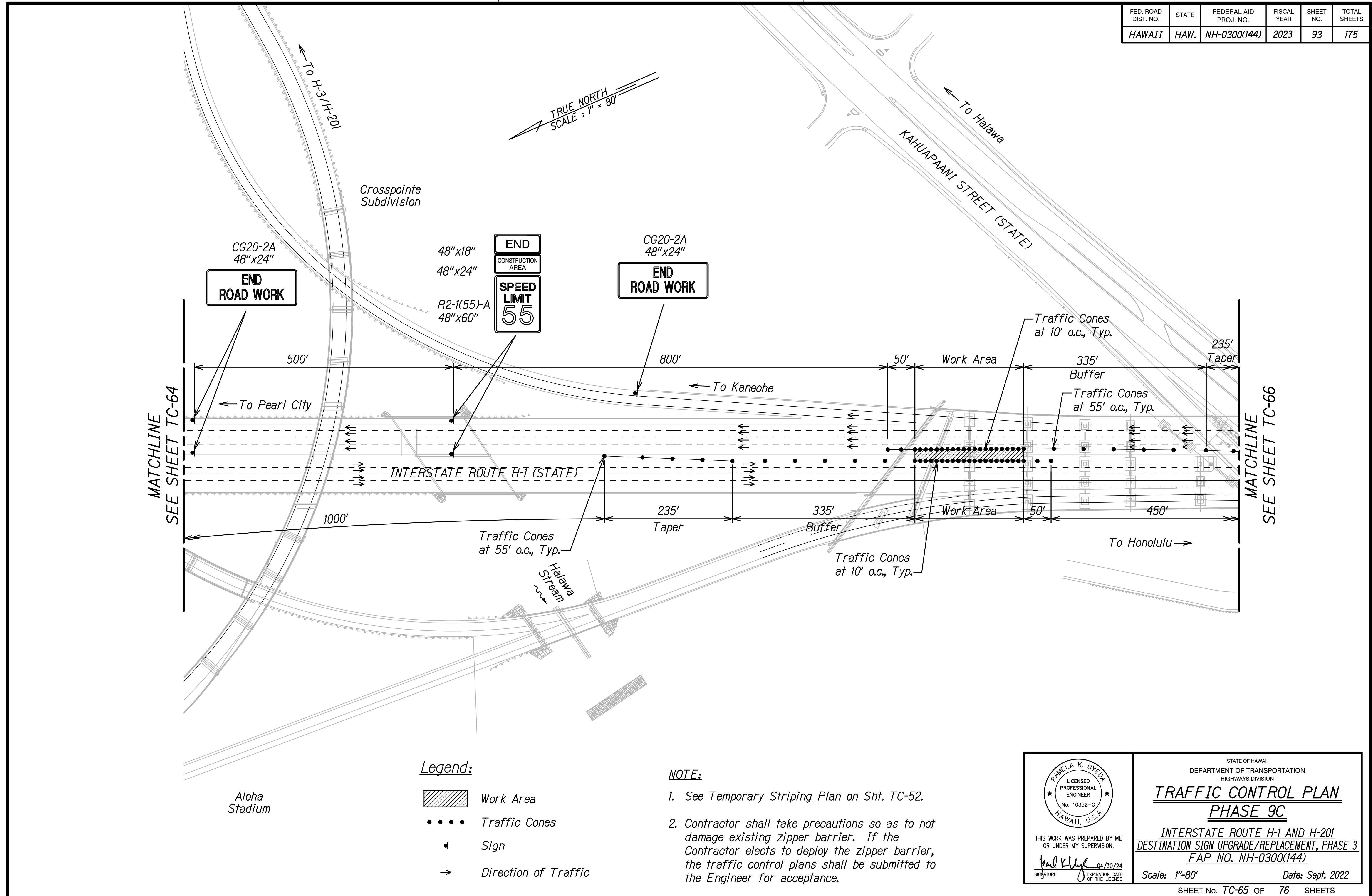
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9C

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

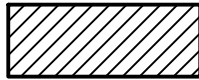



Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	93	175



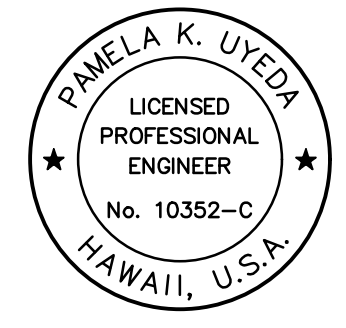
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Direction of Traffic

NOTE:

1. See Temporary Striping Plan on Sht. TC-52.
2. Contractor shall take precautions so as to not damage existing zipper barrier. If the Contractor elects to deploy the zipper barrier, the traffic control plans shall be submitted to the Engineer for acceptance.

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9C
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	Scale: 1"=80' Date: Sept. 2022
SHEET No. TC-65 OF 76 SHEETS	

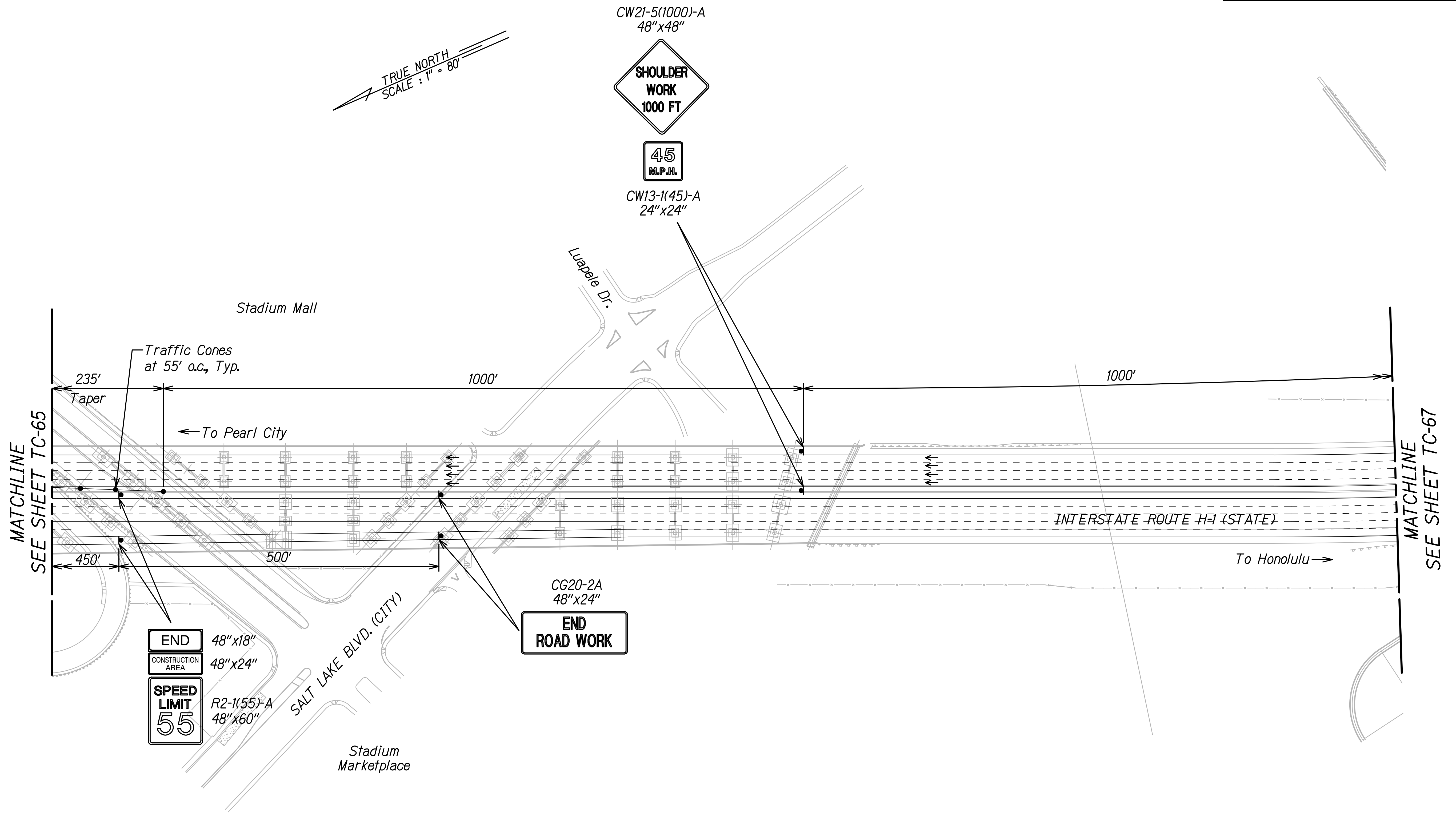
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	94	175

TRUE NORTH
SCALE: 1" = 80'

CW21-5(1000)-A
48"x48"



CW13-1(45)-A
24"x24"



END 48"x18"
CONSTRUCTION AREA 48"x24"
SPEED LIMIT 55 R2-1(55)-A 48"x60"

CG20-2A 48"x24"
END ROAD WORK

Legend:
◄ Sign
→ Direction of Traffic

NOTE:
See Temporary Striping Plan on Sht. TC-52.

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

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Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

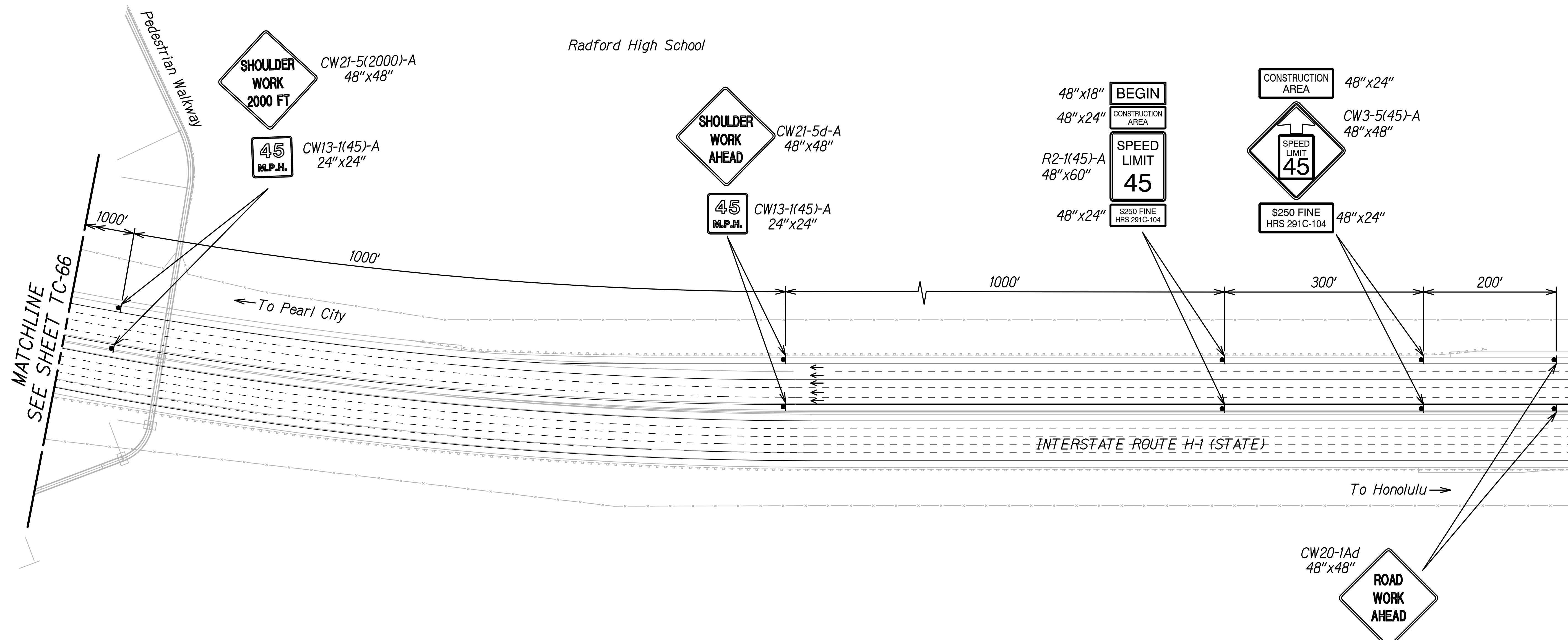
TRAFFIC CONTROL PLAN
PHASE 9C

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	95	175

TRUE NORTH
SCALE: 1" = 80'



MATCHLINE
SEE SHEET TC-66

Legend:
 ◀ Sign
 → Direction of Traffic

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

PAMELA K. UYEDA
LICENSED PROFESSIONAL ENGINEER
No. 10352-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9C

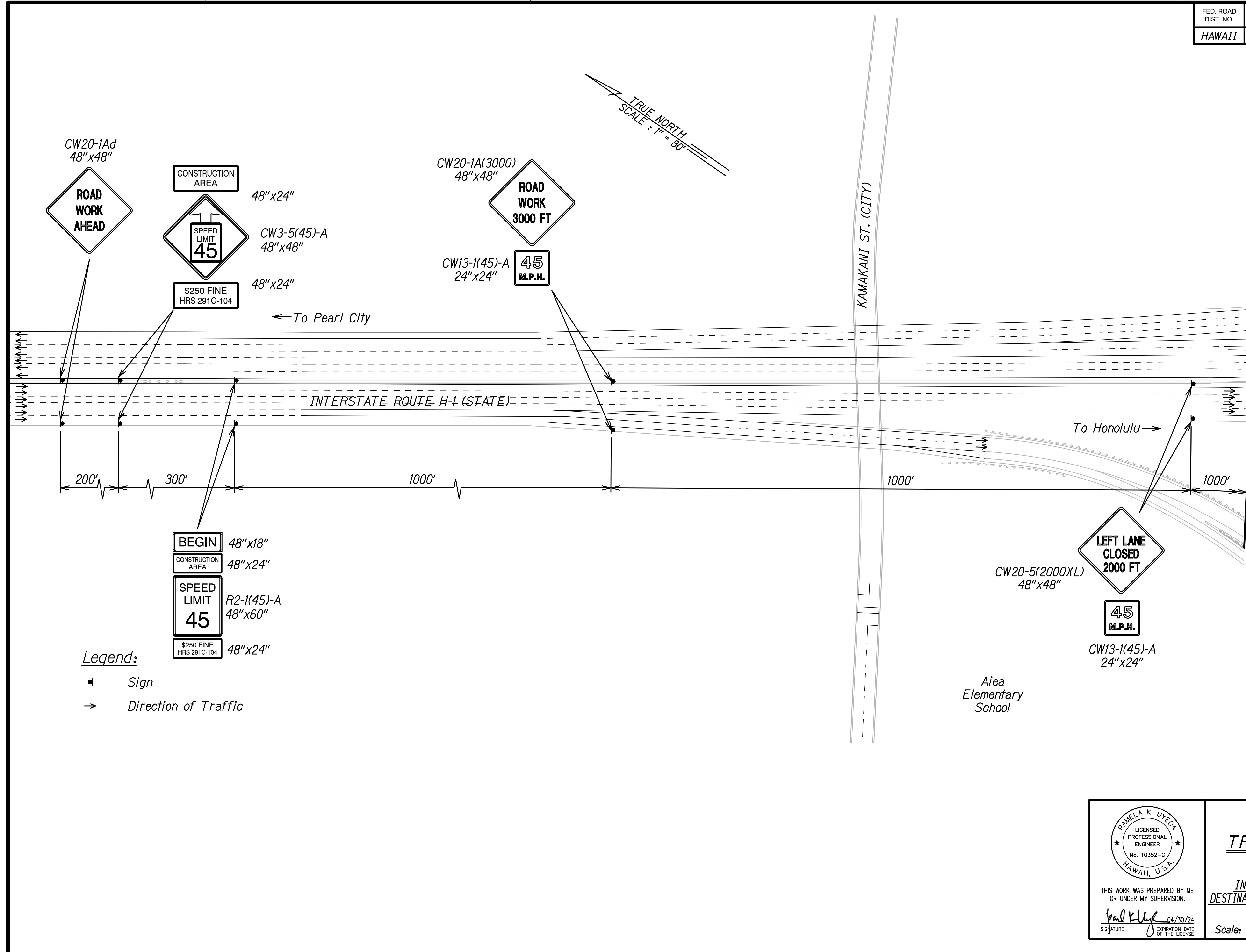
INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

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Signature: *Paul K. King* 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	96	175



Legend:
 ◀ Sign
 → Direction of Traffic

- 48"x18"
- 48"x24"
- R2-1(45)-A 48"x60"
- 48"x24"

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

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Pamela K. Uyeda 04/30/24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

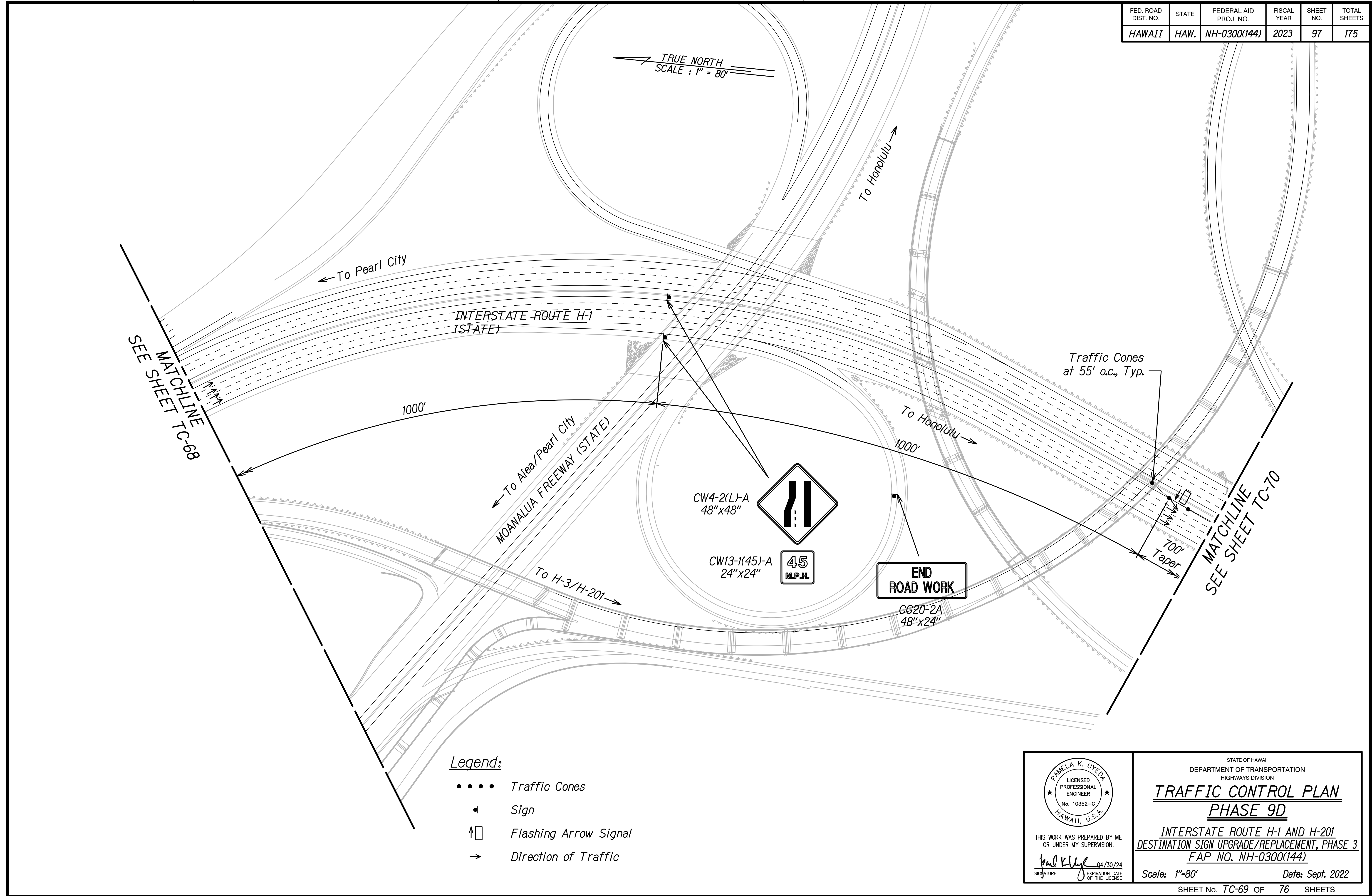
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9D

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	97	175



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

Legend:

- Traffic Cones
- ◀ Sign
- ⬆️ Flashing Arrow Signal
- Direction of Traffic

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

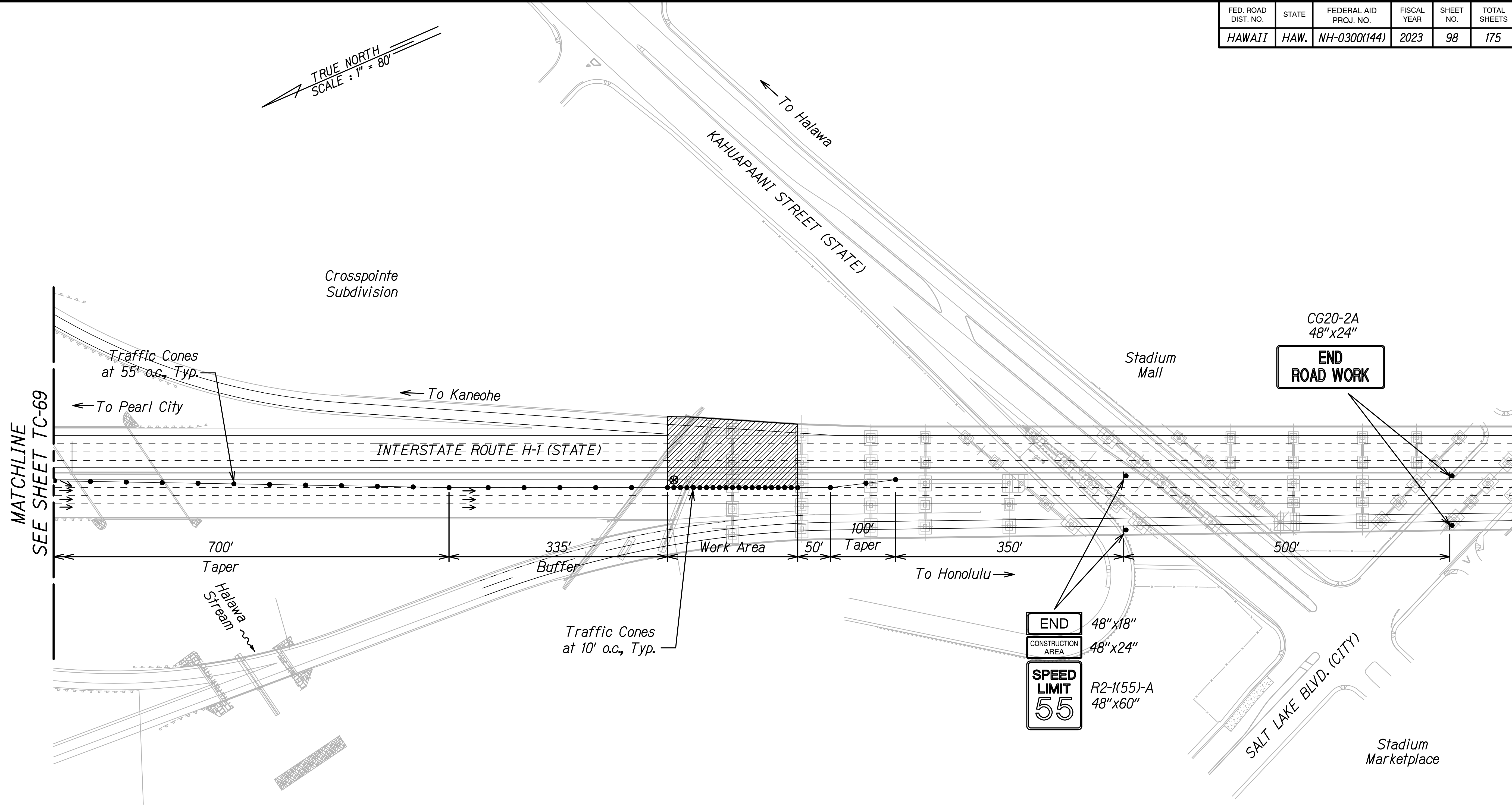
TRAFFIC CONTROL PLAN
PHASE 9D

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

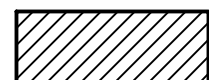


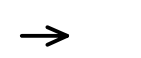

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	98	175

TRUE NORTH
SCALE: 1" = 80'

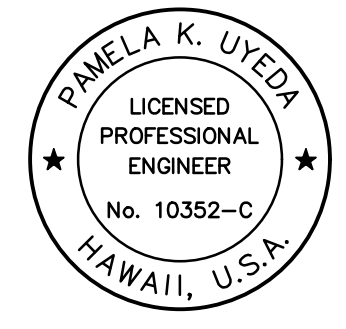


MATCHLINE
SEE SHEET TC-69

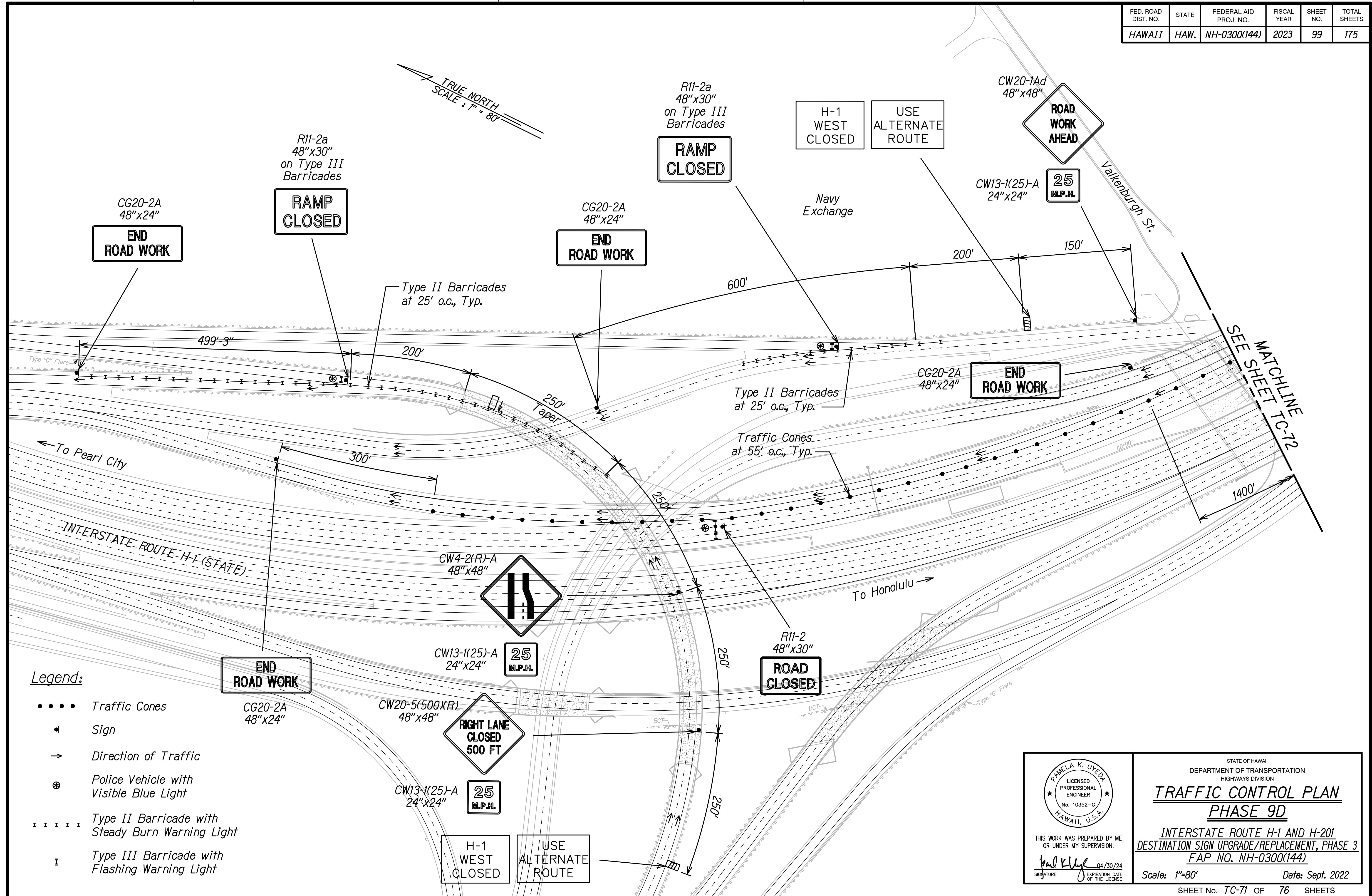
Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Direction of Traffic
-  Police Vehicle with Visible Blue Light

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

 <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.</p> <p><i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE</p>	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>TRAFFIC CONTROL PLAN PHASE 9D</p> <p>INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)</p>
	<p>Scale: 1"=80' Date: Sept. 2022</p>

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	99	175



Legend:

- Traffic Cones
- ▲ Sign
- Direction of Traffic
- ⊗ Police Vehicle with Visible Blue Light
- ||||| Type II Barricade with Steady Burn Warning Light
- I Type III Barricade with Flashing Warning Light

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

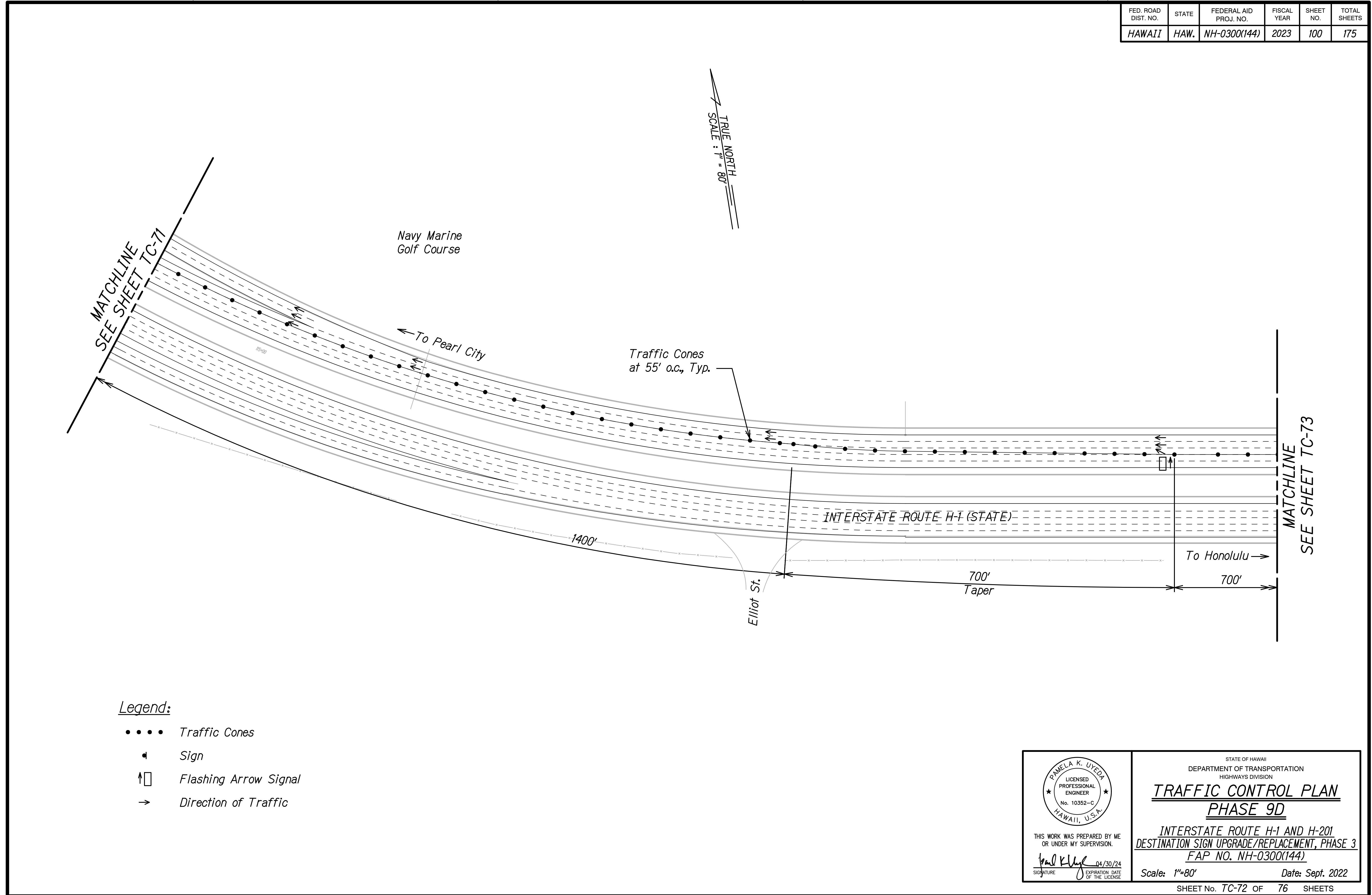
TRAFFIC CONTROL PLAN
PHASE 9D

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

SHEET No. TC-71 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	100	175



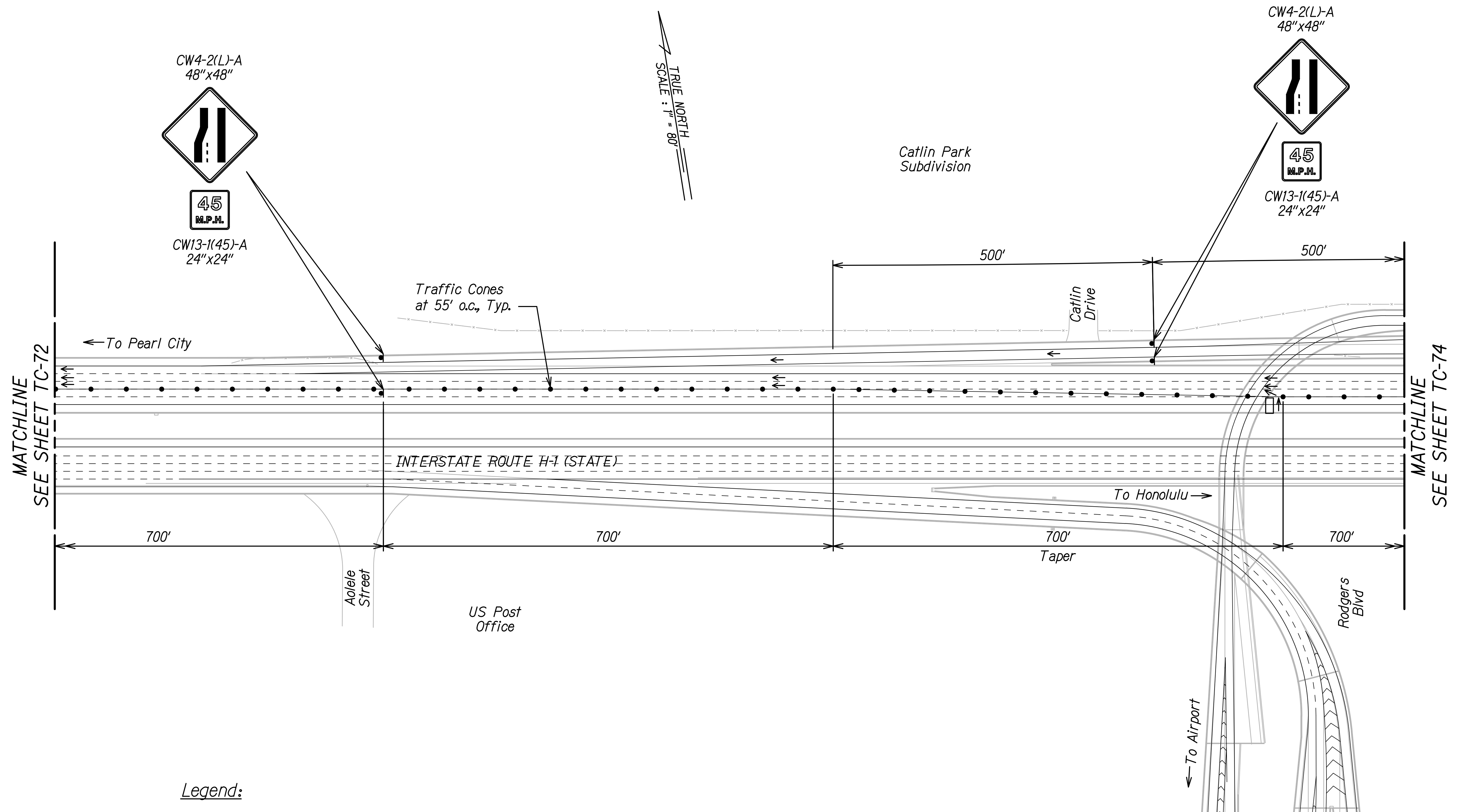
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

Legend:

- Traffic Cones
- ◀ Sign
- ↑ □ Flashing Arrow Signal
- Direction of Traffic

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9D INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 <small>SIGNATURE EXPIRATION DATE OF THE LICENSE</small>	Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	101	175



- Legend:**
- Traffic Cones
 - ◀ Sign
 - ⬆ Flashing Arrow Signal
 - Direction of Traffic

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

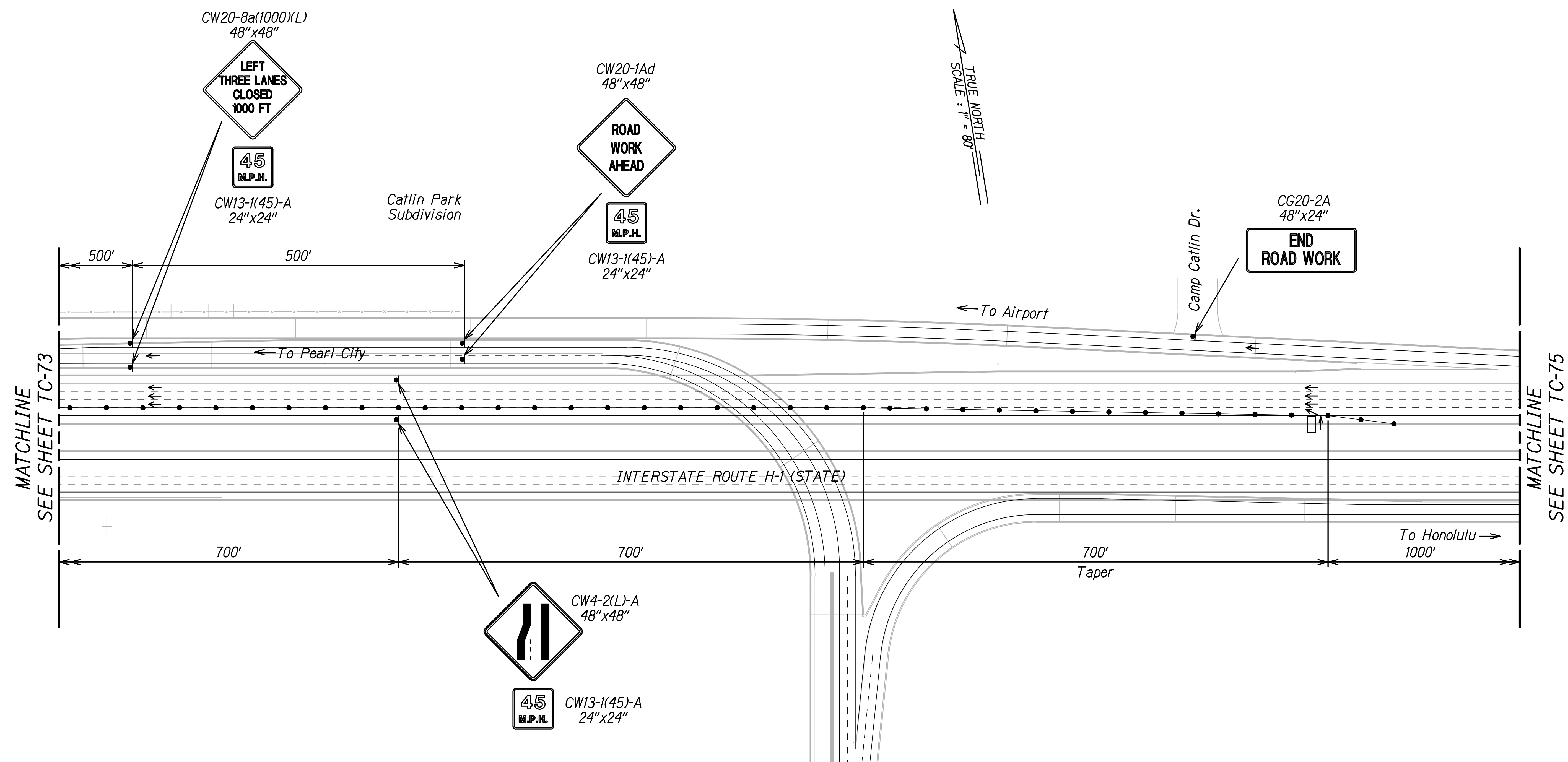
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9D

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	102	175



MATCHLINE
SEE SHEET TC-73

MATCHLINE
SEE SHEET TC-75

- Legend:**
- Traffic Cones
 - ◀ Sign
 - ⬆ Flashing Arrow Signal
 - Direction of Traffic

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

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Pamela K. Uyeda 04/30/24
SIGNATURE EXPIRATION DATE OF THE LICENSE

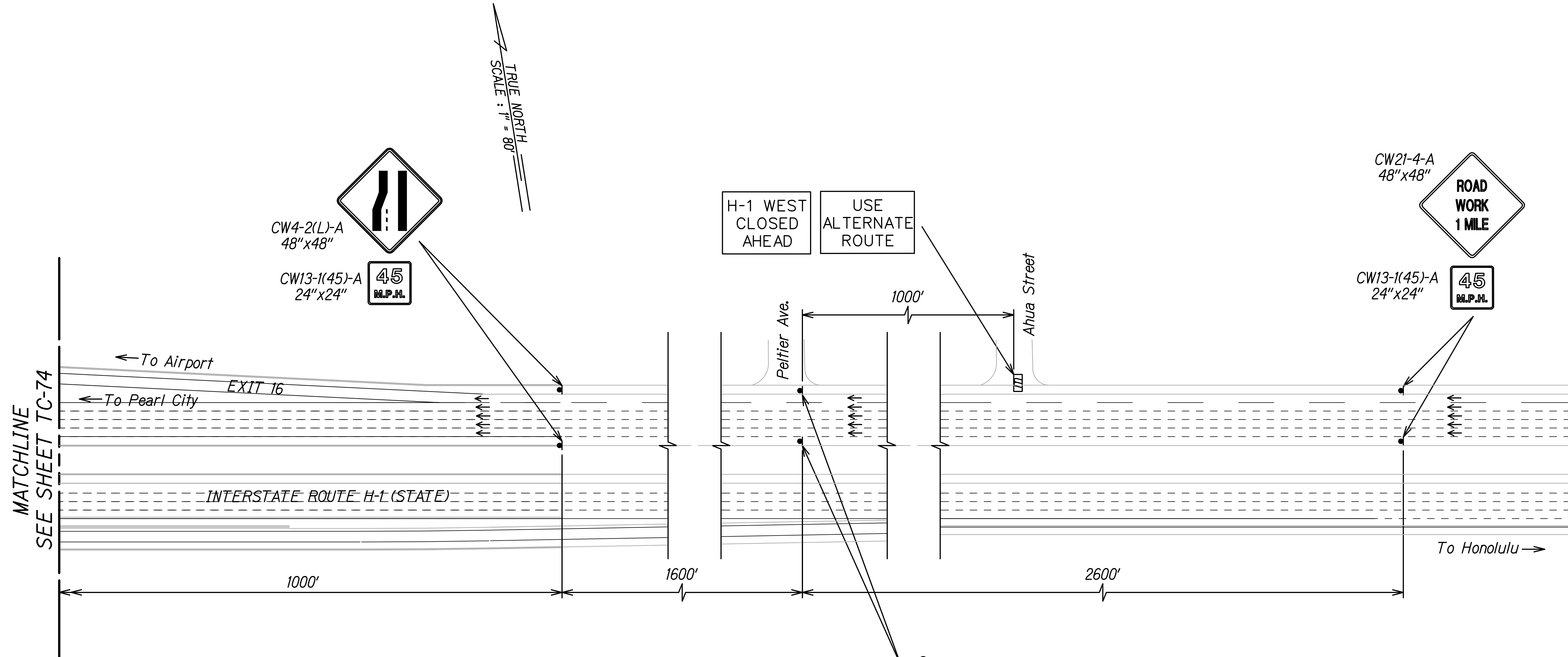
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 9D

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: 1"=80' Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	103	175



TRUE NORTH
SCALE : 1" = 80'

CW4-2(L)-A
48"x48"
CW13-1(45)-A
24"x24"
45
M.P.H.

H-1 WEST
CLOSED
AHEAD
USE
ALTERNATE
ROUTE

CW21-4-A
48"x48"
ROAD
WORK
1 MILE
CW13-1(45)-A
24"x24"
45
M.P.H.

LEFT
THREE LANES
CLOSED
1/2 MILE
CW20-8a(L)
48"x48"
45
M.P.H.
CW13-1(45)-A
24"x24"

MATCHLINE
SEE SHEET TC-74

← To Airport
← To Pearl City
EXIT 16

INTERSTATE ROUTE H-1 (STATE)

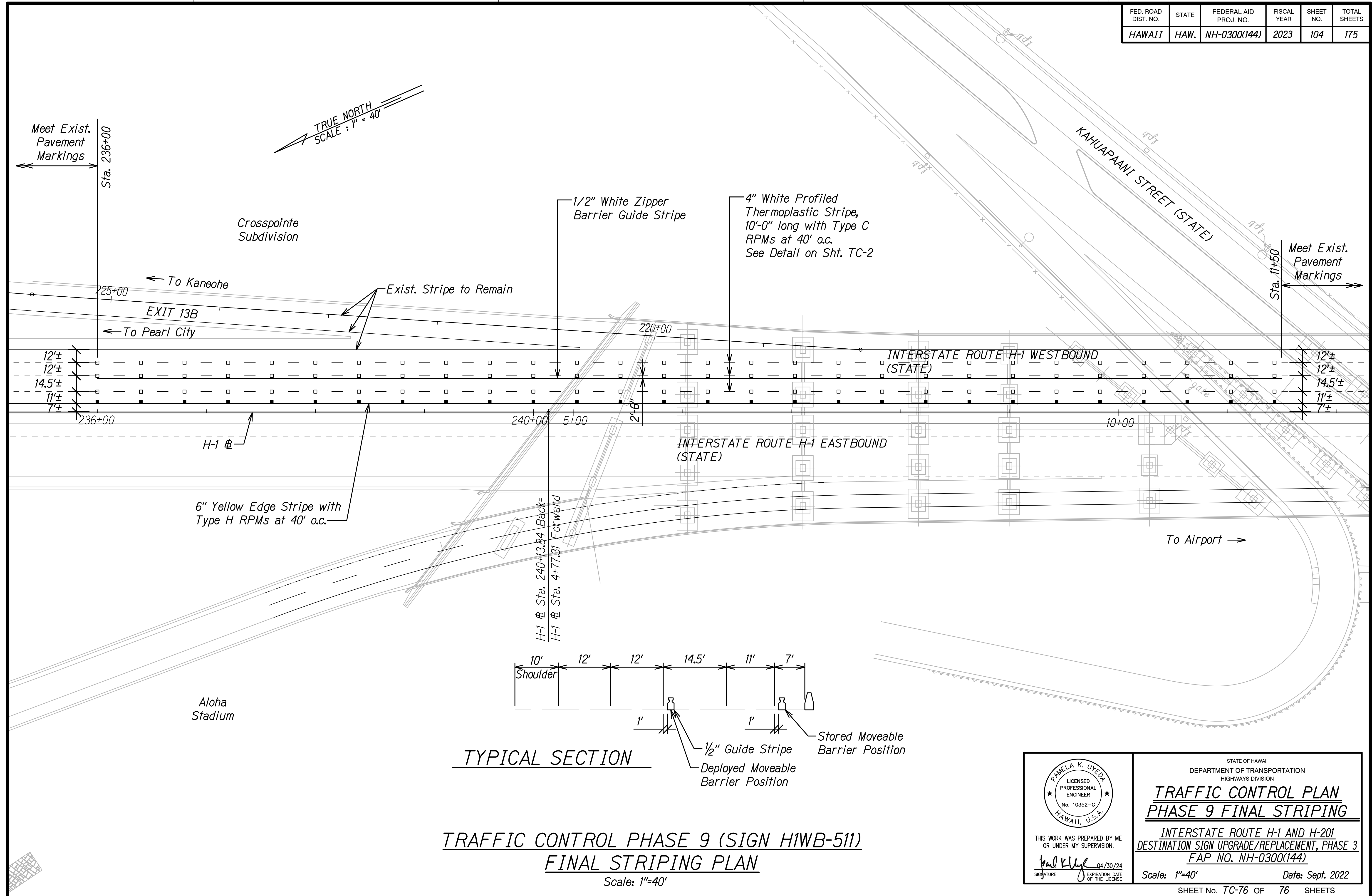
To Honolulu →

Legend:
◄ Sign
→ Direction of Traffic

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

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9D
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Paul K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
Scale: 1"=80'	Date: Sept. 2022

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	104	175



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

TYPICAL SECTION

TRAFFIC CONTROL PHASE 9 (SIGN HIWB-511)

FINAL STRIPING PLAN

Scale: 1"=40'

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	TRAFFIC CONTROL PLAN PHASE 9 FINAL STRIPING
	INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300(144)
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>Pamela K. Uyeda</i> 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE
Scale: 1"=40'	Date: Sept. 2022
SHEET No. TC-76 OF 76 SHEETS	104

STRUCTURAL GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	106	175

1. Standard Specifications and Plans:

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

2. Design Specifications:

- A. 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".
- B. AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1st Edition, including the 2017 Interim Revisions.
- C. HDOT document dated August 8th, 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".

3. General:

- A. Before preparation of shop drawings for the sign support frame structures, the Contractor shall verify in the field the exact location of each anchor bolt and the shelf elevation at the top of pier caps.

4. Wind Loads:

- A. Basic Wind Speed: 130 mph
- B. Recurrence Interval: 1700 years
- C. Fatigue Importance Factor shall be based on Fatigue Category I.
- D. Galloping and natural wind gusts have been considered for cantilevered sign structures.
- E. Natural wind gusts have been considered for all sign structures.
- F. Sign structures have been designed for a truck induced gust based on a truck speed of 20 mph over the posted speed.
- G. An additional 9 square foot sign that is centered 10-feet above finish grade is included in the design.
- H. Railing Test Level: TL-3

5. Steel:

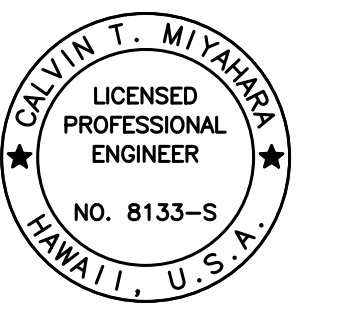
- A. All structural steel shall conform to the following requirements:
 - 1. Plates, splice plates, cover plates, and base plates ASTM A709, fy =36 ksi
 - 2. Angles ASTM A709, fy = 36 ksi
 - 3. Wide Flanges ASTM A709, fy = 50 ksi
 - 4. All others ASTM A709, fy = 36 ksi
- B. All new steel structures shall be ASTM A123 hot-dip zinc galvanized after fabrication. Post-galvanizing quenching/passivation shall not be utilized if steel is going directly to paint. Coordinate with coating Contractor.
- C. Vent holes shall be provided in members for hot-dip zinc galvanized operation. Size and location of holes shall be determined by galvanizing contractor, unless otherwise shown on the drawings. Vent holes shall be included on the structural steel shop drawings. All holes shall be filled with zinc plugs following galvanizing operation.
- D. All shop fabricated holes shall be full-size drilled or sub-punched and reamed.
- E. Plates for columns, cover plates, base plates, angles, HSS tubes, and wide flange sections shall meet the longitudinal Charpy V-Notch requirements for a non-fracture critical member in Zone 1.
- F. Steel plates for columns shall be cut and fabricated so that the primary direction of rolling is parallel to the column length. For splice plates, the direction shall be parallel to the direction of the splice.
- G. Bolts which connect steel to steel shall be high-strength bolts conforming to ASTM F3125. Bolts shall be snug tightened unless otherwise shown on plans. All pretensioned/slip-critical bolts shall utilize Direct Tension Indicating (DTI) washers. Bolts shall be inspected following installation.
- H. Anchor bolts which connect steel to concrete shall be high-strength threaded rods conforming to ASTM F1554, Grade 105 and shall be straight rod with anchor plate details at the end as shown in the contract drawings. Anchor bolts shall be pretensioned by the turn of the nut method. See anchor bolt pretensioning schedule.
- I. New and existing anchor bolts shall utilize a double nut connection with a leveling nut and top nut.
- J. All nuts shall be ASTM A563 heavy-hex and all hardened washers shall be ASTM F436.
- K. Threaded couplers shall be ASTM A194 heavy-hex and capable of developing 125% of the full yield strength of the anchor bolts.

5. Steel (Cont.):

- L. All hardware, including bolts, anchor bolts, nuts, washers, and couplers shall be ASTM A153 hot-dip zinc galvanized. Nut and coupler threads may be chased following the galvanizing process.
- M. All welding shall conform to the latest ANSI/AASHTO/AWS D1.5 Bridge Welding Code. Welding shall be performed in accordance with a Welding Procedure Specification (WPS) and Procedure Qualification Record (PQR) as required in AWS D1.5 and approved by the Engineer. The WPS variables shall be within the parameters established by the filler-metal manufacturer.
- N. All weld sizes are shown in inches.
- O. All welds shall utilize E70XX Electrodes where Shielded Metal Arc Welding is utilized. Where other welding processes are used, filler metal shall have matching strength to base metal.
- P. All welding shall be done in a manner to minimize distortion.
- Q. Field welding shall not be permitted except at field splice locations as shown on the drawings.
- R. Shop welds and field welds shall be identified in the shop drawings.
- S. Fabricate sign structures with camber as specified on the plans. Two post sign structures shall have a smooth parabolic camber.

ORIGINAL PLAN	DATE
DRAWN BY	DATE
DESIGNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 GENNOTES.DWG PLOT TIME: 09-29-22, 4:15 PM



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Calvin T. Miyahara
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: None Date: Sept. 2022

SHEET No. SI.2 OF 5 SHEETS

STRUCTURAL GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	107	175

6. Concrete:

- A. All concrete, other than drilled shafts, shall have a minimum 28-day compressive strength $f'_c = 5000$ psi, maximum W/C ratio of 0.45, and a maximum cementitious material content of 615 (lbs/cyd) unless otherwise noted.
- B. An alkali-resistant glass macro fiber shall be added to the concrete mix. The fiber shall have an aspect ratio of 67 and a length of 1 1/2". The dosage shall be 13 lbs per cubic yard of concrete.
- C. A migrating corrosion inhibitor amine carboxylate water-based admixture shall be added to the concrete mix. The minimum dosage requirement shall be 24 ounces per cubic yard of concrete.
- D. For drilled shaft concrete see Standard Specifications.

7. Steel Reinforcing:

- A. All reinforcing steel shall be ASTM A615 Grade 60 deformed bars unless otherwise noted.
- B. Reinforcing steel shall be ASTM A706 where welded connections are required.
- C. The clear cover, measured from the surface of the concrete to the face of any reinforcing bars shall be as follows, except as otherwise shown.
 - 1). Concrete cast against and permanently exposed to earth = 3" unless otherwise noted
 - 2). All others unless otherwise noted = 2"
- D. Reinforcing bars shall be detailed in accordance with the latest edition of the American Concrete Institute (ACI) Detailing Manual, unless otherwise noted.
- E. Reinforcing bars shall be placed and installed in accordance with the CRSI Manual of Standard Practice and CRSI Placing Reinforcing Bars, unless otherwise noted.
- F. Minimum clear spacing between parallel bars shall be 1 1/2 times the diameter of bars (for non-bundled bars). In no case shall the clear distance between edge of the bars be less than 1 1/2 times the maximum size of the coarse aggregate or 1 1/2", whichever is greater.
- G. All dimensions relating to reinforcing bars are to centers of bars unless otherwise noted.
- H. Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of intersections is less than one foot in each directions, in which case alternate intersections shall be tied.

8. Construction Notes:

- A. The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.
- B. The Contractor shall verify all site conditions and not rely upon these plans for existing dimensions, elevations and azimuths. Roadway location, gutters, curbs and sidewalks, etc., conditions may differ from those shown.
- C. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- D. The Contractor shall verify the location of all utility lines and notify the respective owners before commencing with excavation, and any temporary piling or sheeting.
- E. Except as otherwise noted, all vertical dimensions are measured plumb.
- F. For concrete finish see Standard Specifications.
- G. Construction joints may be relocated or additional ones added subject to the acceptance of the Engineer.
- H. Unless otherwise noted, all exposed concrete edges shall be chamfered 3/4" x 3/4".
- I. The Contractor shall verify the location and size of all existing reinforcing bars prior to drilling.
- J. Epoxy anchoring material shall be an injectable, two-component adhesive that has a current Evaluation Service Report from ICC-ES (International Code Council Evaluation Service Inc.) and has a characteristic bond strength, $\tau_{k,uncr}$, of at least 1,600 psi for a #5 reinforcing bar at Temperature Range A.
- K. Epoxy anchoring adhesive shall be injected into drilled hole using a piston-plug delivery system when installed overhead.
- L. All individuals performing drilled reinforcing dowel work shall hold a current ACI/CRSI Adhesive Anchor Installer certification.
- M. Drilling procedures, equipment, material and certifications shall be submitted to the Engineer for approval.
- N. In no case shall any adhesive anchor be installed closer than 6-inches to any concrete edge or joint unless shown on plans.
- O. All holes drilled into concrete that go unused shall be completely filled with a fast setting, two-component, polymer-modified, non-sag, cementitious patching and repair mortar containing a migratory corrosion inhibitor.
- P. All drilled holes shall have dowels installed within same work shift or shall otherwise be completely filled with a patching and repair mortar.

8. Construction Notes (Cont.):

- Q. Contractor shall follow all Manufacturer's Printed Installation Instructions (MPPI).
- R. Location of drilled holes in existing concrete for reinforcing steel dowels as shown on the plans are approximate. Prior to placing holes in concrete, the Contractor shall locate all reinforcing steel, anchor bolts, thru bolts holes, etc. and adjust the location of the drilled holes to clear all of them. Final hole locations are subject to the acceptance of the Engineer.
- S. Epoxy shall fully cure prior to pouring concrete around reinforcing steel dowels.
- T. All holes shall be hammer drilled using a hollow bit connected to a vacuum system in accordance with a current Evaluation Service Report from ICC-ES.
- U. All demolition work of concrete, unless otherwise explicitly stated, shall be performed using no larger than a 30-lb demolition hammer.
- V. When only portions of concrete are to be demolished the intersections between the demolished concrete and the concrete that are to remain shall have a 1/2-inch deep sawcut around the entire perimeter of the demolished area.
- W. All existing concrete substrate surfaces which new concrete is poured against shall be roughened to a minimum 1/4" amplitude, cleaned, Saturated Surface Dry (SSD), and coated with a 3-part epoxy-modified bonding agent. No water shall be applied to concrete surface following the application of the bonding agent. New concrete shall be poured within the open working time of the bonding agent as required by the manufacturer.
- X. All existing reinforcing shall remain in place unless otherwise noted. Any existing reinforcing damaged during concrete removal that was not permitted to be removed shall be repaired, with approval from the Engineer, at no cost to the State.
- Y. Existing reinforcing that is to be partially removed shall be cut back to provide 2" clear from finish concrete surface.

ORIGINAL PLAN	DATE
DRAWN BY	DATE
DESIGNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

DRAWING NAME: ZA00 ONGONGONG,00, IF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-10-22 BID\0511-50102 GENNOTES.DWG PLOT TIME: 09-29-22, 4:15 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: None Date: Sept. 2022

SHEET No. **SI.3** OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	108	175

8. Construction Notes (Cont.):

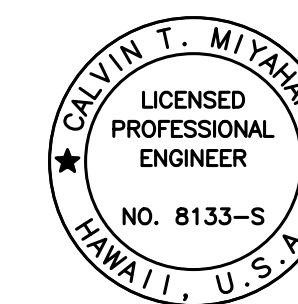
- Z. New concrete surfaces shall match the finish of the existing structure. Any reveals, patterns, or decorative features shall also match the existing structure, unless otherwise noted.
- AA. Aluminum members and dissimilar metals in contact with structural steel shall be isolated with Neoprene material as approved by the Engineer.
- AB. Anchor bolts shall be installed using a template to ensure proper layout. Anchor bolts shall be installed with misalignments of less than 1:40 from vertical. After installation, firm contact shall exist between the anchor bolt nuts, washers, and base plate on any anchor bolt installed in a misaligned position.
- AC. New roadway signs shall be installed before existing signs are removed. Existing roadway signs shall be removed immediately after new signs are installed.
- AD. Existing pavement, concrete, riprap, etc. shall be restored to its original condition after completion of work.
- AE. All attachments on the sign structures shall be considered as part of the sign structure and its removal will not be paid for separately.
- AF. Existing sign structures HIEBR-253, 78EBR-830, and HIWB-511 are believed to contain lead-based paint in excess of 5000 PPM as defined by the U.S. Environmental Protection Agency (EPA). See Special Provisions Section 695 for removal and disposal requirements.
- AG. Existing sign structures HIEB-305 and HIWB-505 are believed to contain lead-containing paint below the 5000 PPM concentration threshold.
- AH. The Contractor is responsible for conducting work in accordance with 29 CFR 1926.62 OSHA Lead Construction Standard including an air monitoring assessment during lead paint disturbance if necessary.
- AI. The Contractor is responsible for conducting their own independent paint chip sampling of the existing sign structures to identify the presence, extent, and condition of existing paint suspected of containing lead.

9. Paint:

- A. New sign structures shall be hot-dip zinc galvanized prior to being painted with an epoxy or urethane intermediate and a highly weatherable Fluoropolymer top coat.
- B. Sign structures shall be painted at an offsite location approved by the Engineer. Only touch up painting shall be allowed at the construction site.
- C. Finish color shall be Dark Green.
- D. See Special Provisions for further coating requirements including surface preparation and stripecoating.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
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DRAWING NAME: ZA:00:ONGONG:00:IF:PROJECTS:16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\DSH1-50102 GENNOTES.DWG PLOT TIME: 09-29-22, 4:15 PM



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Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

**INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)**

Scale: None Date: Sept. 2022

SHEET No. *SI.4* OF 5 SHEETS

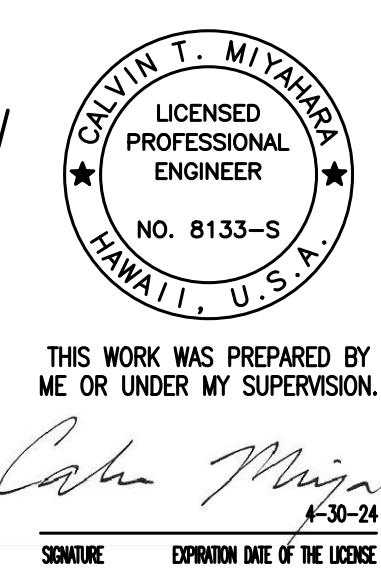
SYMBOLS AND ABBREVIATIONS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	109	175

∅	And	Dia.	Diameter	GFRP	Glass Fiber Reinforced	OB	Outbound		
@	At	Diaph.	Diaphragm		Polymer Rebar	OD	Outside Diameter	Struct.	Structure
∅	Diameter	Dim.	Dimension	Gr.	Grade	OG	Outside Girder,	SE	Super Elevation
≥	Greater Than or Equal to	Dist.	Distance	Grd.	Ground		Outbound Girder	Symm.	Symmetrical
≤	Less Than or Equal to	DO	Ditto	GRP	Grouted Rubble Pavement				
#	Number	Dwls.	Dowels			Perf.	Perforated	Tan.	Tangent
		Dn.	Down	Ht.	Height	PL	Plate	TC	Continuity Tendons
Abut.	Abutment	Dbl.	Double	(H)	Hinge	PCC	Portland Cement Concrete	Temp.	Temporary
Abbr.	Abbreviation	DI	Drain Inlet, Ductile Iron	Horiz., H	Horizontal	PC	Point of Curvature	TD	Deck Tendon
Add.	Additional	Dwg., Dwgs.	Drawing, Drawings	HDOT	State of Hawaii Department of Transportation	PCF	Pounds per Cubic Foot	Thk.	Thick
Alt.	Alternate	DS	Drilled Shaft			P(e)	Effective Prestress Force	T	Top
AB	Anchor Bolt			HDPE	High Density Polyethylene		After All Losses	T∅B	Top and Bottom
AC	Asphaltic Concrete	E	East	HS	High strength	PPM	Parts Per Million	TCE	Top of Column
Approx.	Approximate	EA, Ea., ea.	Each	HECO	Hawaiian Electric Company	PSF	Pounds per Square Foot		(and Bent Cap Soffit) Elevation
Az.	Azimuth	EF	Each Face			PSI, psi	Pounds per Square Inch	TOD	Top of Deck
		EFH	Each Face Horizontal	IB	Inbound	PLF	Pounds per Linear Foot	TOP	Top of Pier
Bk.	Back	EFV	Each Face Vertical	In.	Inch	PI	Point of Intersection	TFE	Top of Footing Elevation
Bal.	Balance	EW	Each Way	ID	Inside Diameter		of Tangents	Tot.	Total
B	Baseline	EPE	Existing Edge of Pavement	IF	Inside Face	PIVC	Point of Intersection of Vertical Curve	Transv.	Transverse
Bm.	Beam	EPS	Expanded Polystyrene	Int.	Interior			TS	Structural Tubing
Brg., Brgs.	Bearing, Bearings	ES	Edge of Shoulder	Inv.	Invert	PT	Point of Tangency	TSS	Tendon For Girder in Simply Supported Condition
BVC	Beginning of Vertical Curve	Elec.	Electrical			Pt., Pts.	Point, Points	Typ.	Typical
Bet.	Between	EMH	Electrical Manhole	JBPHH	Joint Base Pearl Harbor-Hickam	PRC	Point of Reverse Curvature		
BF	Both Faces	EI, Elev.	Elevation	Jt.	Joint	PVC	Polyvinyl Chloride	Undergrd.	Underground
BW	Both Ways	Emb.	Embankment			Prestr.	Prestressed		
BFE	Bottom of Footing Elevation	EVC	End of Vertical Curve	K	Kips	P/S	Prestressed Strands		
Bot., Bott., B	Bottom	Eq.	Equal	KF	Kip Foot	PB	Pull Box	Var.	Varies
BQF	Bottom of Footing	Est.	Estimated	KSF	Kips Per Square Foot			Vert., V	Vertical
Br.	Bridge	Exc.	Excavation	KSI	Kips Per Square Inch	Rad., R	Radius	VC	Vertical Curve
Blt.	Bolt	Excl.	Excluding	KLF	Kips Per Linear Foot	RF	Rear Face	VESLMC	Very Early Strength Latex Modified Concrete
		Exist., Ex.	Existing			Rebar	Reinforcing Bar		
Cant.	Cantilever	Exp., (E)	Expansion	L	Length	Ref.	Reference	W/C	Water/Cement
CIP	Cast Iron Pipe	EJ	Expansion Joint	lb., lbs., LBS.	Pound, Pounds	Reinf.	Reinforced, Reinforcing, Reinforcement	w/	With
CL	Center line	Ext.	Exterior	LLV	Long Leg Vertical			W	West
CG	Center of Gravity			Ltg. Std.	Lighting Standard	Req'd.	Required	WWF	Welded Wire Fabric
cc	Center to Center	(F)	Fixed	LF, Lin. Ft.	Linear Feet/Foot	Ret.	Retaining	WW	Wingwall
CFCW	Continuous Flashing Compound Waterproofing	FA	Force account	LS	Lump Sum	ROW	Right of Way	WP	Work Point, Working Point
		FB	Flat Bar	Longit.	Longitudinal	Rdwy.	Roadway	WS	Water Surface
Cl.	Class	FC	Compression Stresses			Sect.	Section		
Clr.	Clearance	f'c	Specified Compressive Strength of Concrete at 28 days	M	Modified	SRW	Segmental Retaining Wall	Yr.	Year
CO	Clean Out			MH	Manhole	Sht.	Sheet		
Col.	Column	f'ci	Specified Compressive Strength of Concrete at Time of Initial Prestress	Max.	Maximum	Sim.	Similar		
Conc.	Concrete			Mech.	Mechanical	Sl.	Slope		
CBW	Concrete Barrier Wall	FF	Far Face, Front Face	Min.	Minimum	S	South		
CMU	Concrete Masonry Unit	Fig.	Figure	Misc.	Miscellaneous	Spc., Spg.	Spaces, Spacing		
Conn.	Connection	Fin. Gr.	Finish Grade	MPH	Miles Per Hour	Sprd.	Spread		
Const.	Construction	FRP	Fiberglass Reinforced Plastic	NF	Near Face	Spec.	Specification		
CJ	Construction Joint	FT	Tensile Stresses	N	North	SF	Square Feet		
Cntl. Jt.	Control Joint	Ftg.	Footing	NIC	Not in Contract	SY	Square Yard		
CLSM	Controlled Low Strength Material	Ft.	Feet, Foot	No.	Number	SS	Stainless Steel		
				NTS	Not to Scale	Std.	Standard		
Cont.	Continuous	Ga.	Gage, Gauge			Sta.	Station		
CSL	Crosshole Sonic Log	Galv.	Galvanized	O/S	Offset	Stiff.	Stiffener		
CF	Cubic Feet	G, Gir.	Girder	oc	On Center	Stirr.	Stirrup		
CY, Cu. Yd.	Cubic Yard	GDI	Grated Drain Inlet	Opn'g	Opening	Stl.	Steel		
						Str.	Straight		

DATE: _____
 SURVEY PLOTTED BY: _____
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 TRACED BY: _____
 DESIGNED BY: _____
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DRAWING NAME: ZA 00 ONGONGA 00 IF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID 0511-50105 SYMA4BBRVDWG PLOT TIME: 09-29-22 4:16 PM



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

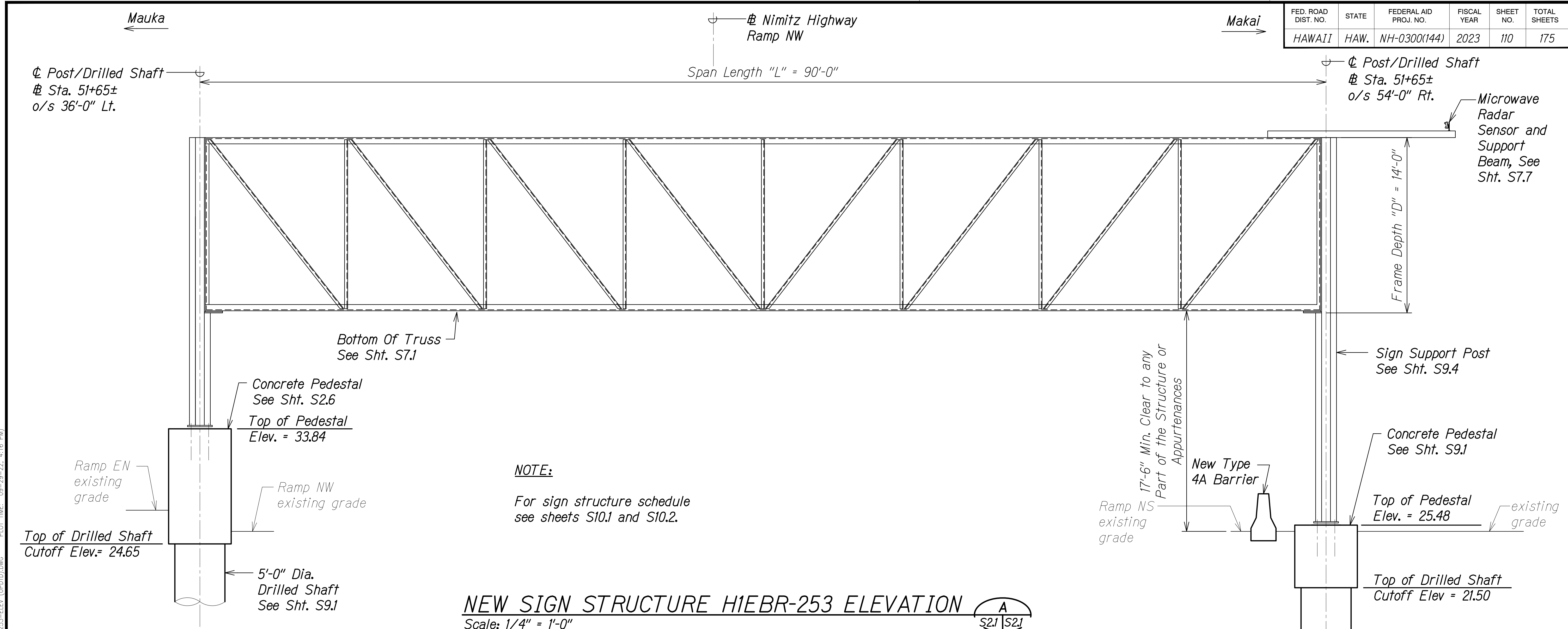
SYMBOLS AND ABBREVIATIONS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: None Date: Sept. 2022

SHEET No. *SI.5* OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	110	175



EXISTING SIGN STRUCTURE HIEBR-253

ORIGINAL PLAN	DATE
NOTE BOOK	
No.	

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22_BID\DS11-50201_HIEBR-253-ELEV (UPD1).DWG PLOT TIME: 09-29-22, 4:16 PM



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Calvin Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

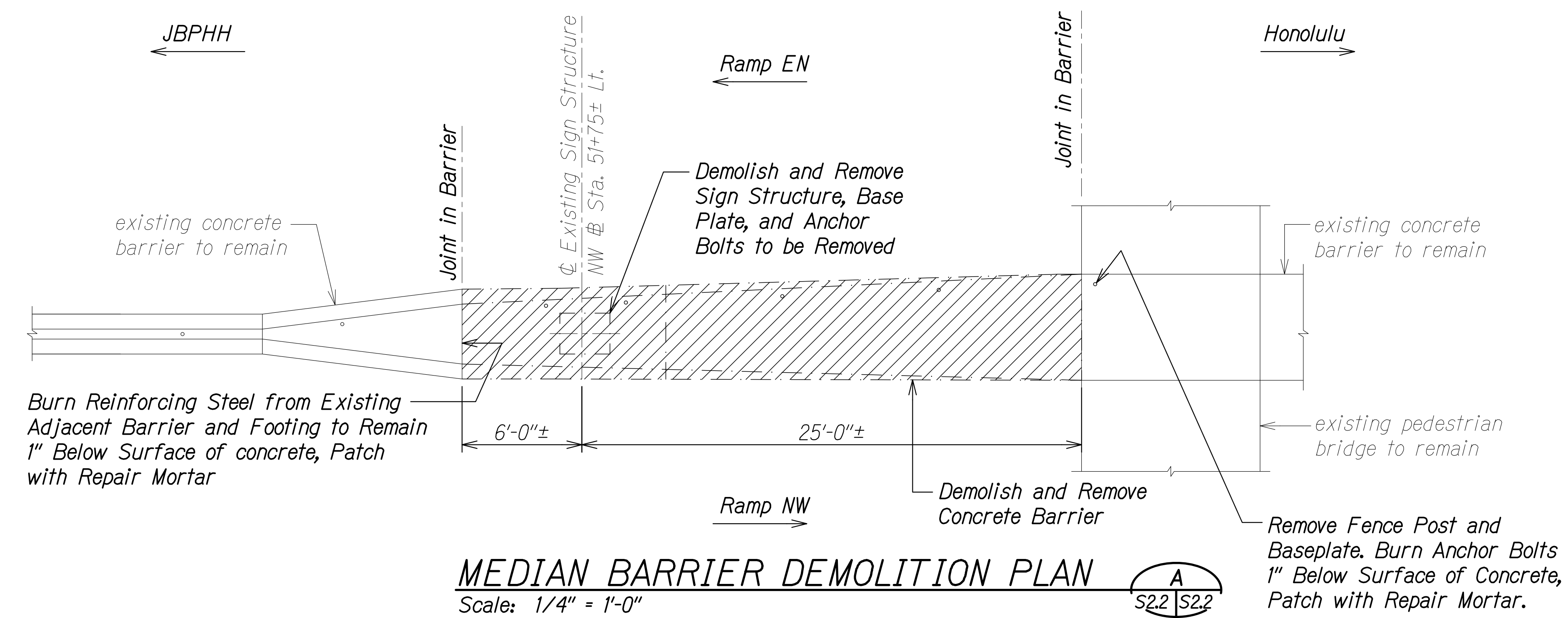
**SIGN STRUCTURE
HIEBR-253 ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

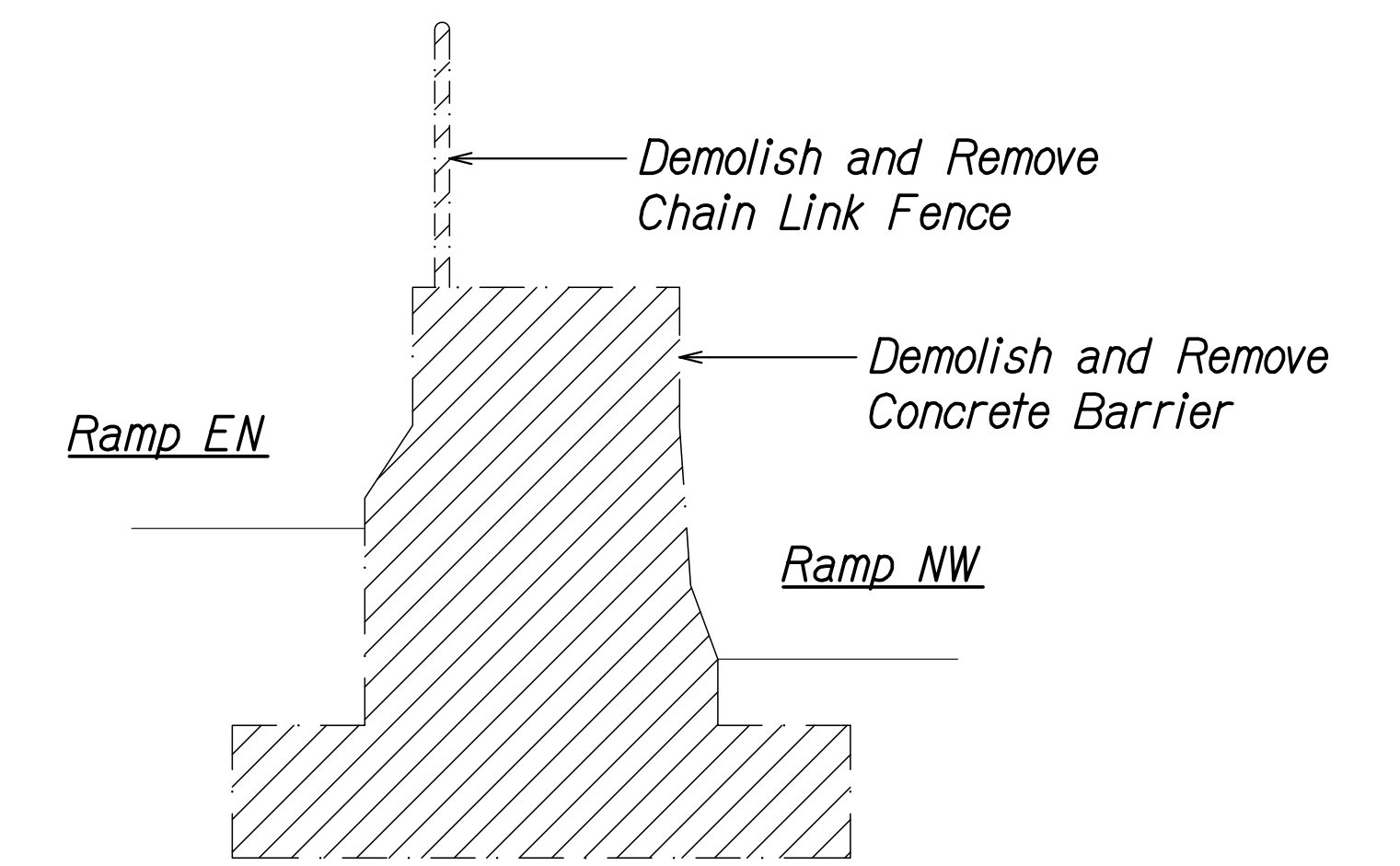
SHEET No. S21 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	111	175

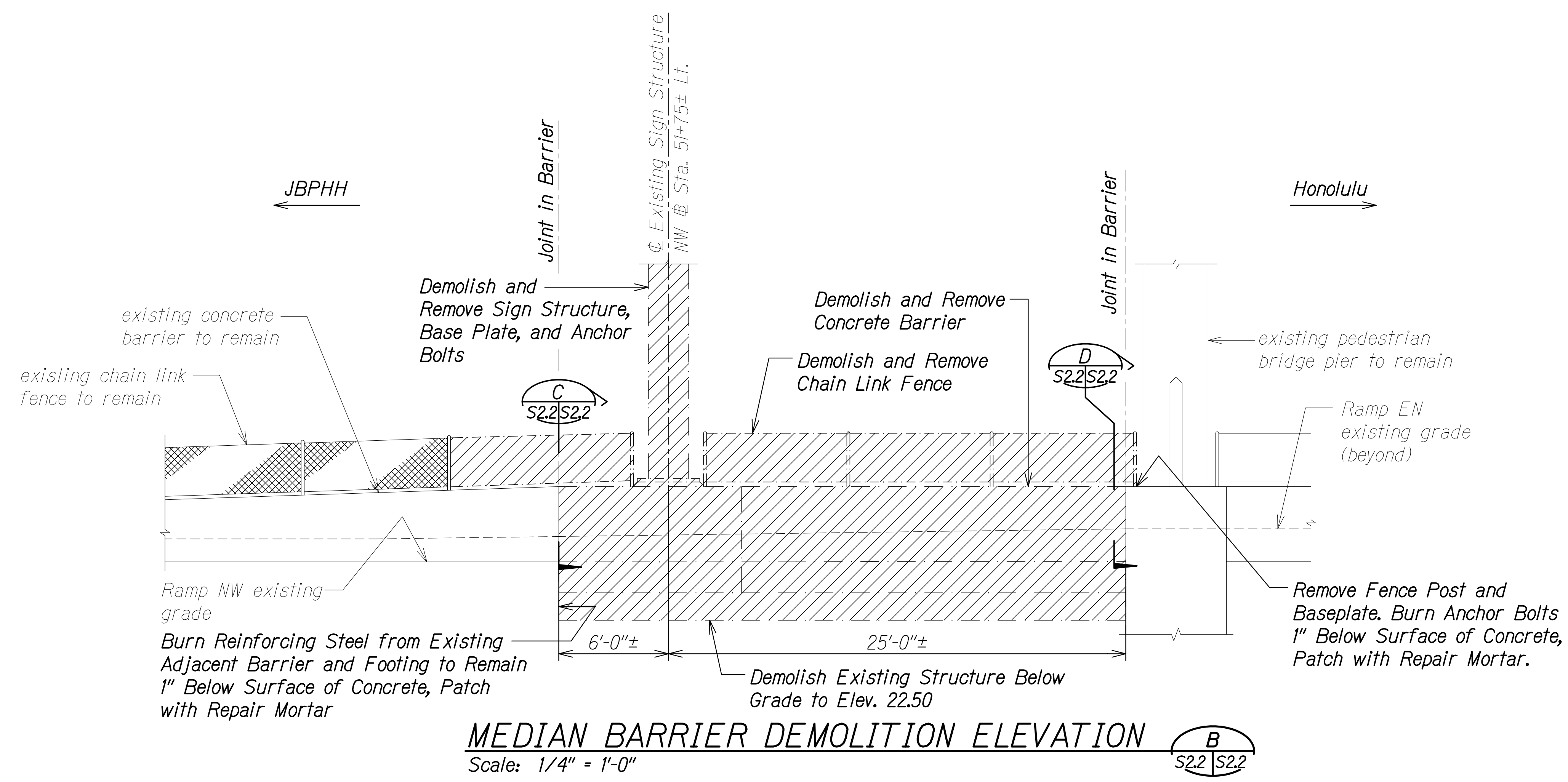


MEDIAN BARRIER DEMOLITION PLAN
 Scale: 1/4" = 1'-0"
 A S2.2 | S2.2

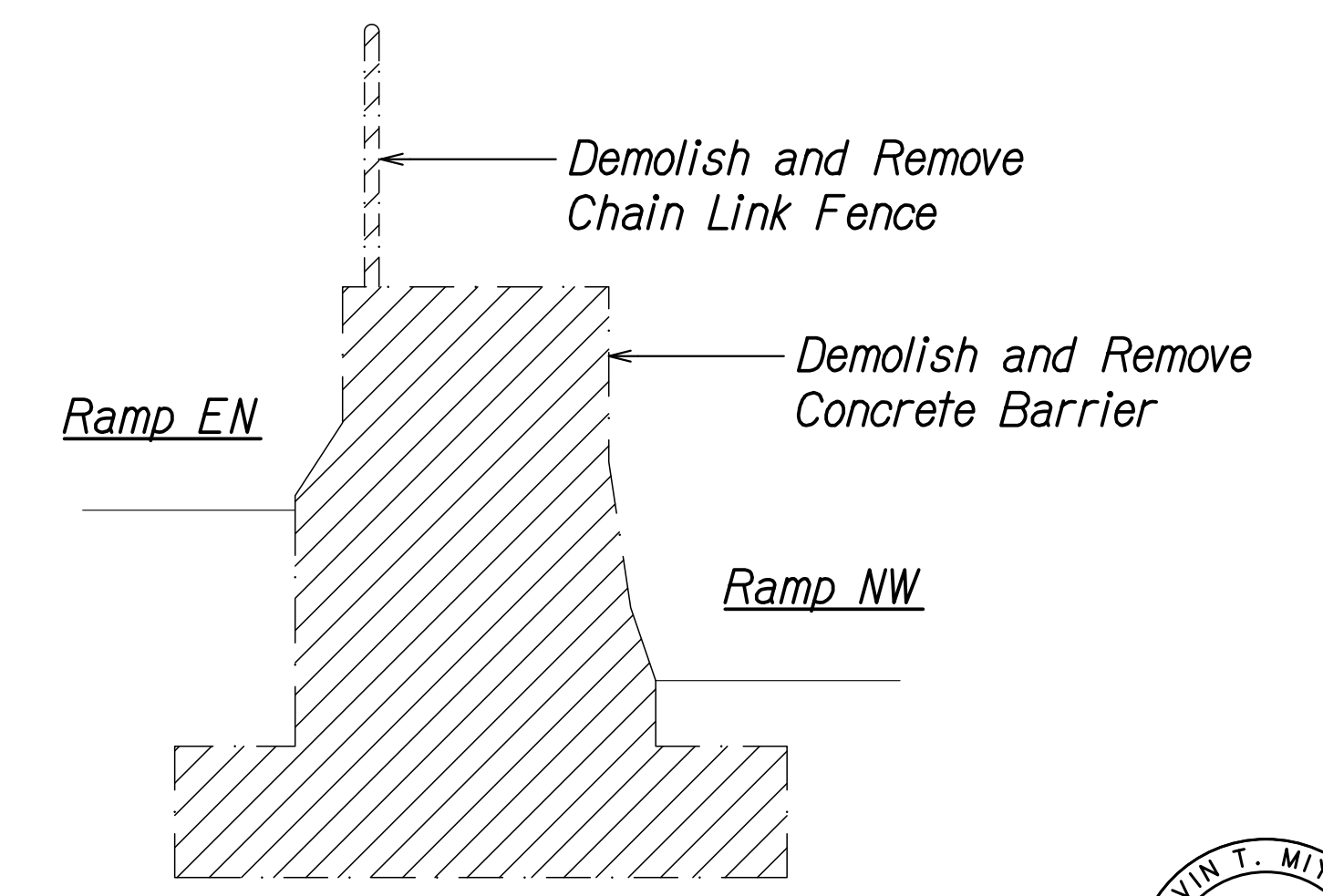
LEGEND:
 Demolish and Remove



MEDIAN BARRIER DEMOLITION SECTION C
 Scale: 3/4" = 1'-0"
 C S2.2 | S2.2



MEDIAN BARRIER DEMOLITION ELEVATION
 Scale: 1/4" = 1'-0"
 B S2.2 | S2.2



MEDIAN BARRIER DEMOLITION SECTION D
 Scale: 3/4" = 1'-0"
 D S2.2 | S2.2

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

DRAWING NAME: ZA 00 ONGOING 00 OF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID 0511-50202 HIEBR-253-DEMO ELEV.DWG PLOT TIME: 09-29-22, 4:18 PM



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

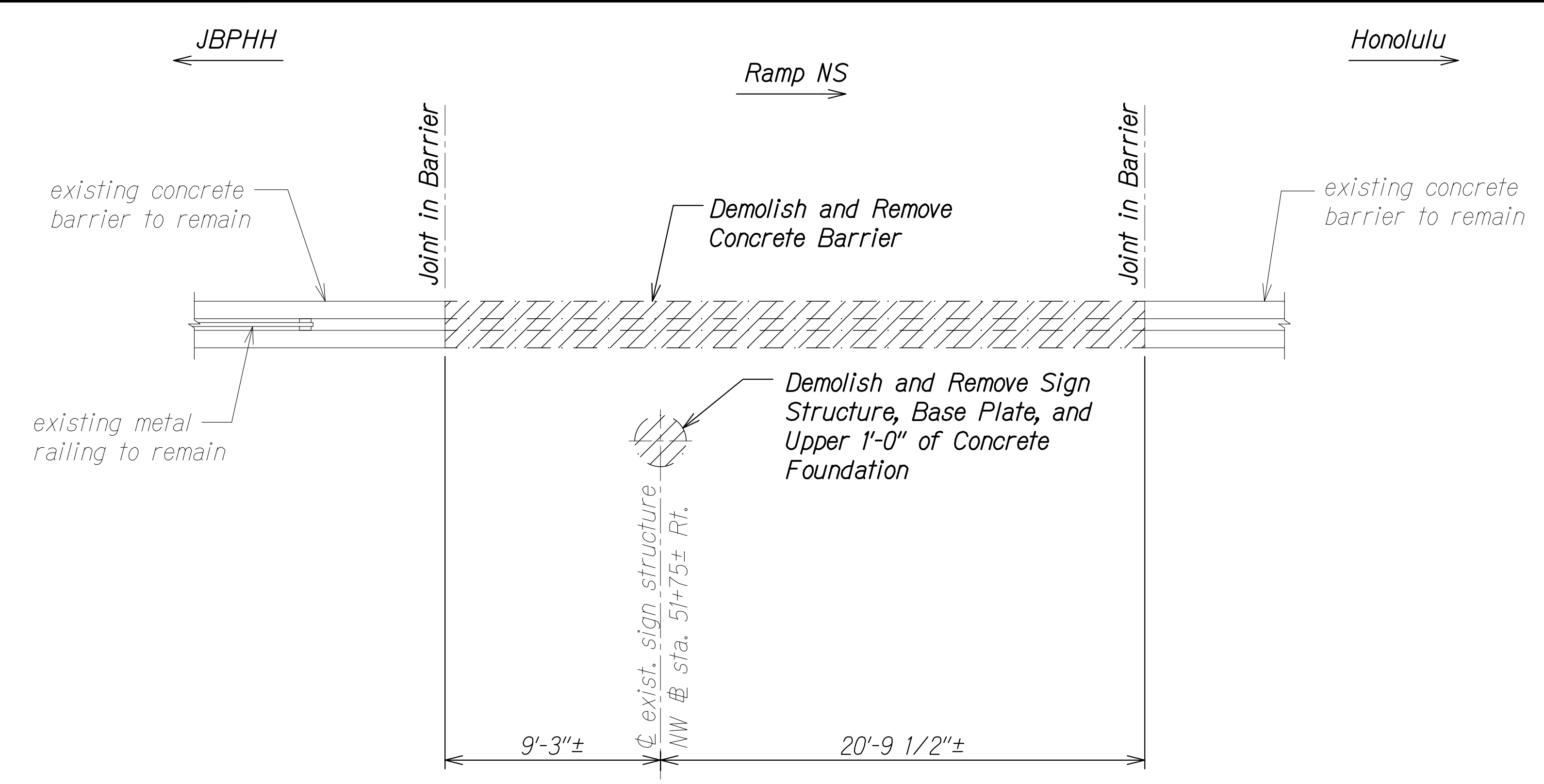
**SIGN STRUCTURE - HIEBR-253
 BARRIER DEMO. PLAN, ELEV., AND SECTS.**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

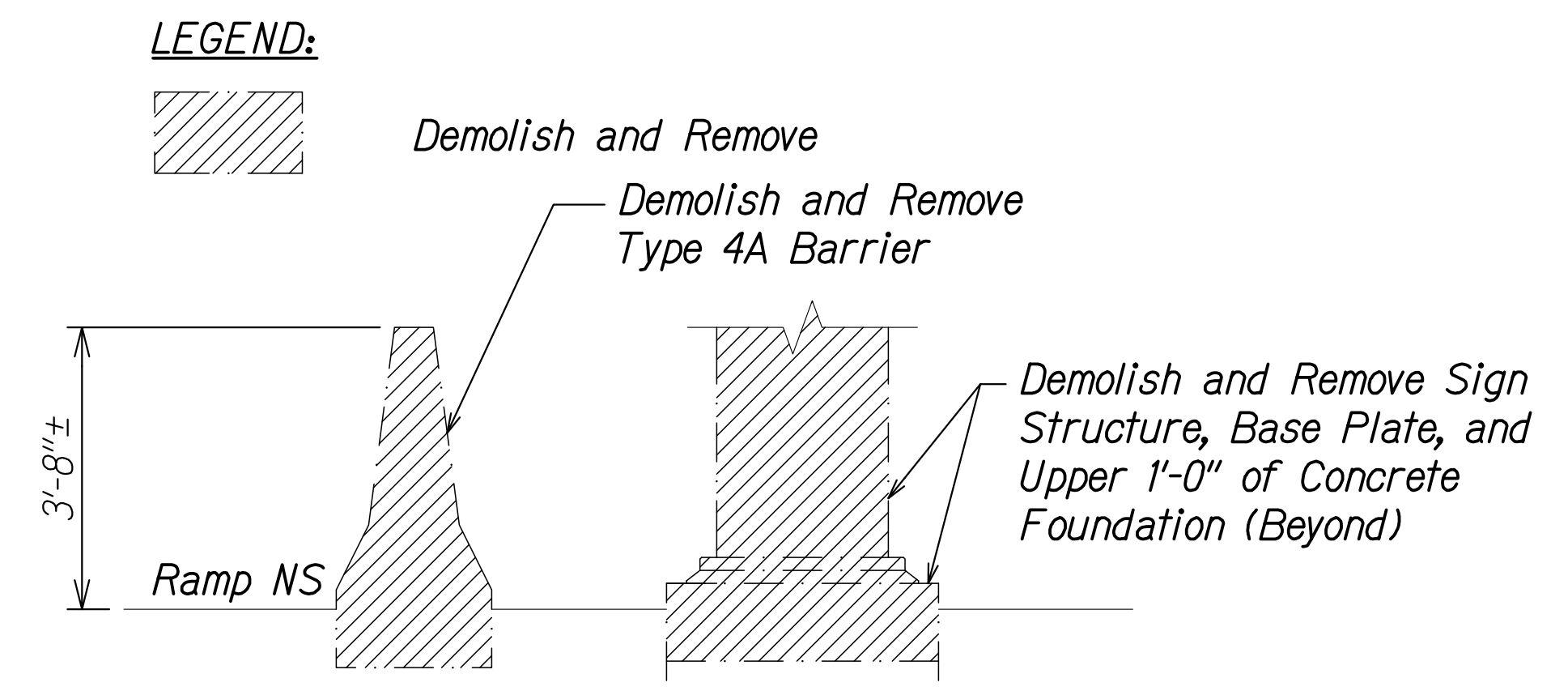
Scale: As Noted Date: Sept. 2022

SHEET No. S2.2 OF 9 SHEETS

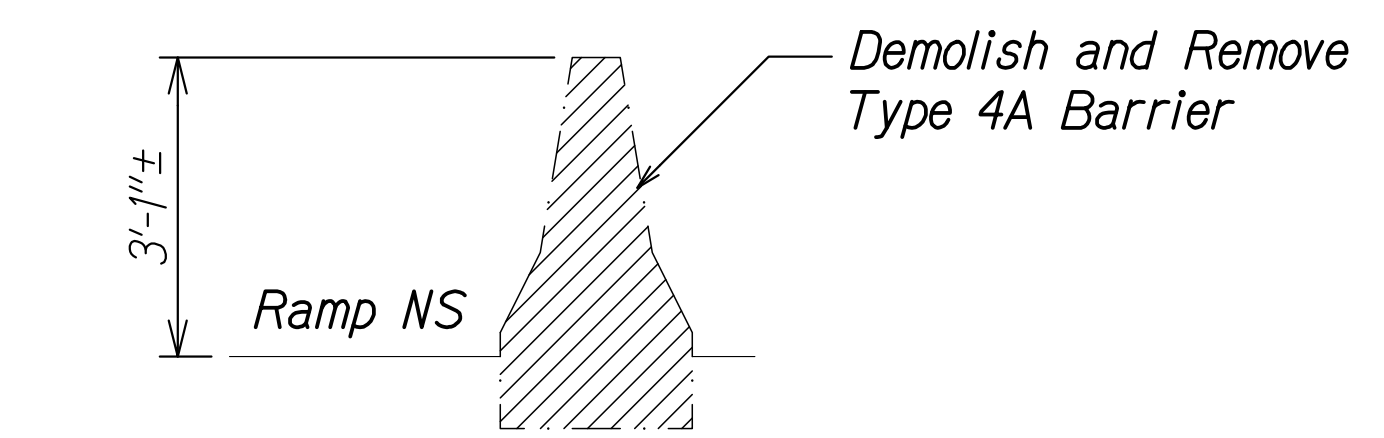
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	112	175



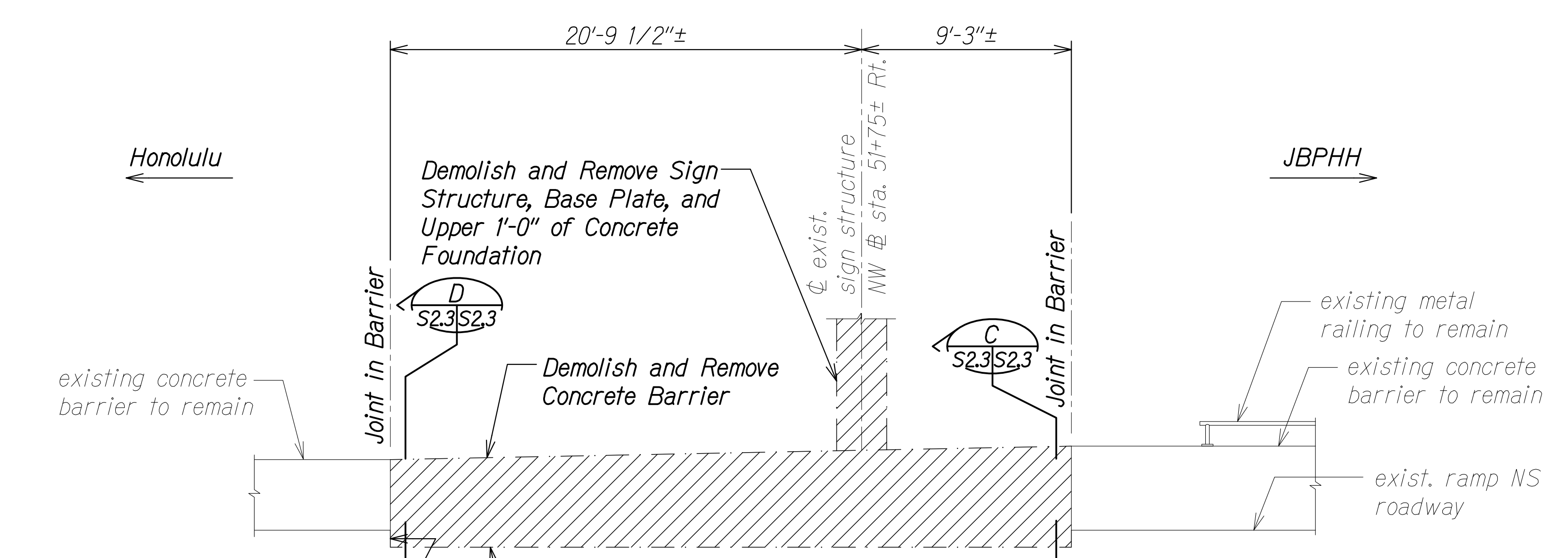
BARRIER DEMOLITION PLAN
Scale: 1/4" = 1'-0"
A S2.3 | S2.3



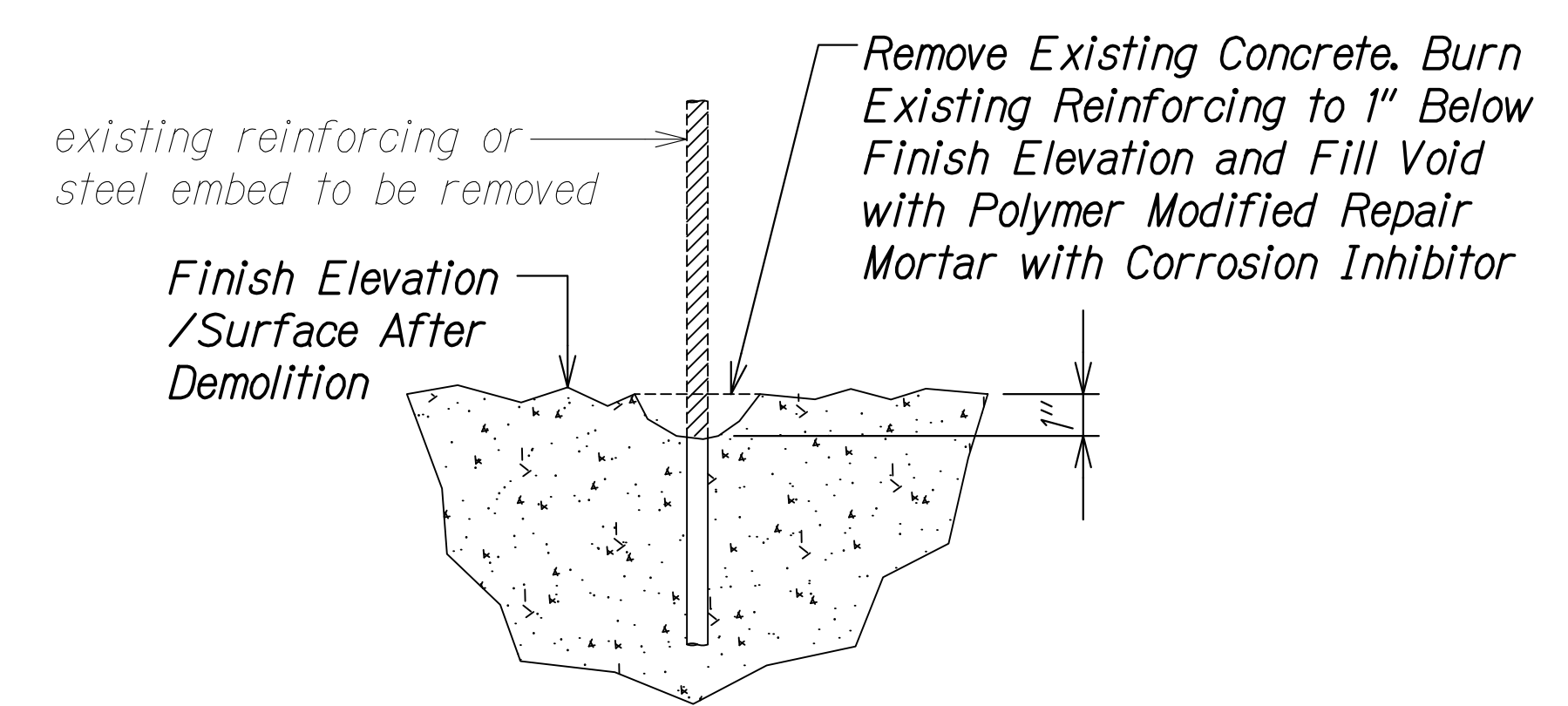
BARRIER DEMOLITION SECTION C
Scale: 1/2" = 1'-0"
S2.3 | S2.3



BARRIER DEMOLITION SECTION D
Scale: 1/2" = 1'-0"
S2.3 | S2.3



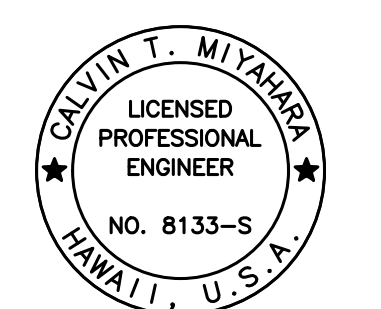
BARRIER DEMOLITION ELEVATION
Scale: 1/4" = 1'-0"
B S2.3 | S2.3



REINFORCING REMOVAL DETAIL A
Scale: 3" = 1'-0"
S2.3 | S2.3

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: ZA 00 ONGONGONG OF PROJECTS 16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50203 HIEBR-253-BARR DEMOLING PLOT TIME: 09-29-22, 4:18 PM



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Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

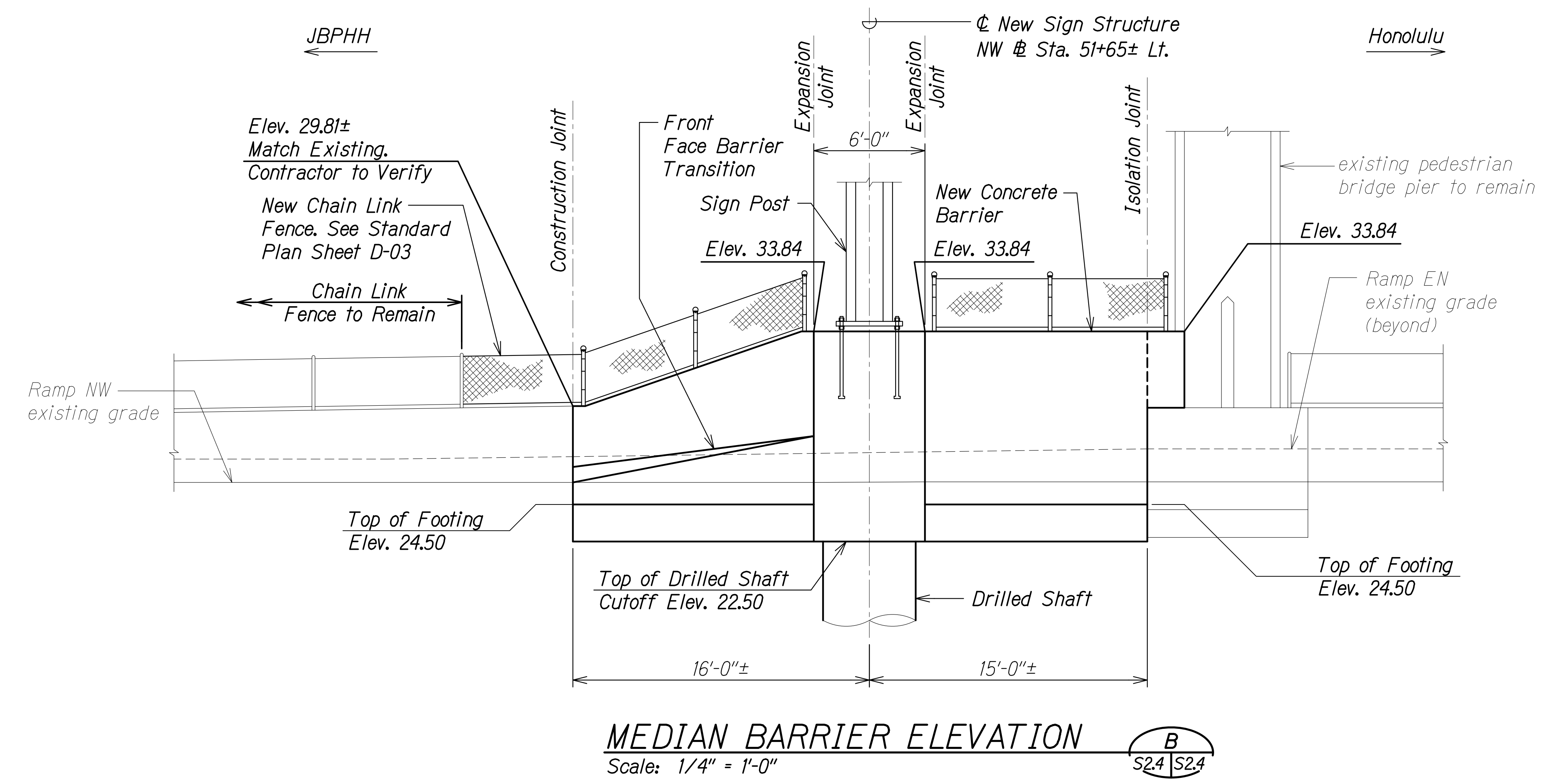
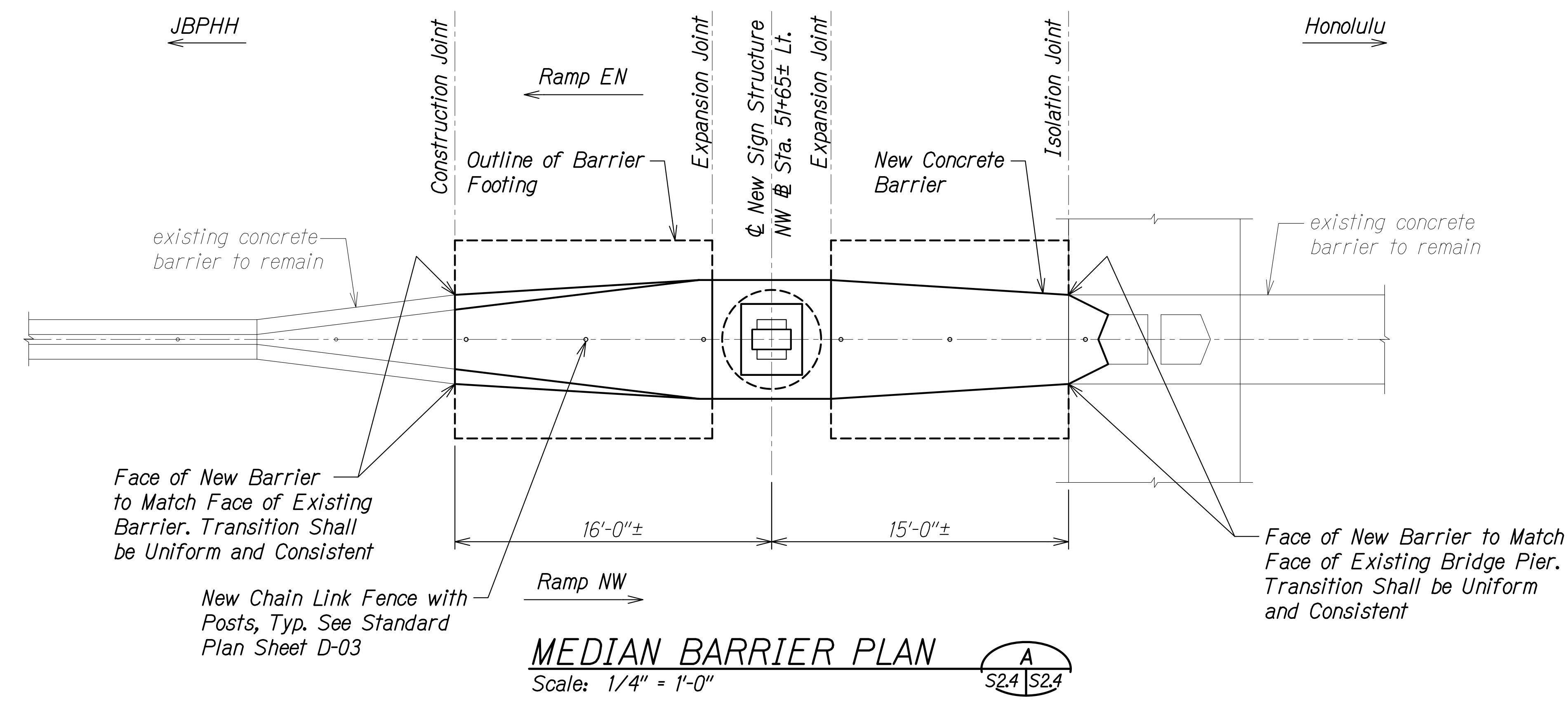
**SIGN STRUCTURE HIEBR-253
BARRIER DEMO. PLAN, ELEV., AND SECTS.**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

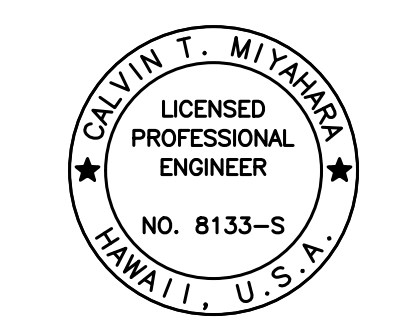
SHEET No. S2.3 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	113	175



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50204 HIEBR-253-REP ELEV (UPDTD).DWG PLOT TIME: 09-29-22, 4:19 PM



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Calvin Miyakawa
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

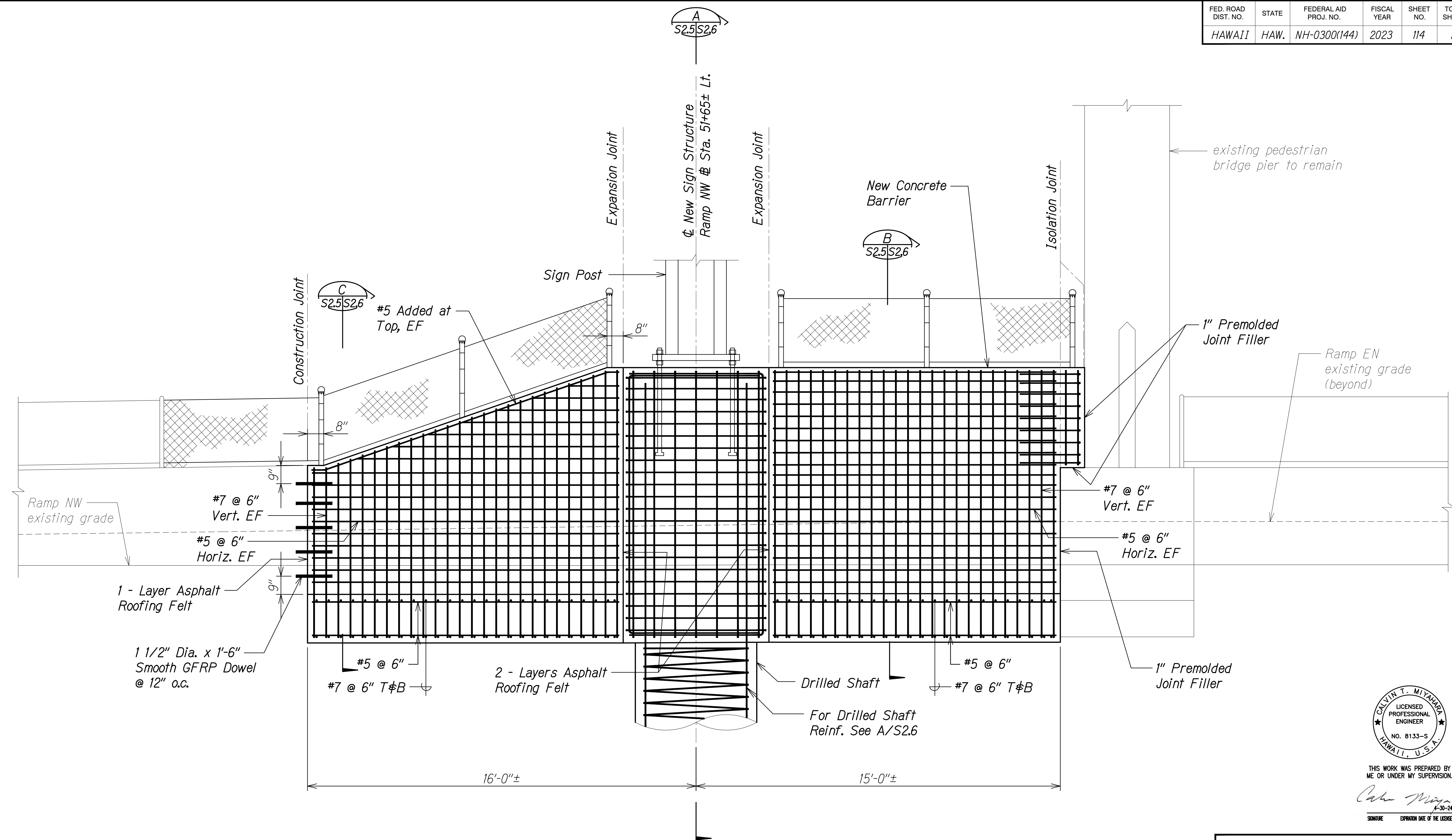
**SIGN STRUCTURE HIEBR-253
 BARRIER PLAN AND ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S2.4 OF 9 SHEETS

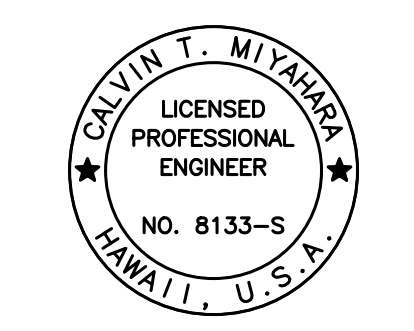
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	114	175



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50205 HIEBR-253-RENF.DWG PLOT TIME: 09-29-22, 4:20 PM

BARRIER REINFORCING ELEVATION
 Scale: 1/2" = 1'-0"



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

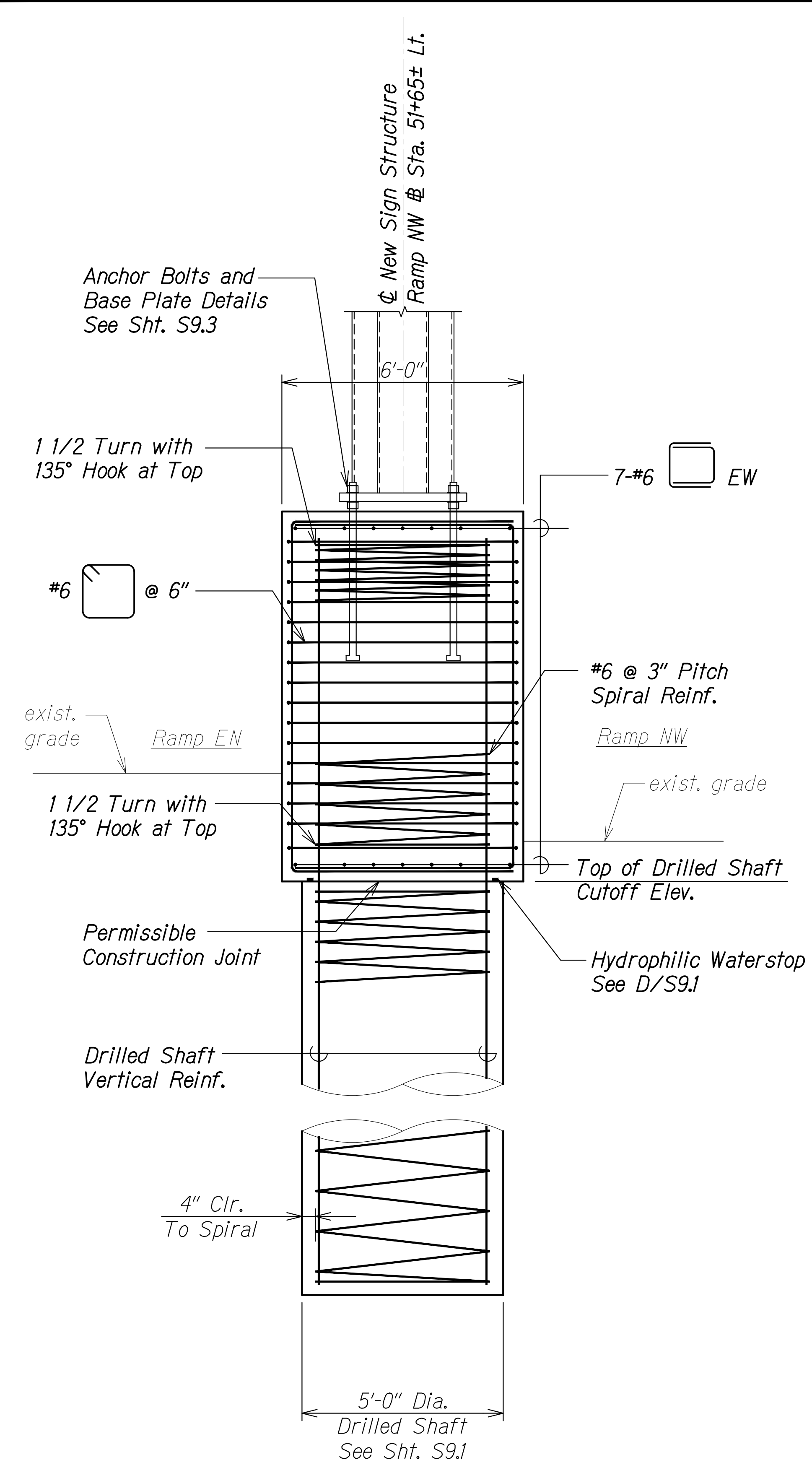
SIGN STRUCTURE HIEBR-253
BARRIER REINFORCING ELEVATION

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

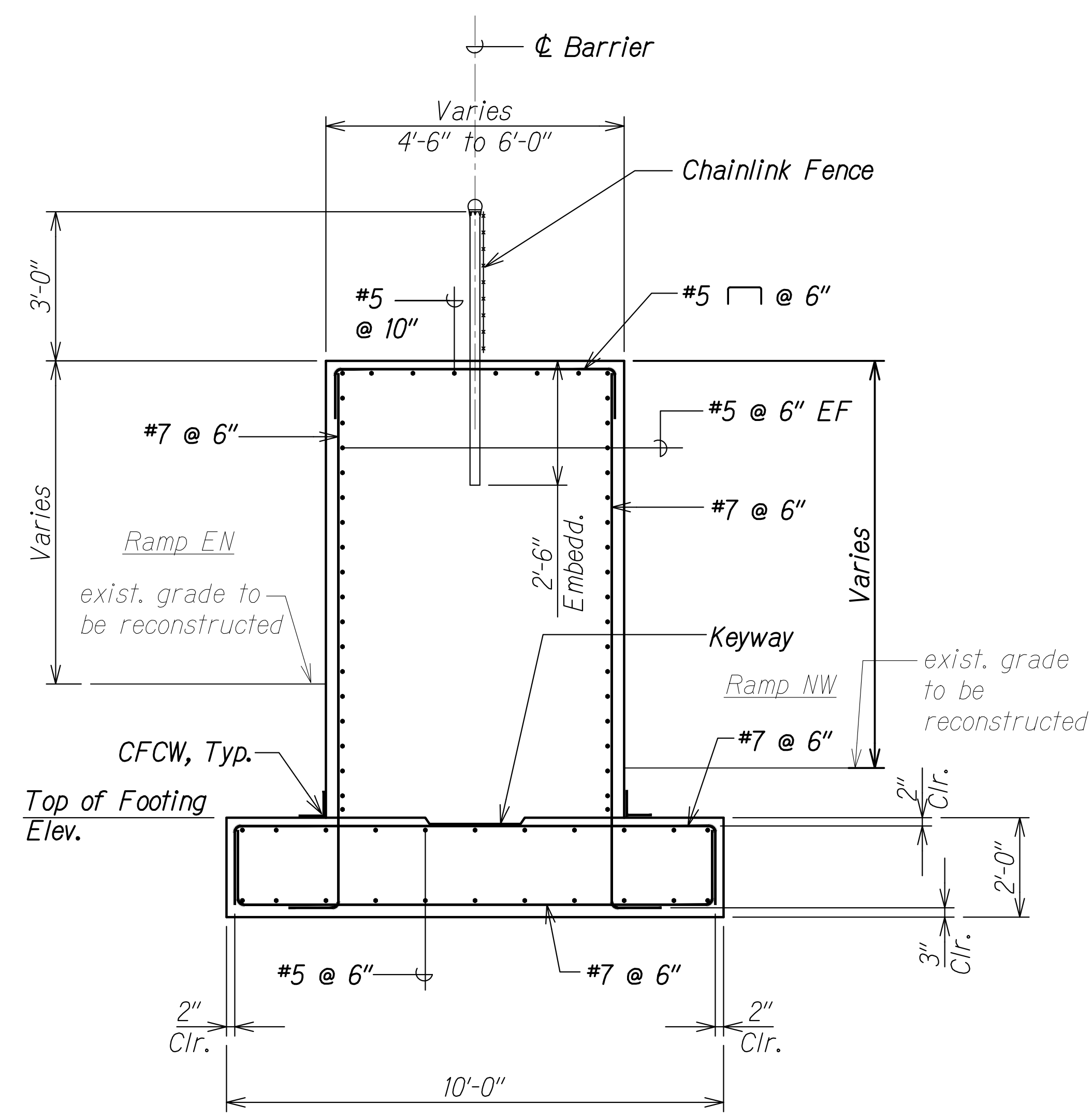
Scale: As Noted Date: Sept. 2022

SHEET No. S25 OF 9 SHEETS

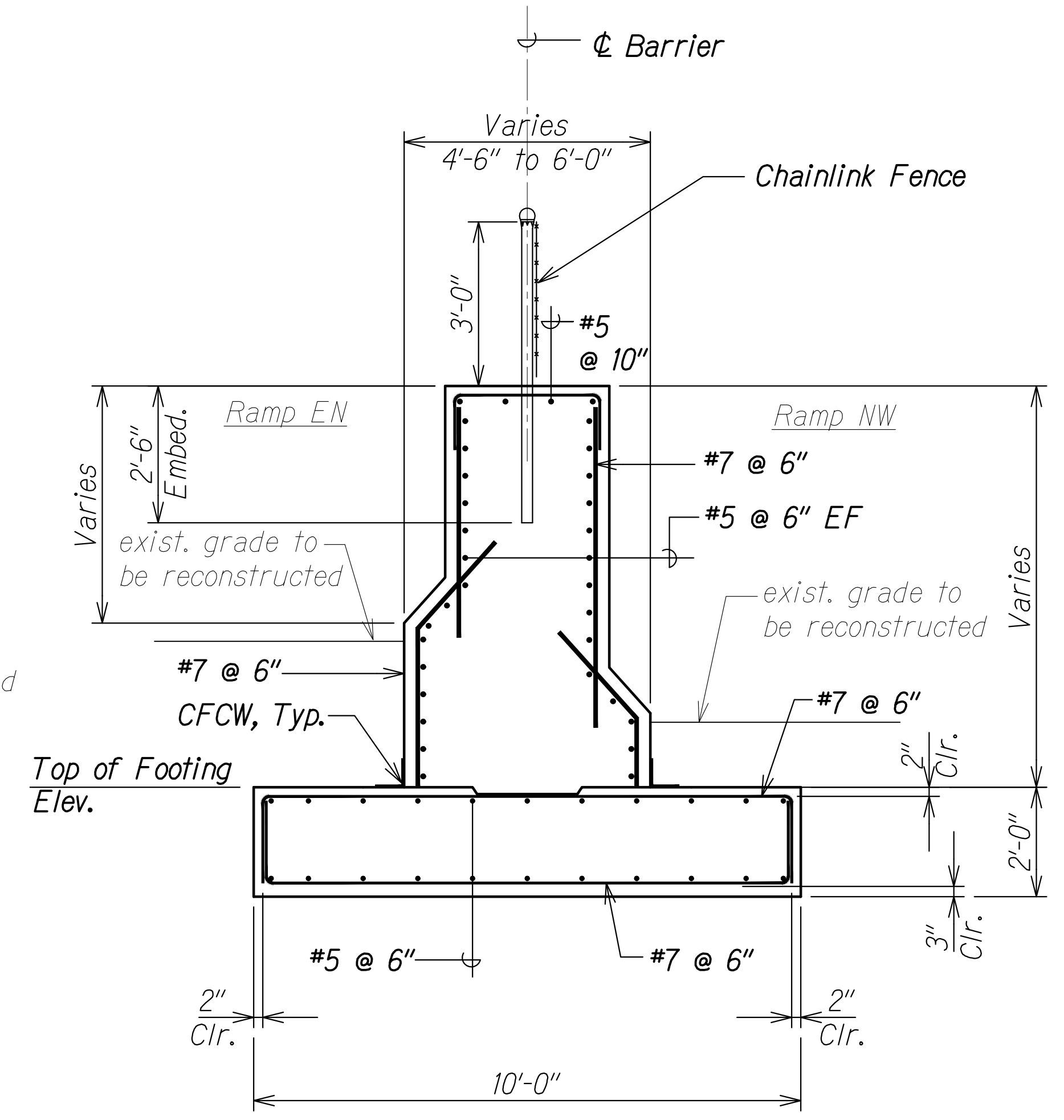
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	115	175



SECTION A
Scale: 1/2" = 1'-0" S2.5 | S2.6



SECTION B
Scale: 1/2" = 1'-0" S2.5 | S2.6



SECTION C
Scale: 1/2" = 1'-0" S2.5 | S2.6

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: ZA 00 ONGONGI 00 LF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID 0511-50205 HIEBR-253-REINF.DWG PLOT TIME: 09-29-22, 4:21 PM

CALVIN T. MIYAKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyakawa
4-30-24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN STRUCTURE HIEBR-253

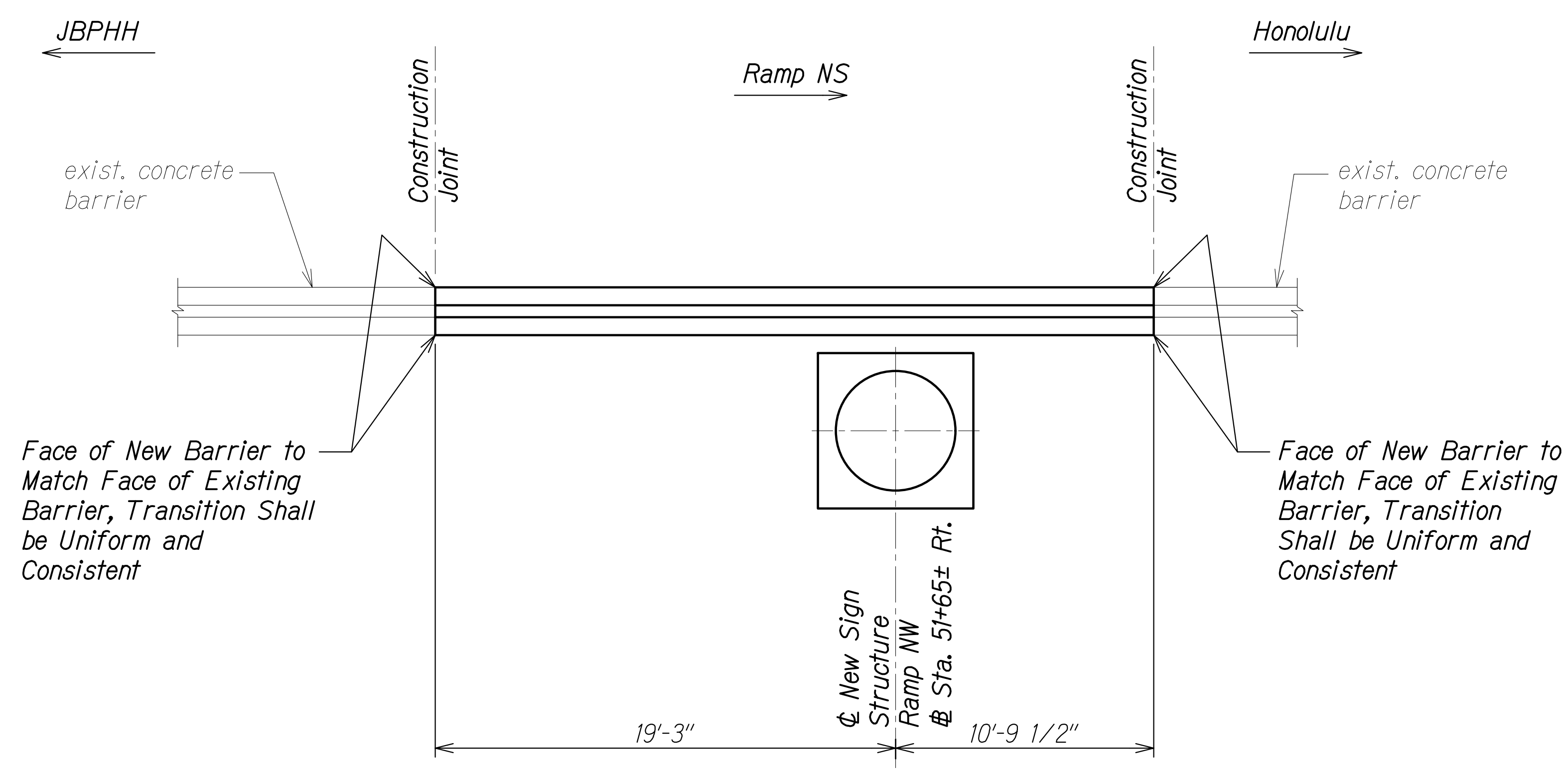
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

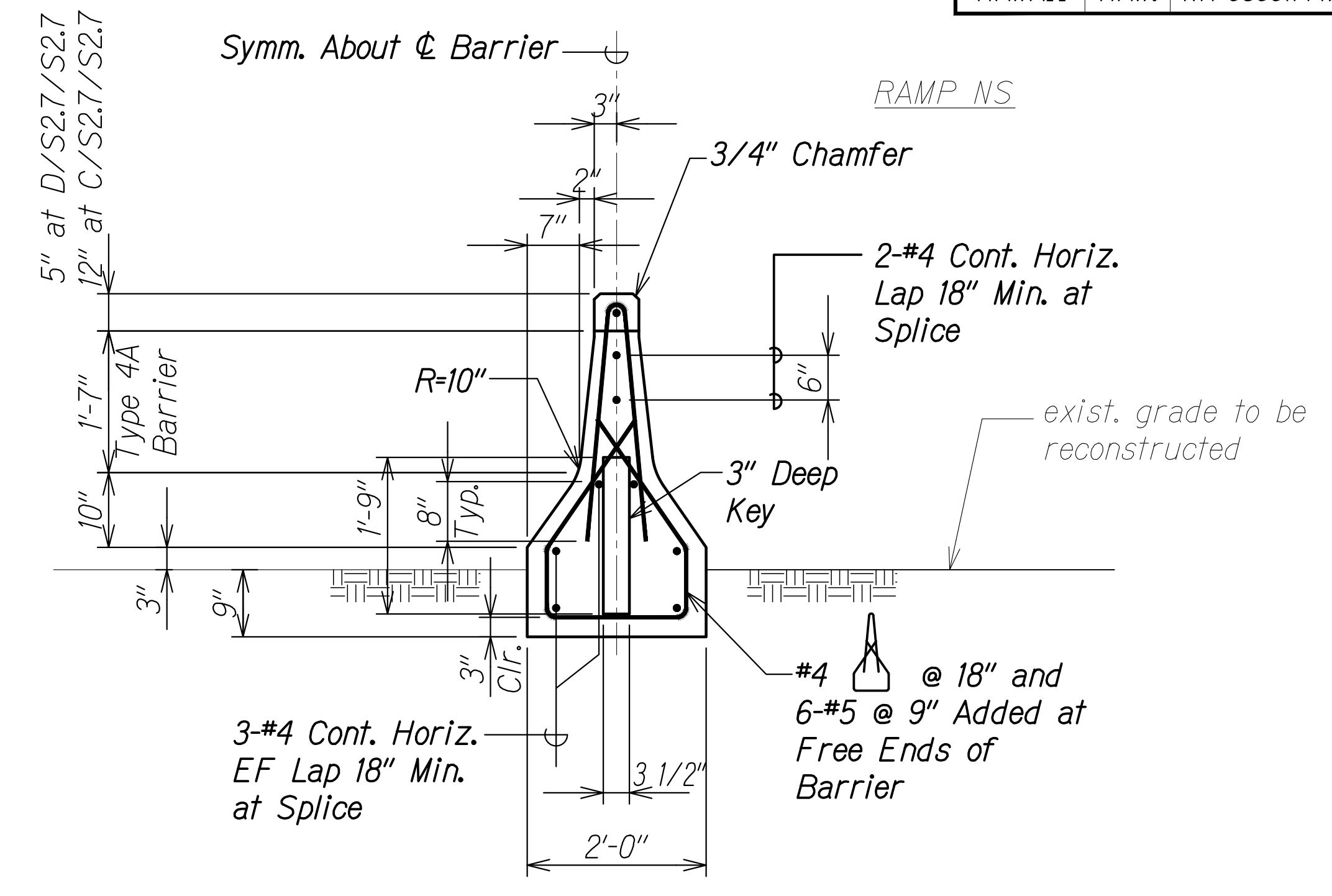
Scale: As Noted Date: Sept. 2022

SHEET No. S26 OF 9 SHEETS

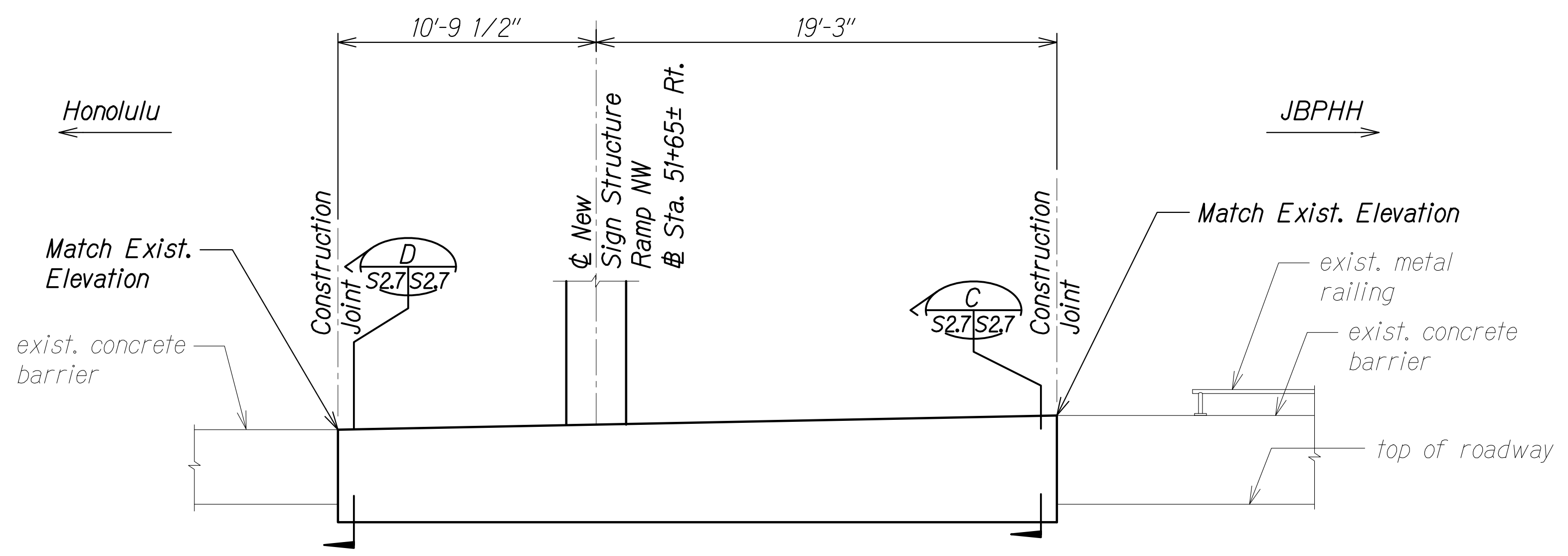
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	116	175



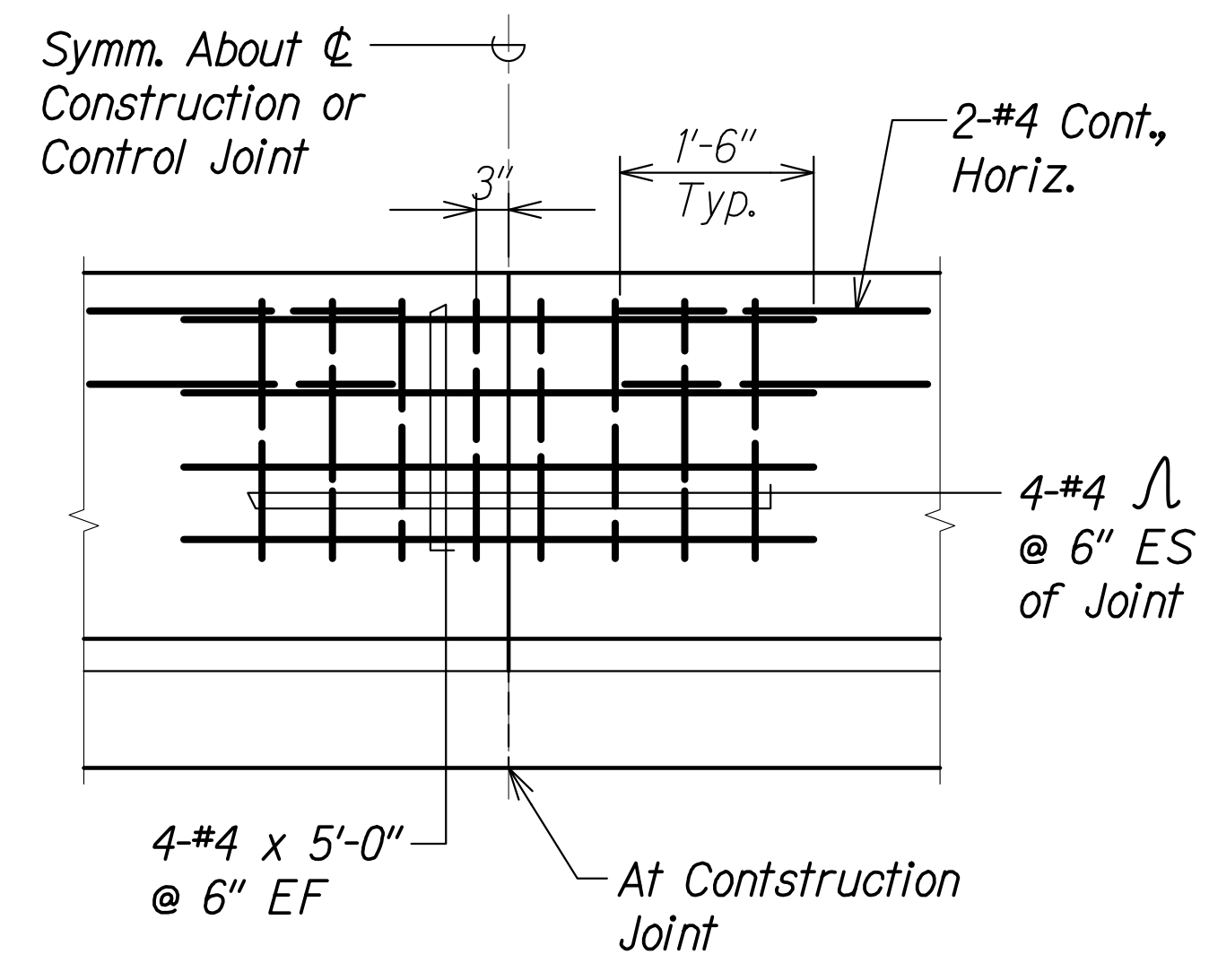
BARRIER PLAN
Scale: 1/4" = 1'-0"
A
S2.7 | S2.7



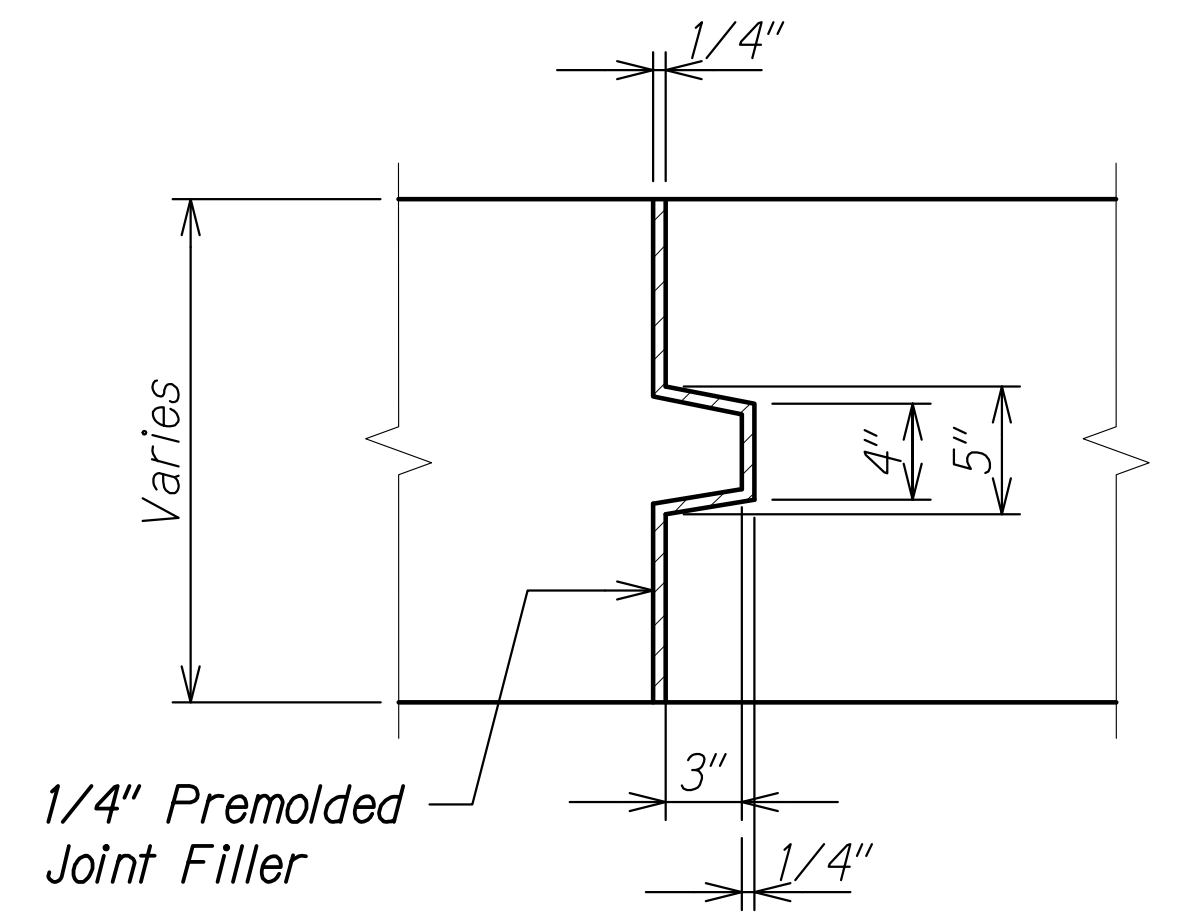
BARRIER SECTION
Scale: 3/4" = 1'-0"
C | D
S2.7 | S2.7



BARRIER ELEVATION
Scale: 1/4" = 1'-0"
B
S2.7 | S2.7



CONSTRUCTION JOINT DETAIL
Scale: 3/4" = 1'-0"
1
S2.7 | S2.7



SECTION THRU KEY AT JOINTS
Not to Scale
2
S2.7 | S2.7

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50207 HIEBR-253-BARR NEW.DWG PLOT TIME: 09-29-22 4:21 PM

CALVIN T. MIYAHARA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: Calvin Miyahara
4-30-24
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

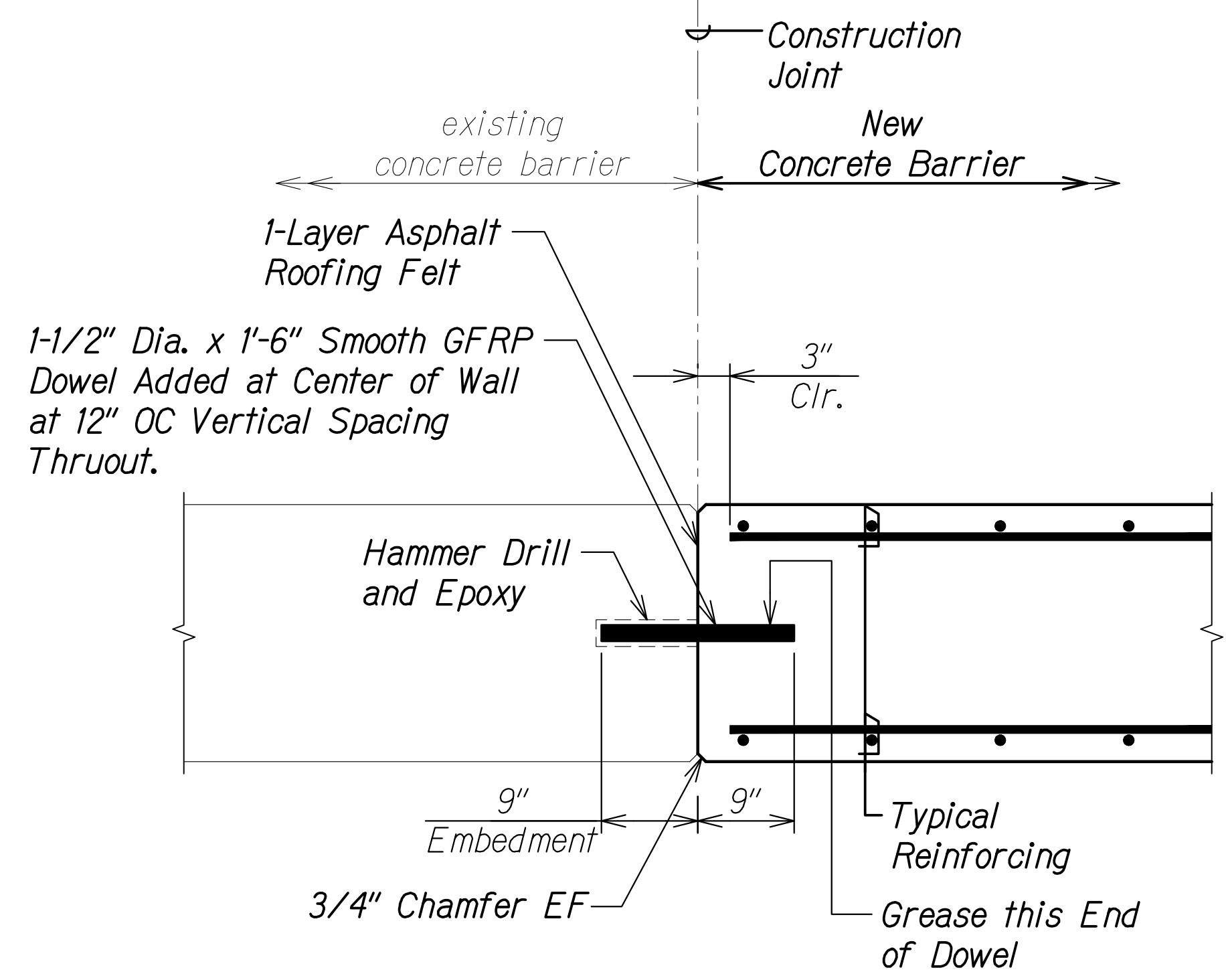
SIGN STRUCTURE HIEBR-253
BARRIER PLAN, ELEV., AND SECTS.

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

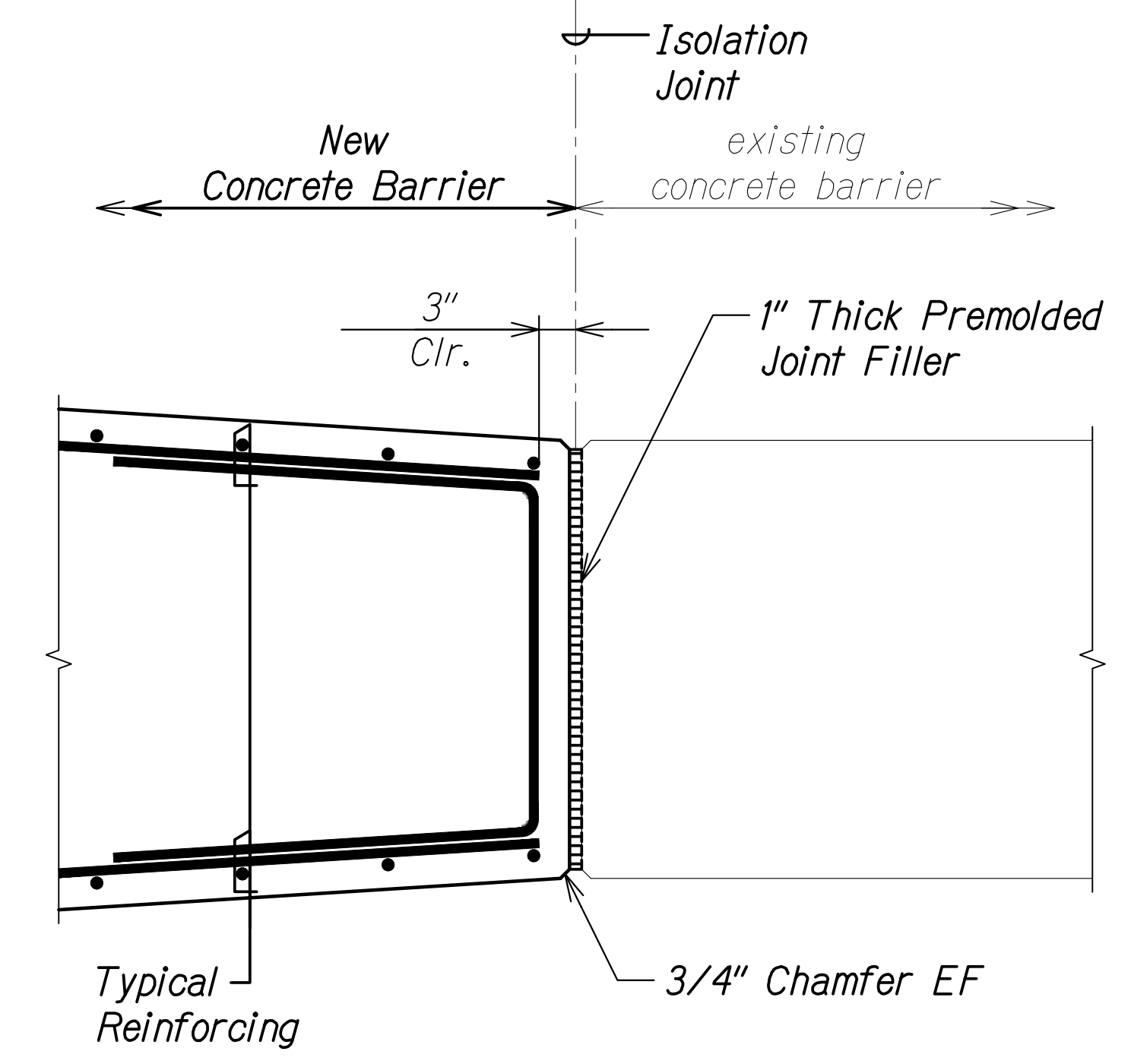
Scale: As Noted Date: Sept. 2022

SHEET No. S2.7 OF 9 SHEETS

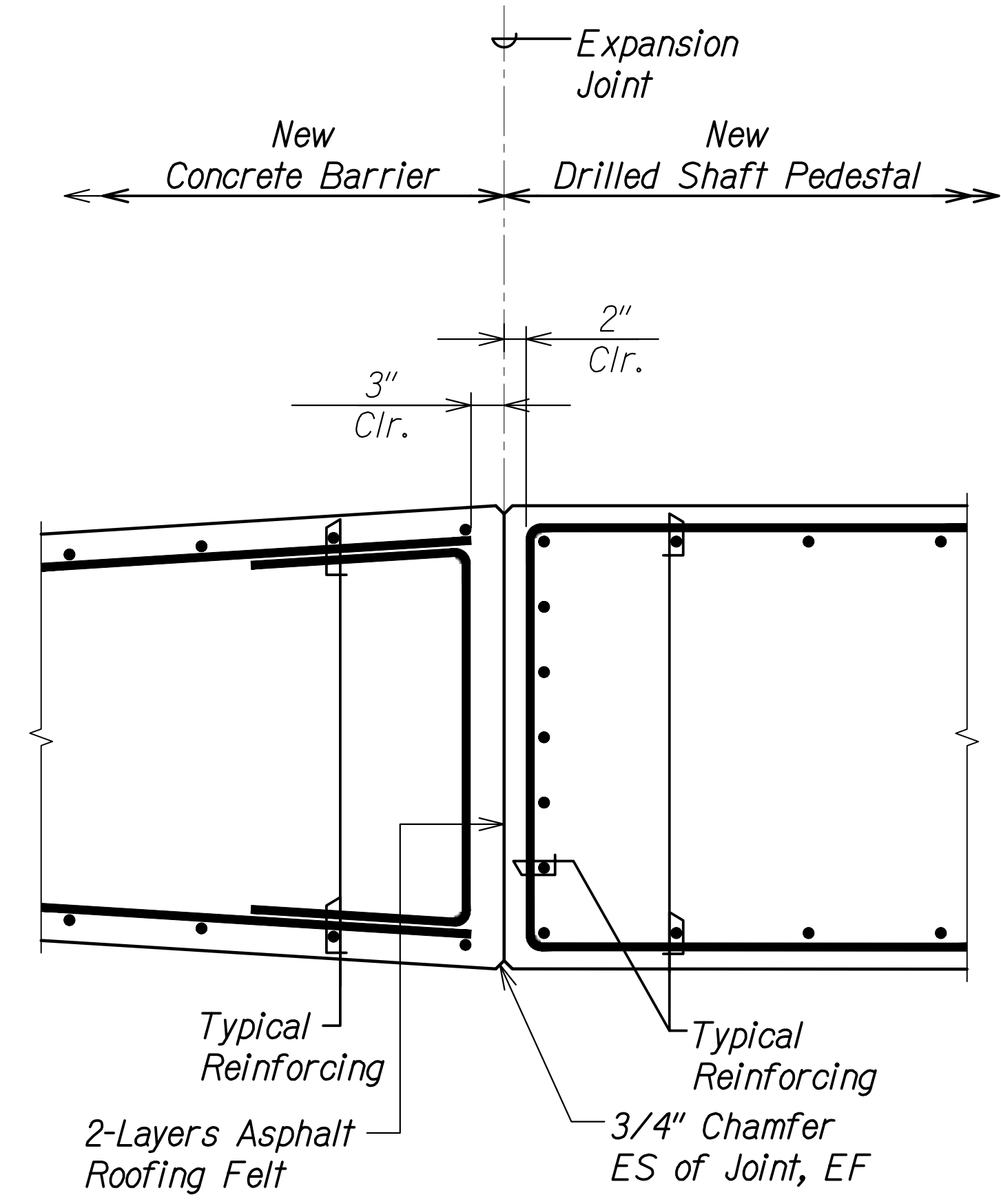
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	117	175



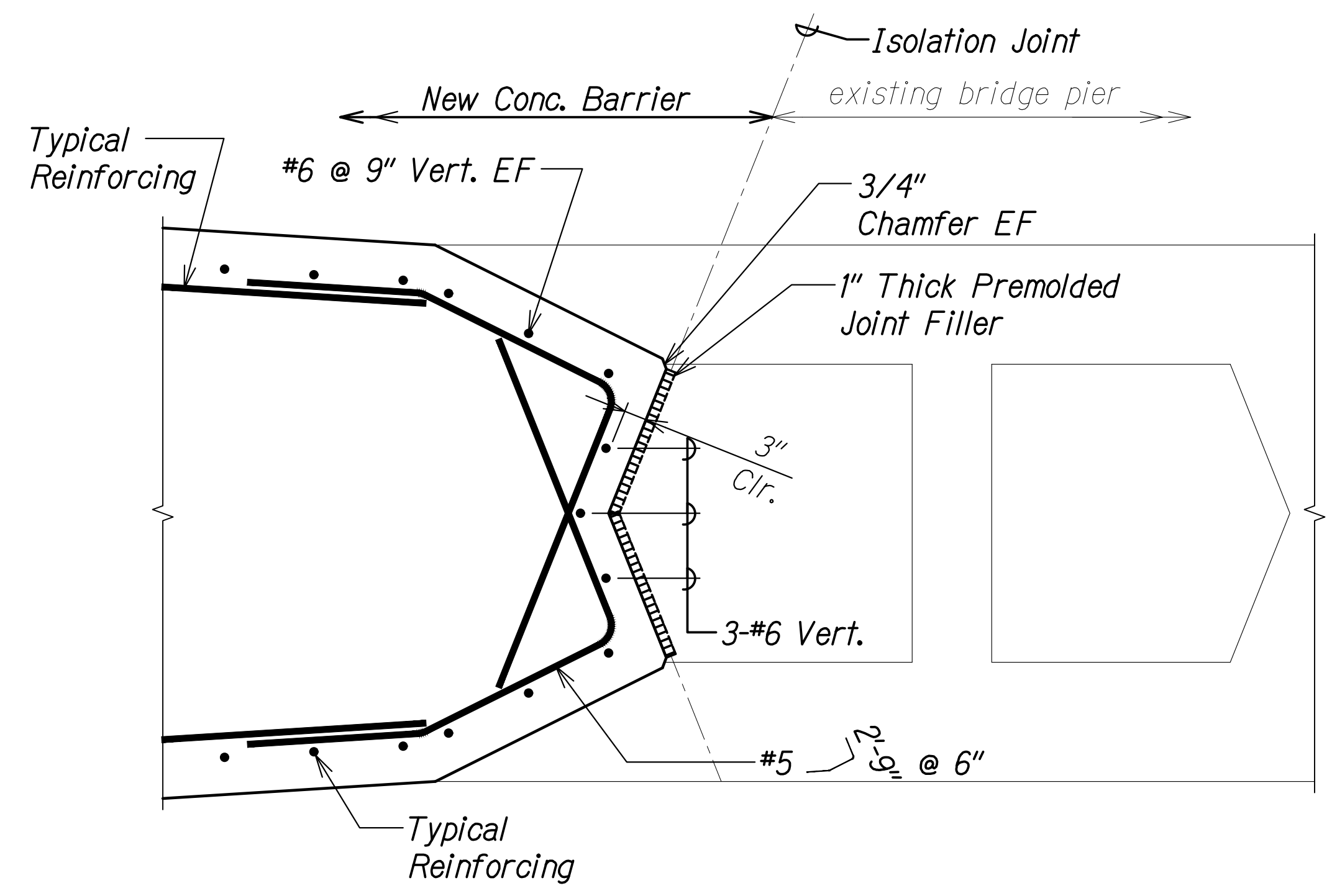
CONSTRUCTION JOINT DETAIL (A)
Scale: 1" = 1'-0"
S2.8 | S2.8



ISOLATION JOINT DETAIL IN MEDIAN BARRIER (C)
Scale: 1" = 1'-0"
S2.8 | S2.8



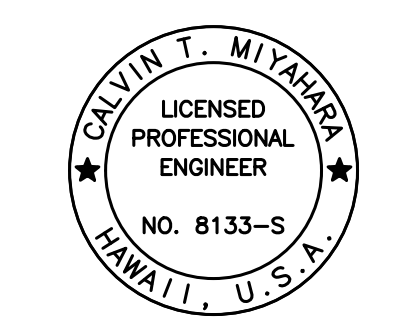
EXPANSION JOINT DETAIL (B)
Scale: 1" = 1'-0"
S2.8 | S2.8



ISOLATION JOINT DETAIL IN MEDIAN BARRIER (D)
Scale: 1" = 1'-0"
S2.8 | S2.8

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

DRAWING NAME: Z:\00 ONGOING\00_01 PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 BID\09-30-22 4:22 PM



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Calvin Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

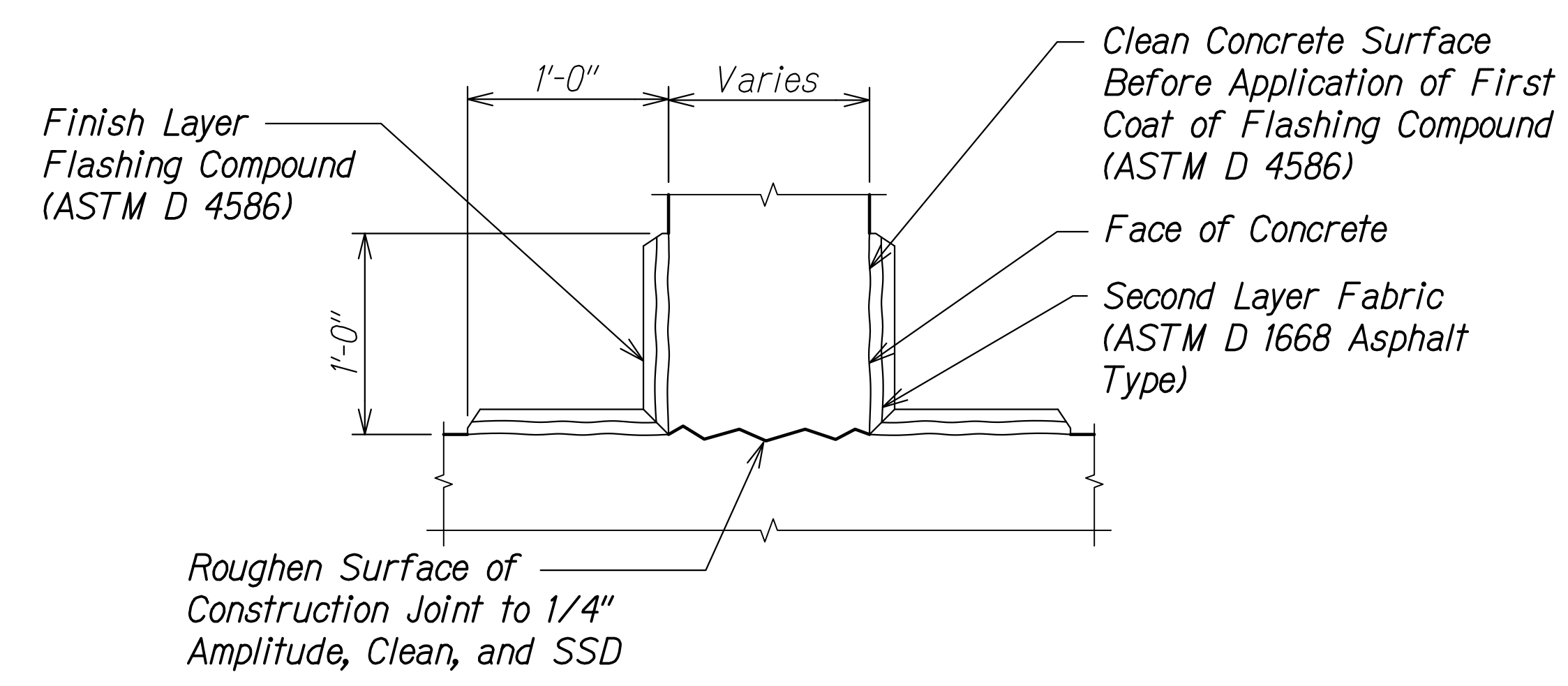
**SIGN STRUCTURE HIEBR-253
BARRIER JOINTING DETAILS**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

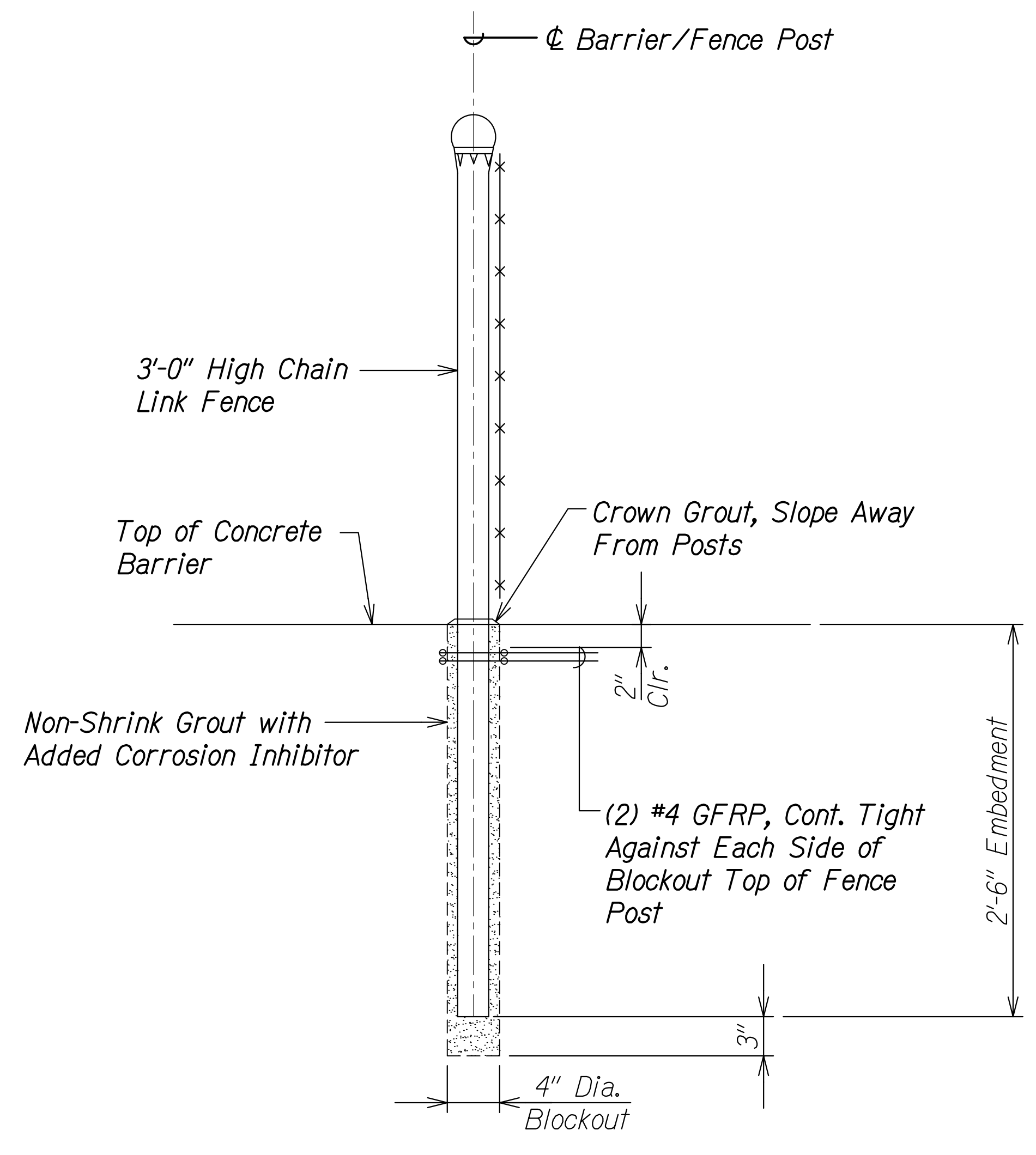
Scale: As Noted Date: Sept. 2022

SHEET No. S2.8 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	118	175



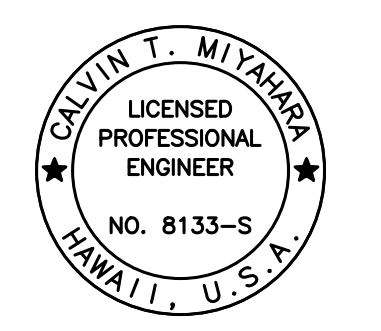
CFCW DETAIL 1
 Scale: 1 1/2" = 1'-0" S2.9 | S2.9



FENCE POST DETAIL 2
 Scale: 1 1/2" = 1'-0" S2.9 | S2.9

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

DRAWING NAME: Z:\00 ONGOING\00_IF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50209 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:22 PM



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Calvin Miyakawa
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

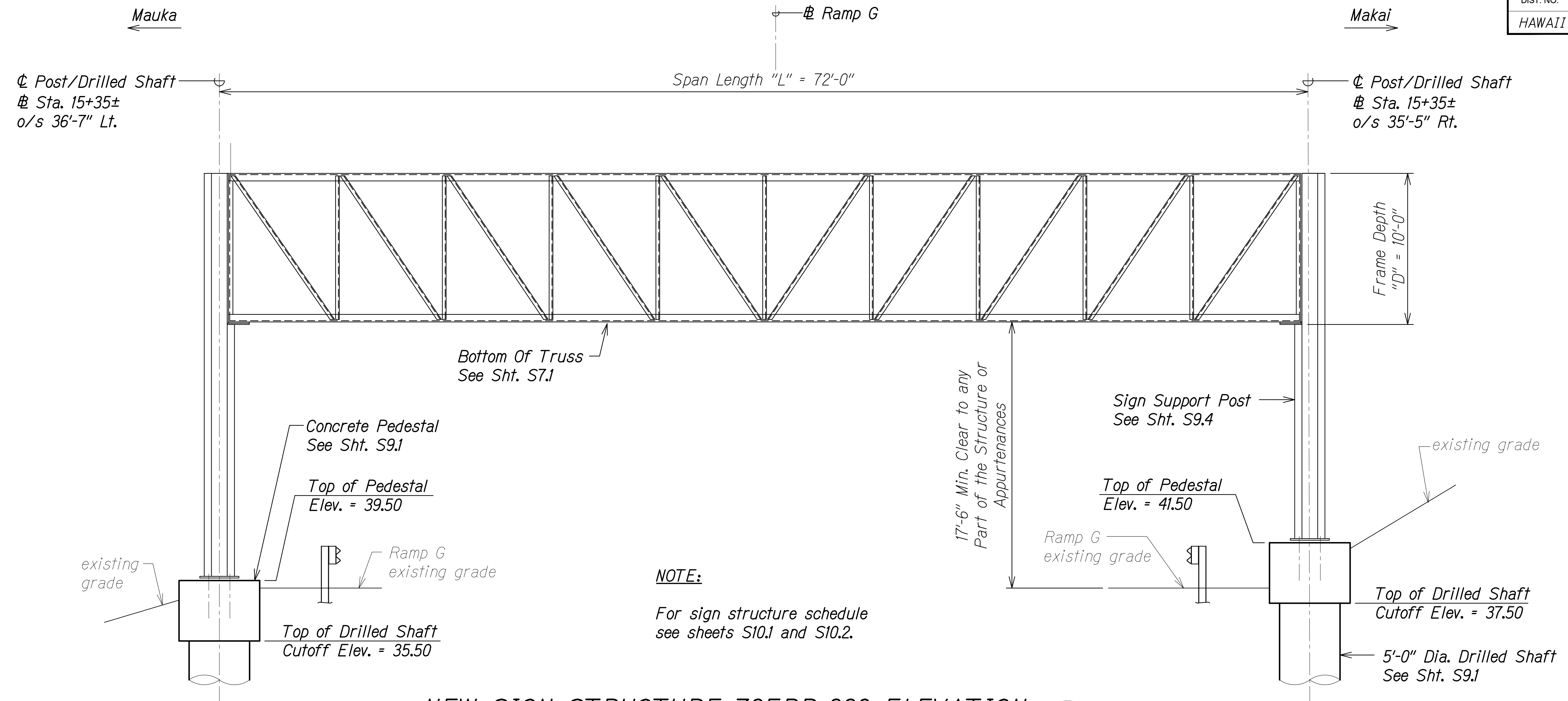
SIGN STRUCTURE HIEBR-2S3
TYPICAL DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S2.9 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	119	175



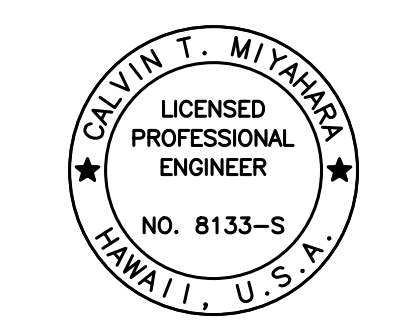
NEW SIGN STRUCTURE 78EBR-830 ELEVATION A
 Scale: 1/4" = 1'-0" S3.1 | S3.1



EXISTING SIGN STRUCTURE 78EBR-830

ORIGINAL PLAN	DATE
NOTE BOOK	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50301 HI EBR-830-ELEV.DWG PLOT TIME: 09-29-22, 4:23 PM



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

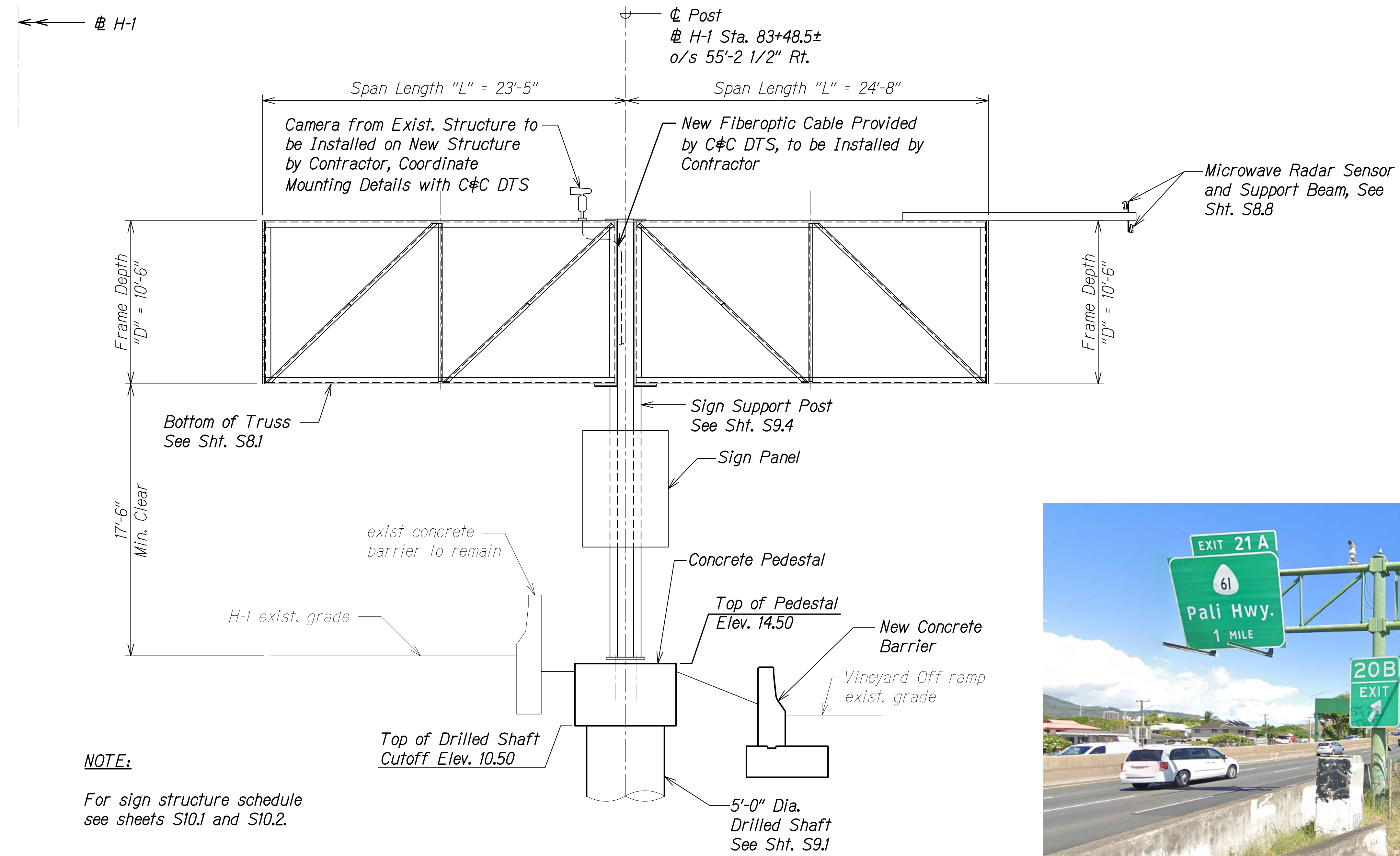
**SIGN STRUCTURE
 78EBR-830 ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S3.1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	120	175



NOTE:
For sign structure schedule see sheets S10.1 and S10.2.

SIGN STRUCTURE HIEB-305 ELEVATION
Scale: 1/4" = 1'-0" A
S4.J | S4.J



EXISTING SIGN STRUCTURE HIEB-305

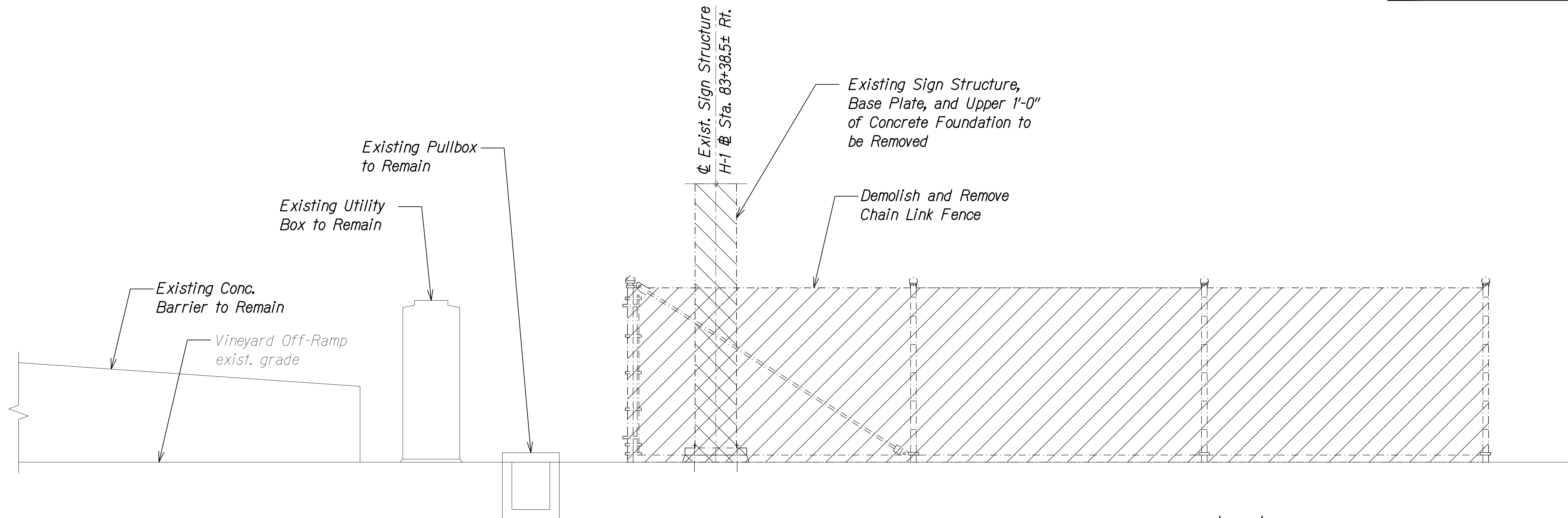
ORIGINAL PLAN	DATE
NOTE BOOK	
No.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50401 TO 50403 HIEB-305 ELEV.DWG PLOT TIME: 09-29-22, 4:24 PM

CALVIN T. MIYAHARA
 LICENSED PROFESSIONAL ENGINEER
 NO. 8133-S
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyahara
 4-30-24
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGN STRUCTURE HIEB-305
ELEVATION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: As Noted Date: Sept. 2022
 SHEET No. S4.J OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	121	175



DEMOLITION ELEVATION
 Scale: 1/2" = 1'-0" A
S4.2 | S4.2

Legend:

Demolish and Remove

Note:

Elevation is shown from Vineyard Boulevard.

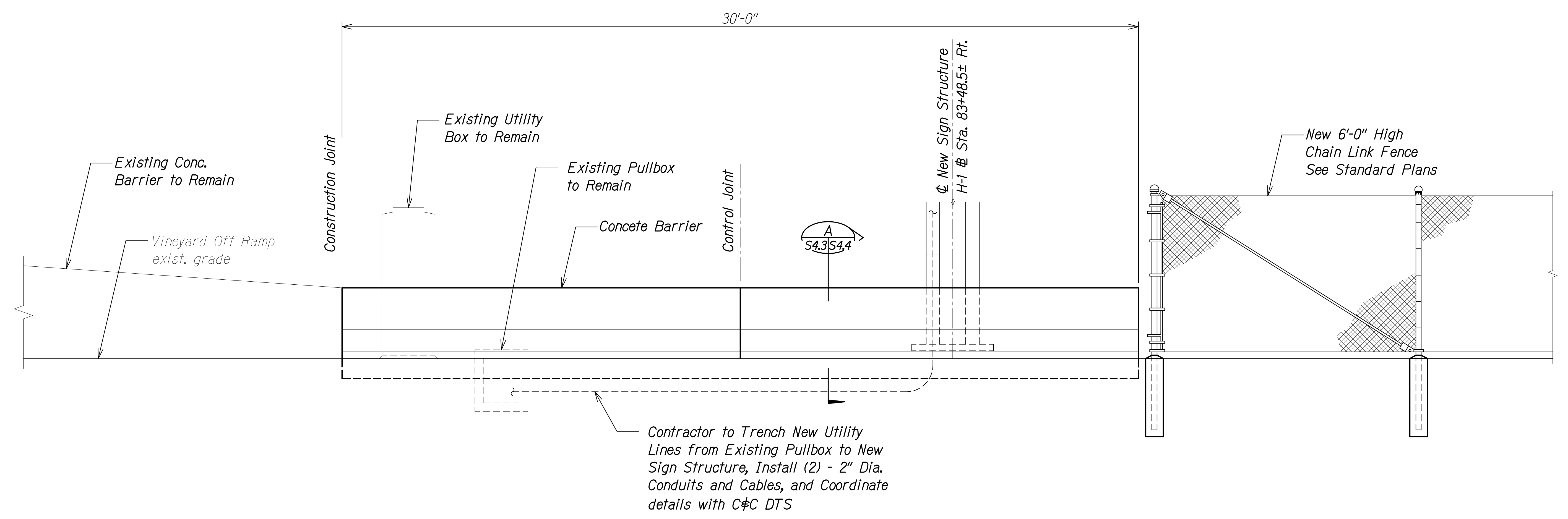
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50401 TO 50403 HIEB-305 ELEV.DWG PLOT TIME: 09-29-22, 4:24 PM

CALVIN T. MIYAHARA
 LICENSED PROFESSIONAL ENGINEER
 NO. 8133-S
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE: 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGN STRUCTURE HIEB-305
DEMOLITION ELEVATION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: As Noted Date: Sept. 2022
 SHEET No. S4.2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	122	175



BARRIER ELEVATION A
 Scale: 1/2" = 1'-0" S4.3 | S4.3

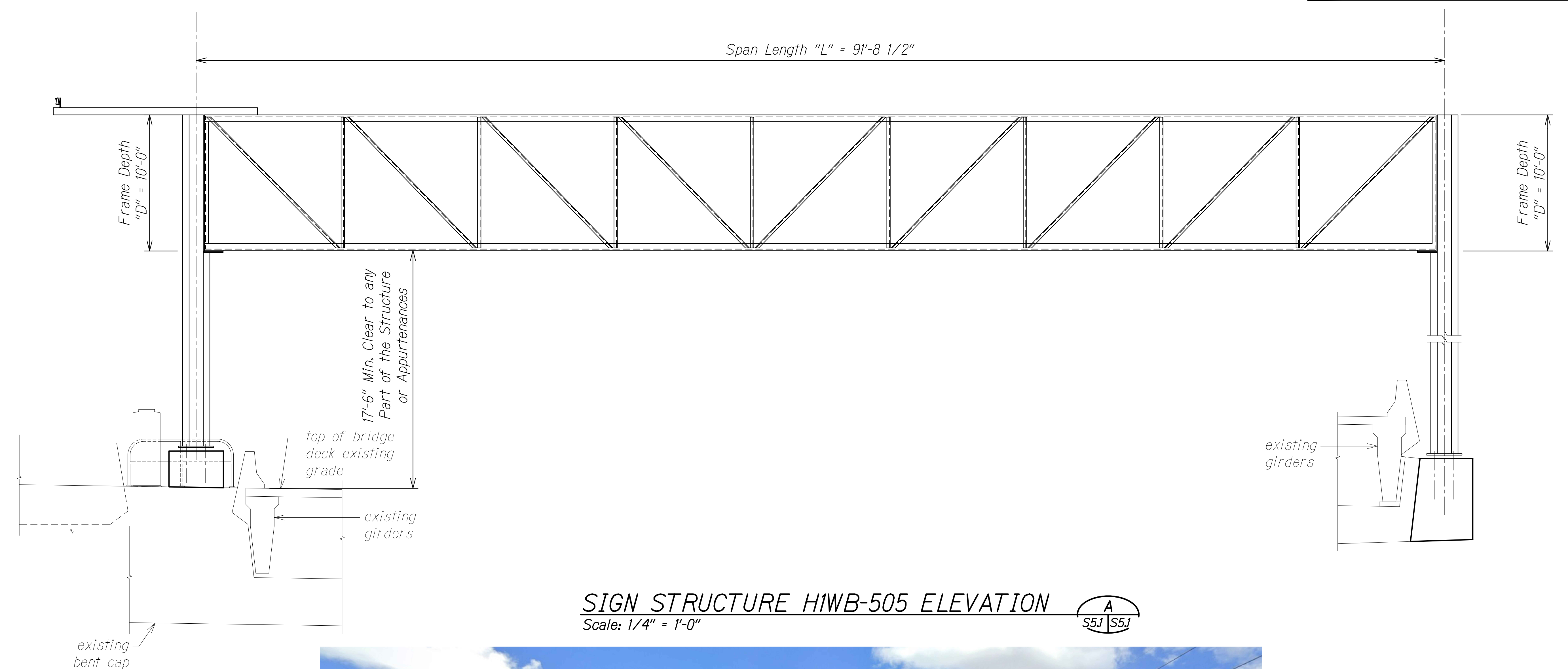
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 HIEB-305 ELEV.DWG PLOT TIME: 09-29-22, 4:24 PM

CALVIN T. MIYAHARA
 LICENSED PROFESSIONAL ENGINEER
 NO. 8133-S
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE: 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGN STRUCTURE HIEB-305
BARRIER ELEVATION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: As Noted Date: Sept. 2022
 SHEET No. S4.3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	124	175



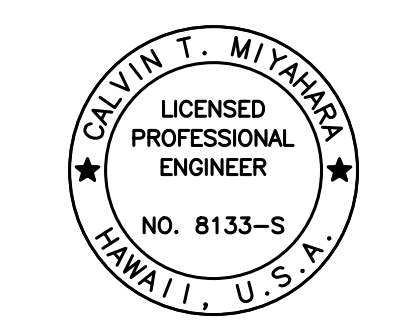
SIGN STRUCTURE HIWB-505 ELEVATION
 Scale: 1/4" = 1'-0" A
S5.1 | S5.1



EXISTING SIGN STRUCTURE HIWB-505

ORIGINAL PLAN	DATE
NOTE BOOK	

DRAWING NAME: ZA 00 ONGOING 00 OF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID DSU1-50501 HIWB-505 ELEV.DWG PLOT TIME: 09-29-22, 4:25 PM



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

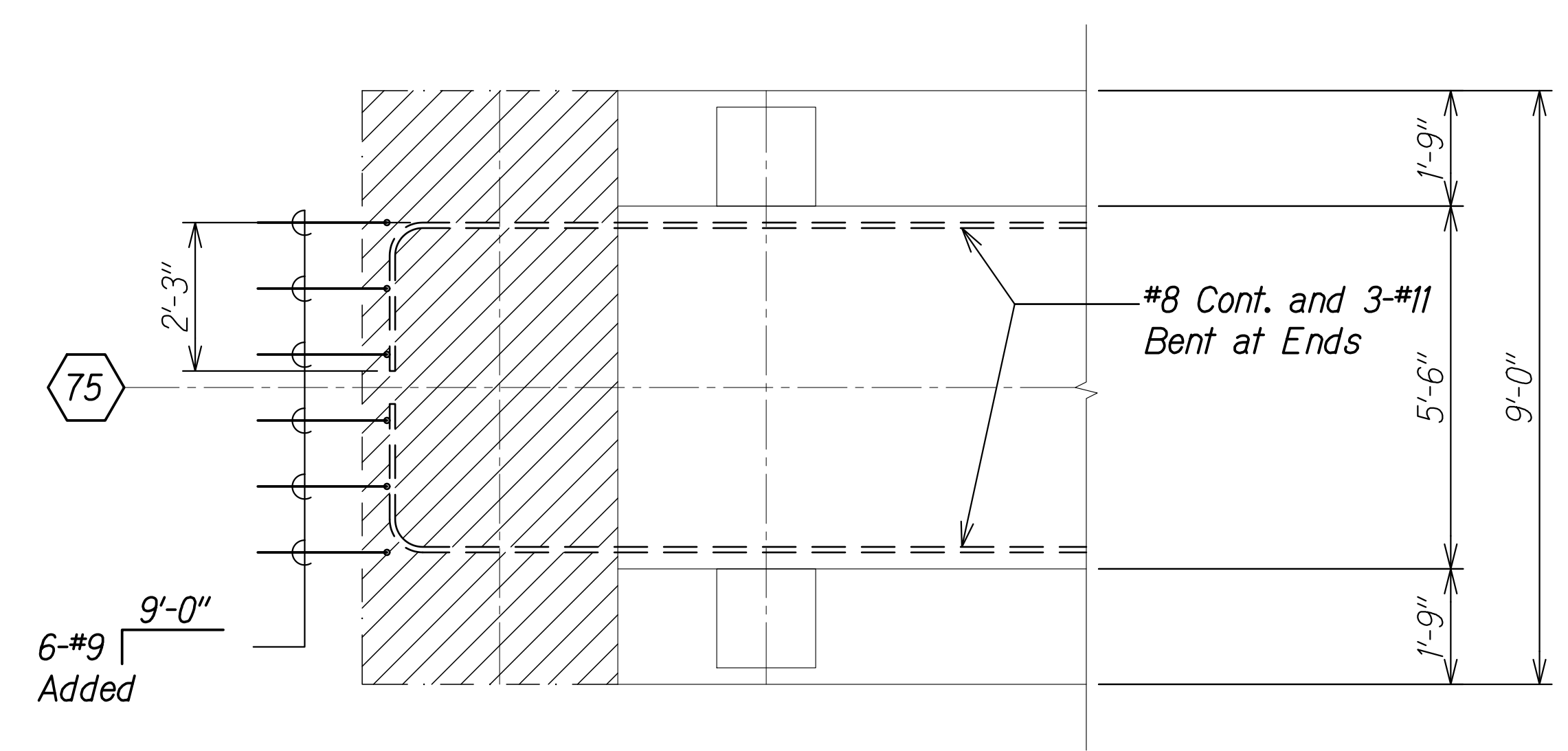
**SIGN STRUCTURE
 HIWB-505 ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

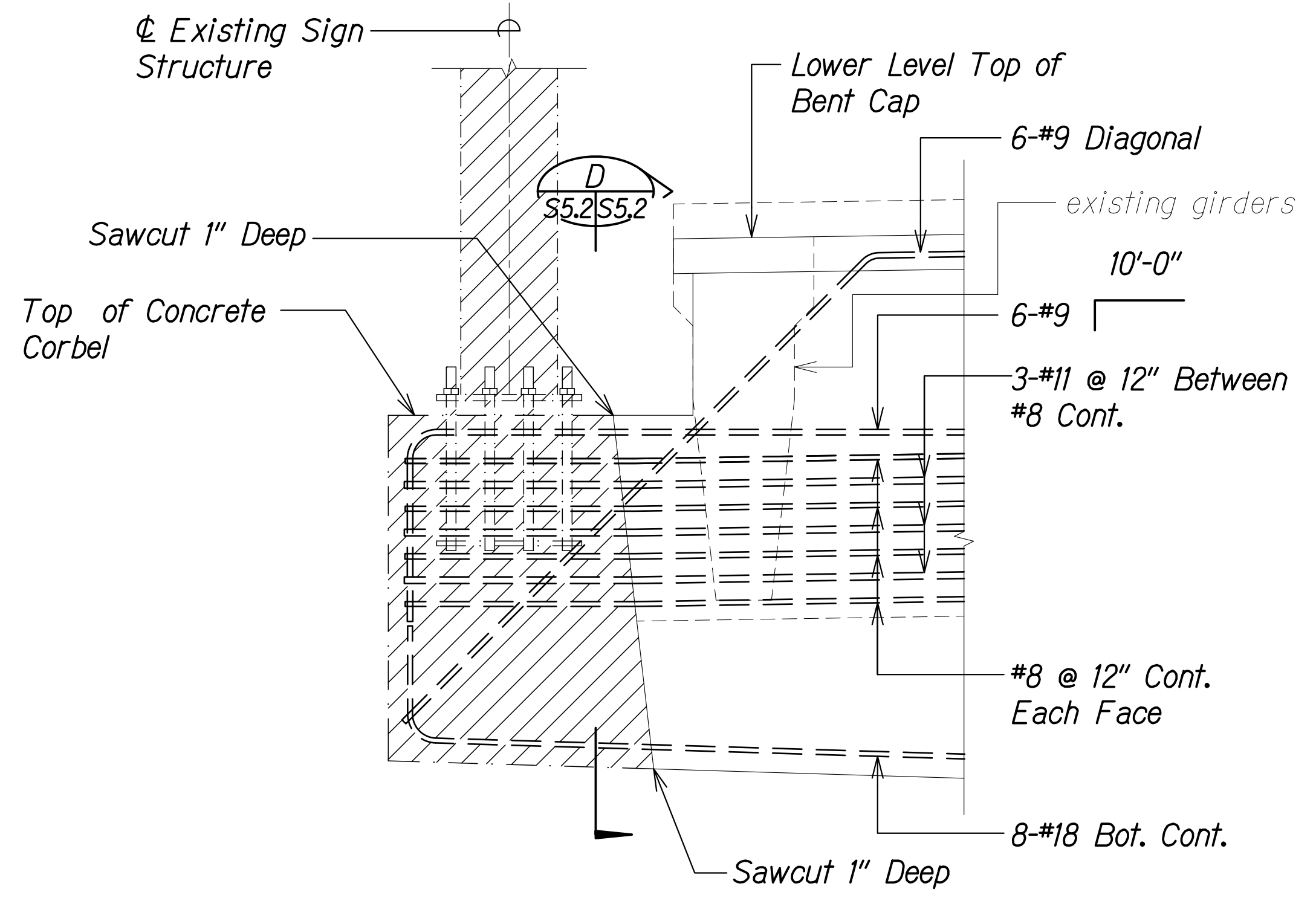
Scale: As Noted Date: Sept. 2022

SHEET No. S5.1 OF 6 SHEETS

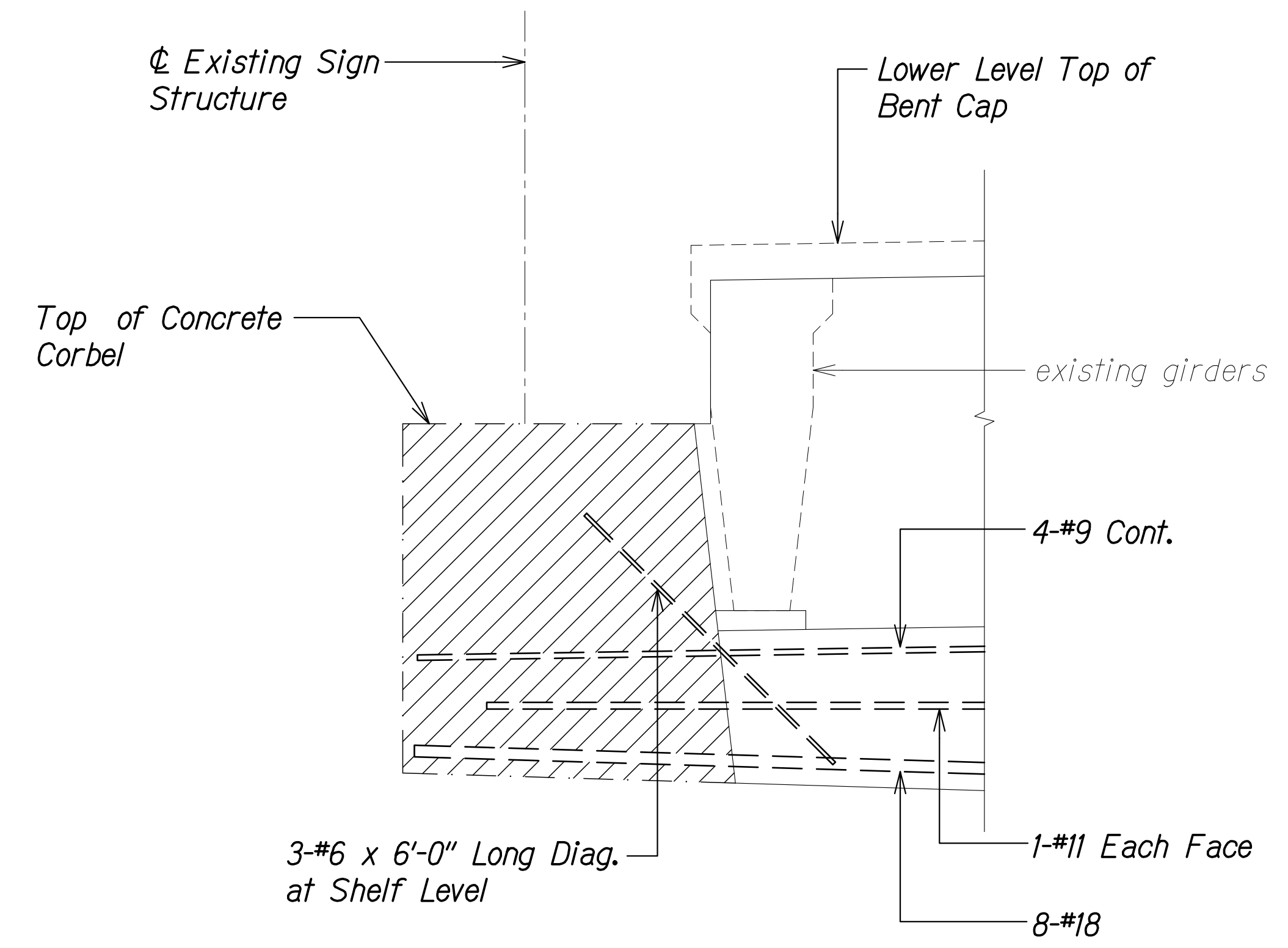
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	125	175



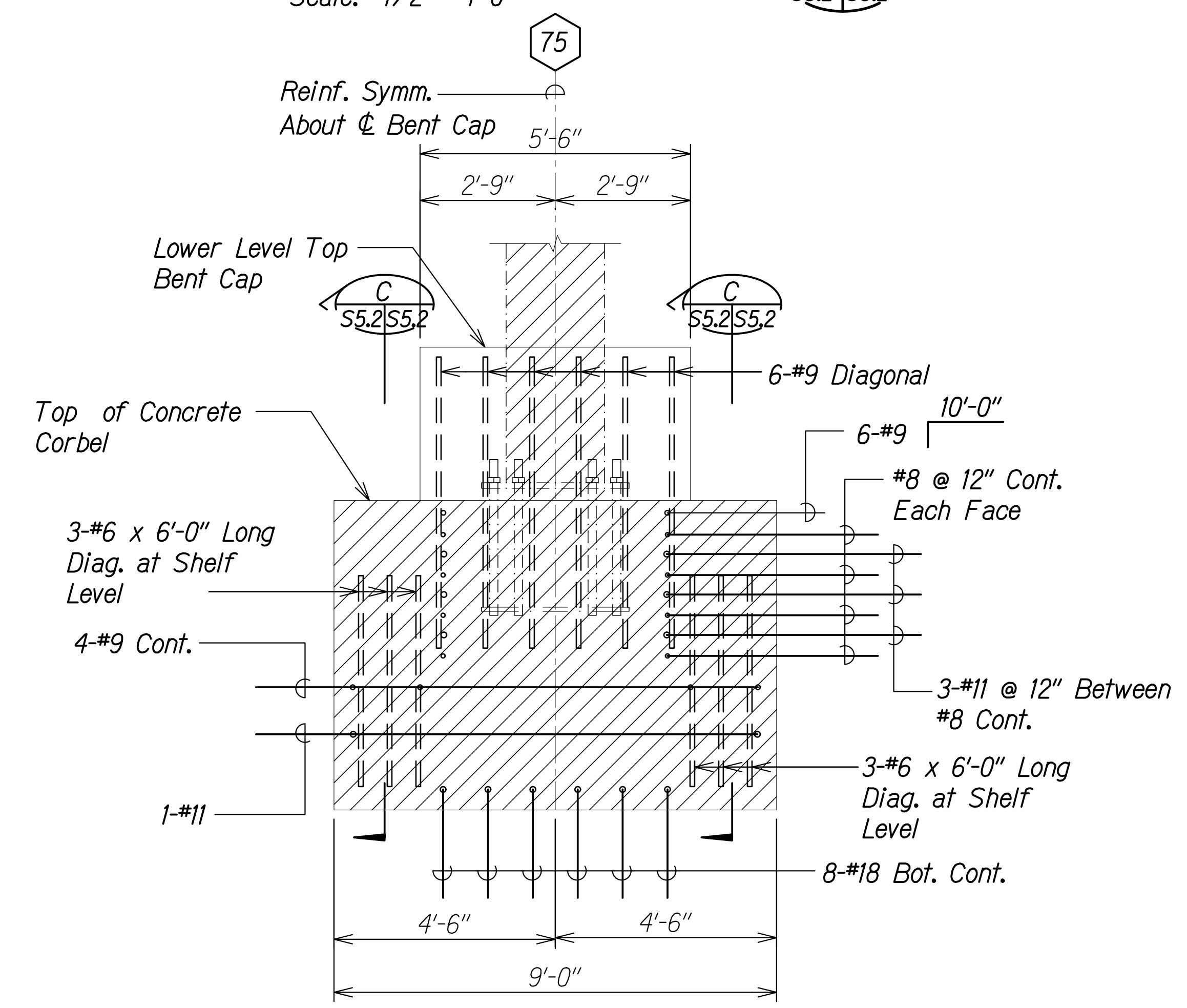
DEMOLITION PLAN **A**
Scale: 1/2" = 1'-0"
S5.2 | S5.2



DEMOLITION SECTION **B**
Scale: 1/2" = 1'-0"
S5.2 | S5.2



DEMOLITION SECTION **C**
Scale: 1/2" = 1'-0"
S5.2 | S5.2

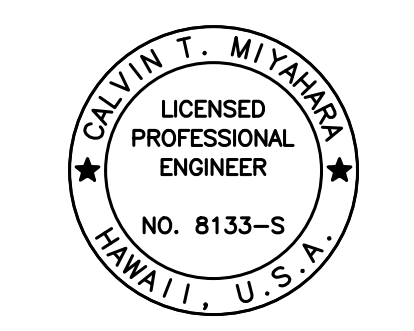


DEMOLITION SECTION **D**
Scale: 1/2" = 1'-0"
S5.2 | S5.2

Legend:
 Demolish and Remove

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50502 TO 50505 HIWB-505 DEMO.DWG PLOT TIME: 09-29-22, 4:26 PM



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

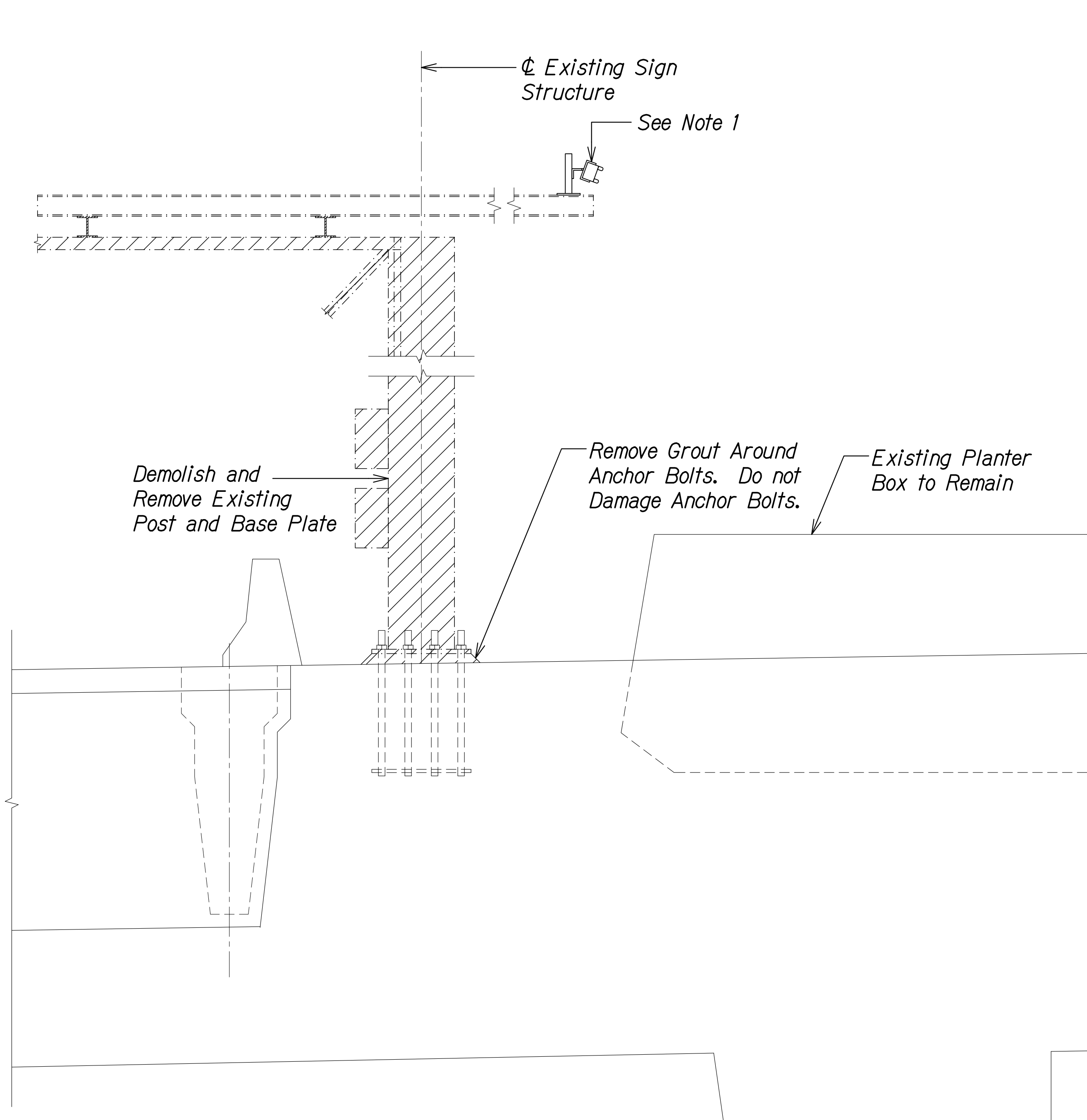
SIGN STRUCTURE - HIWB-505
PEDESTAL SUPPORT DEMOLITION PLAN AND SECTS.

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

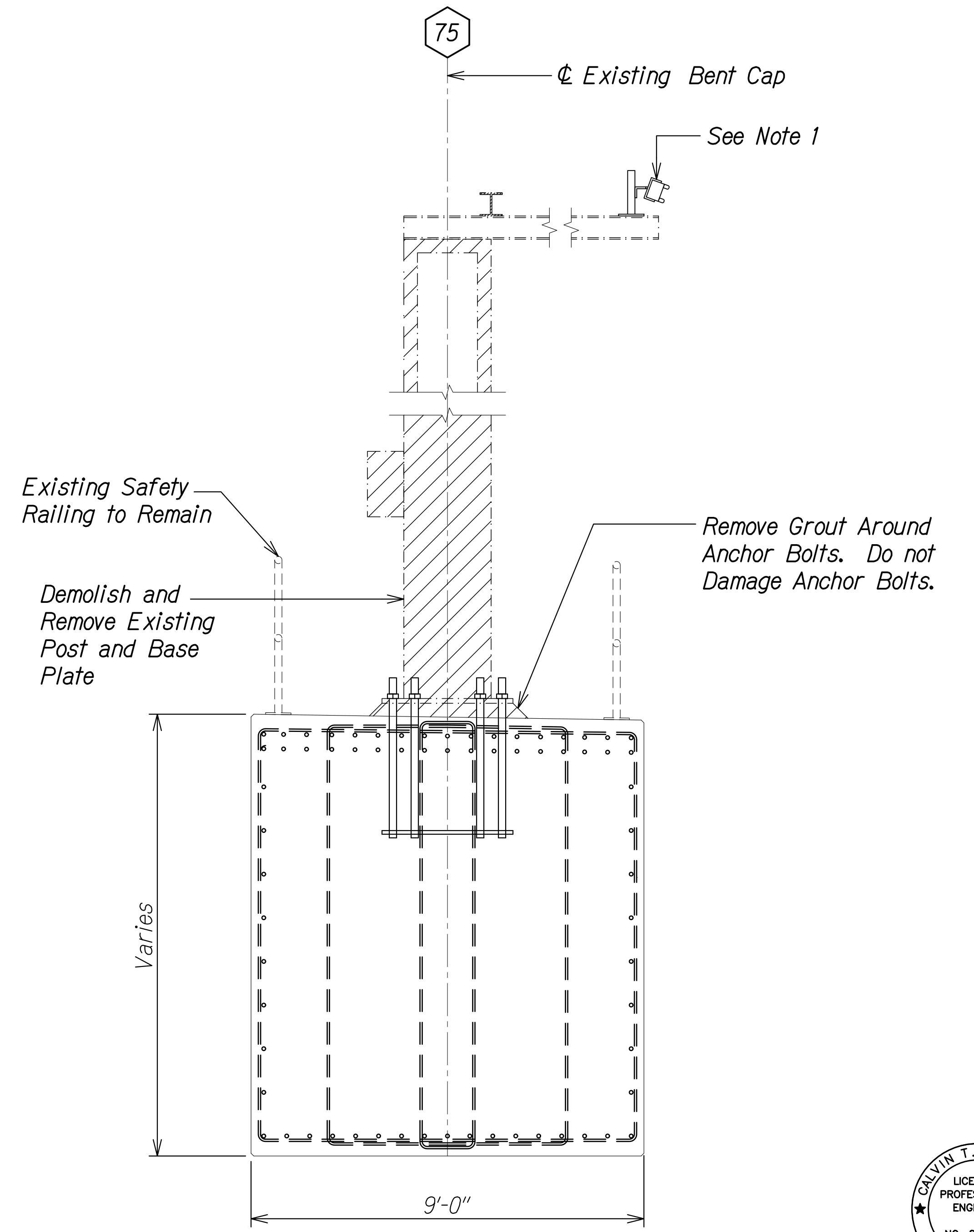
Scale: As Noted Date: Sept. 2022

SHEET No. S5.2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	126	175



DEMOLITION ELEVATION A
 Scale: 1/2" = 1'-0" S5.3 S5.3

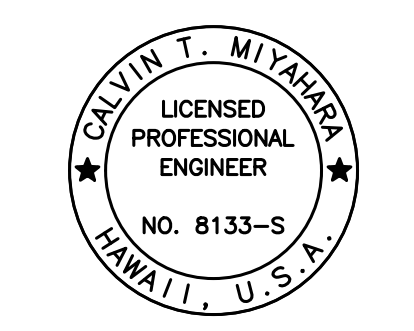


DEMOLITION SECTION B
 Scale: 1/2" = 1'-0" S5.3 S5.3

NOTE:
 Notify Jonathan Lott at (808) 587-6335 a minimum of 2-weeks before the sign structure is removed. The State will remove the radar sensors and hardware that is to be replaced. Everything that remains shall be removed and disposed of. This cost shall be considered incidental to the various pay items.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

DRAWING NAME: Z:\00 ONGOING\00_01 PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50502 TO 50505 HIWB-505 DEMO.DWG PLOT TIME: 09-29-22, 4:26 PM



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Calvin Miyahara
 SIGNATURE EXPIRES DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

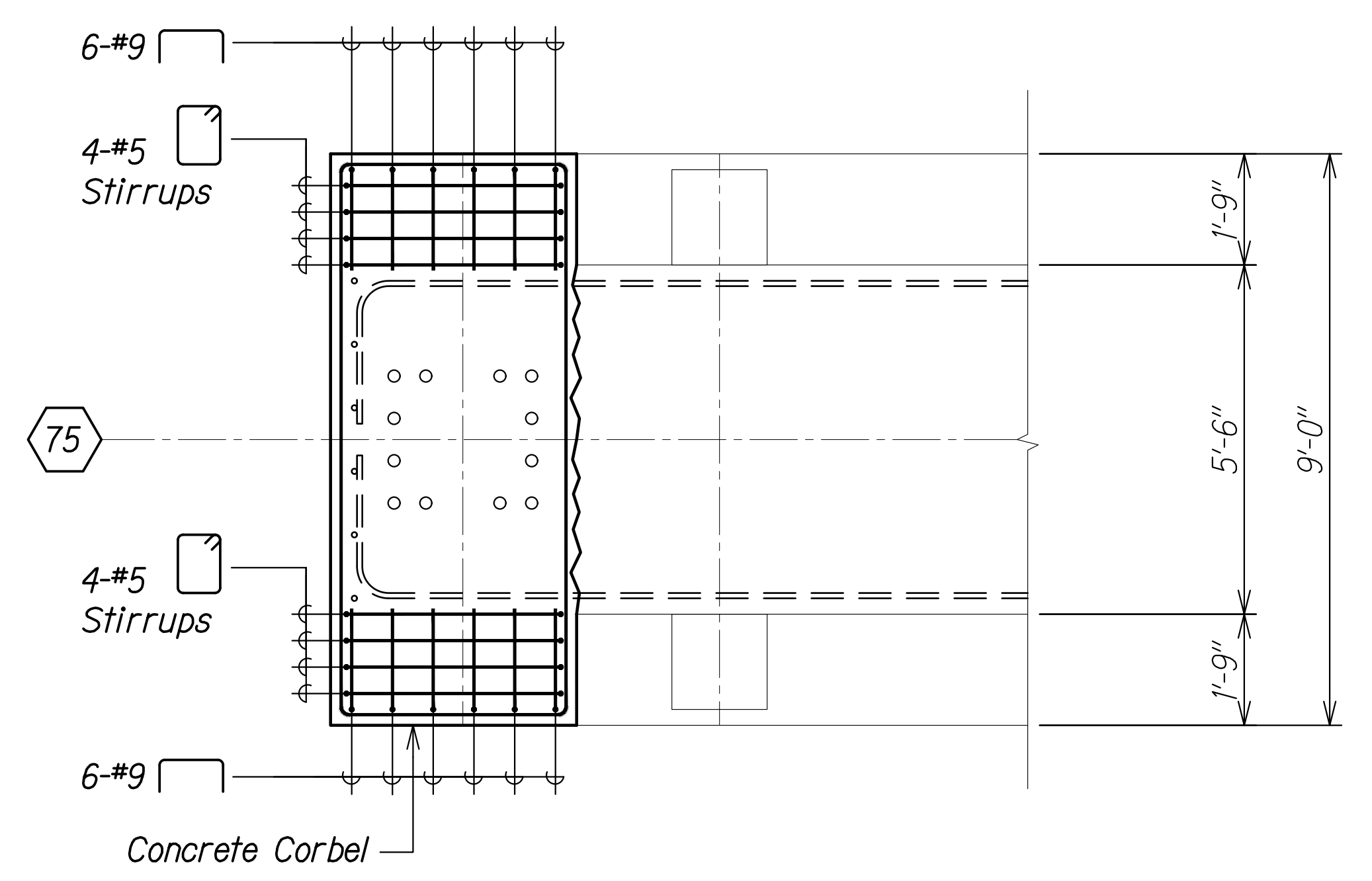
**SIGN STRUCTURE - HIWB-505
 PIER CAP DEMOLITION ELEV. AND SECTION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

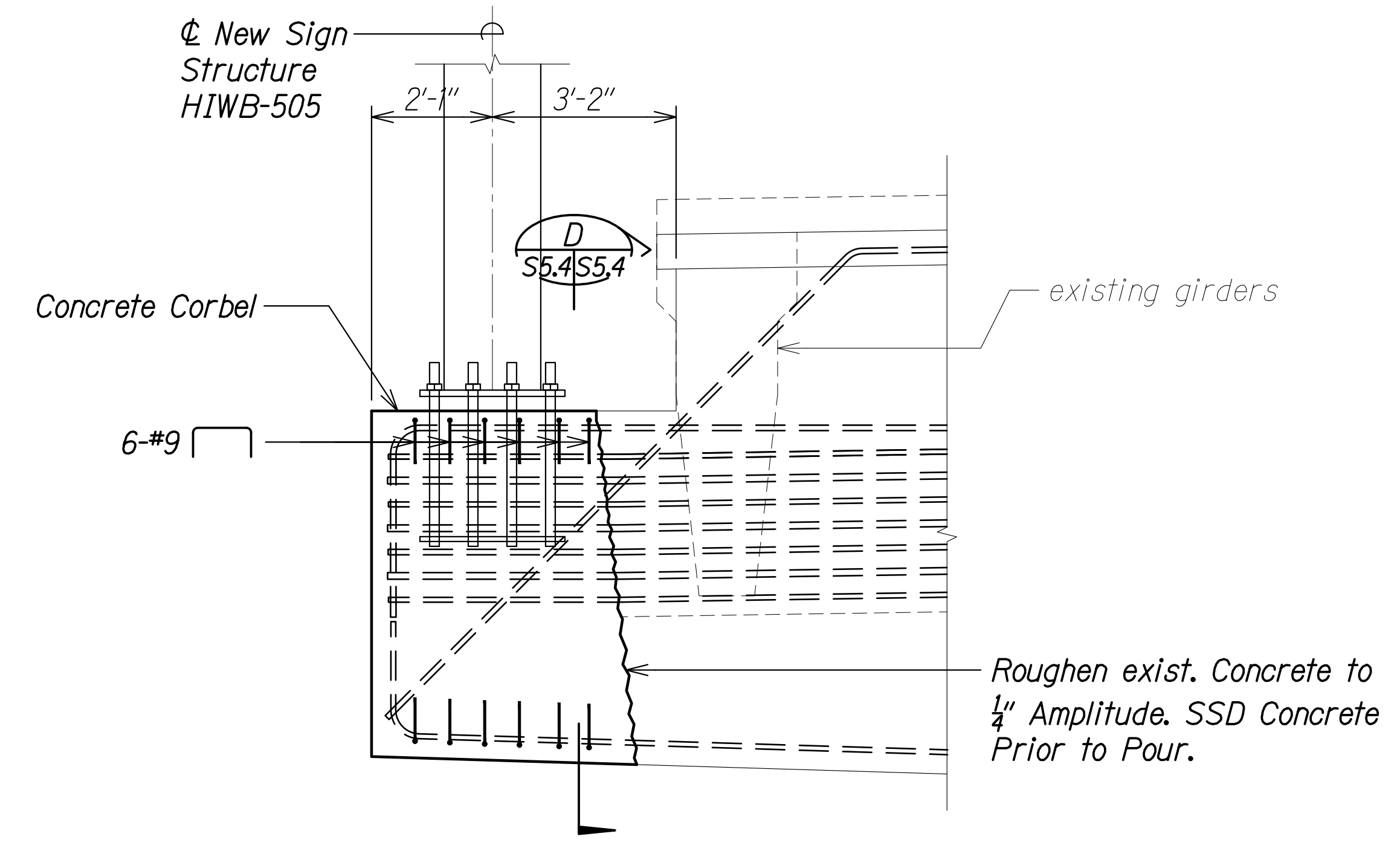
Scale: As Noted Date: Sept. 2022

SHEET No. S5.3 OF 6 SHEETS

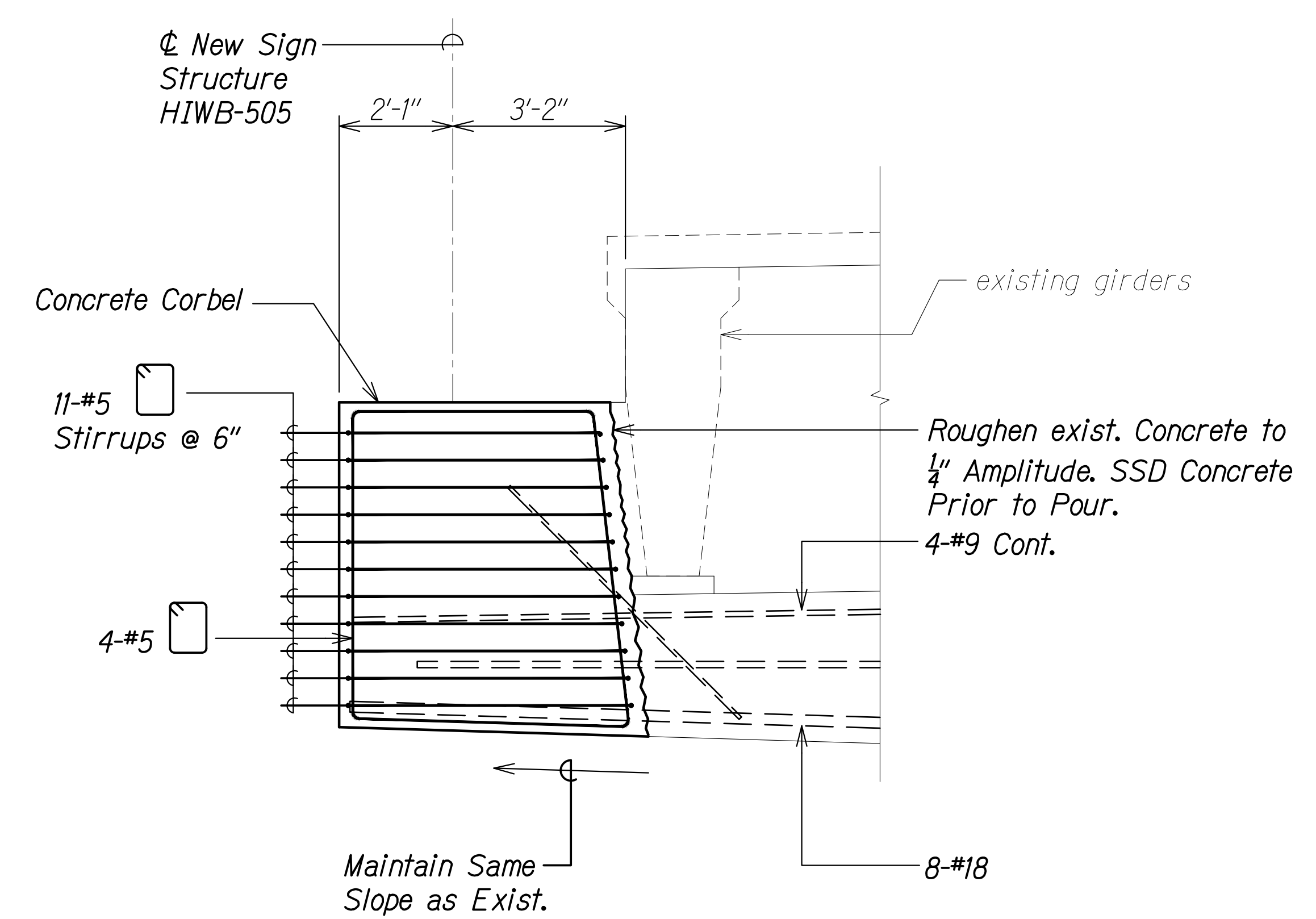
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	127	175



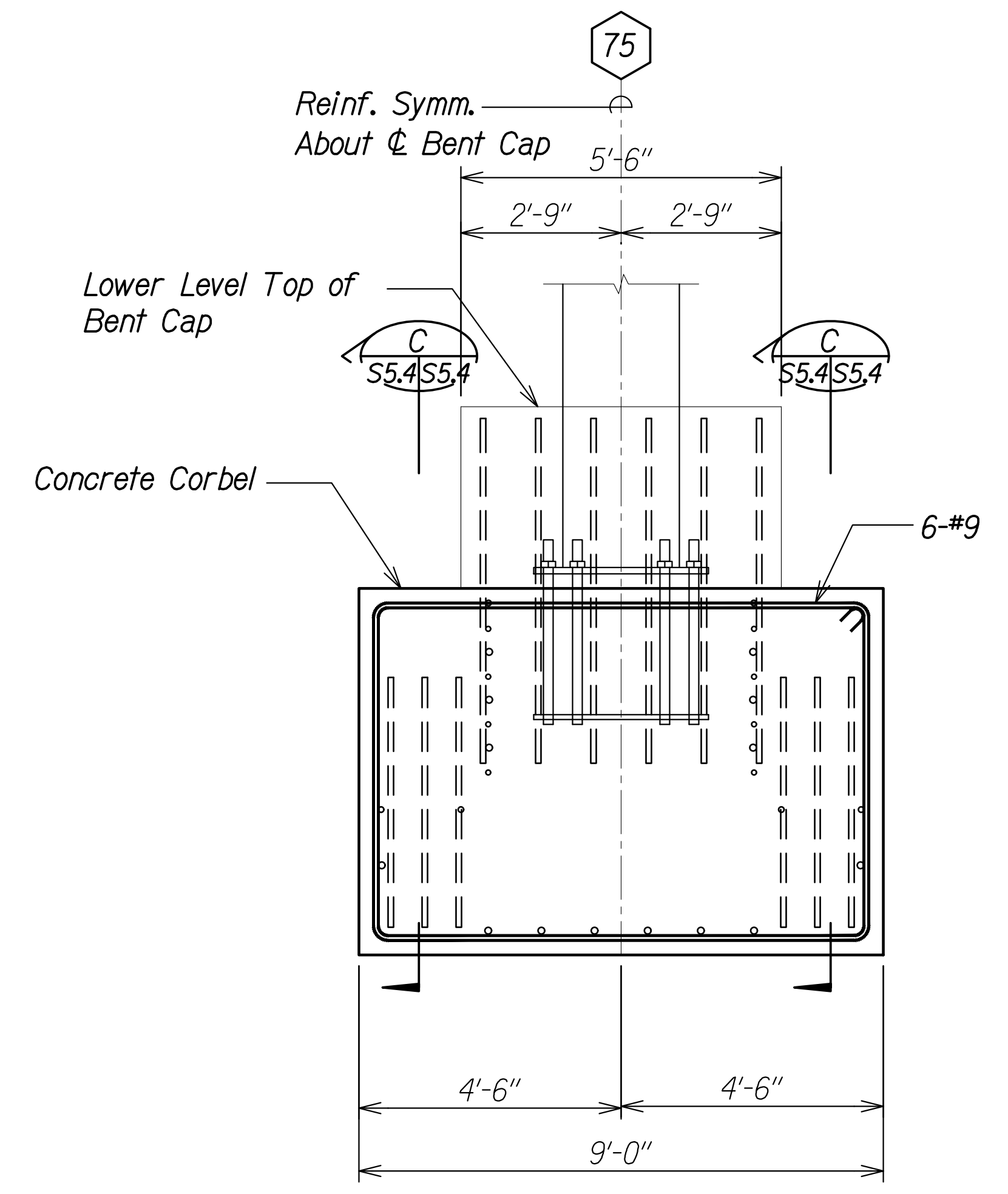
PLAN
Scale: 1/2" = 1'-0"
S5.4 | S5.4



SECTION B
Scale: 1/2" = 1'-0"
S5.4 | S5.4



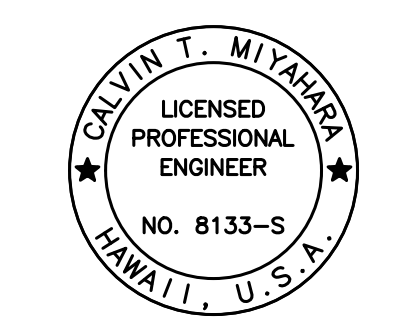
SECTION C
Scale: 1/2" = 1'-0"
S5.4 | S5.4



SECTION D
Scale: 1/2" = 1'-0"
S5.4 | S5.4

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50502 TO 50505 HIWB-505 DEMO.DWG PLOT TIME: 09-29-22, 4:27 PM



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Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

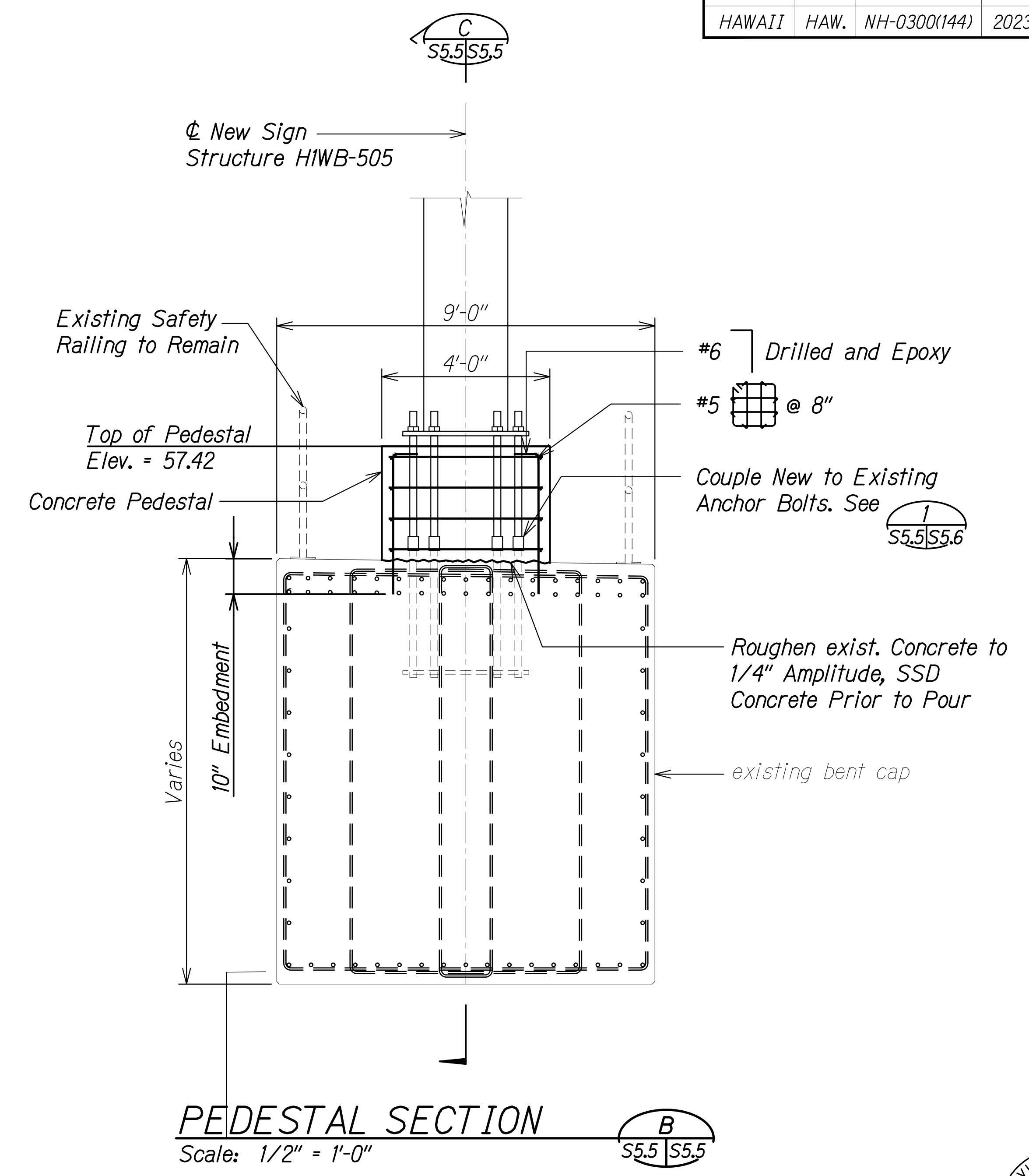
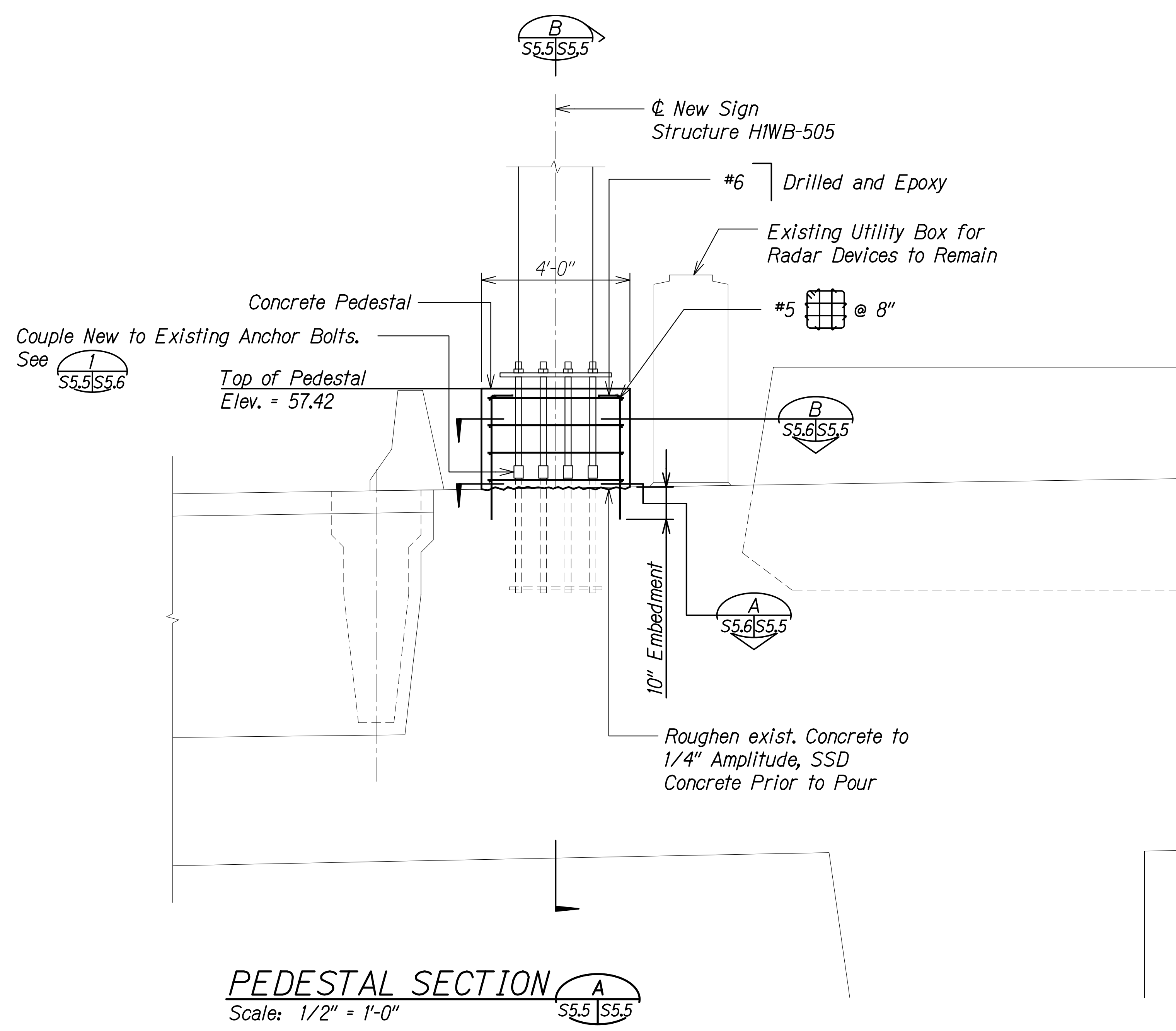
SIGN STRUCTURE - HIWB-505
CORBEL SUPPORT PLAN AND SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S5.4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	128	175



DRAWING NAME: Z:\00 ONGOING\00_01 PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 BID\0505 HIWB-505 DEMO.DWG PLOT TIME: 09-29-22, 4:27 PM

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	



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Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

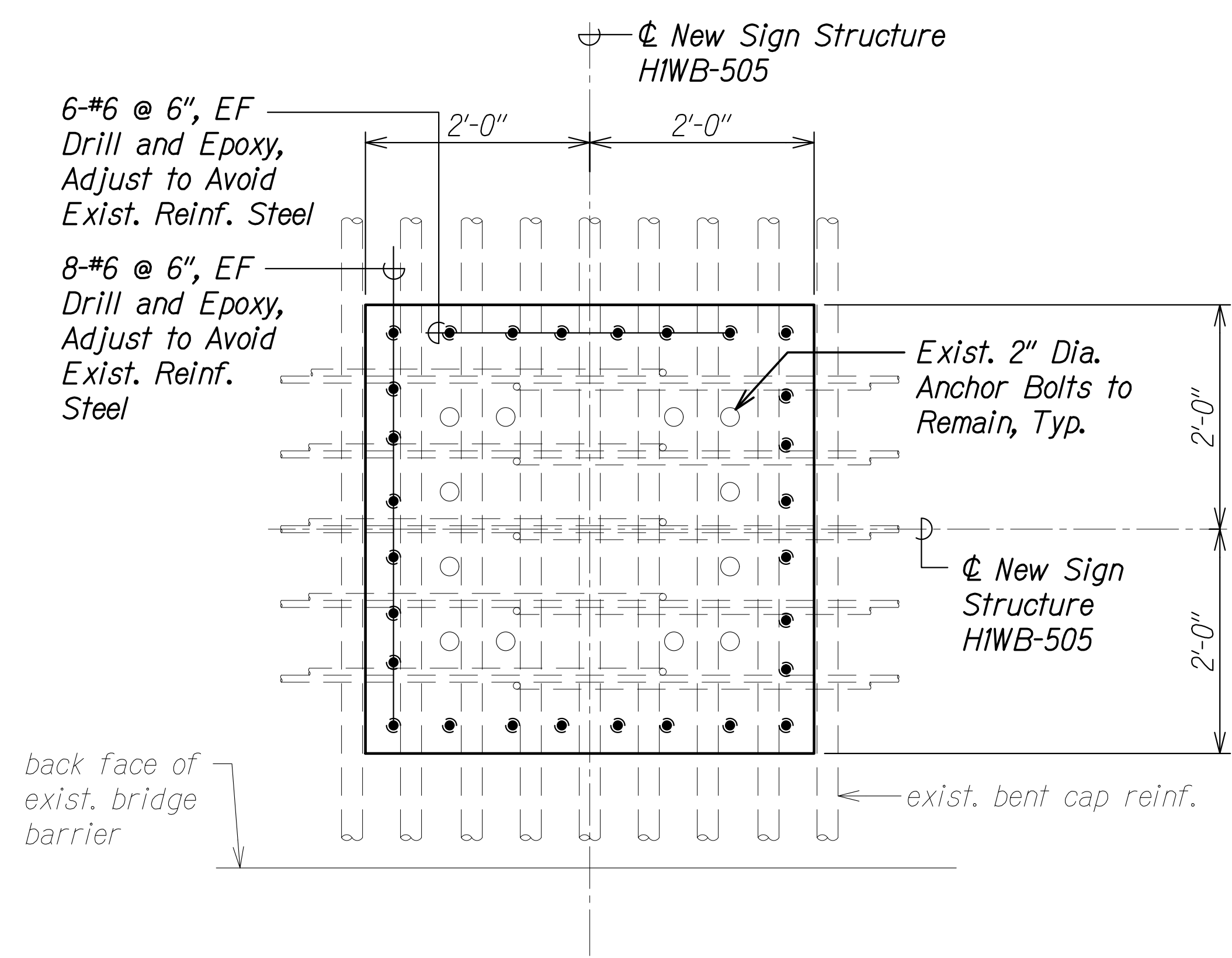
SIGN STRUCTURE - HIWB-505
PEDESTAL SUPPORT ELEV. AND SECTION

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

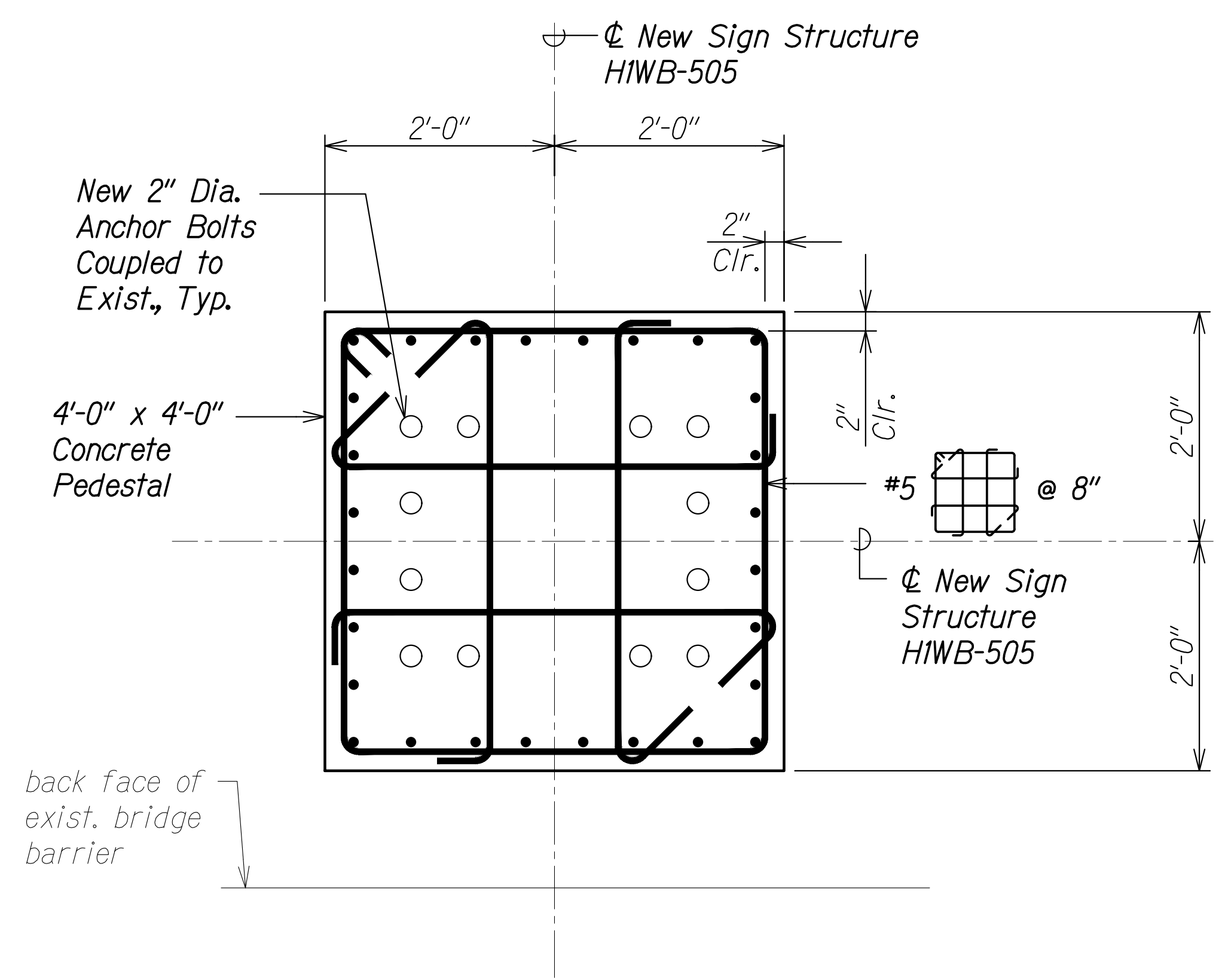
Scale: As Noted Date: Sept. 2022

SHEET No. S5.5 OF 6 SHEETS

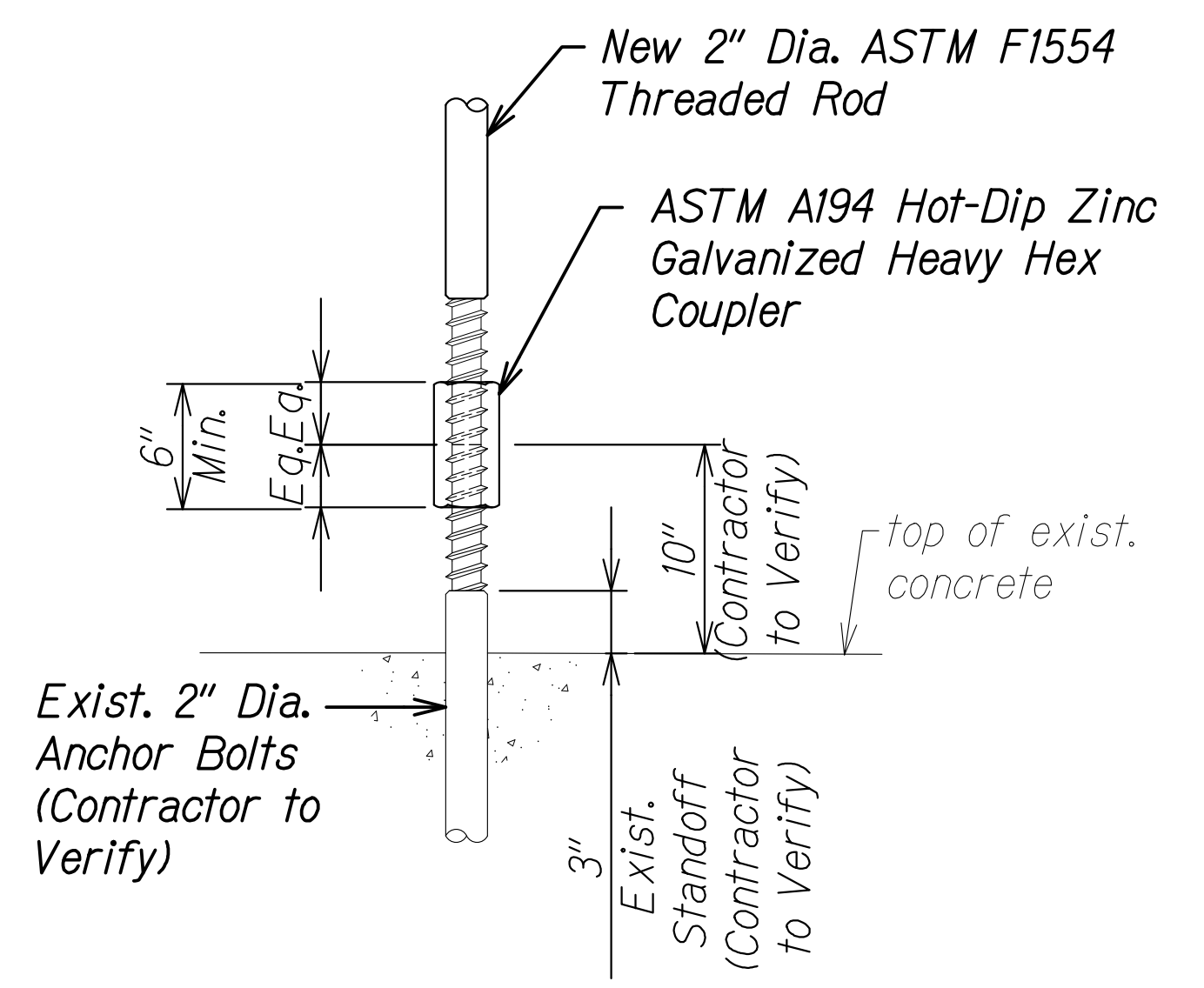
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	129	175



SECTION A
Scale: 1" = 1'-0" S5.6 | S5.6



SECTION B
Scale: 1" = 1'-0" S5.6 | S5.6

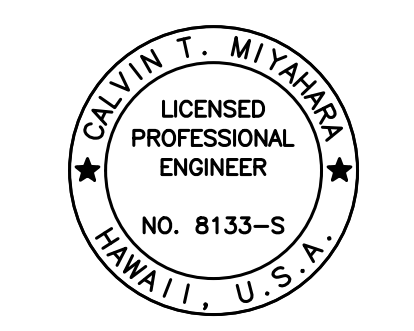


COUPLING DETAIL 1
Scale: 1 1/2" = 1'-0" S5.5 | S5.6

NOTE:
Prior to any hammer drilling work, a survey of the concrete bent cap top in the area of the new concrete pedestal shall be completed. The survey shall be conducted using a ground penetrating radar scanner to located all existing top layer reinforcing steel. Adjust locations of #6 Γ dowel bars to avoid conflict with or damaging existing reinforcing steel.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50506 PED.SPRT.DWG PLOT TIME: 09-29-22, 4:28 PM



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Calvin Miyakawa
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

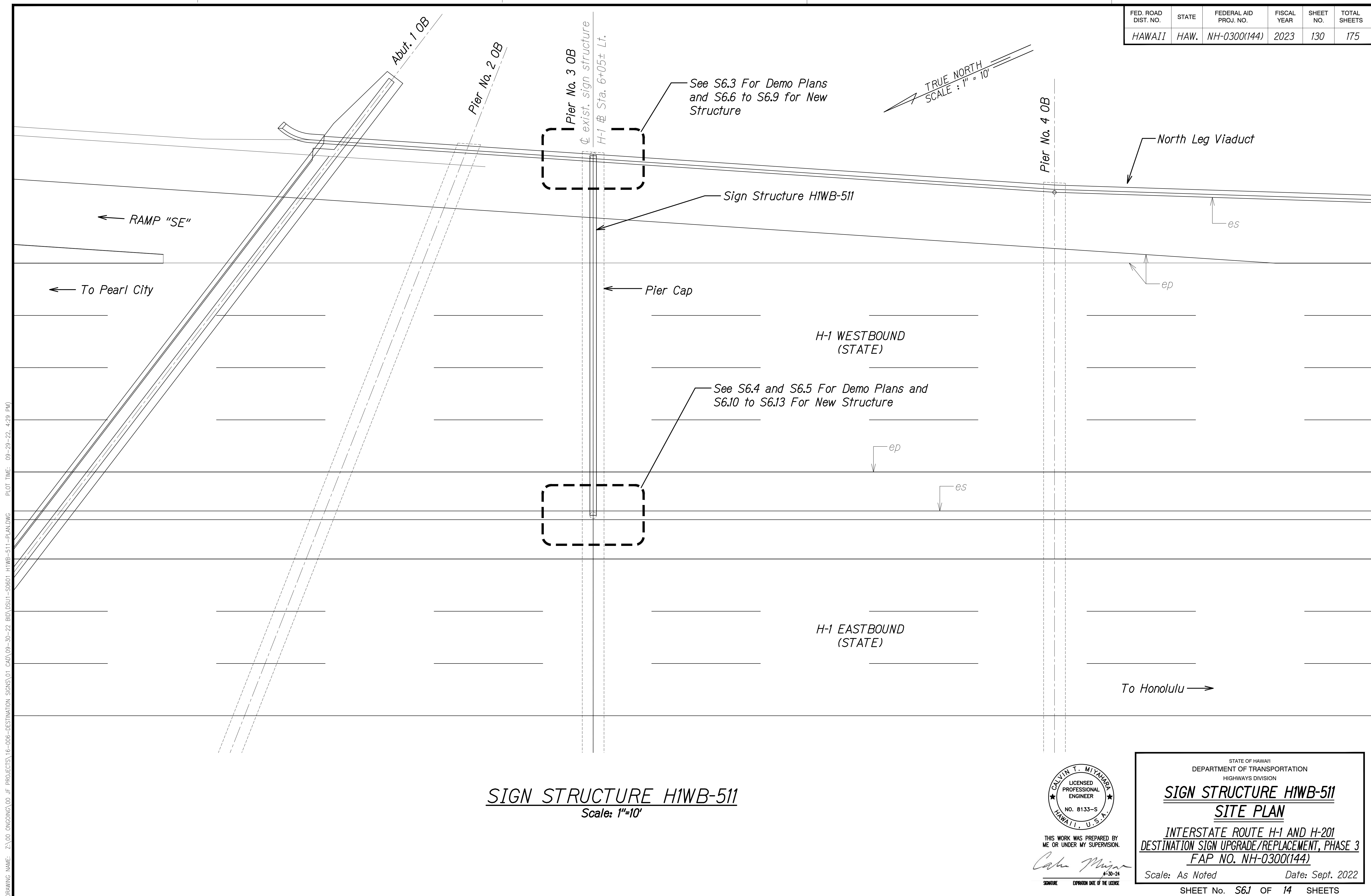
**SIGN STRUCTURE HWB-505
PEDESTAL SUPPORT SECTS. AND DET.**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S5.6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	130	175



SIGN STRUCTURE HIWB-511
Scale: 1"=10'

ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50601 HIWB-511-PLAN.DWG PLOT TIME: 09-29-22, 4:29 PM

CALVIN T. MIYAKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyakawa
4-30-24
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

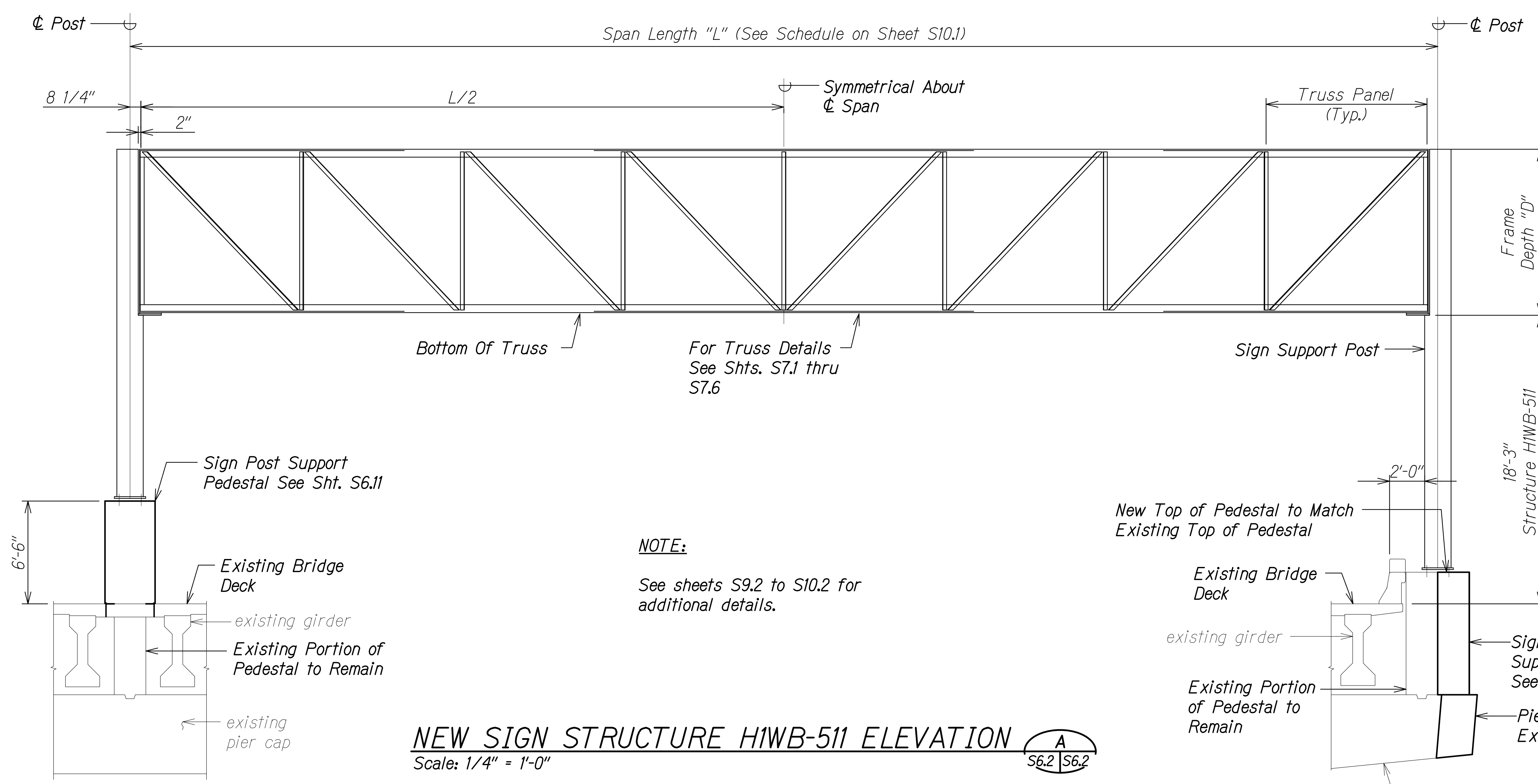
SIGN STRUCTURE HIWB-511
SITE PLAN

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

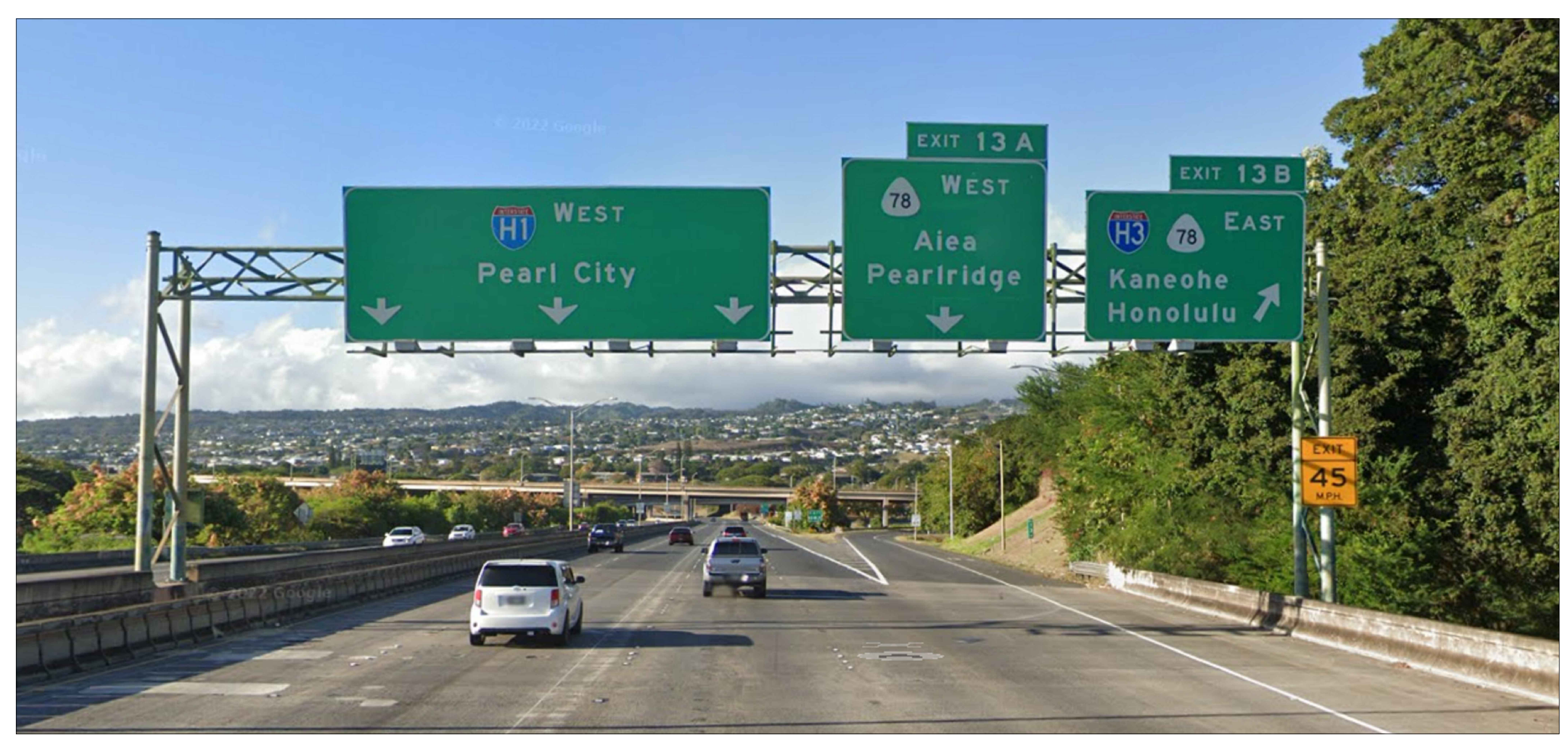
Scale: As Noted Date: Sept. 2022

SHEET No. S6.1 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	131	175



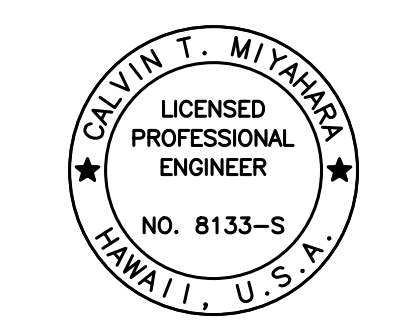
NEW SIGN STRUCTURE HWB-511 ELEVATION
 Scale: 1/4" = 1'-0" A
S6.2 S6.2



EXISTING SIGN STRUCTURE HWB-511

ORIGINAL PLAN	DATE
NOTE BOOK	

DRAWING NAME: ZA 00 ONGOING 00 OF PROJECTS 16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50602 HWB-511-ELEV.DWG PLOT TIME: 09-29-22, 4:29 PM



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Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

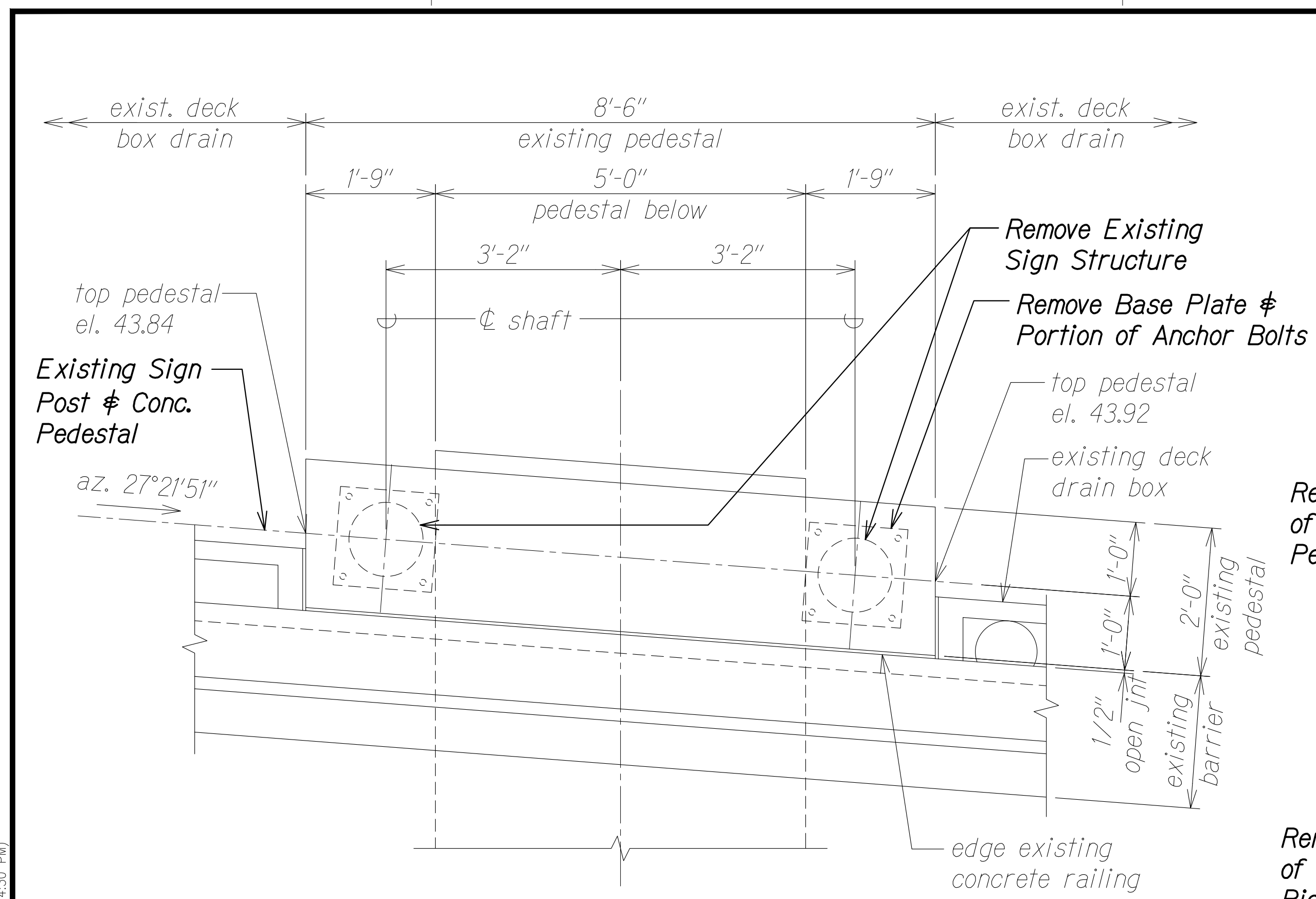
**SIGN STRUCTURE HWB-511
 ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

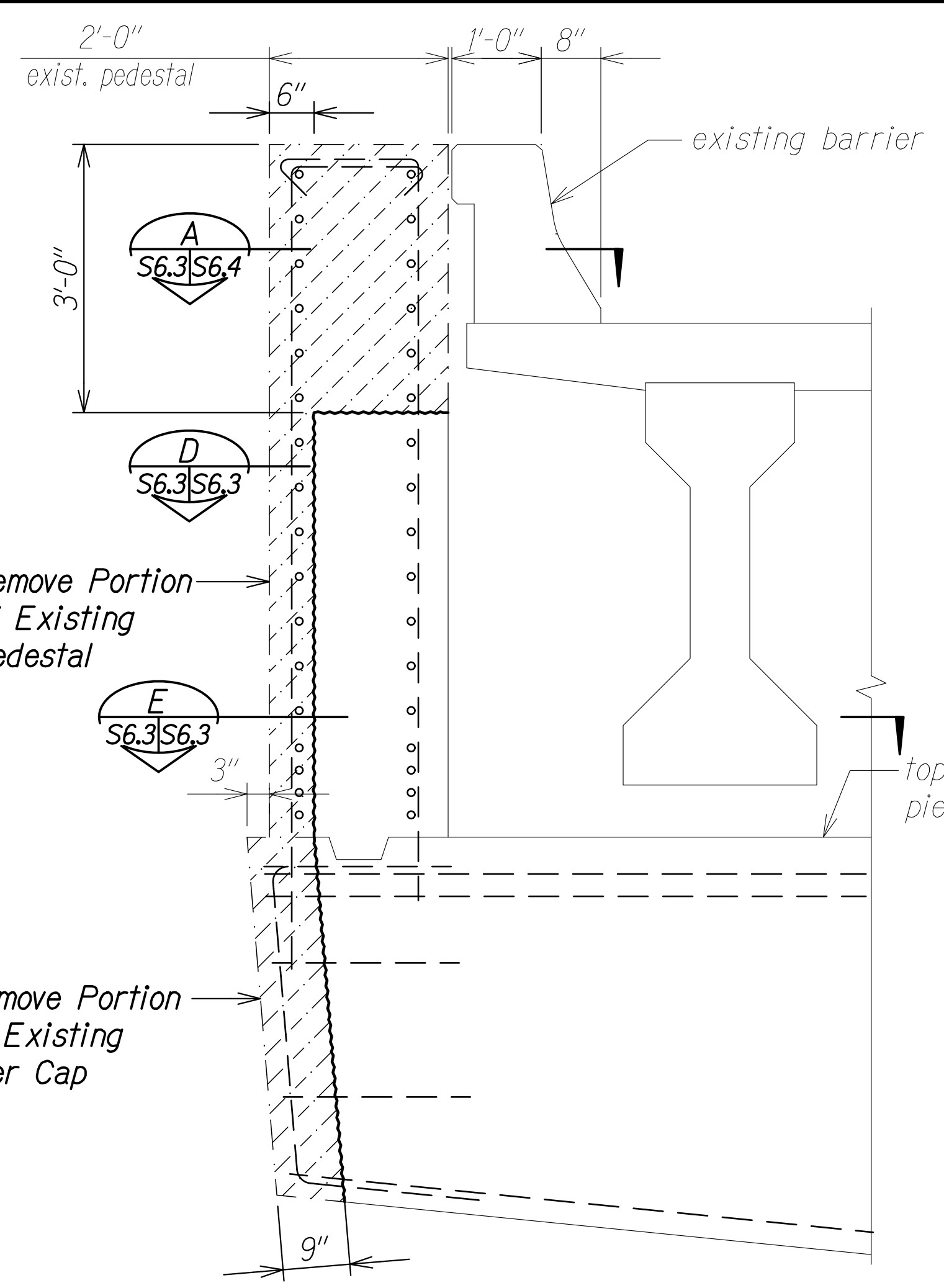
Scale: As Noted Date: Sept. 2022

SHEET No. S6.2 OF 14 SHEETS

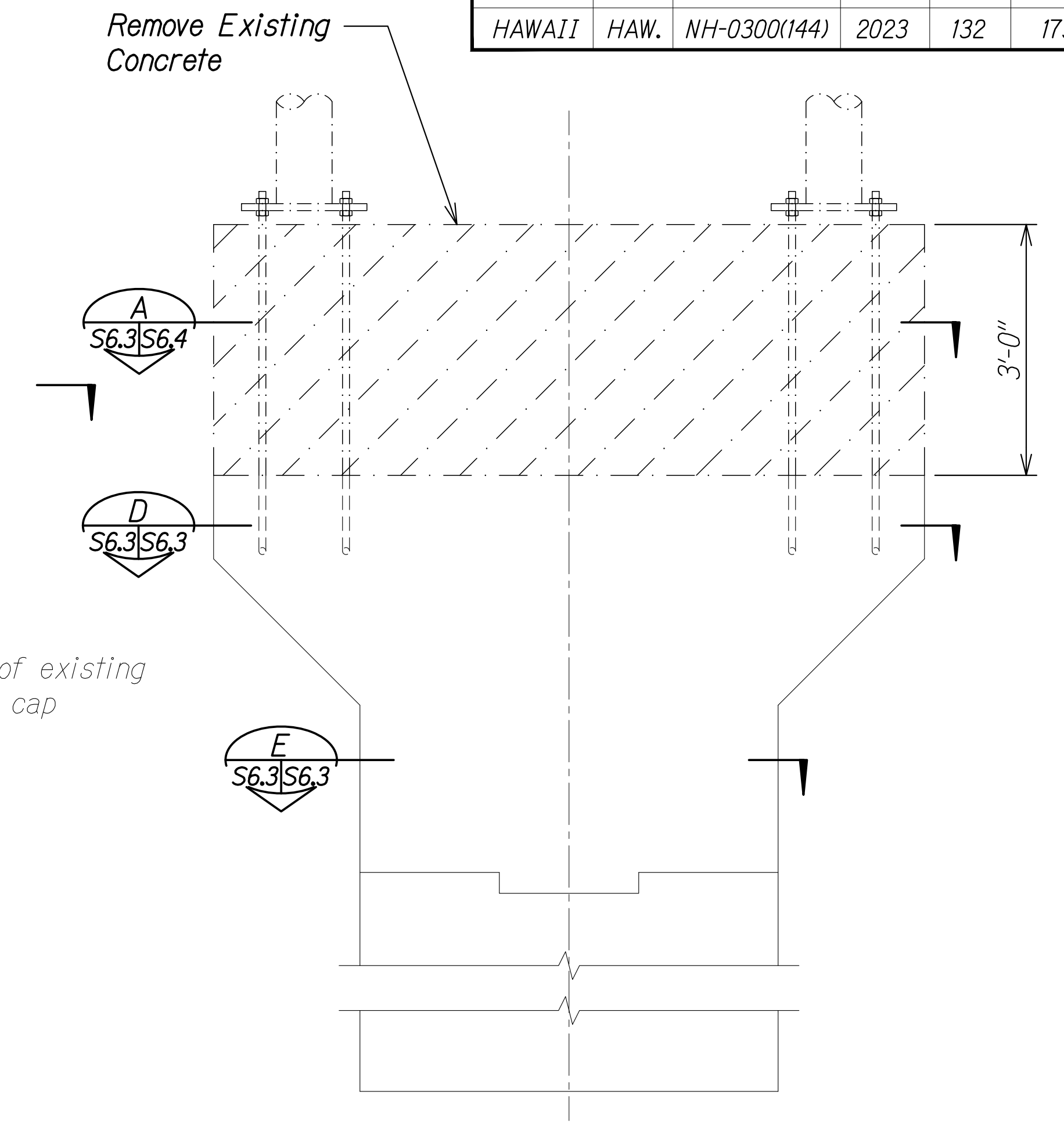
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	132	175



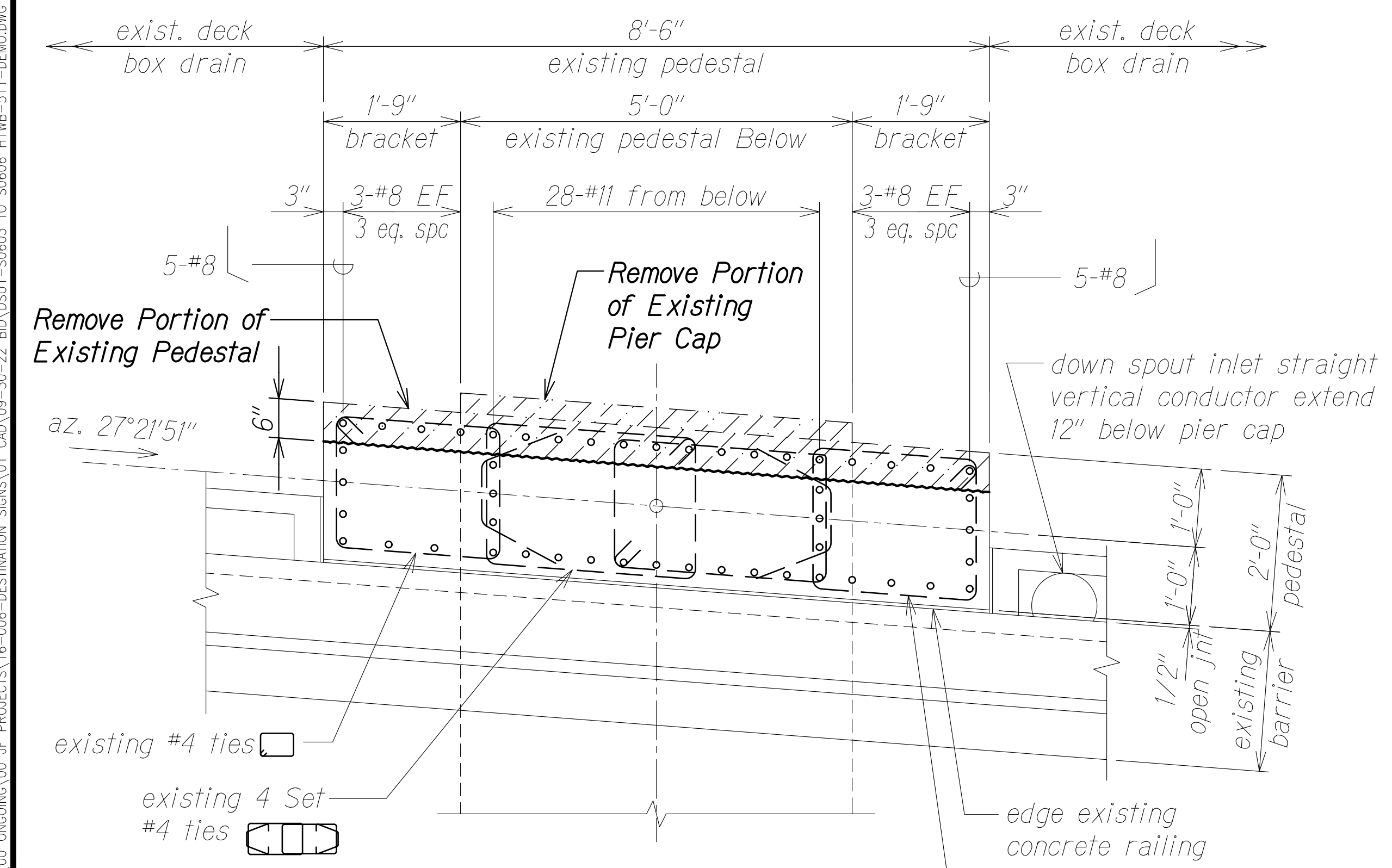
SECTION A
Scale: 3/4" = 1'-0" S6.3 | S6.5



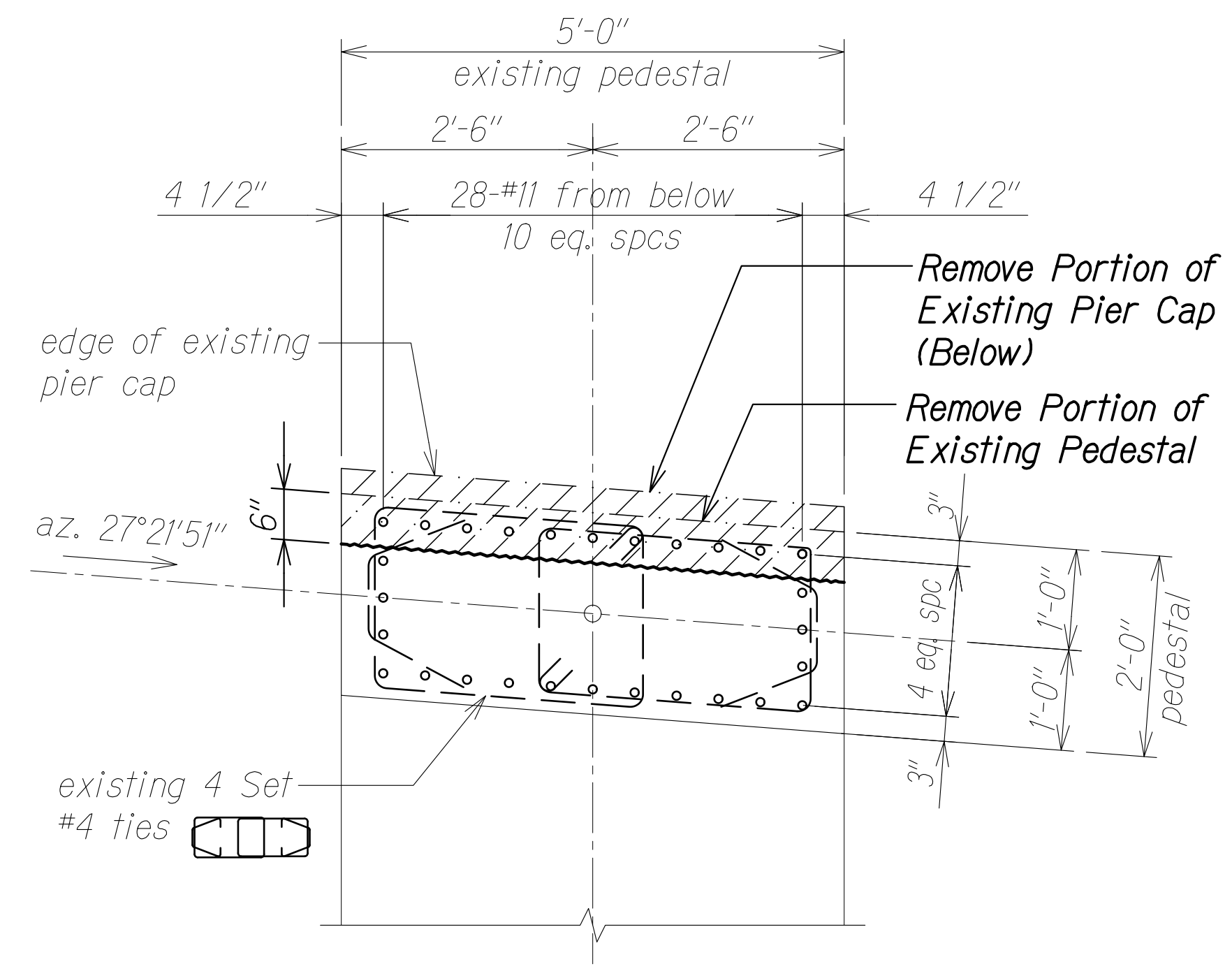
SECTION B
Scale: 3/4" = 1'-0" S6.3 | S6.3



SECTION C
Scale: 3/4" = 1'-0" S6.3 | S6.3

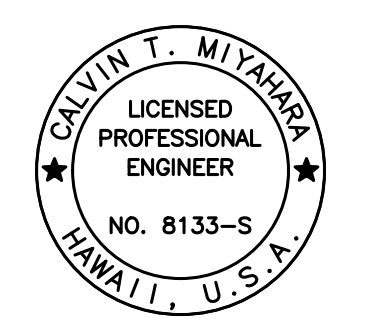


SECTION D
Scale: 3/4" = 1'-0" S6.3 | S6.3



SECTION E
Scale: 3/4" = 1'-0" S6.3 | S6.3

NOTE:
All reinforcing is existing and shall remain in place and shall not be damaged unless otherwise noted.



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Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGN STRUCTURE HWB-511
DEMOLITION SECTIONS**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

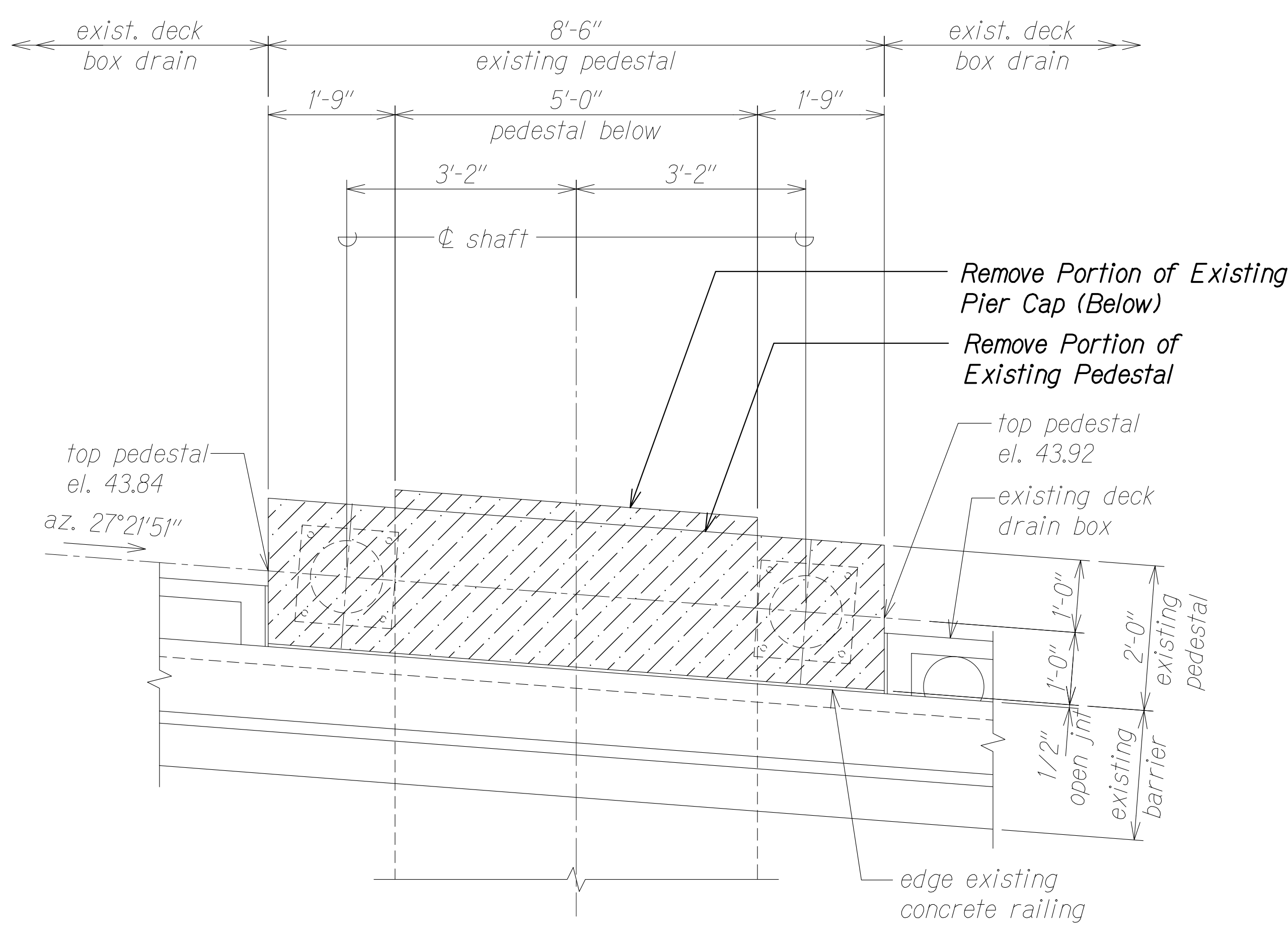
Scale: As Noted Date: Sept. 2022

SHEET No. S6.3 OF 14 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: ZA 00 ONGOING 00 IF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID 0511-50603 TO 50606 HWB-511-DEM.DWG PLOT TIME: 09-29-22, 4:30 PM

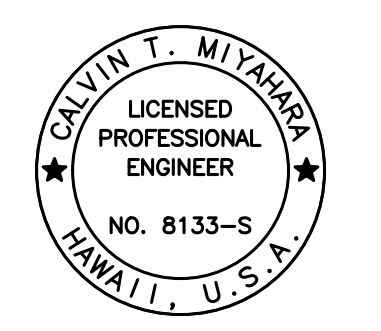
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	133	175



SECTION A
 Scale: 3/4" = 1'-0" S6.3 | S6.4

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50603 TO 50606 HWB-511-DEMO.DWG PLOT TIME: 09-29-22, 4:31 PM

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



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Calvin Miyakawa
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

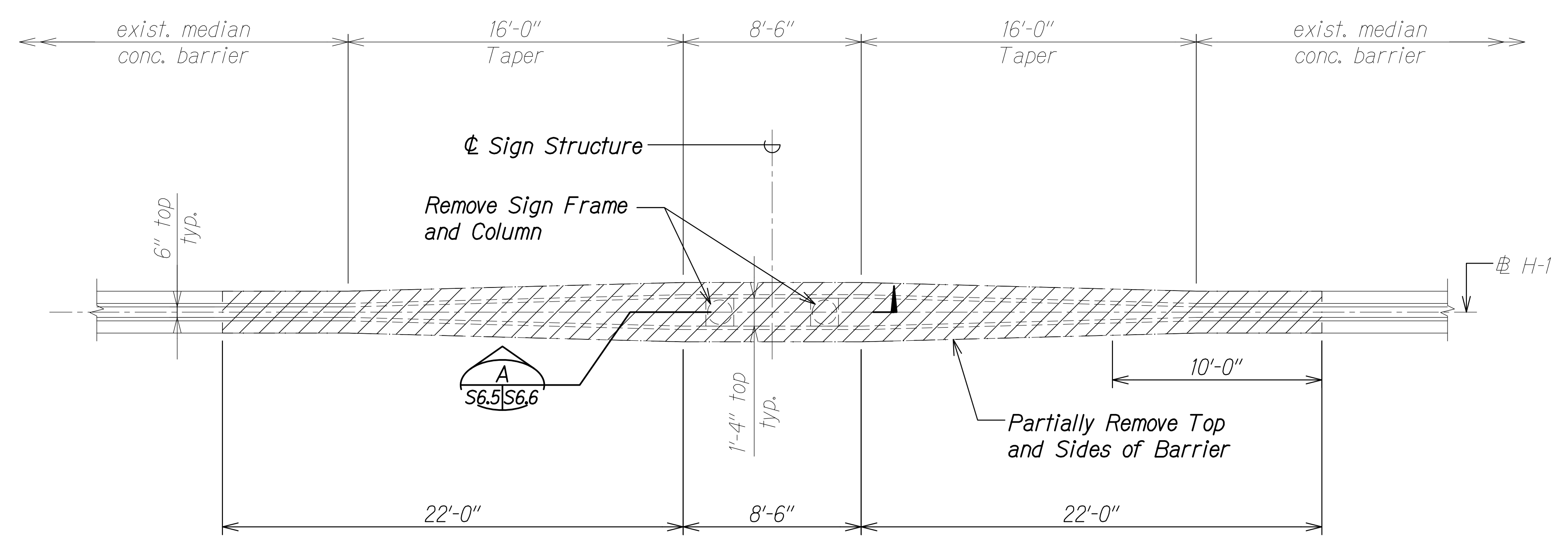
SIGN STRUCTURE HWB-511
DEMOLITION SECTION

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

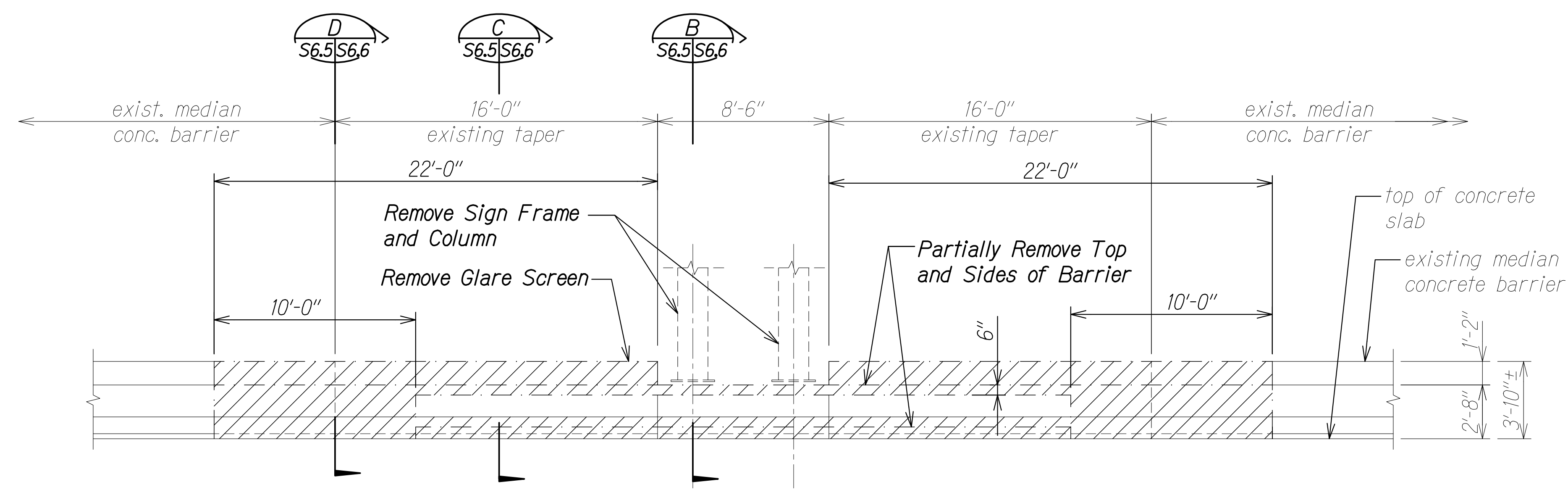
Scale: As Noted Date: Sept. 2022

SHEET No. S6.4 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	134	175



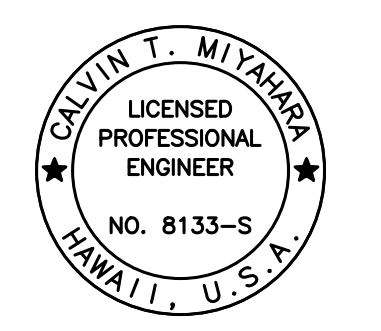
MEDIAN BARRIER DEMOLITION PLAN A
 Scale: 1/4" = 1'-0" S6.5 | S6.5



MEDIAN BARRIER DEMOLITION ELEVATION B
 Scale: 1/4" = 1'-0" S6.5 | S6.5

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

DRAWING NAME: Z:\00 ONGOING\00_OF_PROJECTS\16-006-DESTINATION SIGNS\01_CAD\09-30-22_BID\0511-50603 TO 50606 HIWB-511-DEM.DWG PLOT TIME: 09-29-22, 4:31 PM



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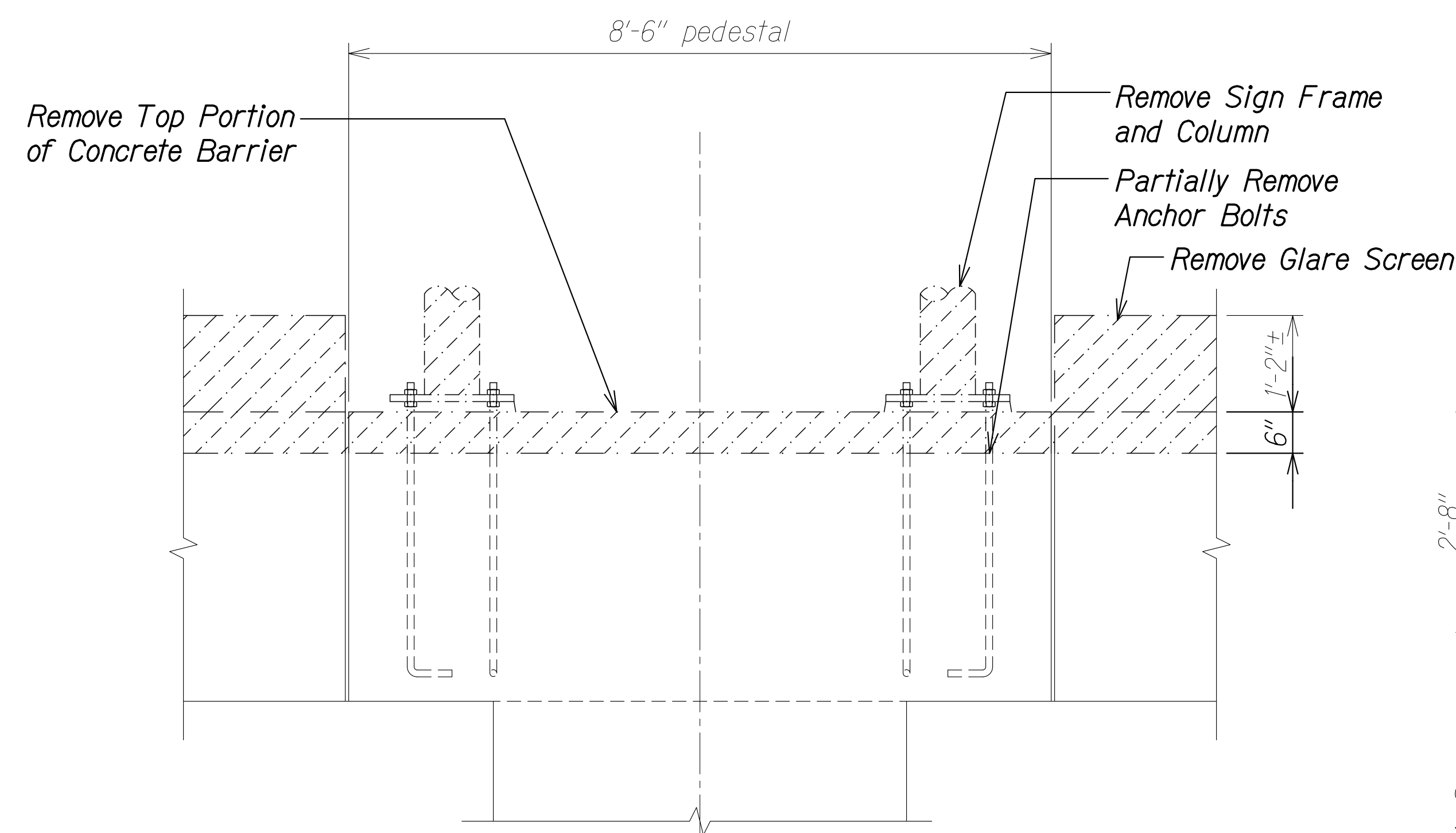
**SIGN STRUCTURE HIWB-511
 DEMOLITION PLAN AND ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

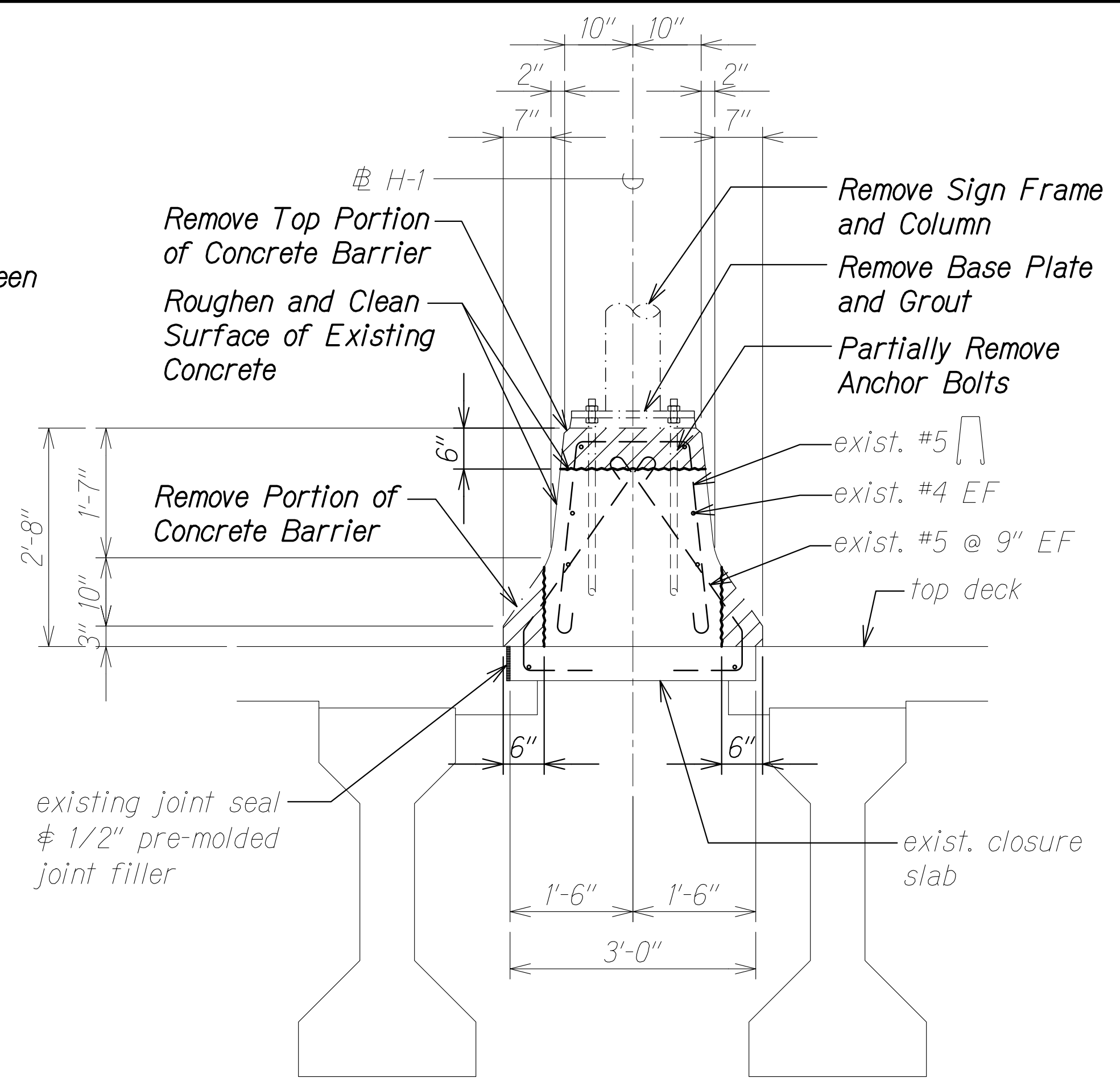
Scale: As Noted Date: Sept. 2022

SHEET No. S6.5 OF 14 SHEETS

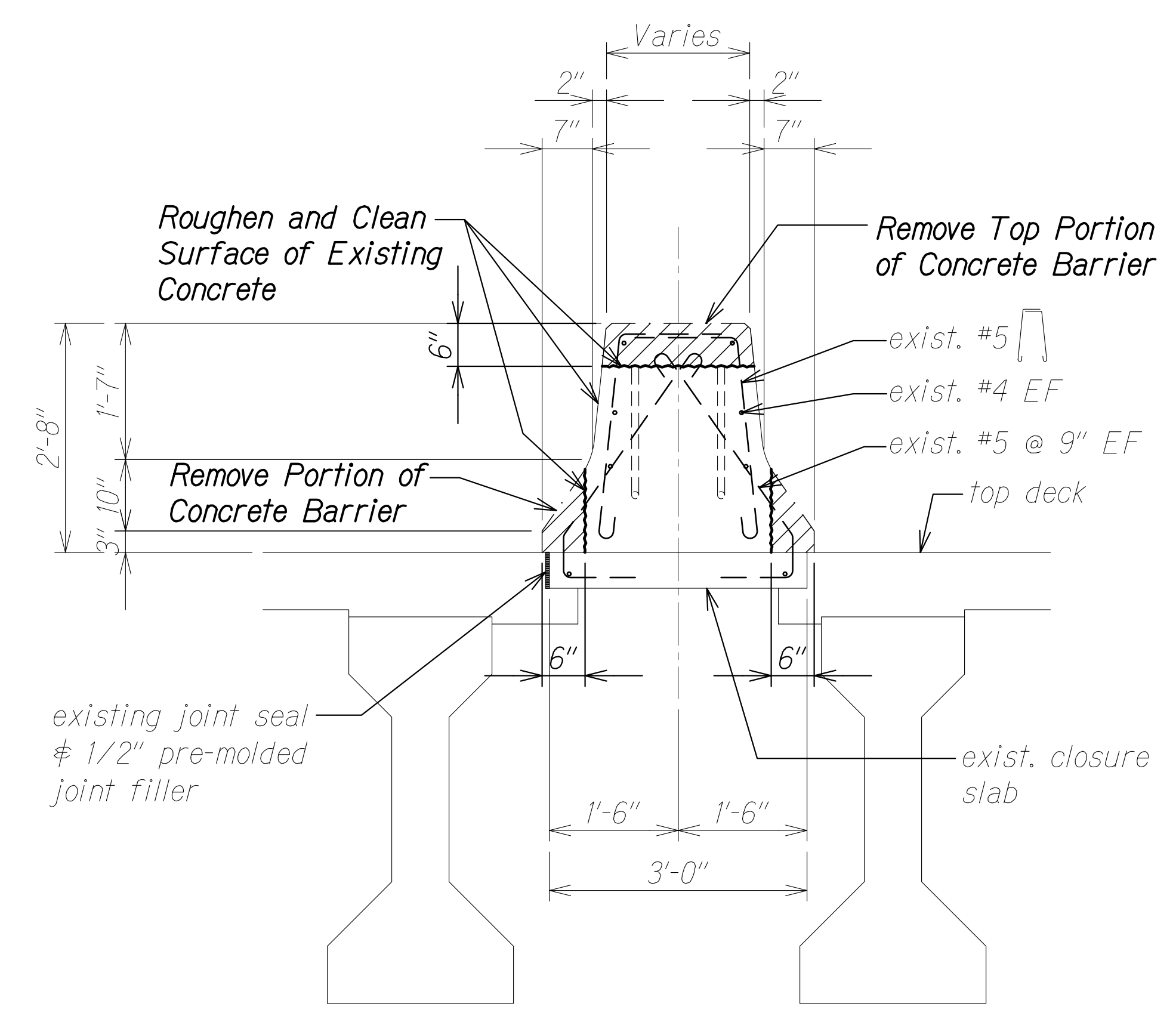
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	135	175



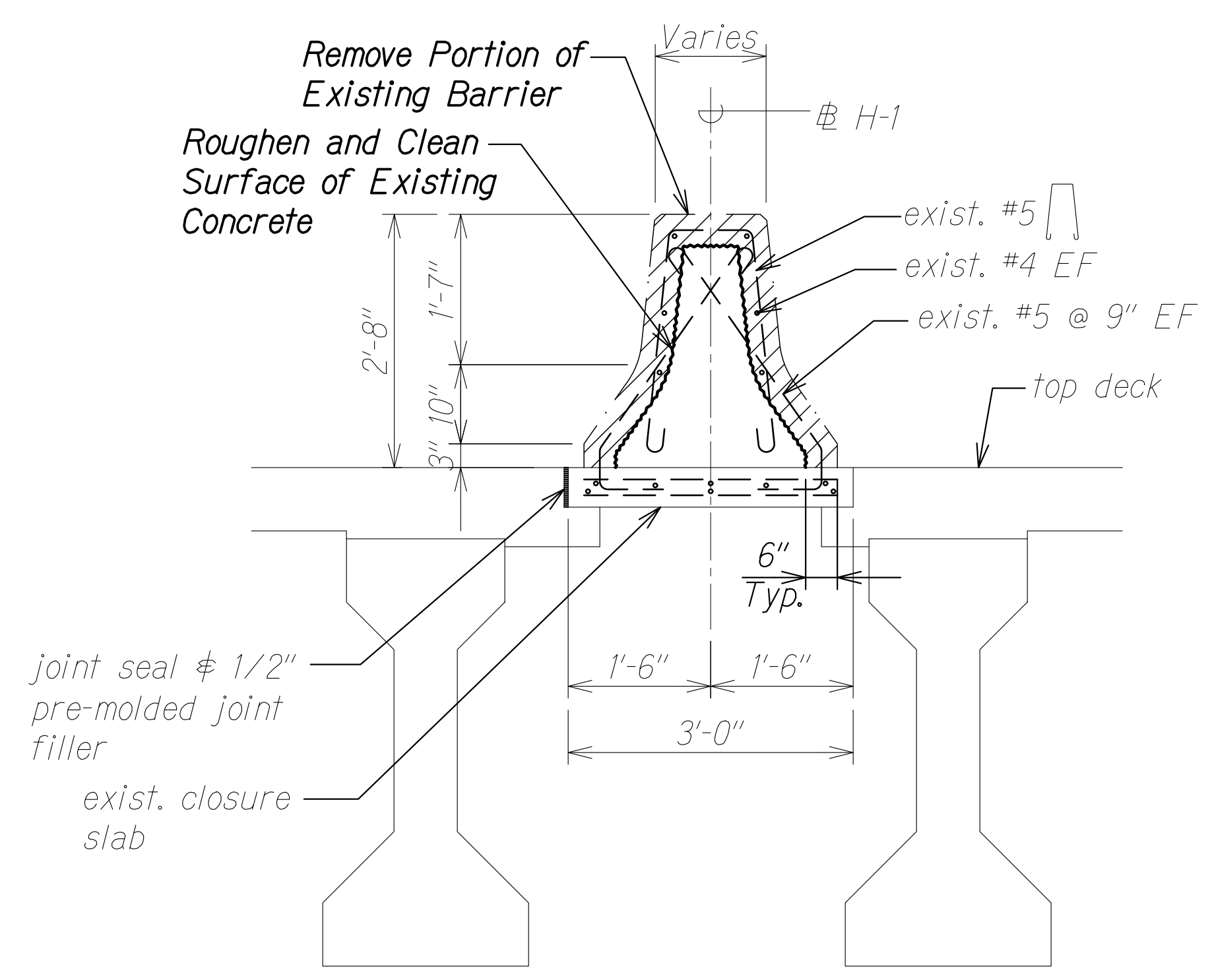
SECTION A
Scale: 3/4" = 1'-0" S6.5 S6.6



SECTION B
Scale: 3/4" = 1'-0" S6.5 S6.6



SECTION C
Scale: 3/4" = 1'-0" S6.5 S6.6



SECTION D
Scale: 3/4" = 1'-0" S6.5 S6.6

NOTE:
All reinforcing is existing and shall remain in place and shall not be damaged unless otherwise noted.



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**SIGN STRUCTURE HWB-511
DEMOLITION SECTIONS**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

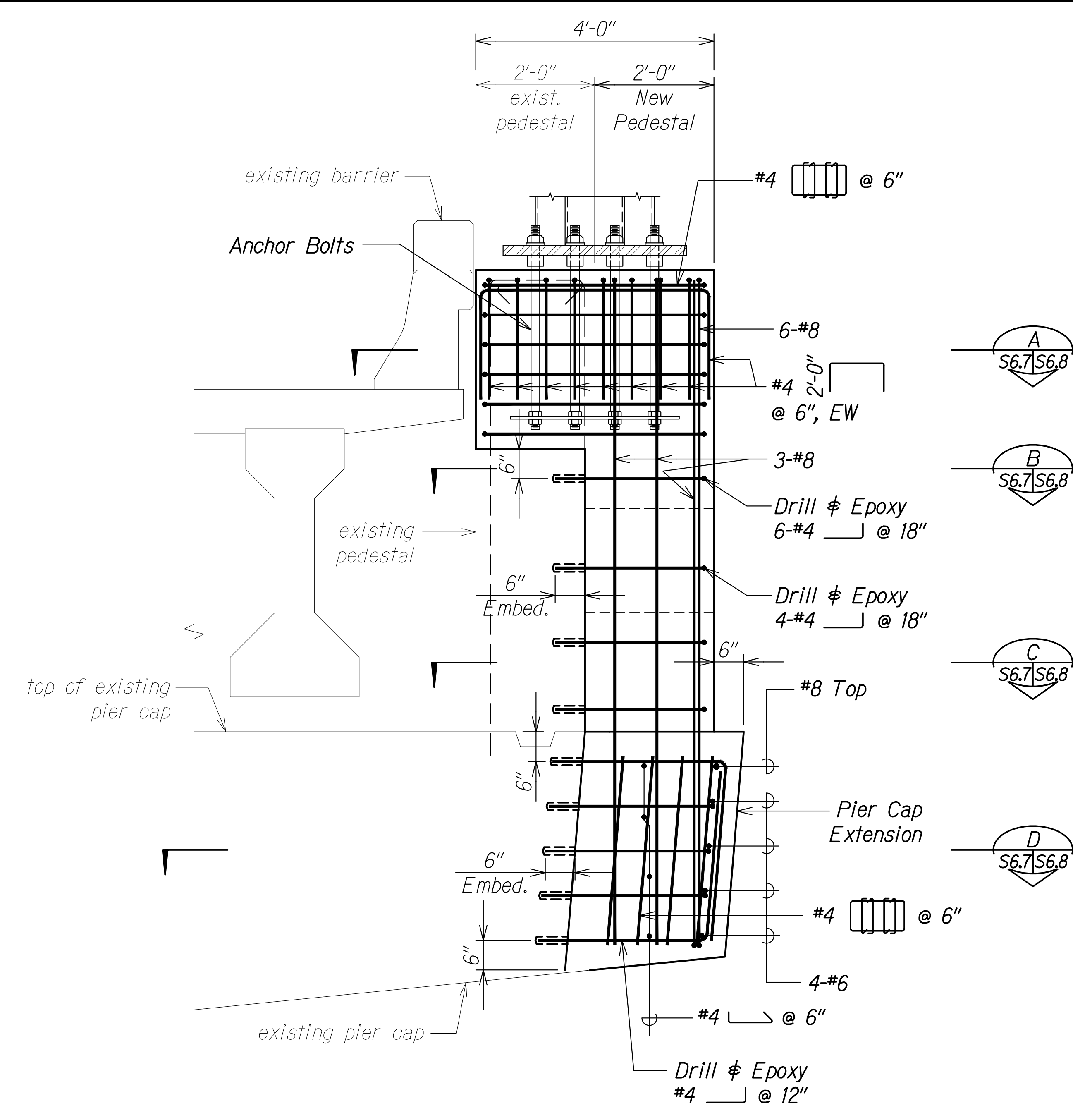
Scale: As Noted Date: Sept. 2022

SHEET No. S6.6 OF 14 SHEETS

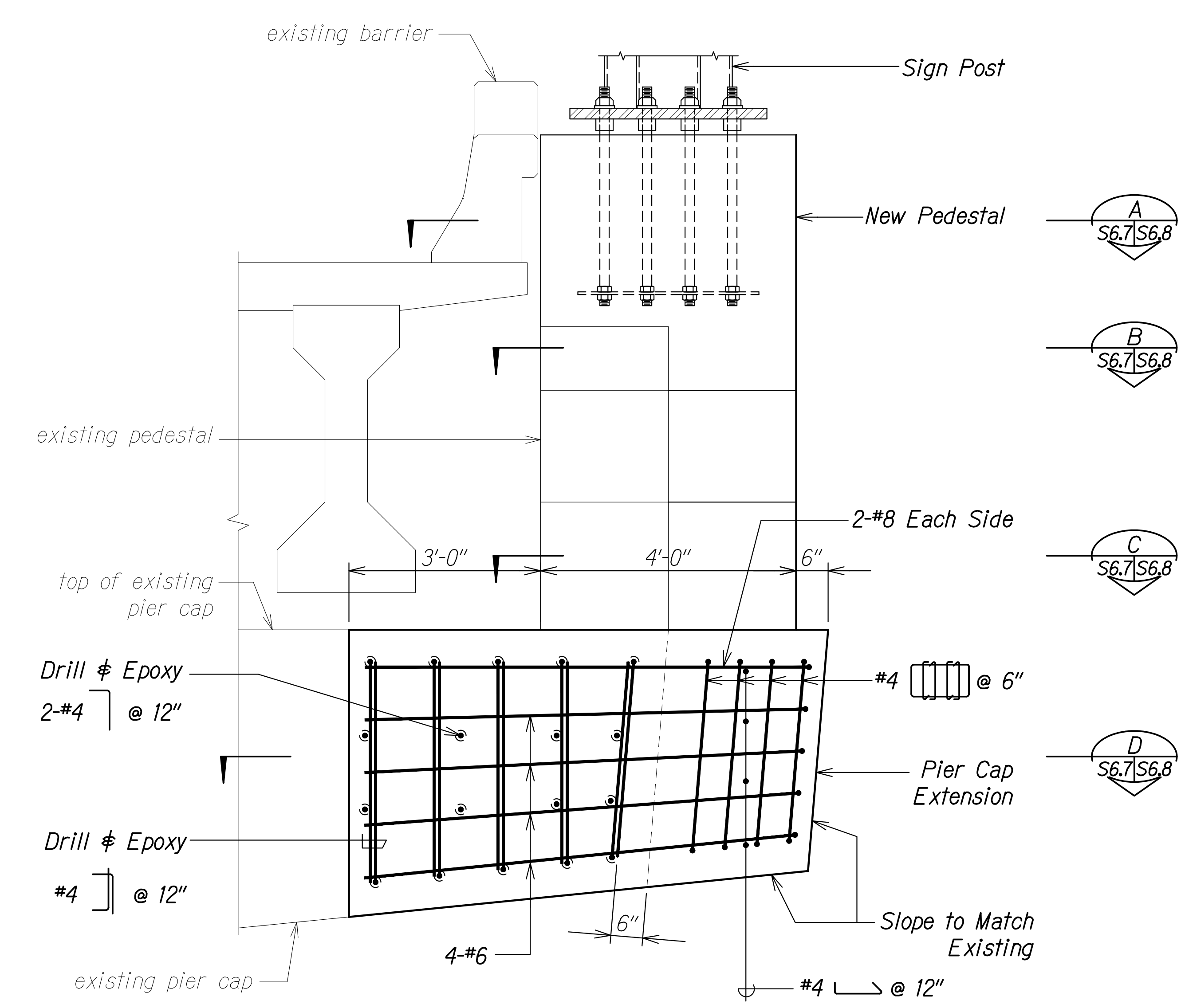
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50603 TO 50606 HWB-511-DEMOL.DWG PLOT TIME: 09-29-22, 4:31 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	136	175



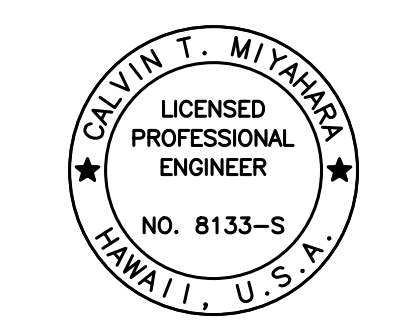
SECTION A
Scale: 3/4" = 1'-0"
S6.8 | S6.7



SECTION B
Scale: 3/4" = 1'-0"
S6.8 | S6.7

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

DRAWING NAME: Z:\00 ONGOING\00_01 PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50607 TO 50610 HWB-511-SECTS.DWG PLOT TIME: 09-29-22, 4:32 PM



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HIGHWAYS DIVISION

SIGN STRUCTURE HWB-511

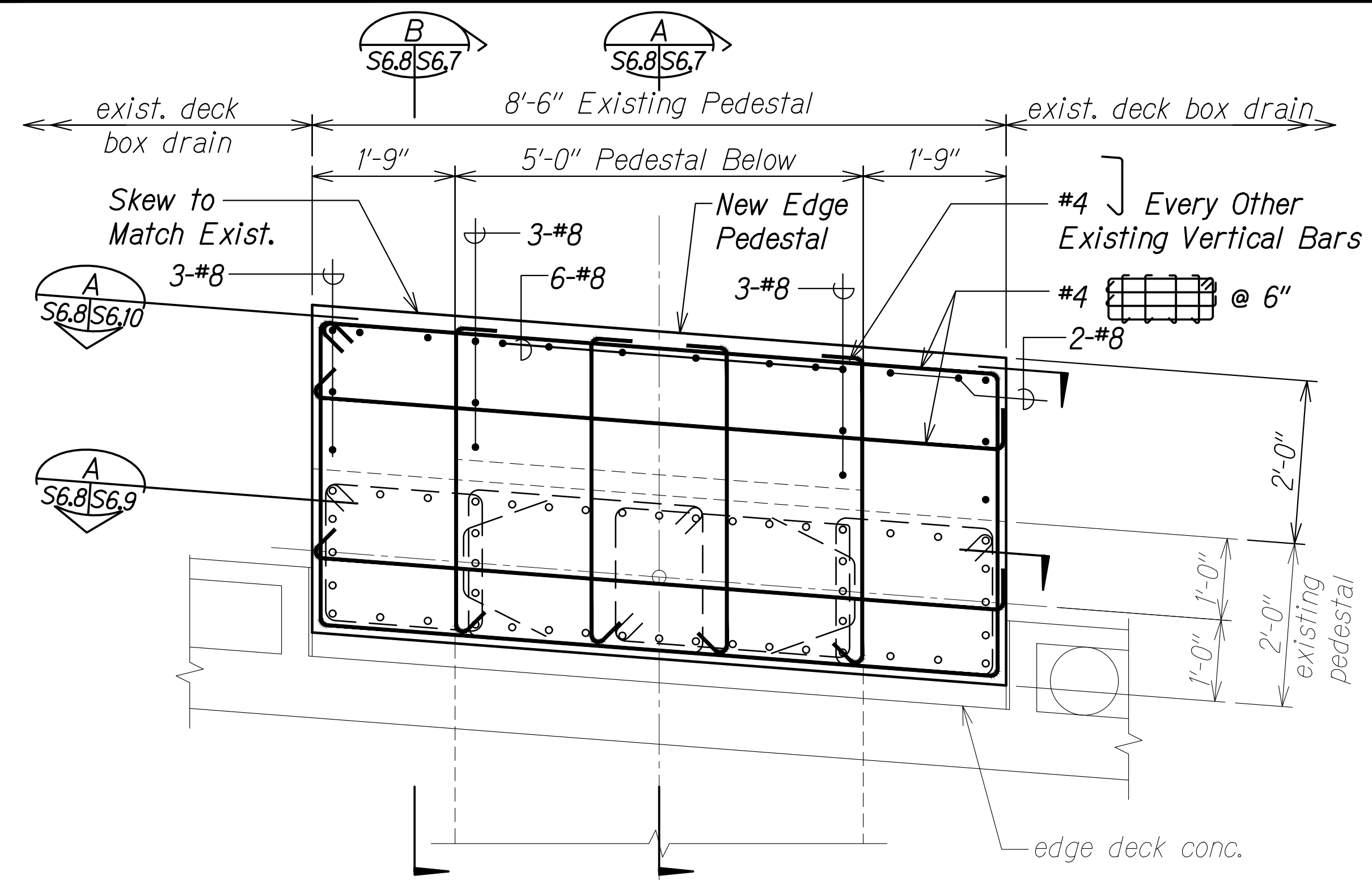
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

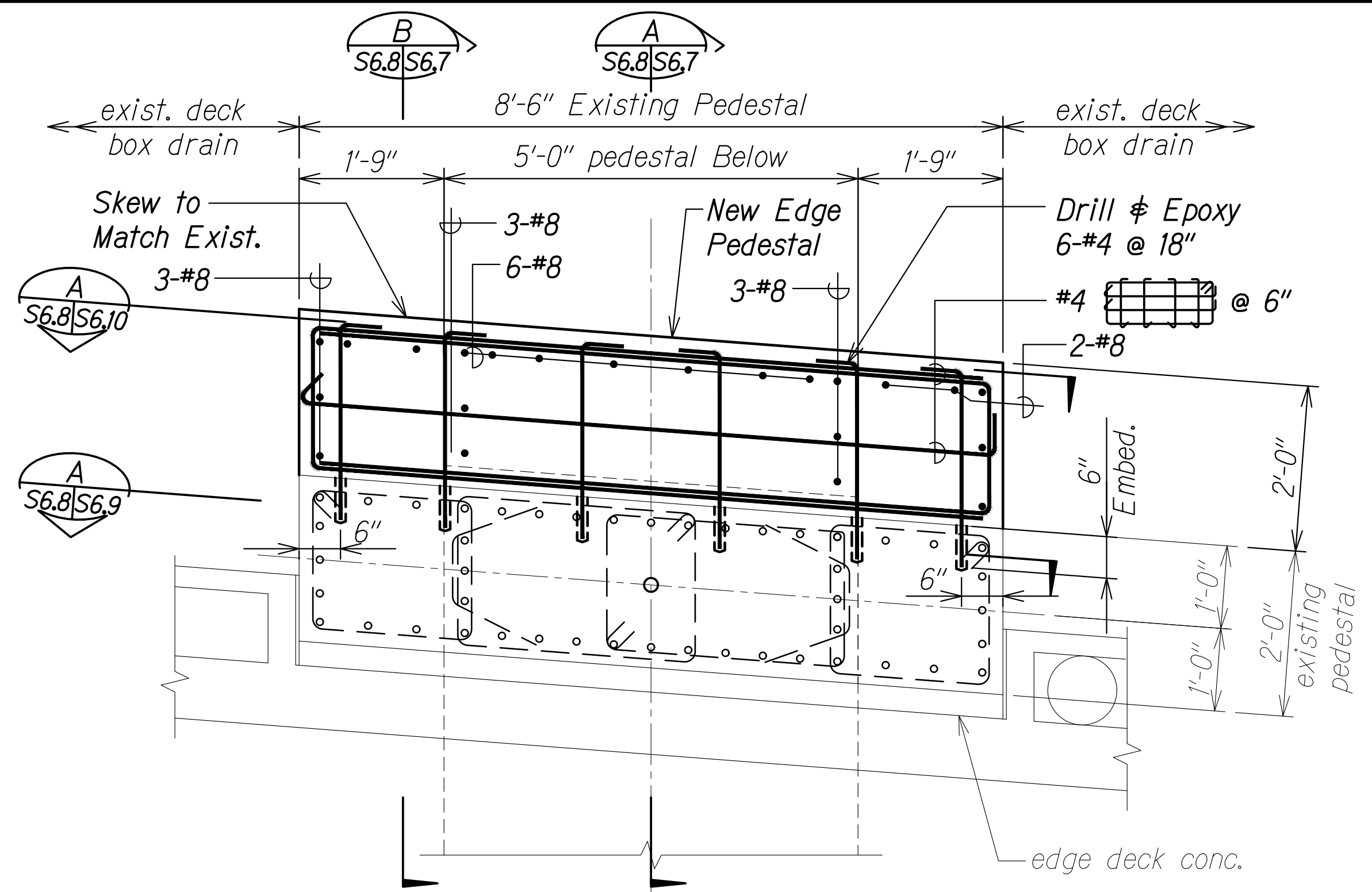
Scale: As Noted Date: Sept. 2022

SHEET No. S6.7 OF 14 SHEETS

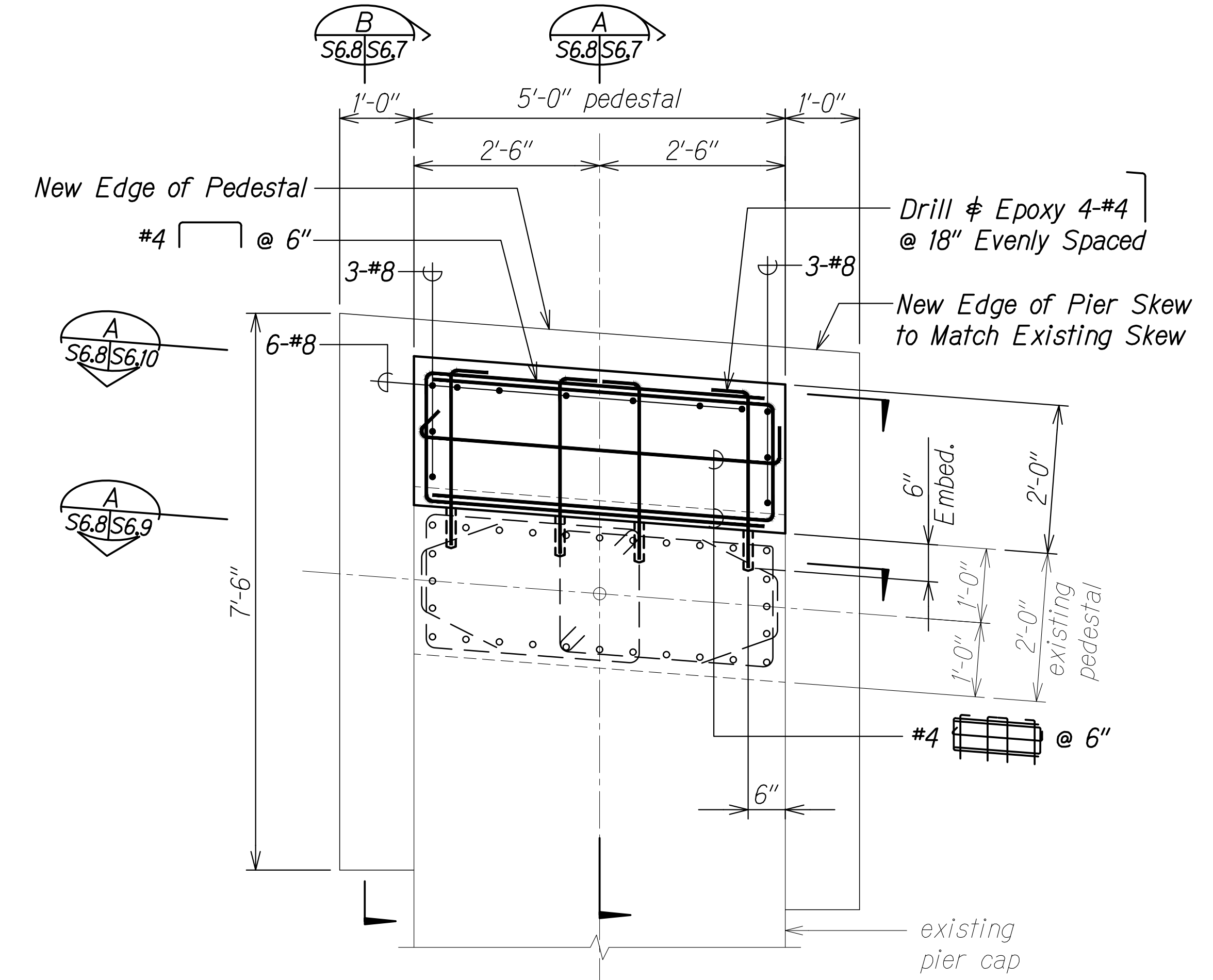
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	137	175



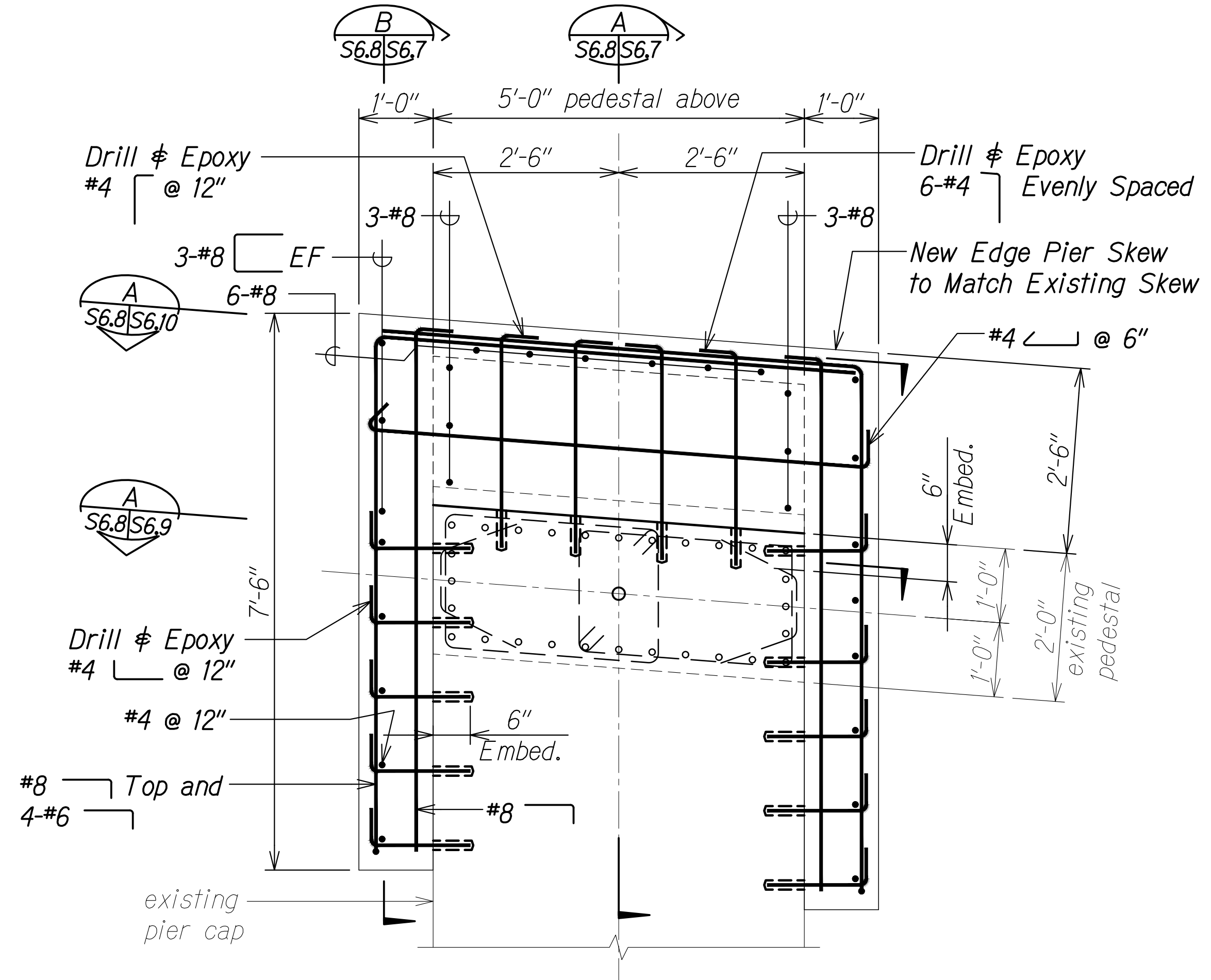
SECTION A
Scale: 3/4" = 1'-0"
S6.7 | S6.8
S6.9, S6.10



SECTION B
Scale: 3/4" = 1'-0"
S6.7 | S6.8
S6.9, S6.10



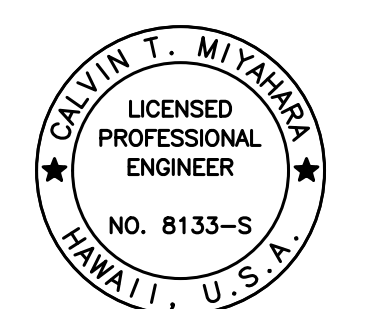
SECTION C
Scale: 3/4" = 1'-0"
S6.7 | S6.8
S6.9, S6.10



SECTION D
Scale: 3/4" = 1'-0"
S6.7 | S6.8
S6.9, S6.10

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

DRAWING NAME: Z:\00 ONGOING\00_IF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22_BID\DS11-50607 TO 50610_H1WB-511-SECTS.DWG PLOT TIME: 09-29-22, 4:33 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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SIGN STRUCTURE H1WB-511

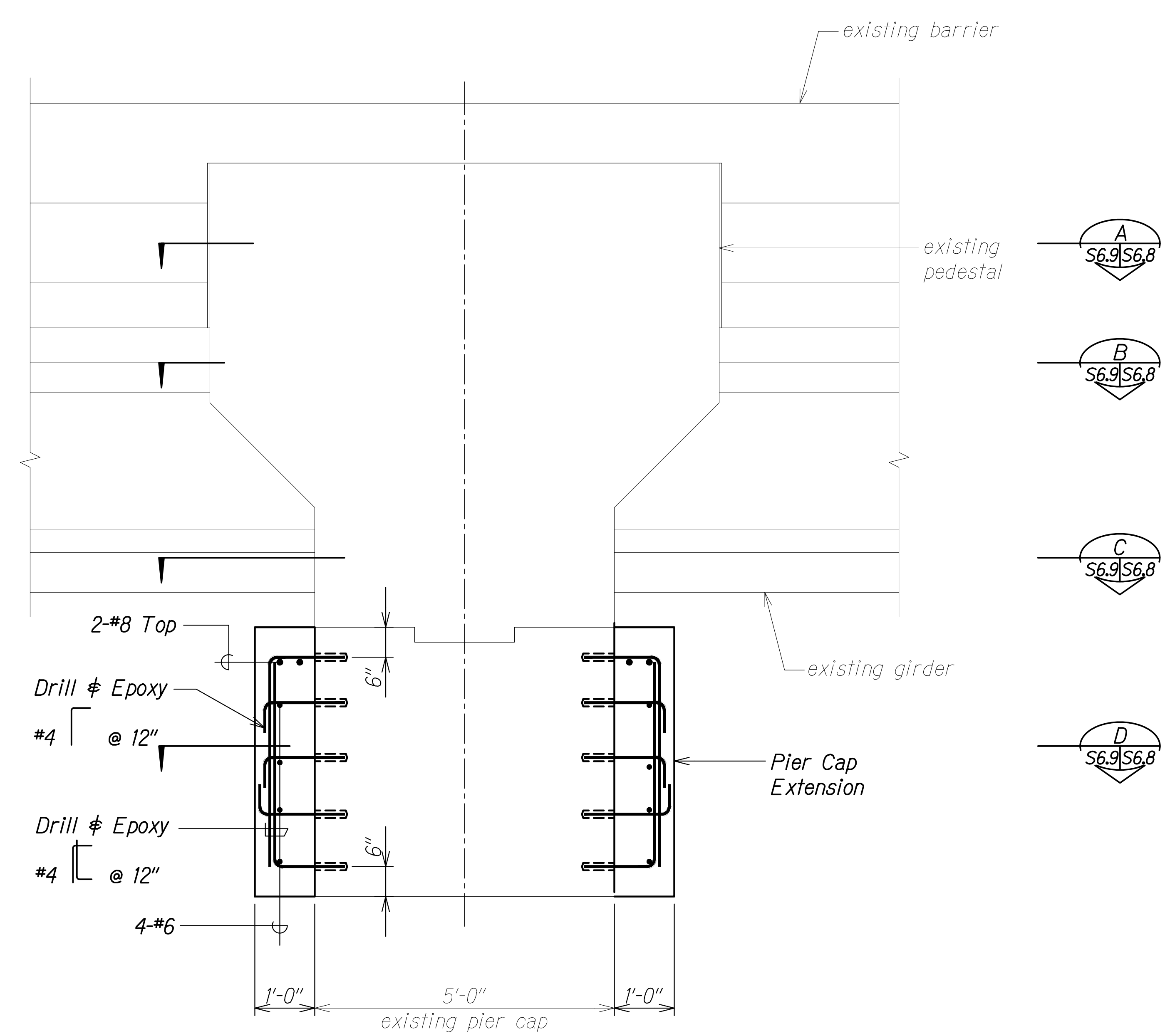
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S6.8 OF 14 SHEETS

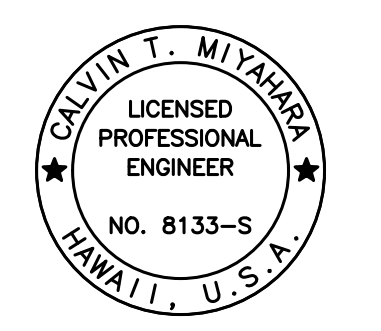
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	138	175



SECTION
 Scale: 3/4" = 1'-0"
 A
 S6.8 | S6.9

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

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50607 TO 50610 HWB-511-SECTS.DWG PLOT TIME: 09-29-22 4:33 PM



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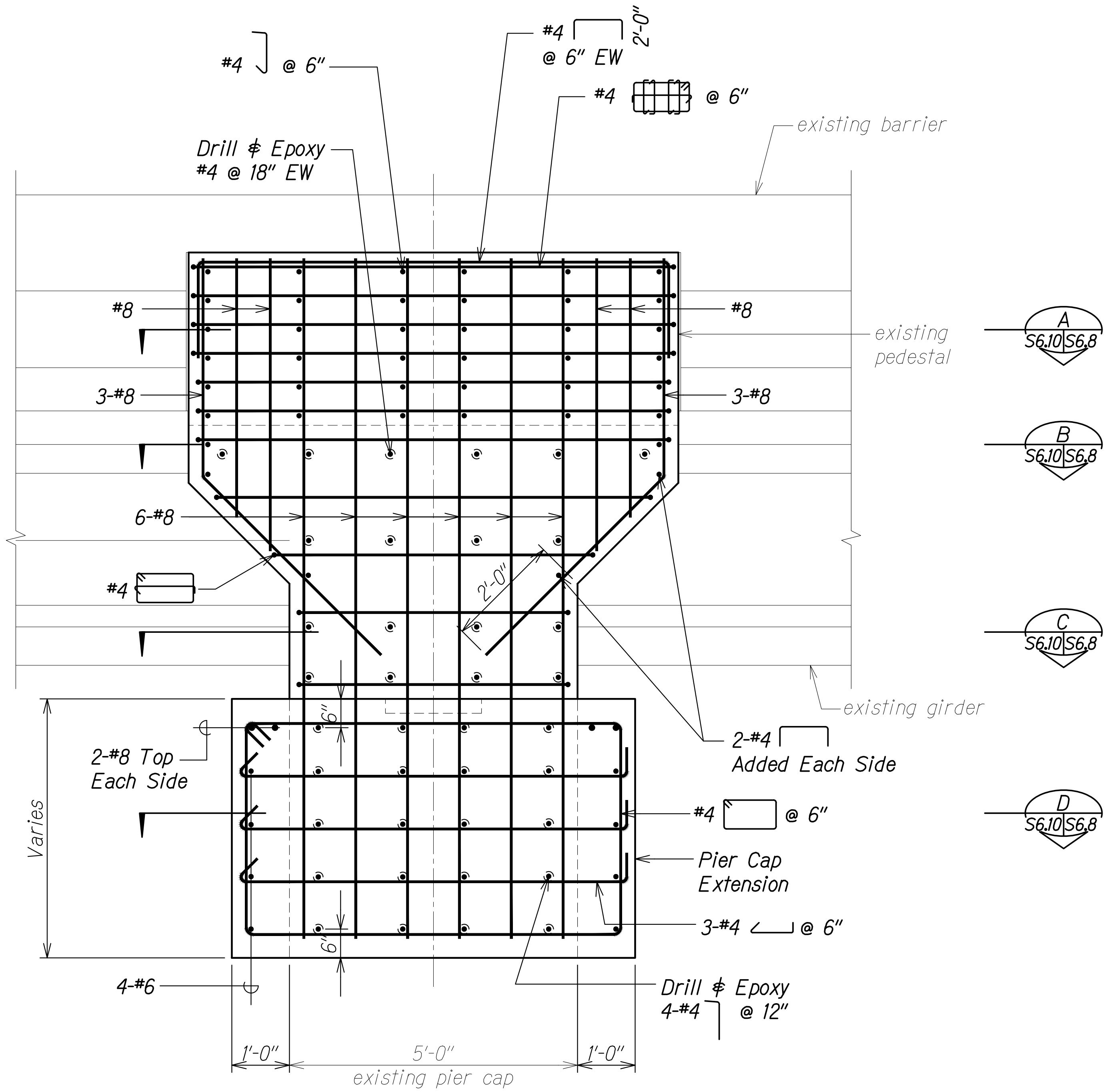
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGN STRUCTURE HWB-511
SECTION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S6.9 OF 14 SHEETS

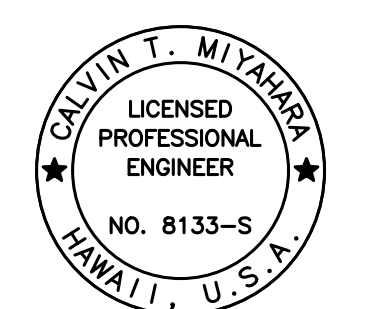
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	139	175



SECTION
 Scale: 3/4" = 1'-0"
 A S6.8 | S6.10

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50607 TO 50610 HWB-511-SECTS.DWG PLOT TIME: 09-29-22, 4:33 PM



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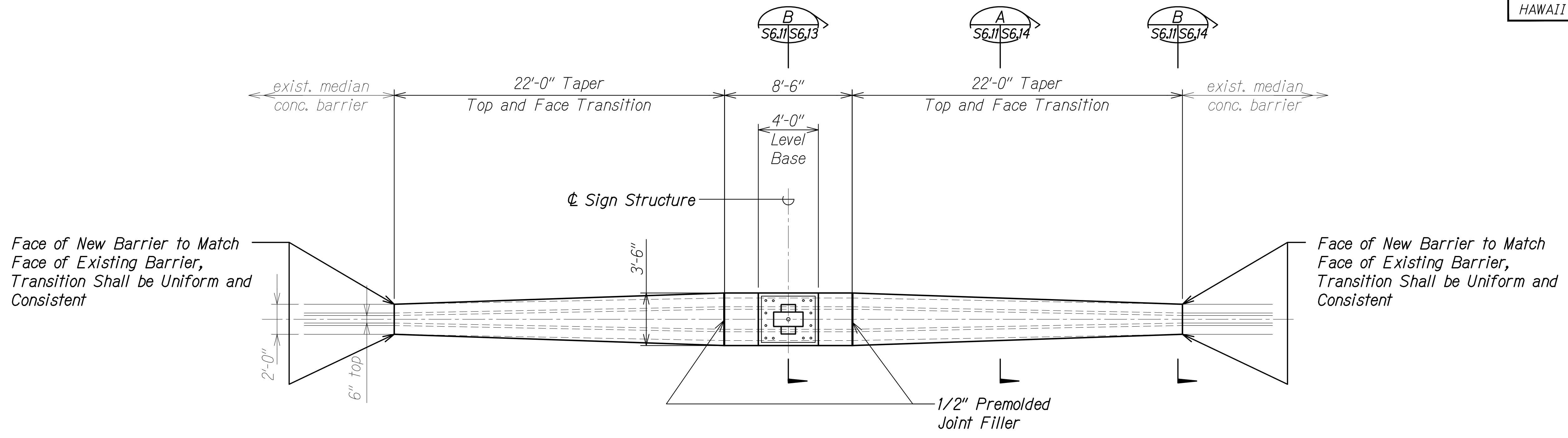
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGN STRUCTURE HWB-511
SECTION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

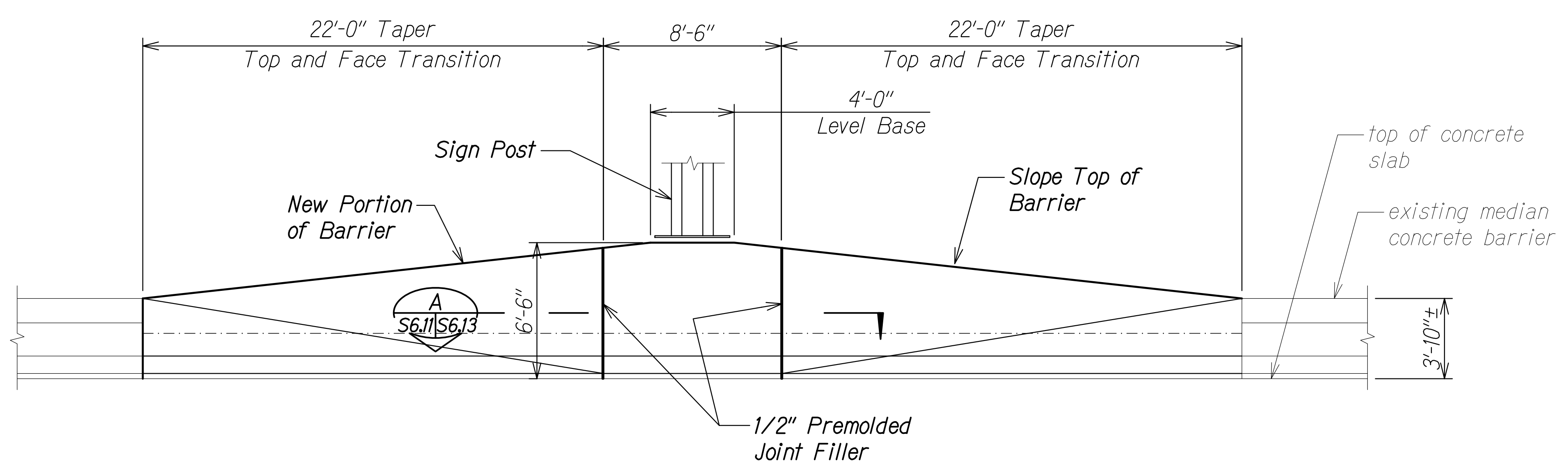
Scale: As Noted Date: Sept. 2022

SHEET No. S6.10 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	140	175



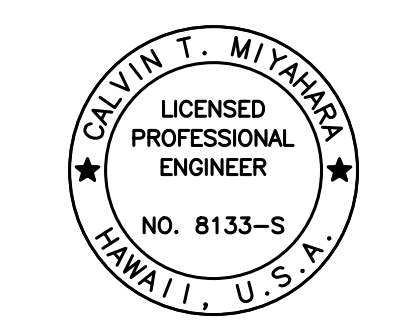
PLAN
Scale: 1/4" = 1'-0" A
S6.11 | S6.11



ELEVATION
Scale: 1/4" = 1'-0" B
S6.11 | S6.11

ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50611 TO 50614 HWB-511-SECTS.DWG PLOT TIME: 09-29-22, 4:34 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

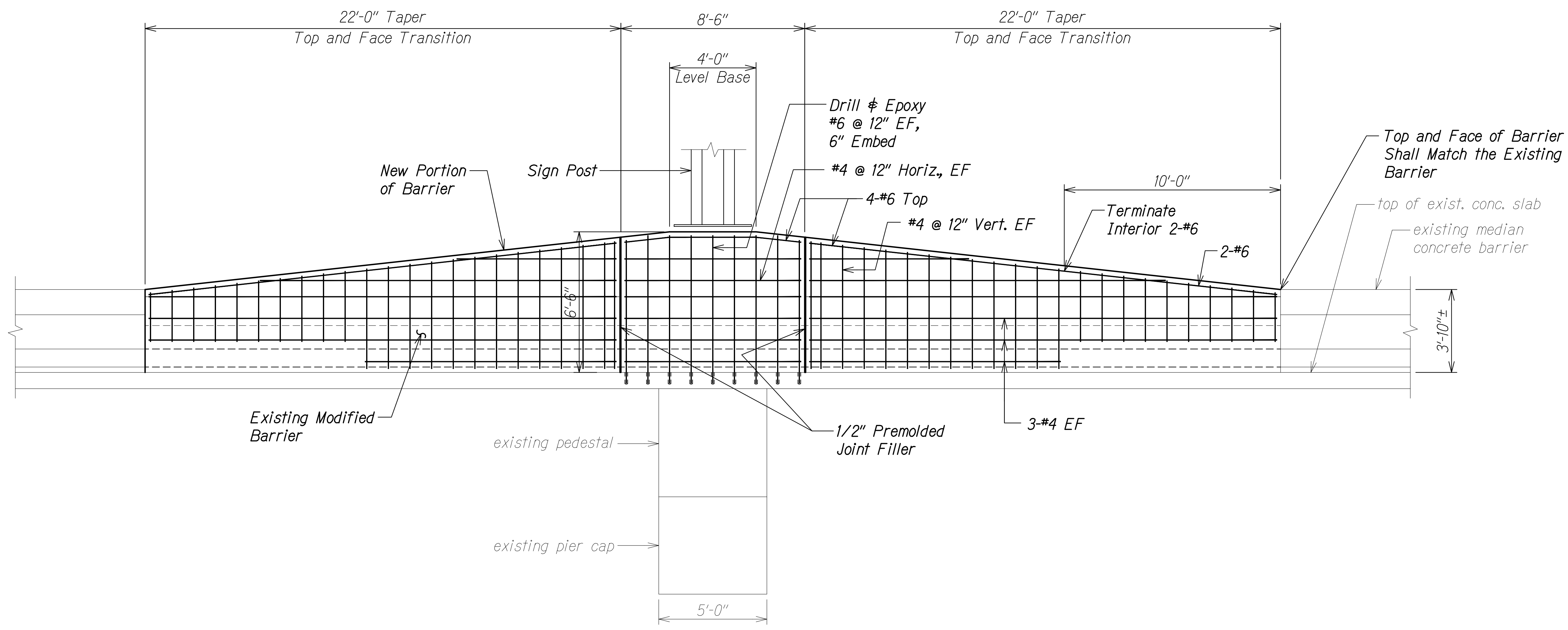
SIGN STRUCTURE HWB-511
PLAN AND ELEVATION

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S6.11 OF 14 SHEETS

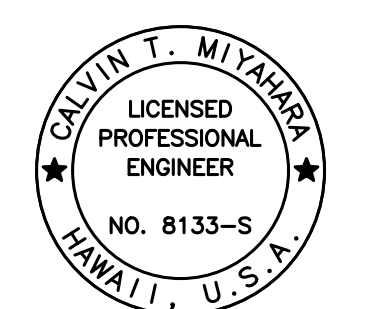
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	141	175



SECTION
 Scale: 3/16" = 1'-0" A
 S6.J2 S6.J2

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

DRAWING NAME: Z:\00 ONGOING\00_JF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 BID\0511-50611 TO 50614 HWB-511-SECTS.DWG PLOT TIME: 09-29-22, 4:34 PM



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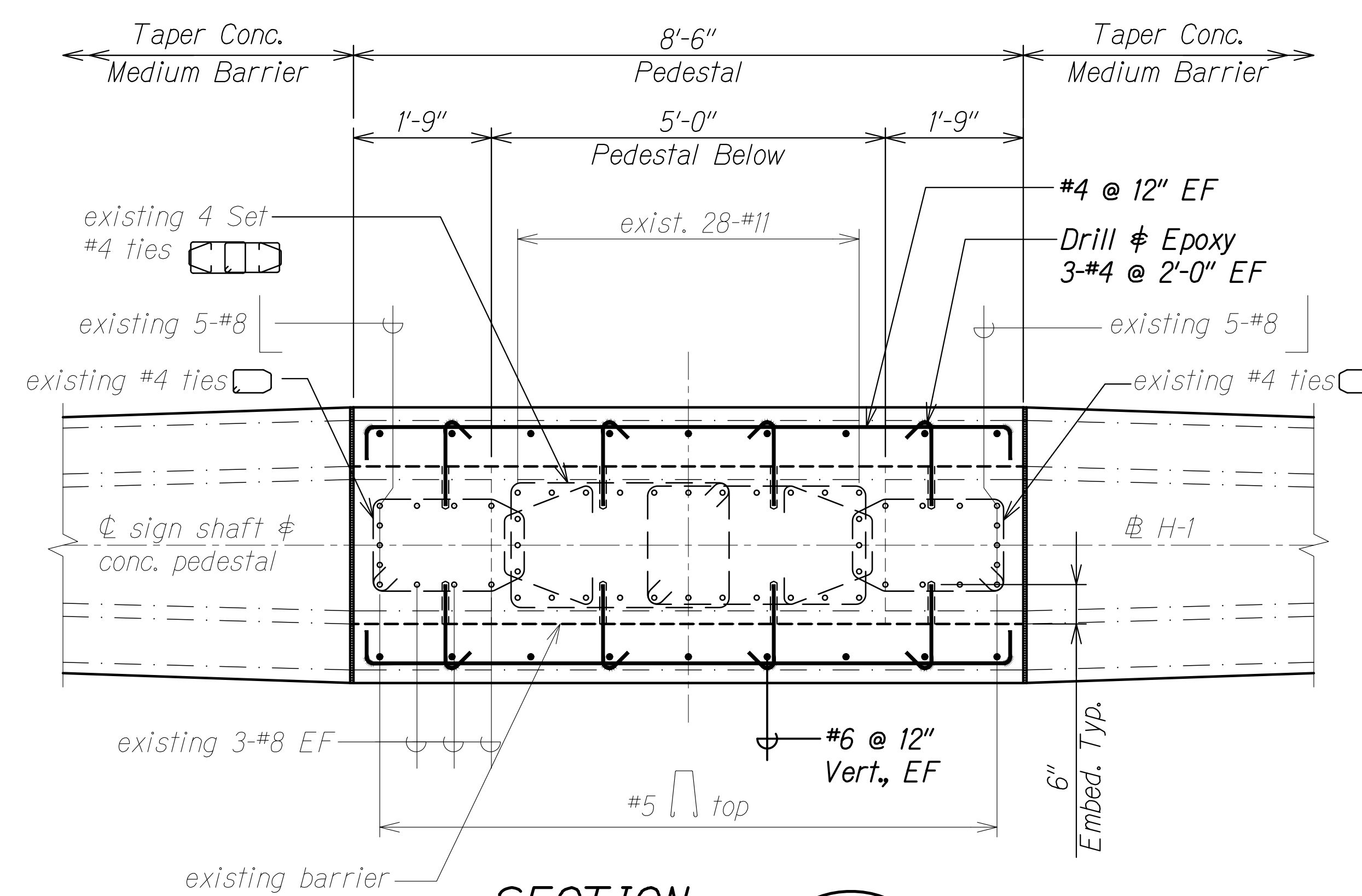
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGN STRUCTURE HWB-511
SECTION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

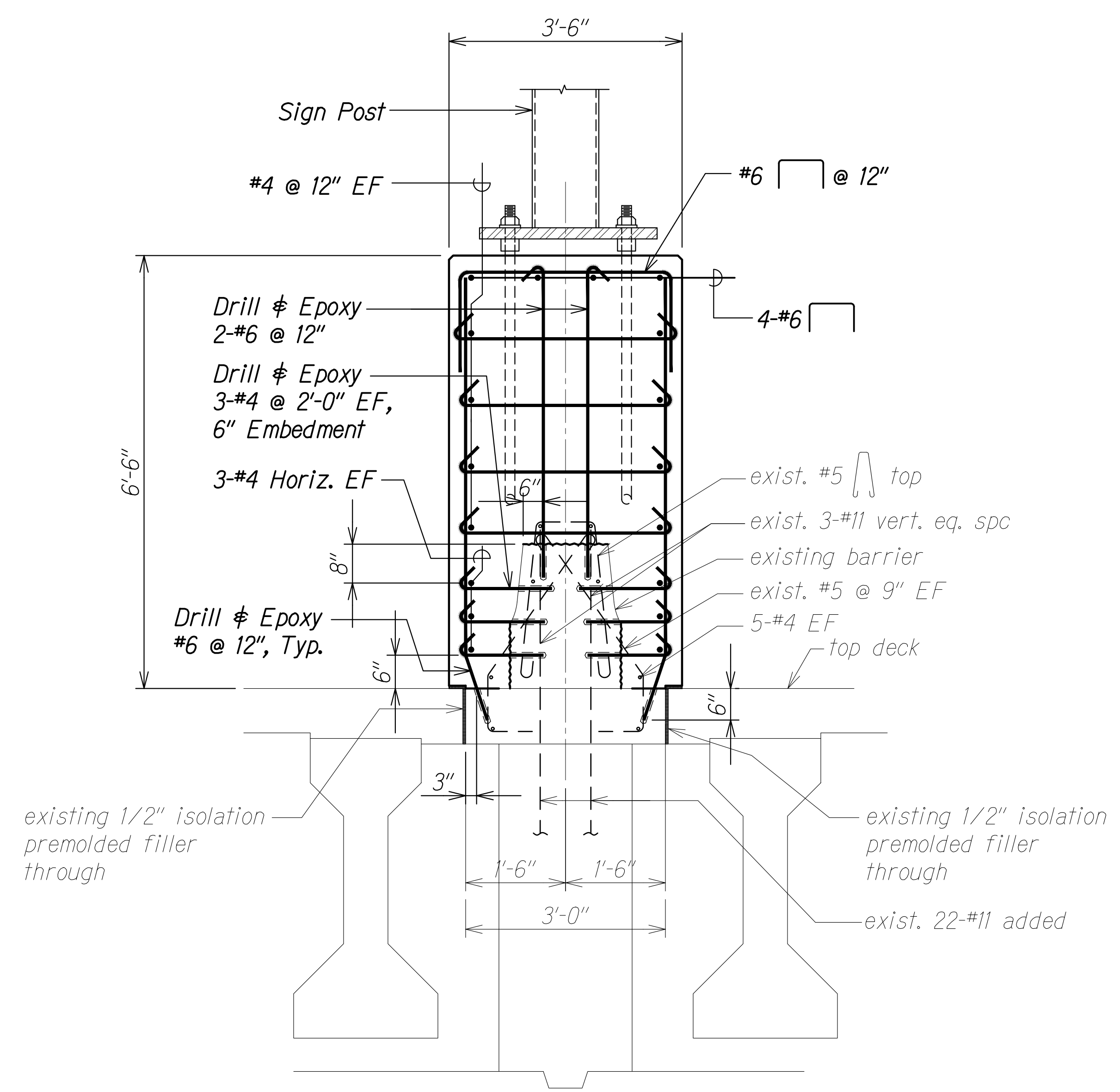
Scale: As Noted Date: Sept. 2022

SHEET No. S6.J2 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	142	175



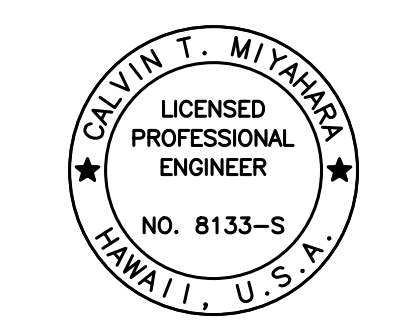
SECTION A
Scale: 3/4" = 1'-0"
S6.13 | S6.13



SECTION B
Scale: 3/4" = 1'-0"
S6.11 | S6.13

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50611 TO 50614 HWB-511-SECTS.DWG PLOT TIME: 09-29-22 4:34 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN STRUCTURE HWB-511

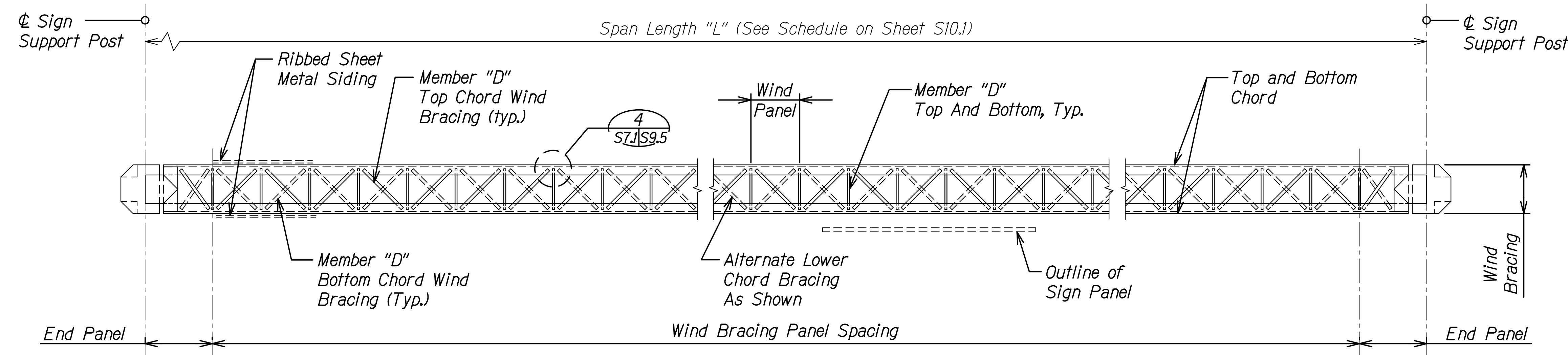
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

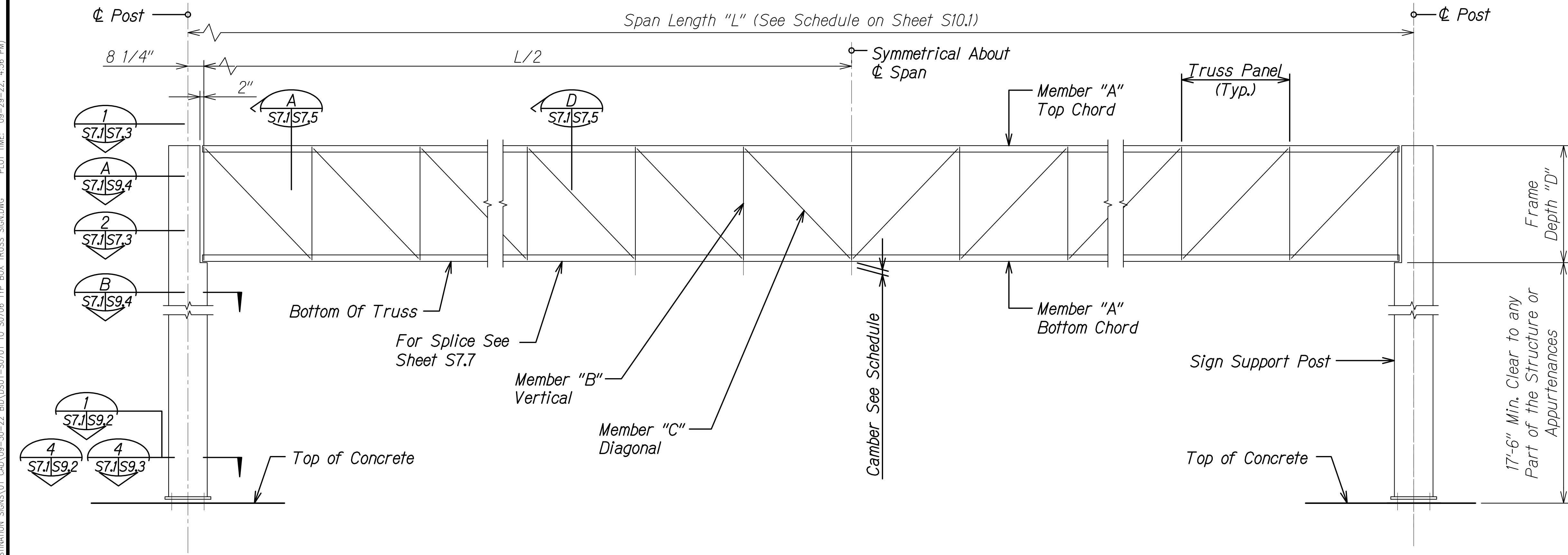
Scale: As Noted Date: Sept. 2022

SHEET No. S6.13 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	144	175



TYPICAL PLAN - TOP AND BOTTOM WIND BRACE FRAMING
 Scale: 3/8" = 1'-0"
 A
 S7.J | S7.J

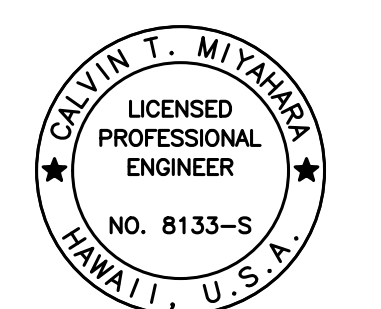


PARTIAL SIGN STRUCTURE ELEVATION
 Scale: 3/8" = 1'-0"
 B
 S7.J | S7.J

- NOTES:**
1. For sign structure schedule see sheet S10.1 and S10.2
 2. This sign structure type shall be paid for under "Type I" as shown on the proposal schedule.

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50701 TO S0706 TYP BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:36 PM

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



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 HIGHWAYS DIVISION

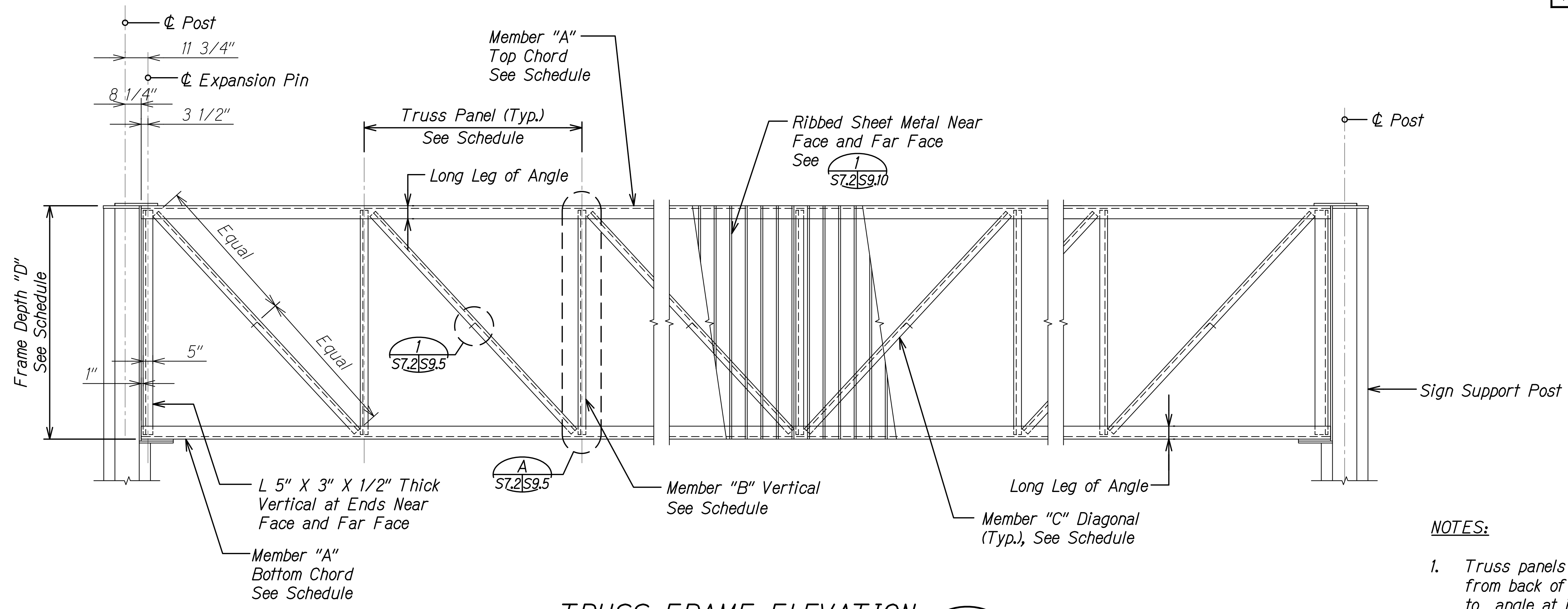
**BOX TRUSS SIGN STRUCTURE
 PLAN AND ELEVATION**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S7.J OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	145	175

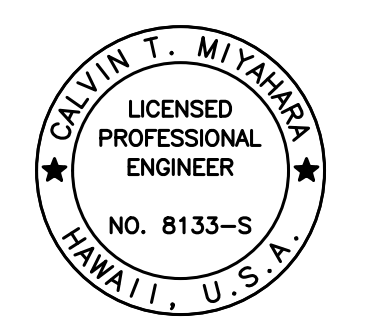


TRUSS FRAME ELEVATION $\frac{A}{S7.2|S7.2}$
 Scale: 3/8" = 1'-0"

- NOTES:**
1. Truss panels at each end are measured from back of angle at end vertical members to angle at intermediate vertical members.
 2. For sign structure schedule see sheets S10.1 and S10.2.

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

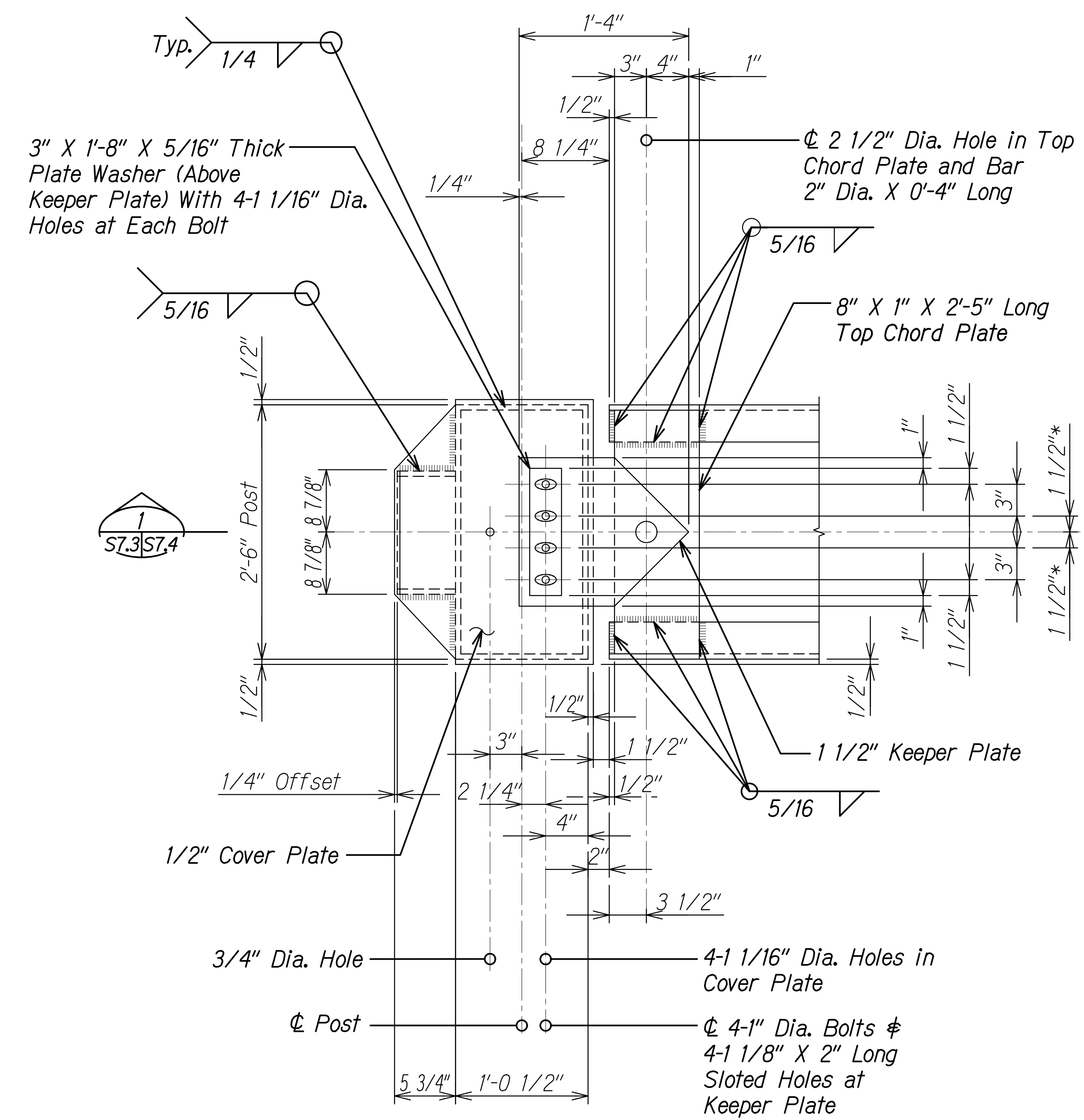
DRAWING NAME: Z:\00 ONGOING\00_01 PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 BID\0511-50701 TO 50706 TYP BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:36 PM



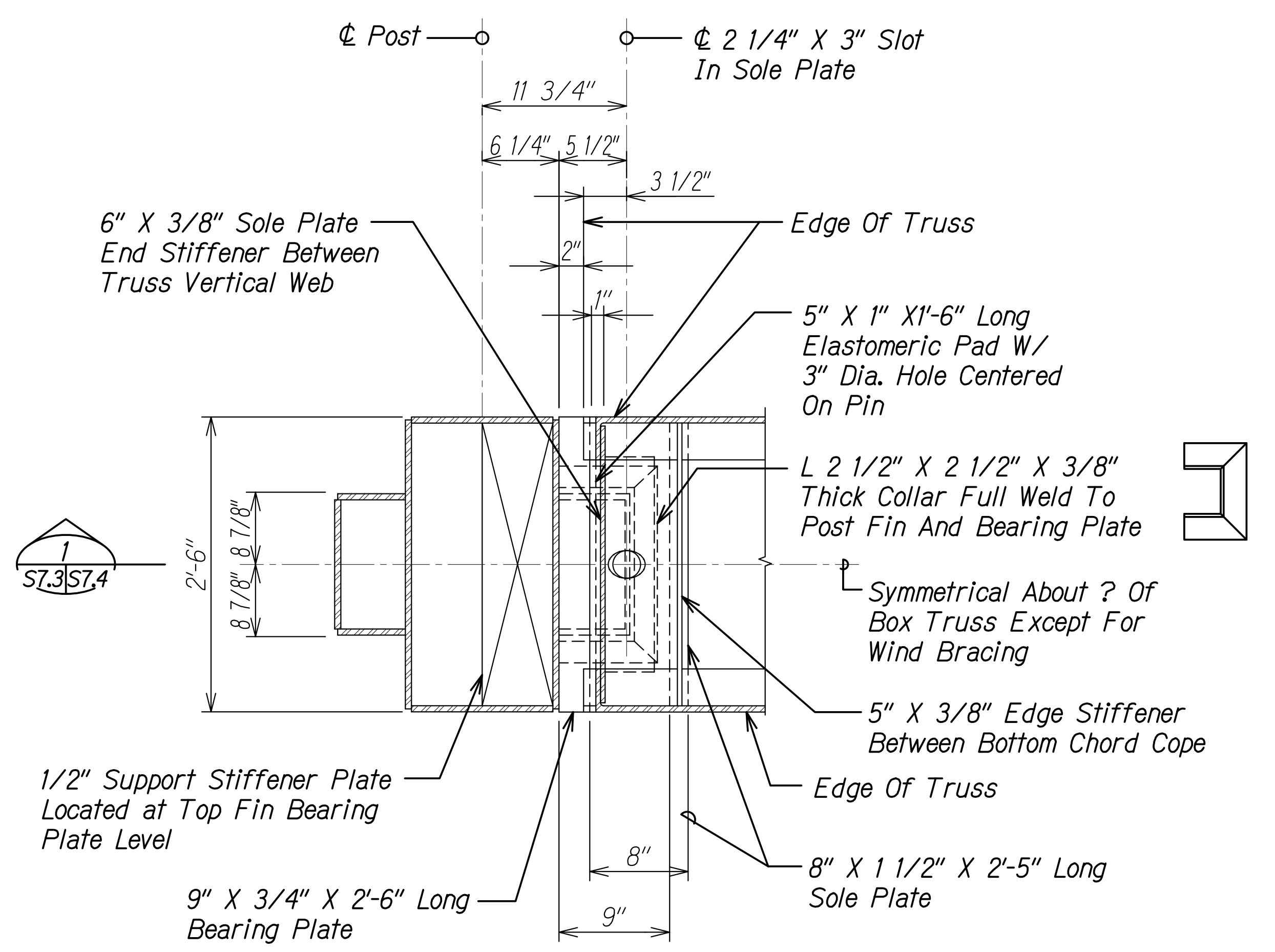
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
BOX TRUSS SIGN STRUCTURE
TRUSS FRAME ELEVATION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: As Noted Date: Sept. 2022
 SHEET No. S7.2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	146	175



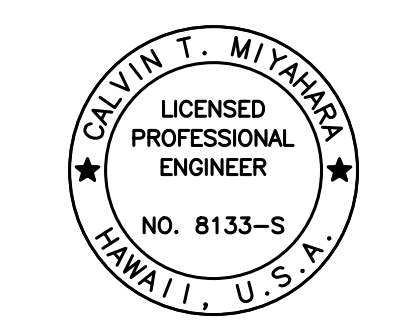
PLAN AT TOP OF COLUMN
 Scale: 1 1/2" = 1'-0"
 1
 S7.1 | S7.3



PLAN AT TRUSS BEARING SUPPORT
 Scale: 1 1/2" = 1'-0"
 2
 S7.1 | S7.3
 S7.4

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50701 TO 50706 TYP BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:37 PM



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
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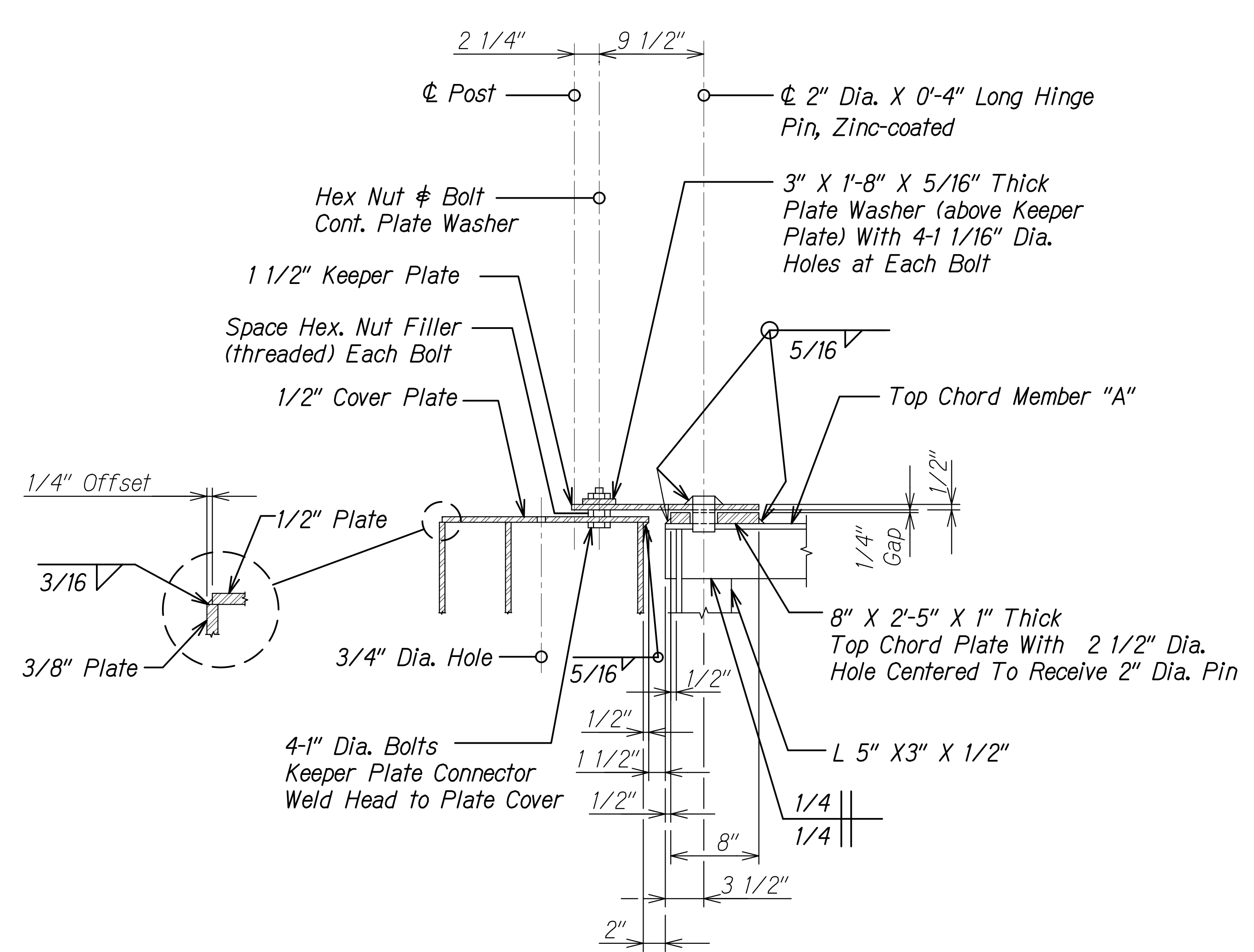
BOX TRUSS SIGN STRUCTURE
DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

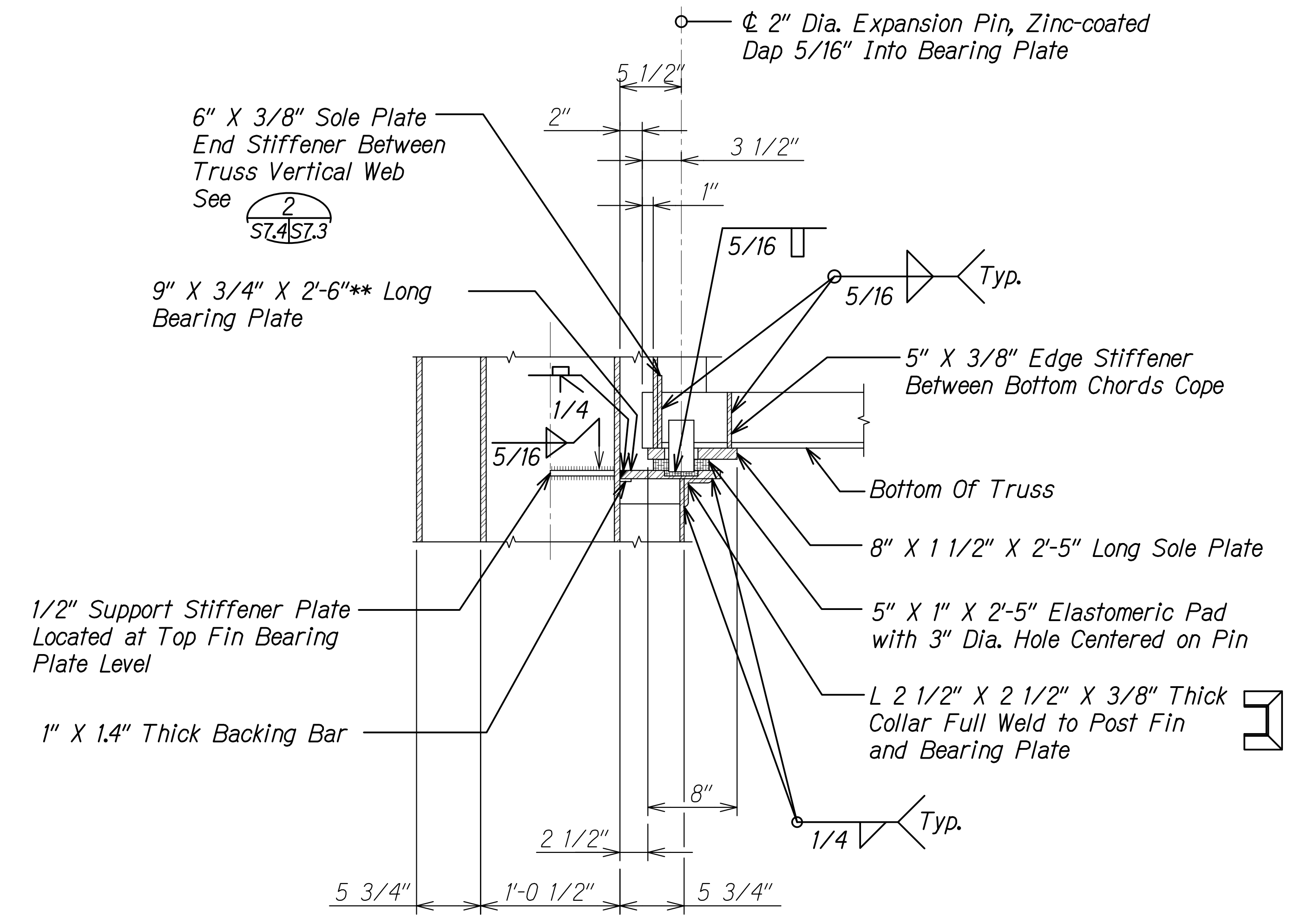
Scale: As Noted Date: Sept. 2022

SHEET No. S7.3 OF 7 SHEETS

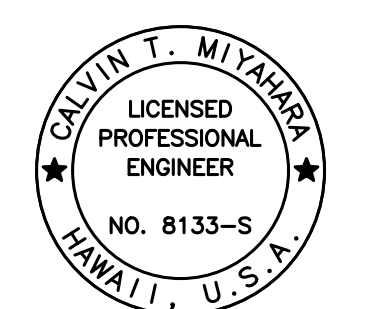
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	147	175



TYPICAL UPPER JUNCTURE CONNECTION DETAIL
 Scale: 1 1/2" = 1'-0"
 1
 S7.3 S7.4



TYPICAL LOWER JUNCTURE CONNECTION DETAIL
 Scale: 1 1/2" = 1'-0"
 2
 S7.4 S7.4



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 Calvin Miyahara
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

BOX TRUSS SIGN STRUCTURE
DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

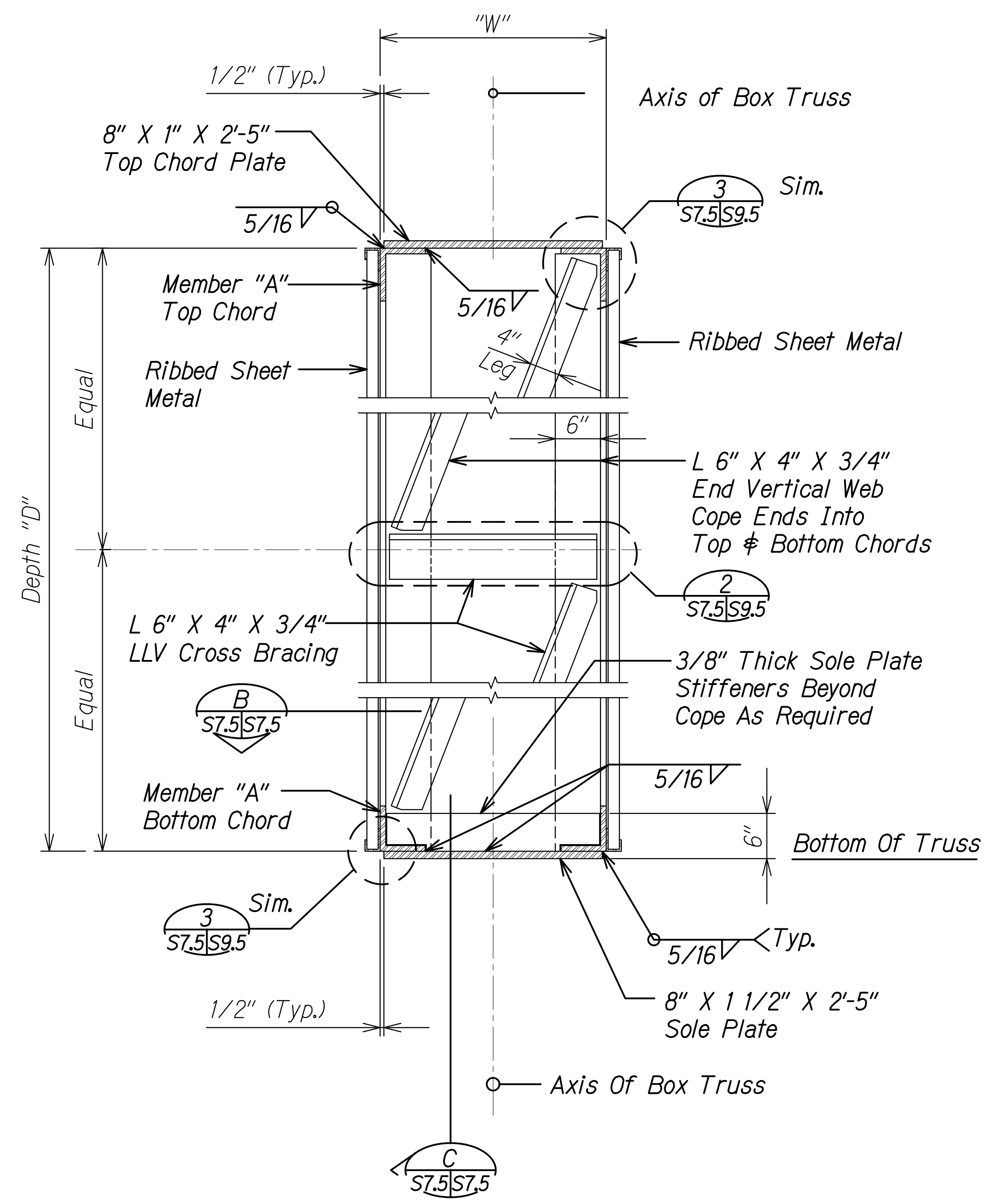
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SHEET No. S7.4 OF 7 SHEETS

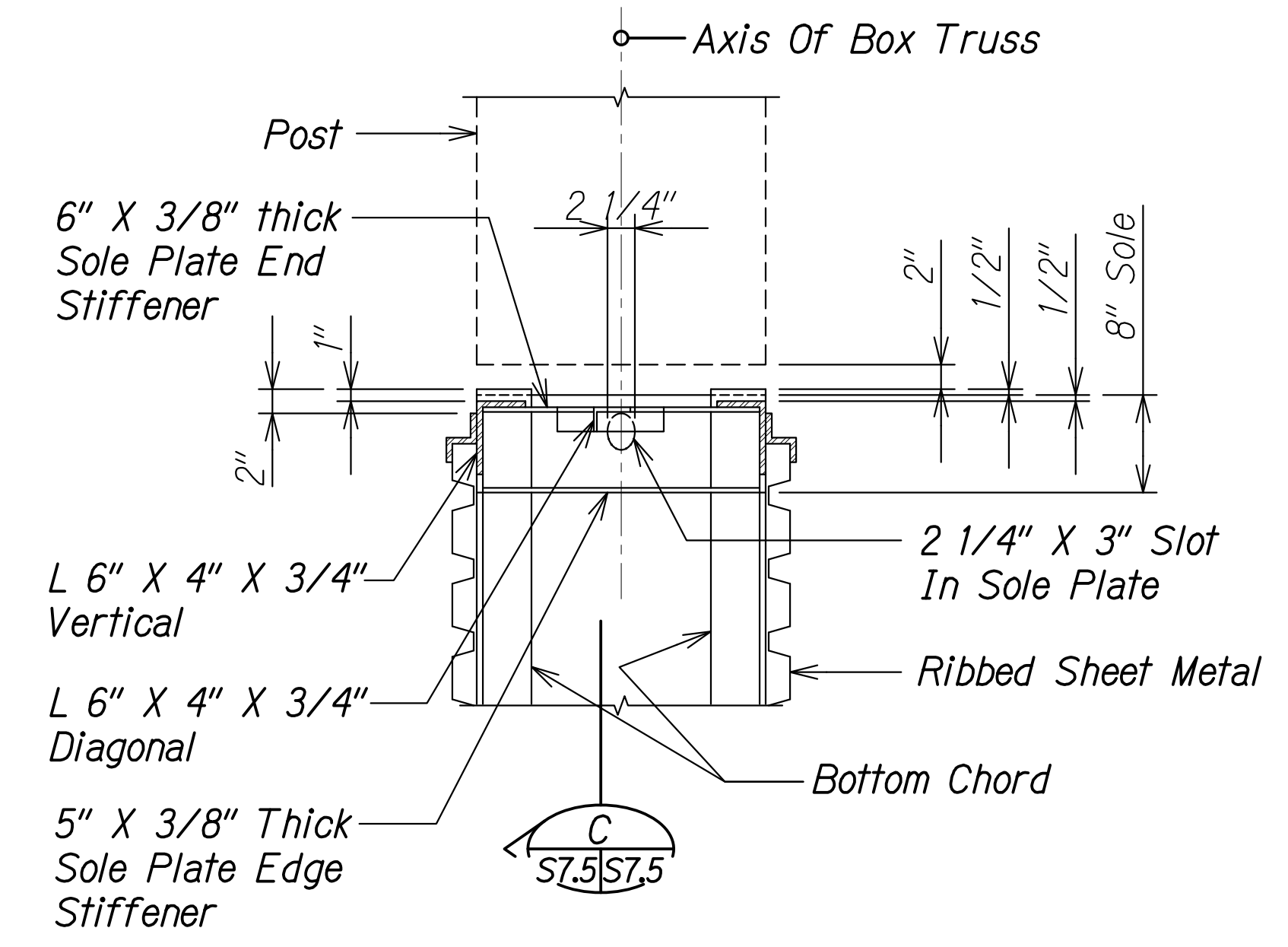
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50701 TO 50706 TYP BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:37 PM

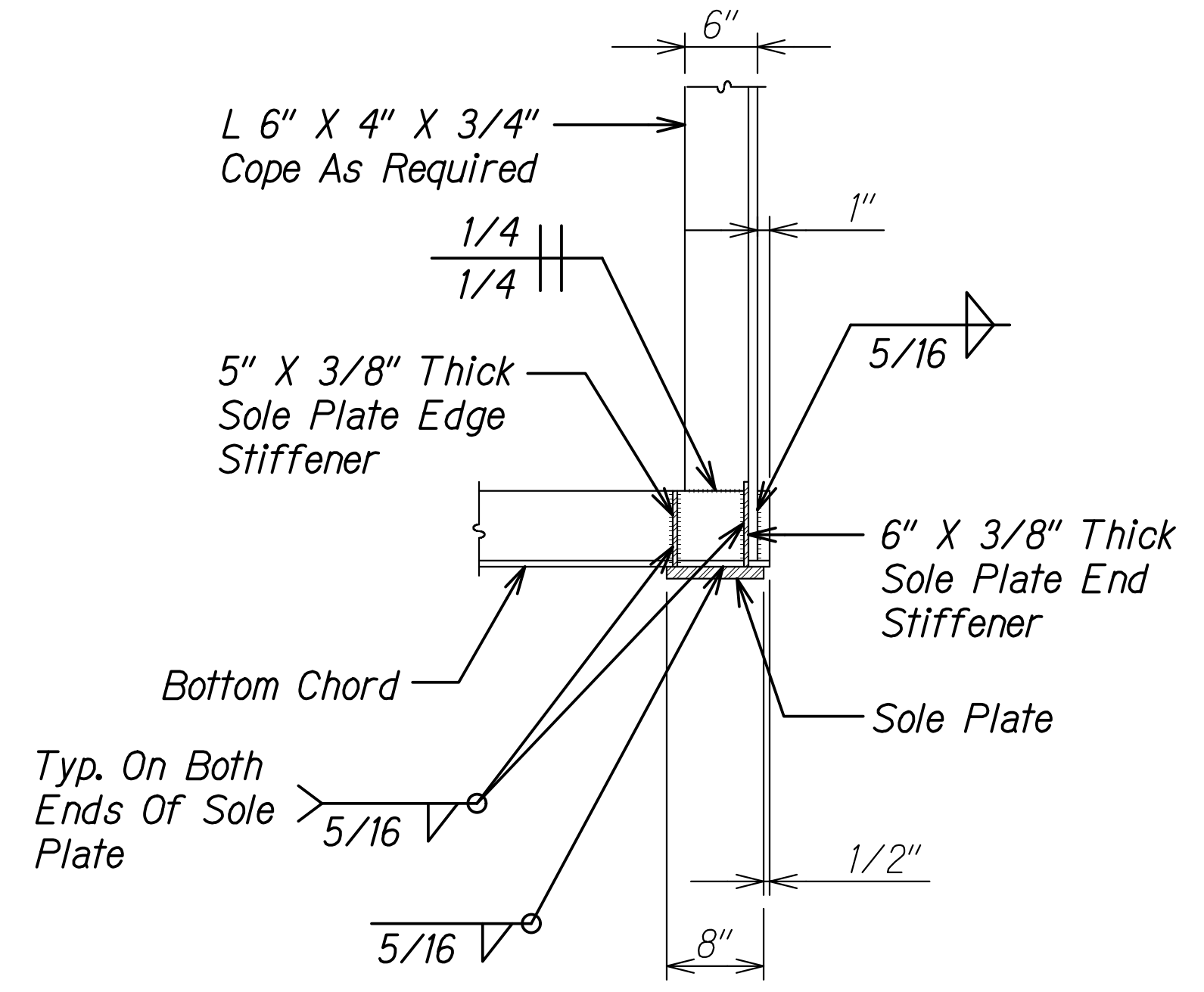
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	148	175



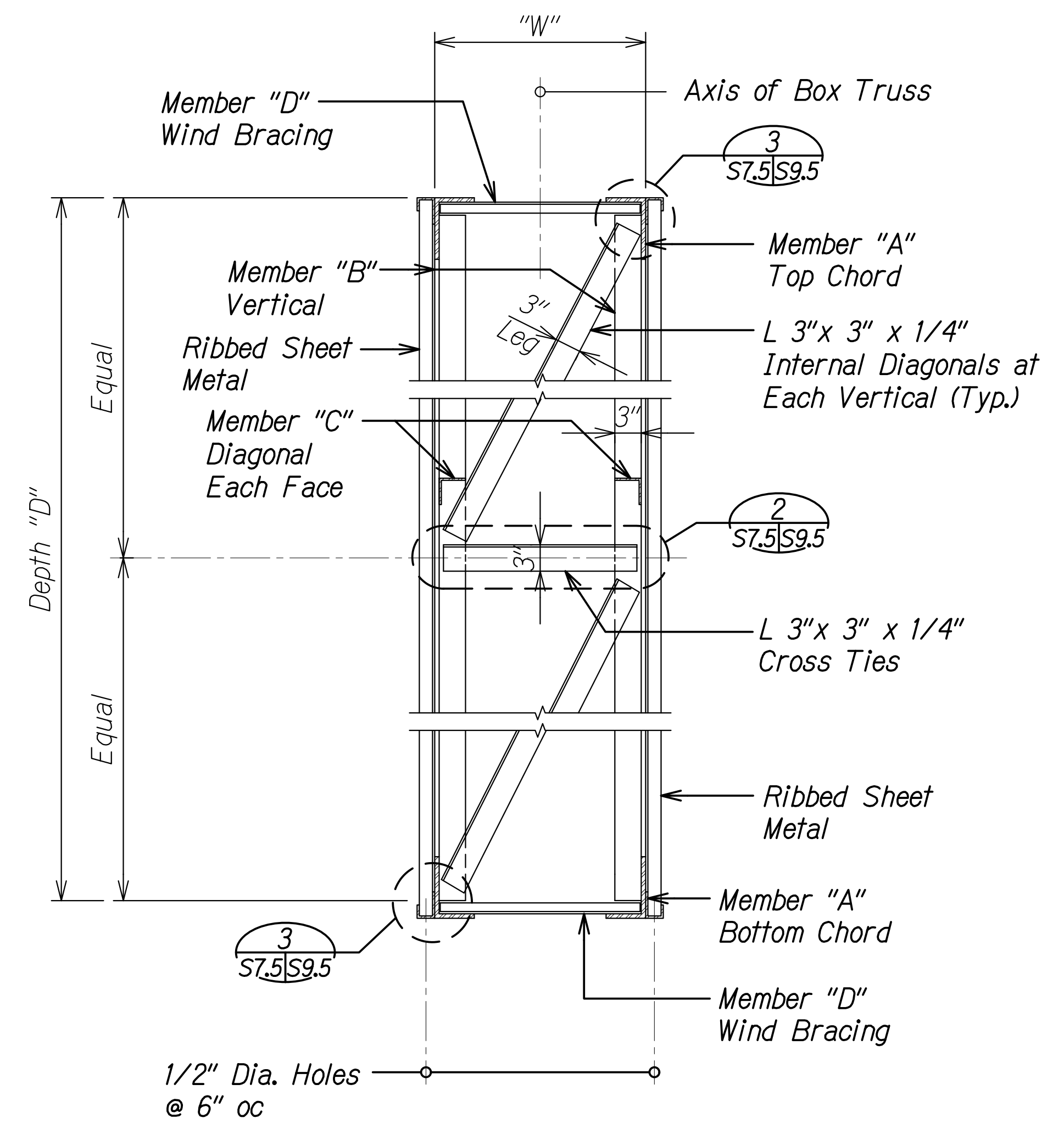
SECTION AT ENDS A
Scale: 1" = 1'-0"



SECTION B
Scale: 1" = 1'-0"



SECTION C
Scale: 1" = 1'-0"



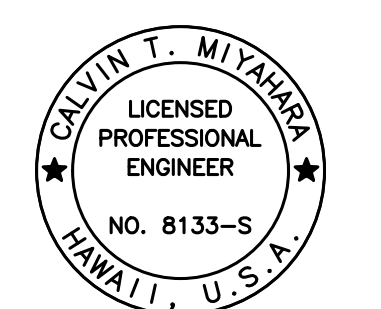
TYPICAL SECTION D
Scale: 1" = 1'-0"

NOTES:

1. See S7.1 for sign structure elevation.
2. See S10.1 for sign structure schedule.

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50701 TO 50706 TYP BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:38 PM



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Calvin Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

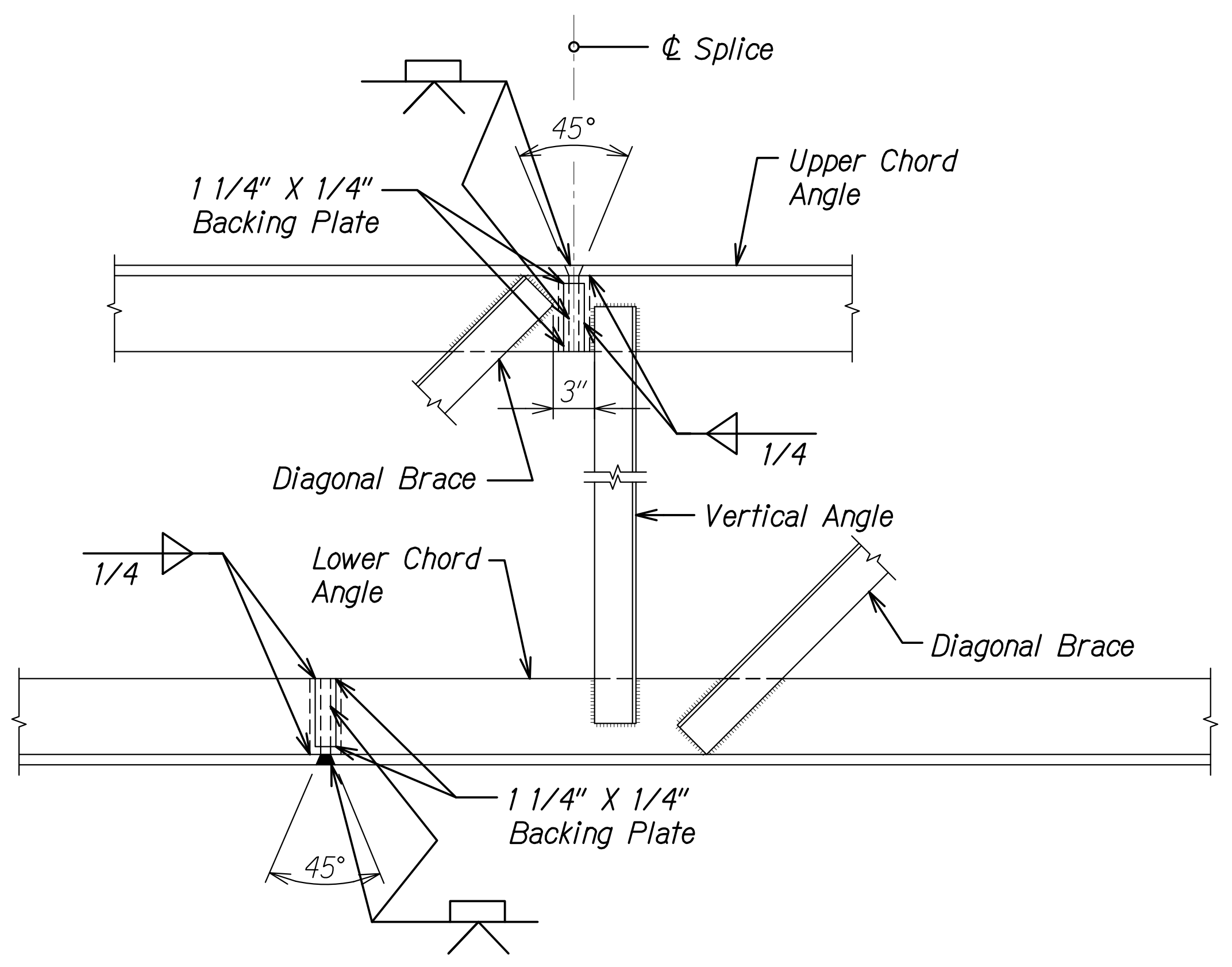
BOX TRUSS SIGN STRUCTURE
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S7.5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	149	175



ELEVATION

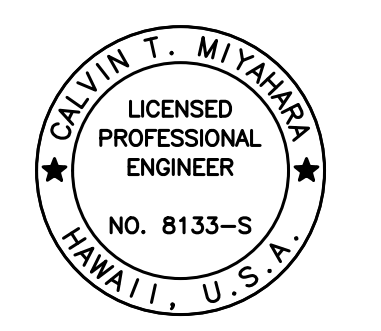
TYPICAL FIELD SPLICE DETAIL 1
 Scale: 1 1/2" = 1'-0" S7.6 S7.6

SPLICE NOTES:

1. Splices are for signs with 2 posts. No splices are allowed for cantilever sign frames.
2. Splice location of top and bottom chords at each truss shall be staggered and at alternate locations. Submit splice locations on shop fabrication drawings to the Engineer for approval.
3. In no case shall splices be located at ends or near midspan of truss.
4. All galvanized metal surfaces damaged by field splice welding shall be repaired by a zinc-based solder in accordance with ASTM A780.
5. Repair areas shall be painted.

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22 BID\09-30-22 4:38 PM



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Calvin Miyakawa
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

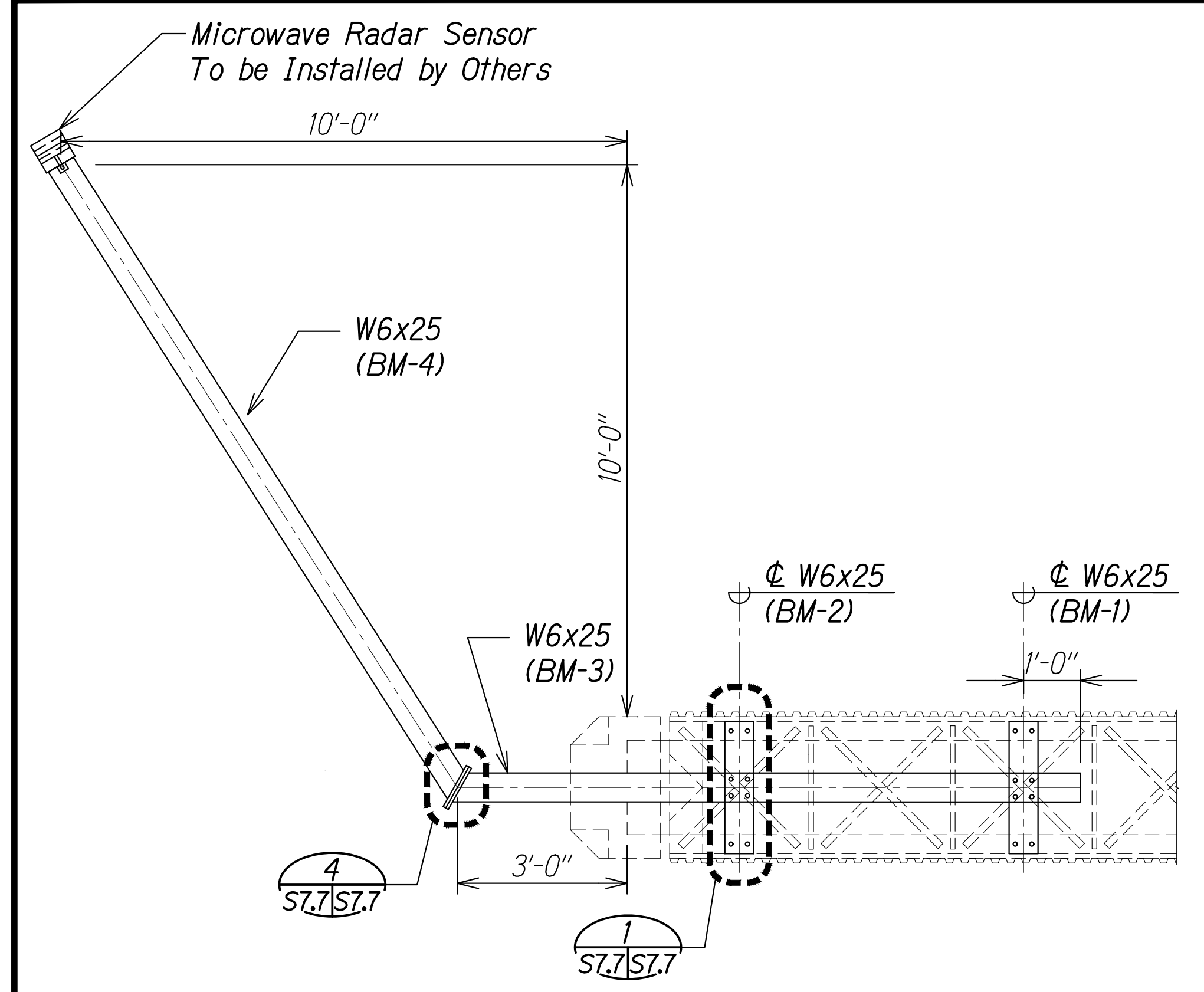
BOX TRUSS SIGN STRUCTURE
DETAIL

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

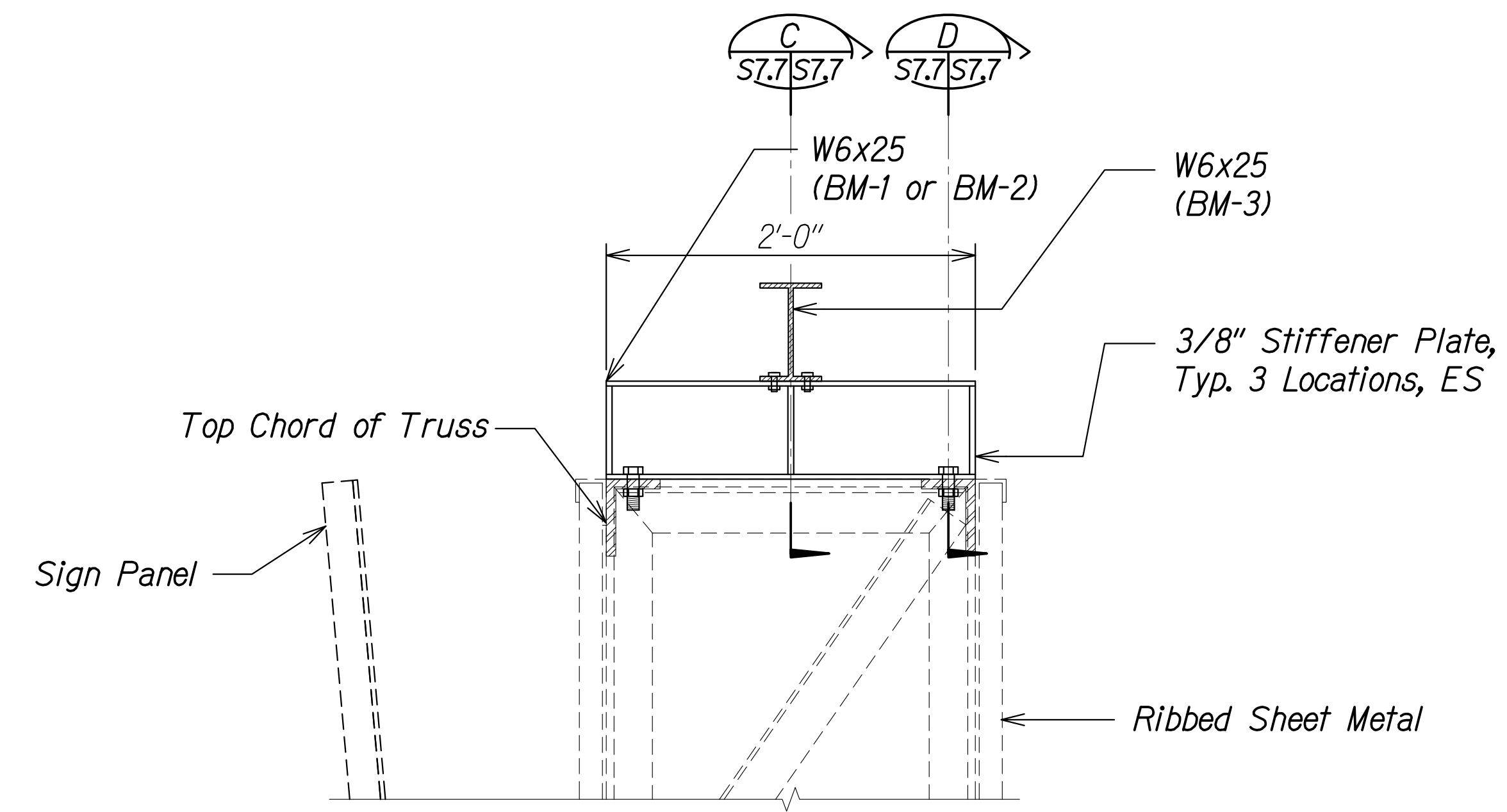
Scale: As Noted Date: Sept. 2022

SHEET No. S7.6 OF 7 SHEETS

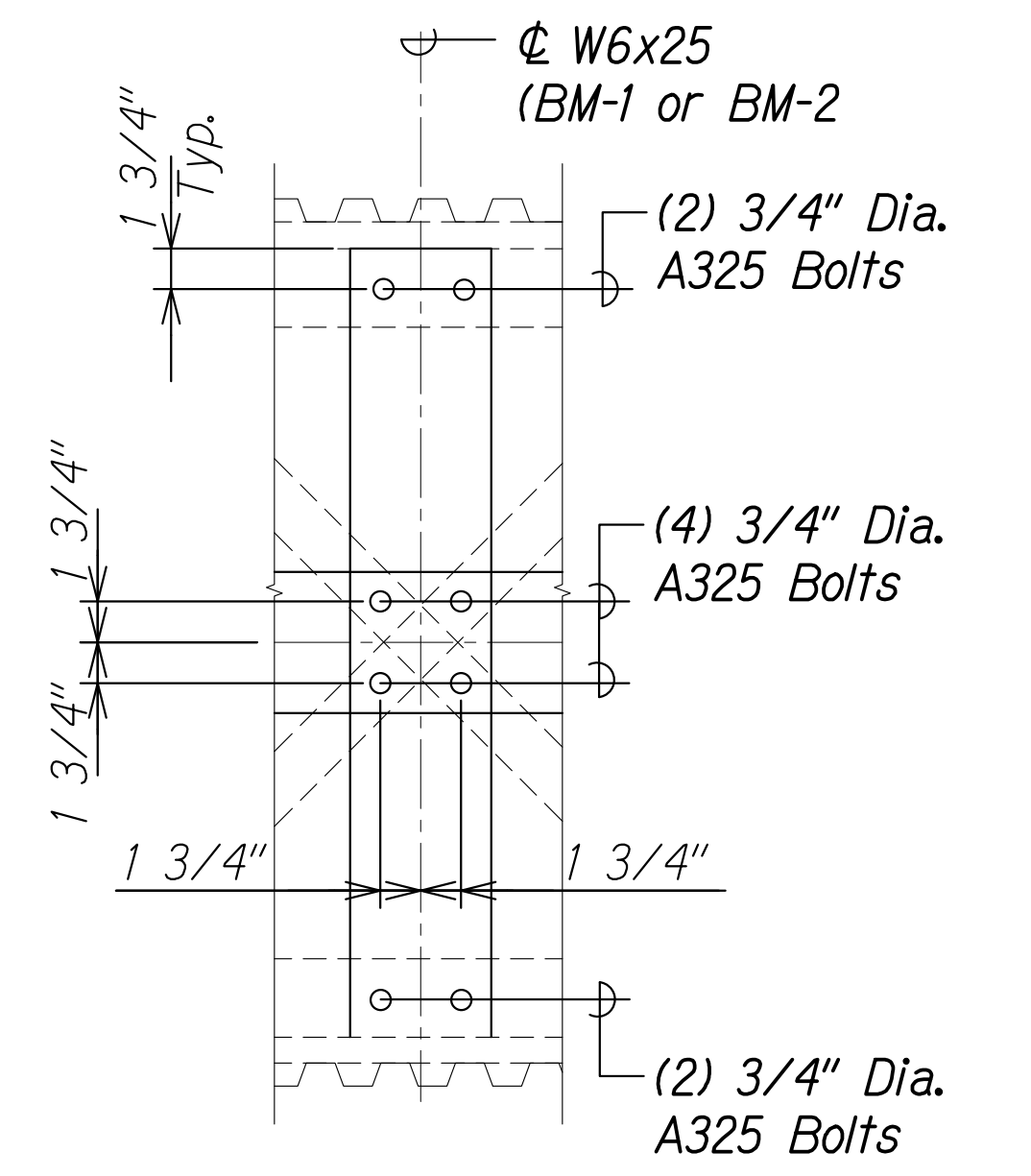
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	150	175



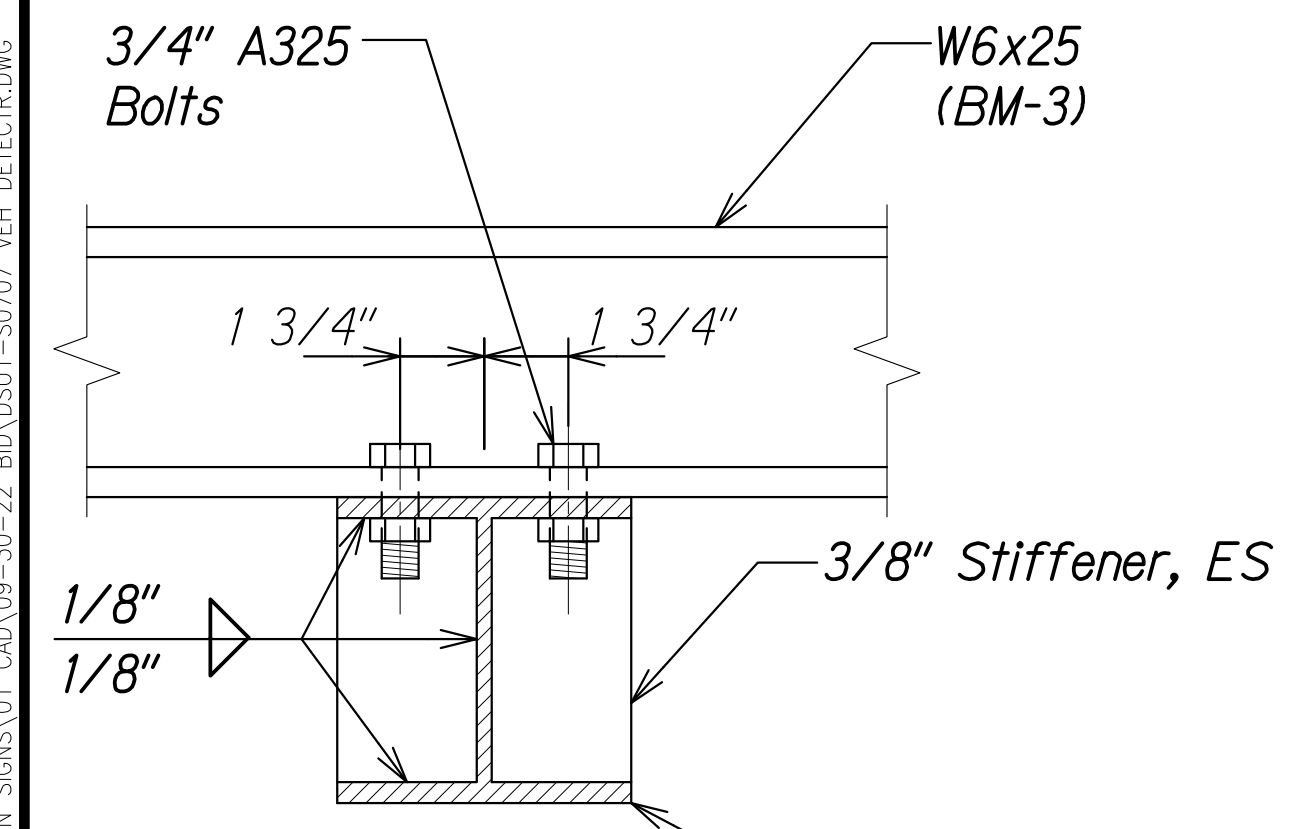
PLAN - HIEBR-253 AND H1WB-505
 Scale: 1/2" = 1'-0"
 A ST.7 ST.7



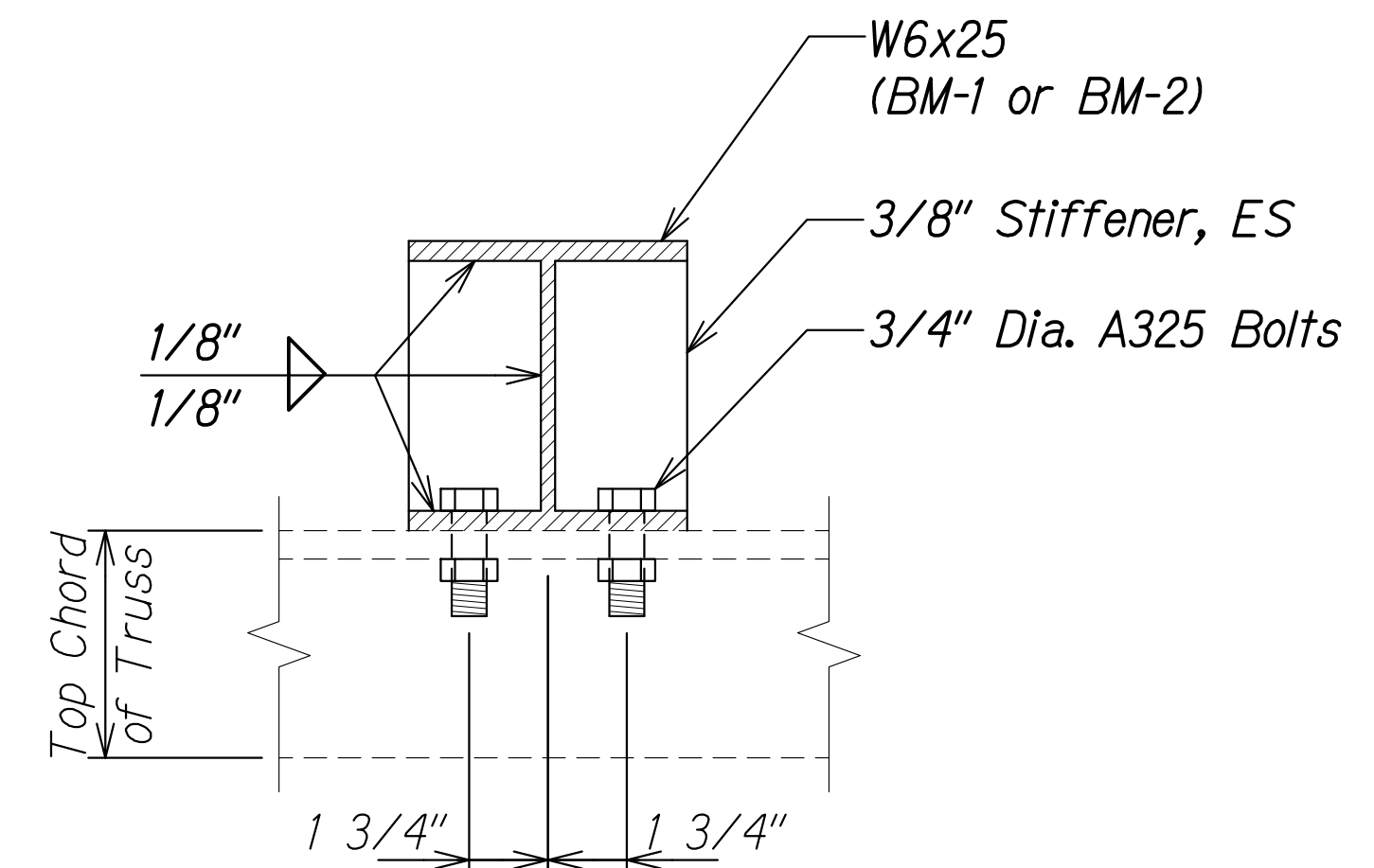
SECTION B
 Scale: 1 1/2" = 1'-0"
 ST.7 ST.7



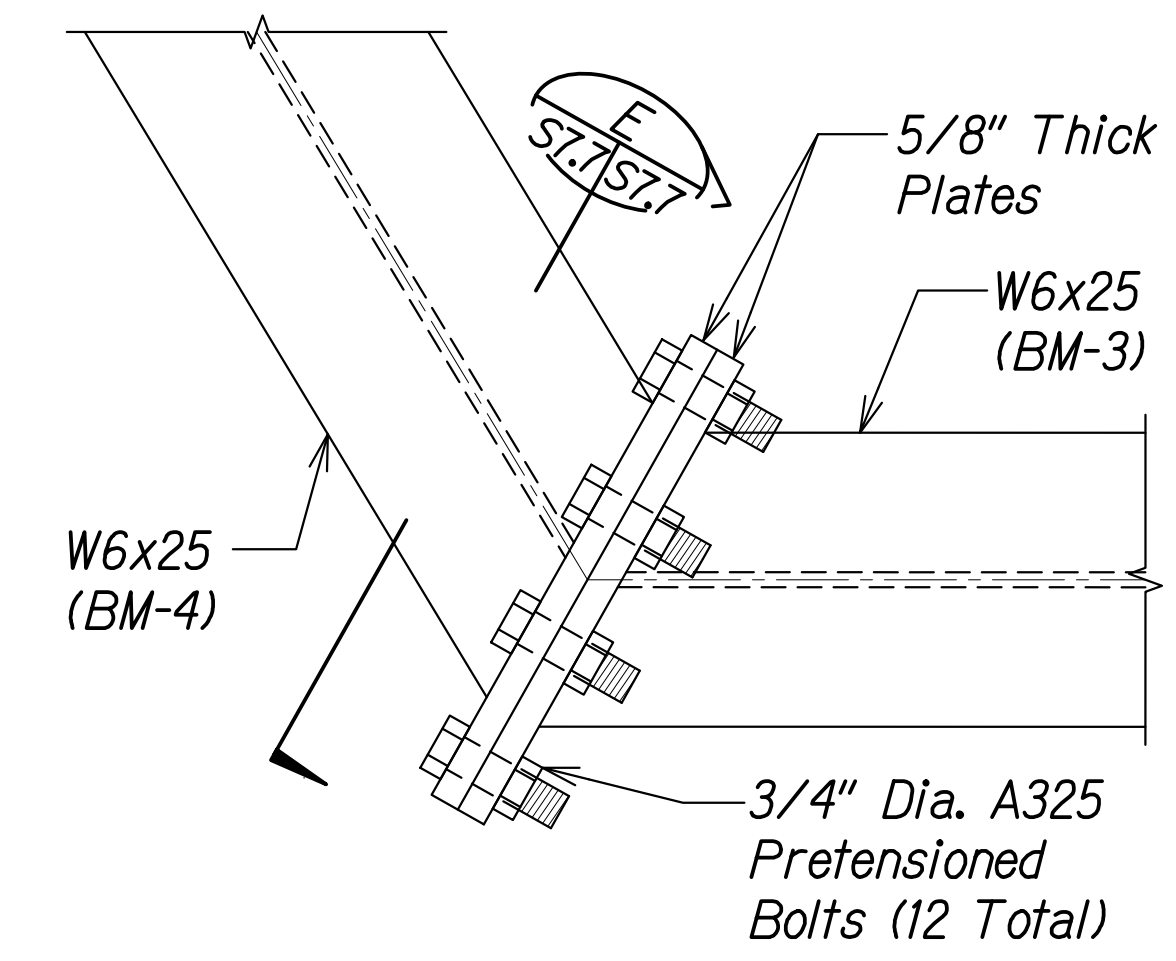
DETAIL 1
 Scale: 1 1/2" = 1'-0"
 ST.7 ST.7



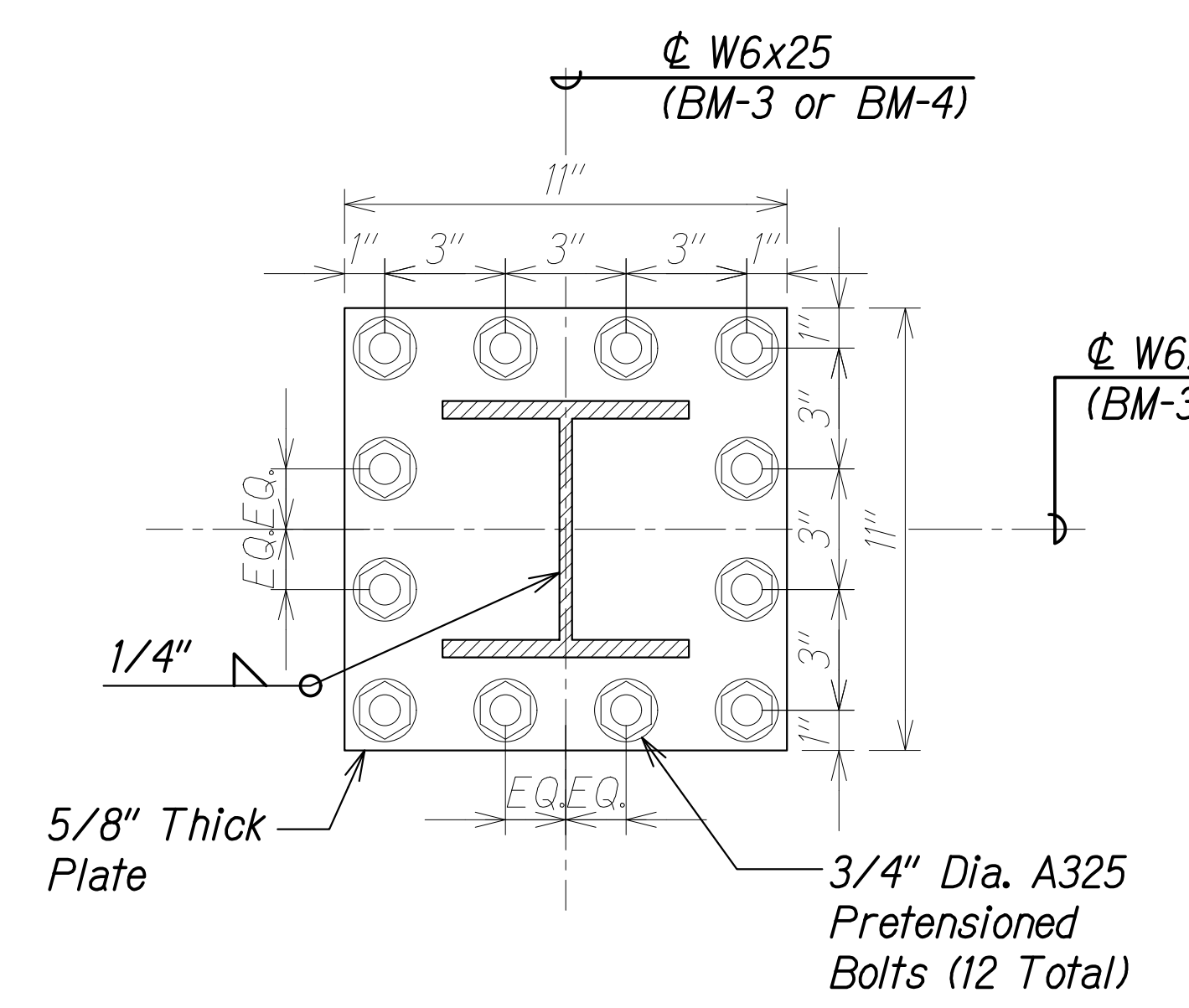
SECTION C
 Scale: 3" = 1'-0"
 ST.7 ST.7



SECTION D
 Scale: 3" = 1'-0"
 ST.7 ST.7



DETAIL 4
 Scale: 3" = 1'-0"
 ST.7 ST.7



SECTION E
 Scale: 3" = 1'-0"
 ST.7 ST.7



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: Calvin Miyahara
 DATE: 4-30-24
 SIGNATURE EXPIRES DATE OF THE LICENSE

NOTE:

Ship W6x25 Beams and Hardware loose. To be field installed by General Contractor. Installation of Microwave Radar Sensors by others.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

DRAWING NAME: ZA 00 ONGONGI 00 IF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID DS11-50707 VEH DETECTION PLOT TIME: 09-29-22, 4:39 PM

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

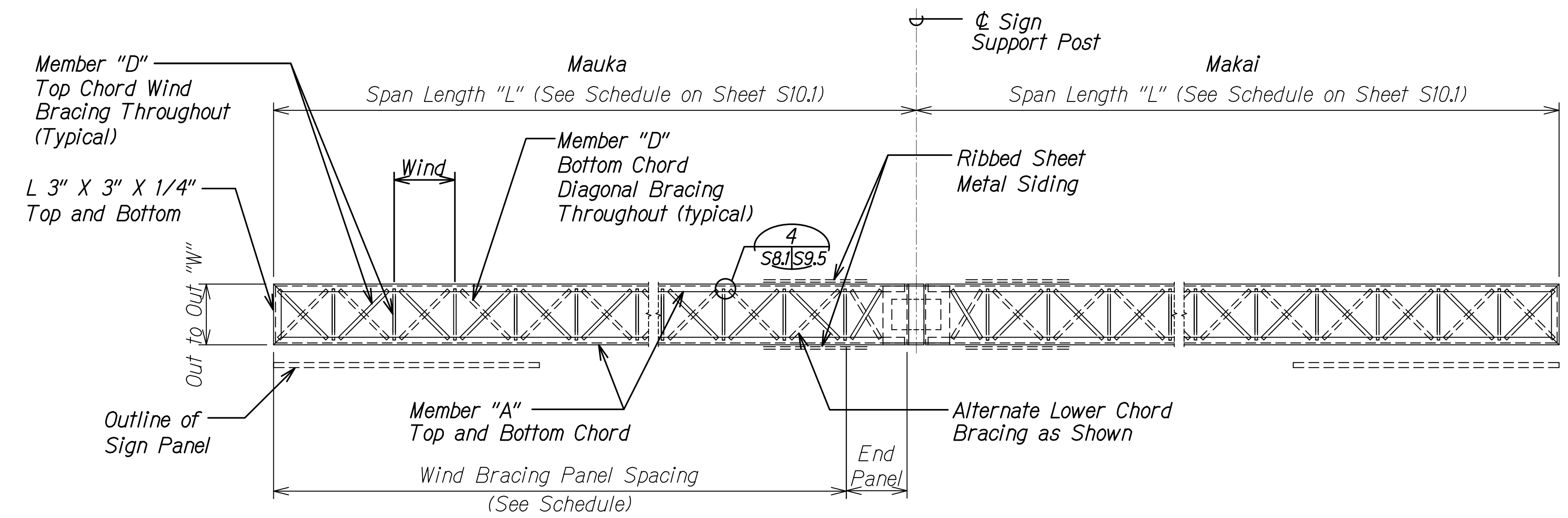
**BOX TRUSS SIGN STRUCTURE - MICROWAVE
 RADAR SUPPORT PLAN, SECTS, AND DETAILS**

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

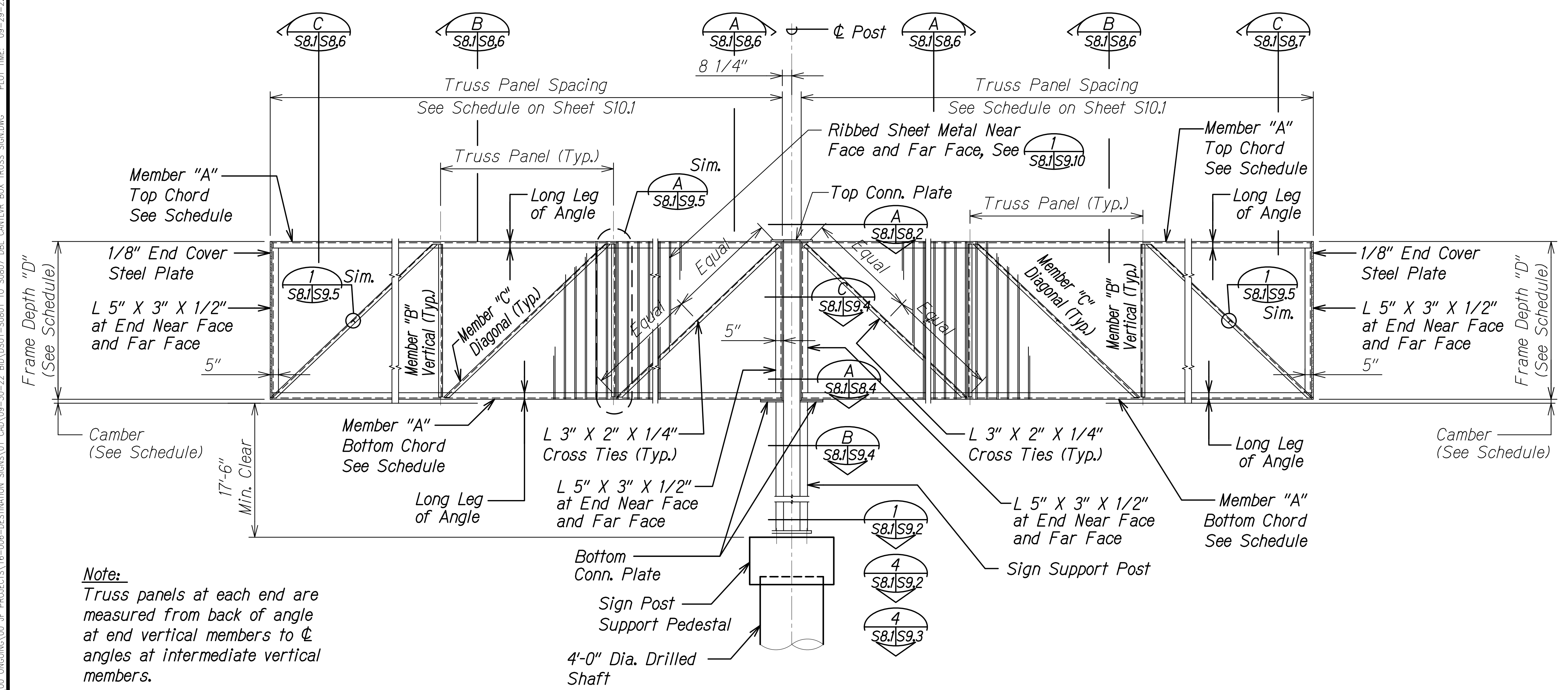
SHEET No. S7.7 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	151	175



- NOTES:**
- For sign structure schedule see sheets S10.1 and S10.2.
 - This sign structure type shall be paid for under "Type III" as shown on the proposal schedule.

DOUBLE CANTILEVER BOX TRUSS PLAN - TOP AND BOTTOM WIND BRACE FRAMING
 Scale: 1/4" = 1'-0" A
S8.1/S8.1

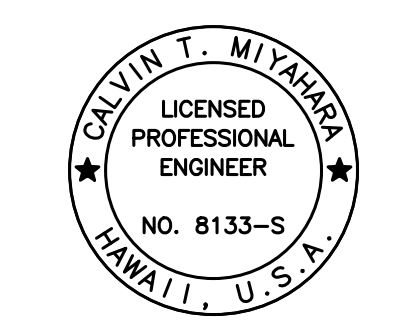


Note:
 Truss panels at each end are measured from back of angle at end vertical members to center of angles at intermediate vertical members.

ELEVATION - DOUBLE CANTILEVER TRUSS FRAMING DETAILS
 Scale: 1/4" = 1'-0" B
S8.1/S8.1

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

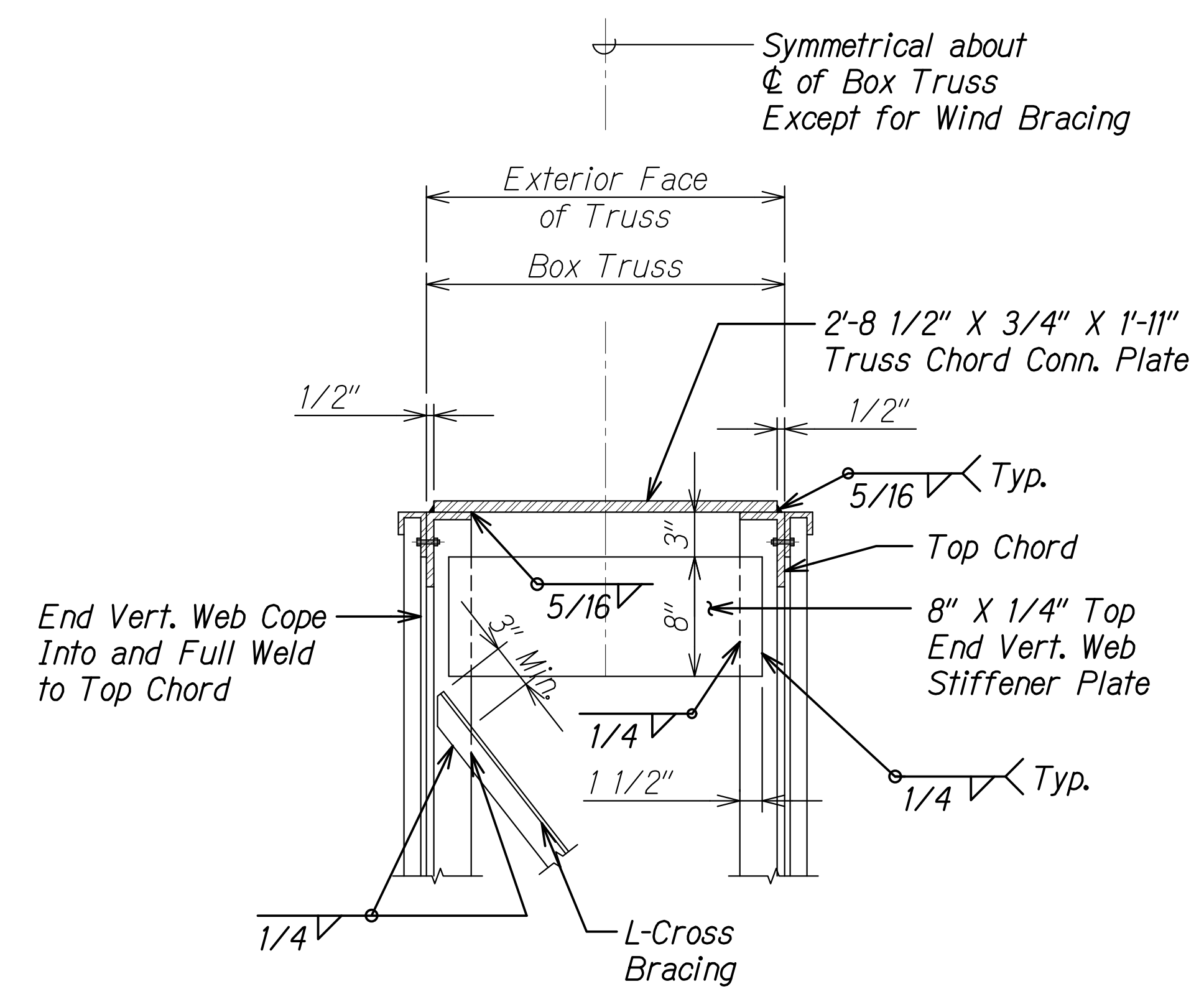
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE
PLAN AND ELEVATION
 INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)
 Scale: As Noted Date: Sept. 2022
 SHEET No. S8.1 OF 8 SHEETS

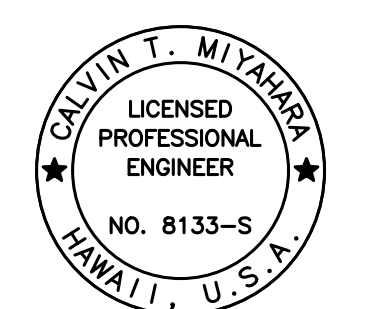
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	153	175



SECTION A
 Scale: 1 1/2" = 1'-0" S8.3 | S8.3

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

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50801 TO 50807 DBL CANTILEV BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:42 PM



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 SIGNATURE EXPIRATION DATE OF THE LICENSE: 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE

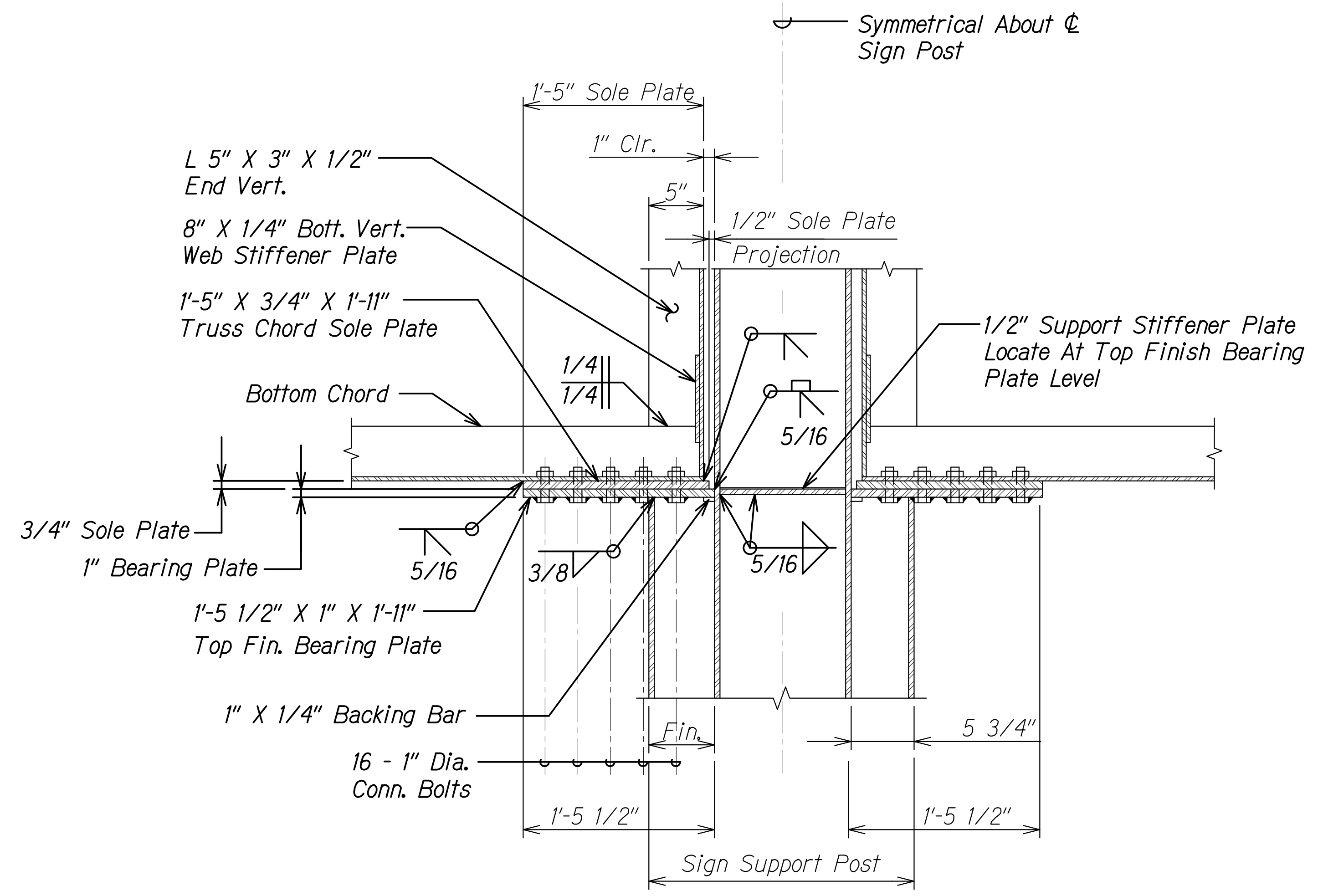
SECTION

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S8.3 OF 8 SHEETS

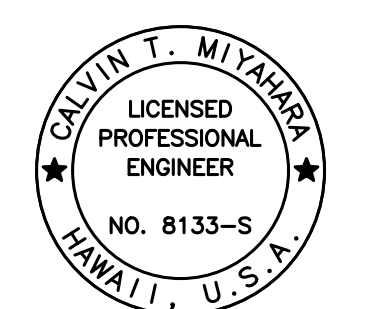
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	155	175



SECTION A
 Scale: 1 1/2" = 1'-0" S8.5 | S8.5

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50801 TO 50807 DBL CANTILEVER BOX TRUSS SIGNING PLOT TIME: 09-29-22, 4:43 PM

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



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Calvin Miyakawa
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE

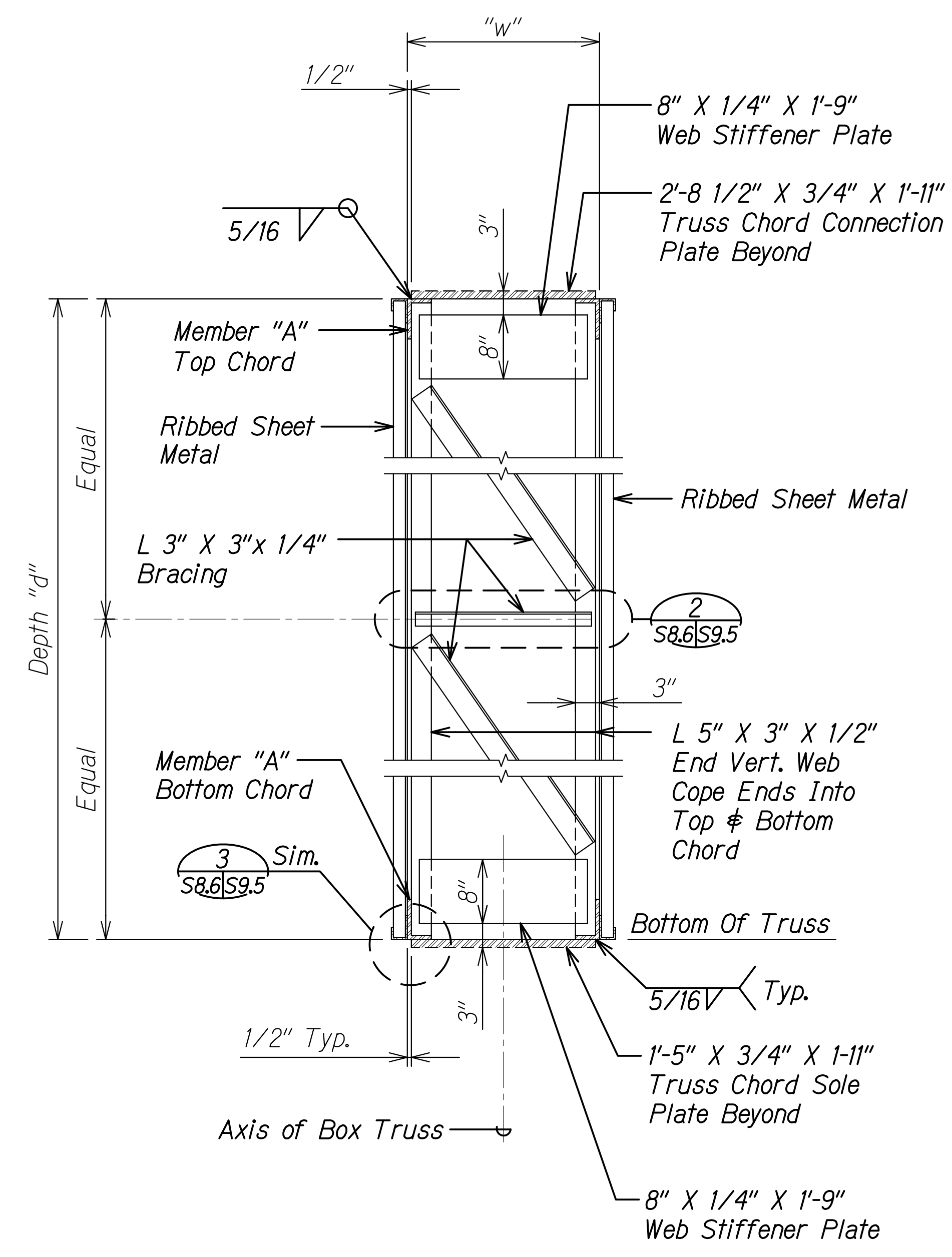
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INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

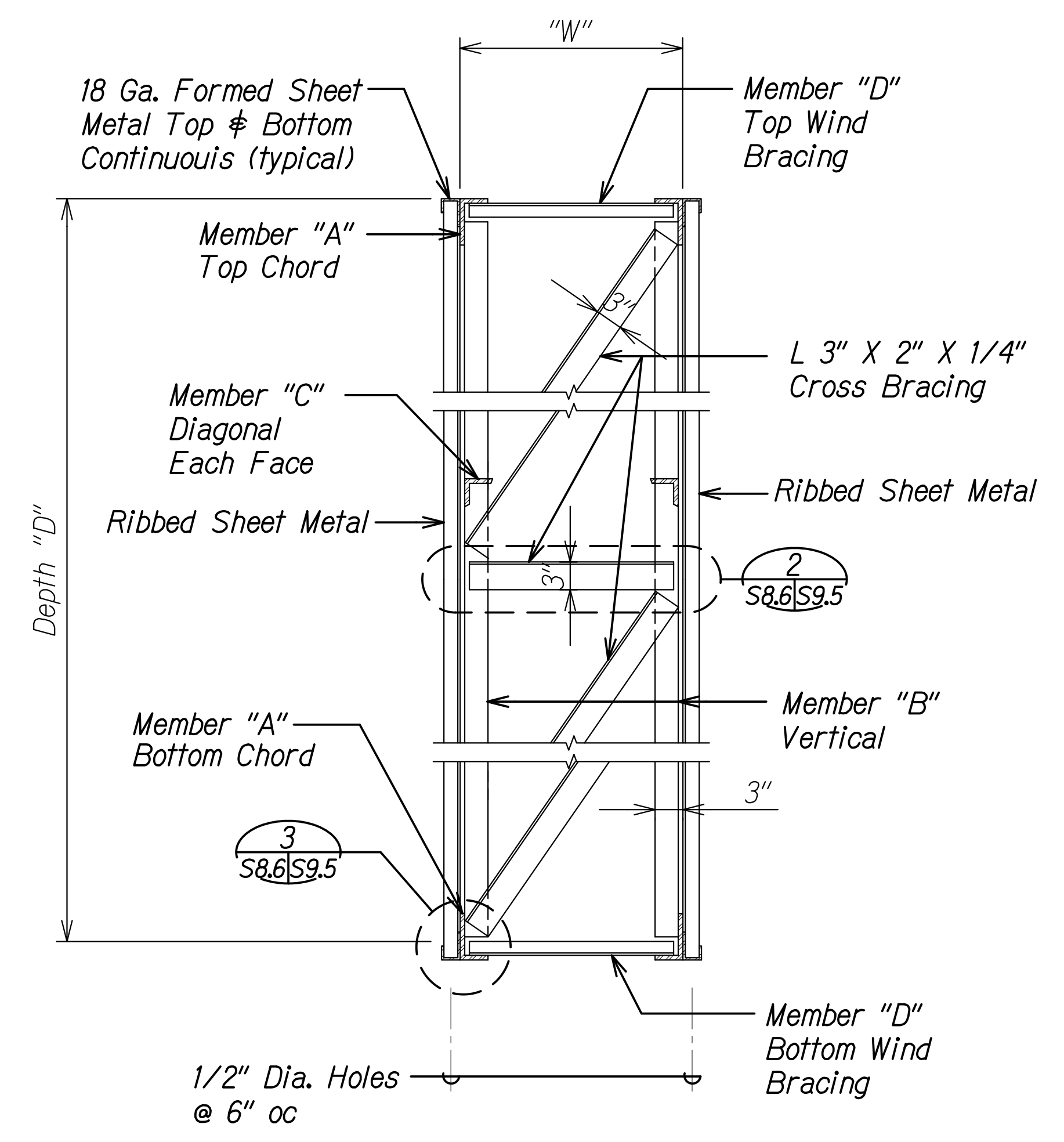
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SHEET No. S8.5 OF 8 SHEETS

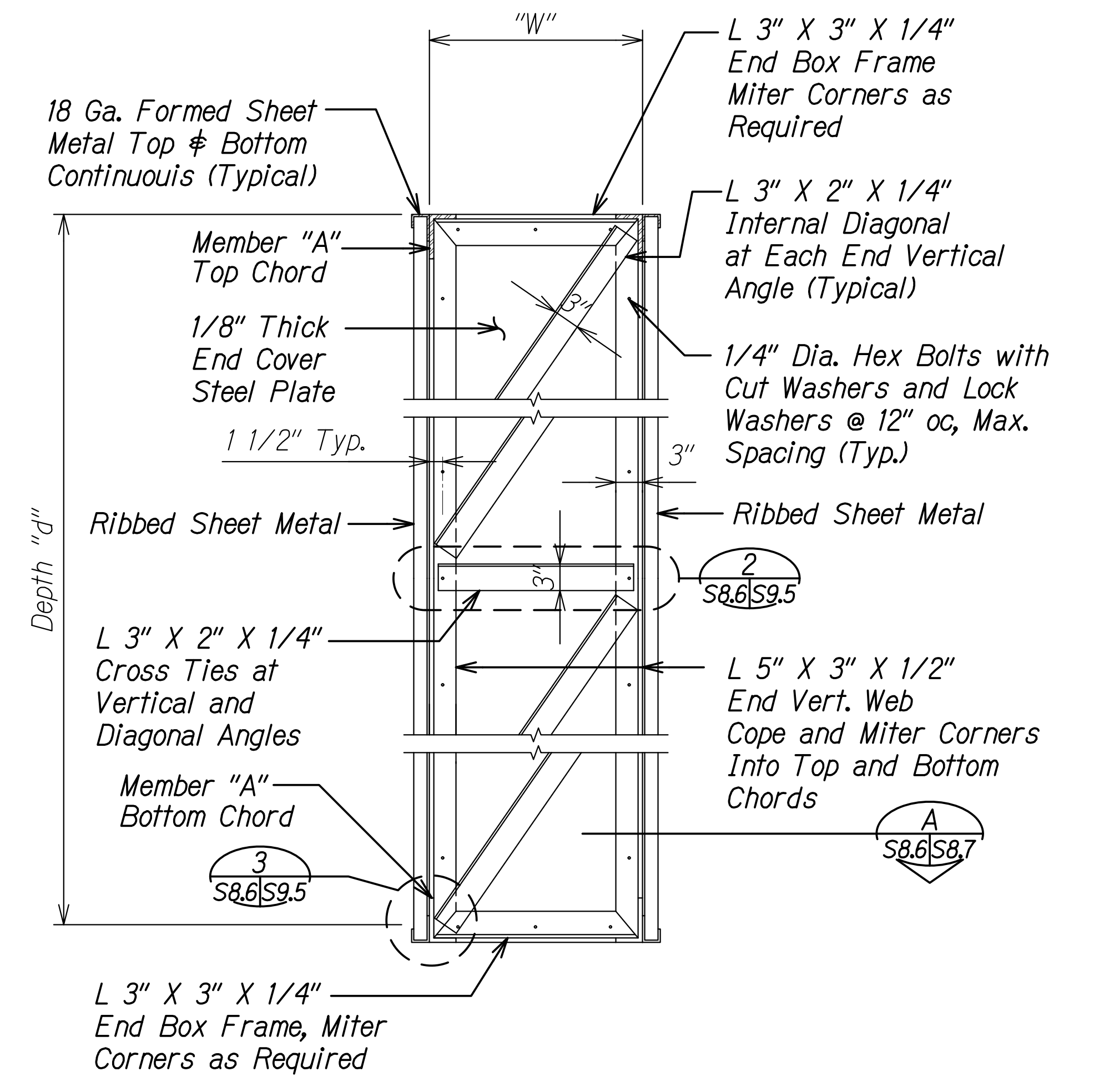
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	156	175



SECTION AT COLUMN END A
Scale: 1" = 1'-0"



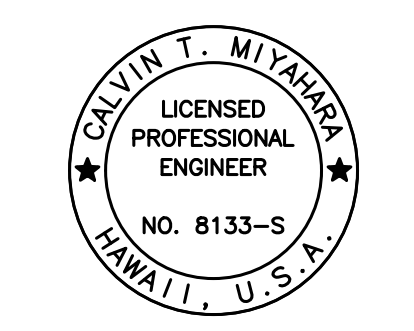
TYPICAL SECTION B
Scale: 1" = 1'-0"



SECTION AT FREE END C
Scale: 1" = 1'-0"

ORIGINAL PLAN	DATE
NOTE BOOK	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\DS11-50801 TO 50807 DBL CANTILEVER BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:43 PM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE

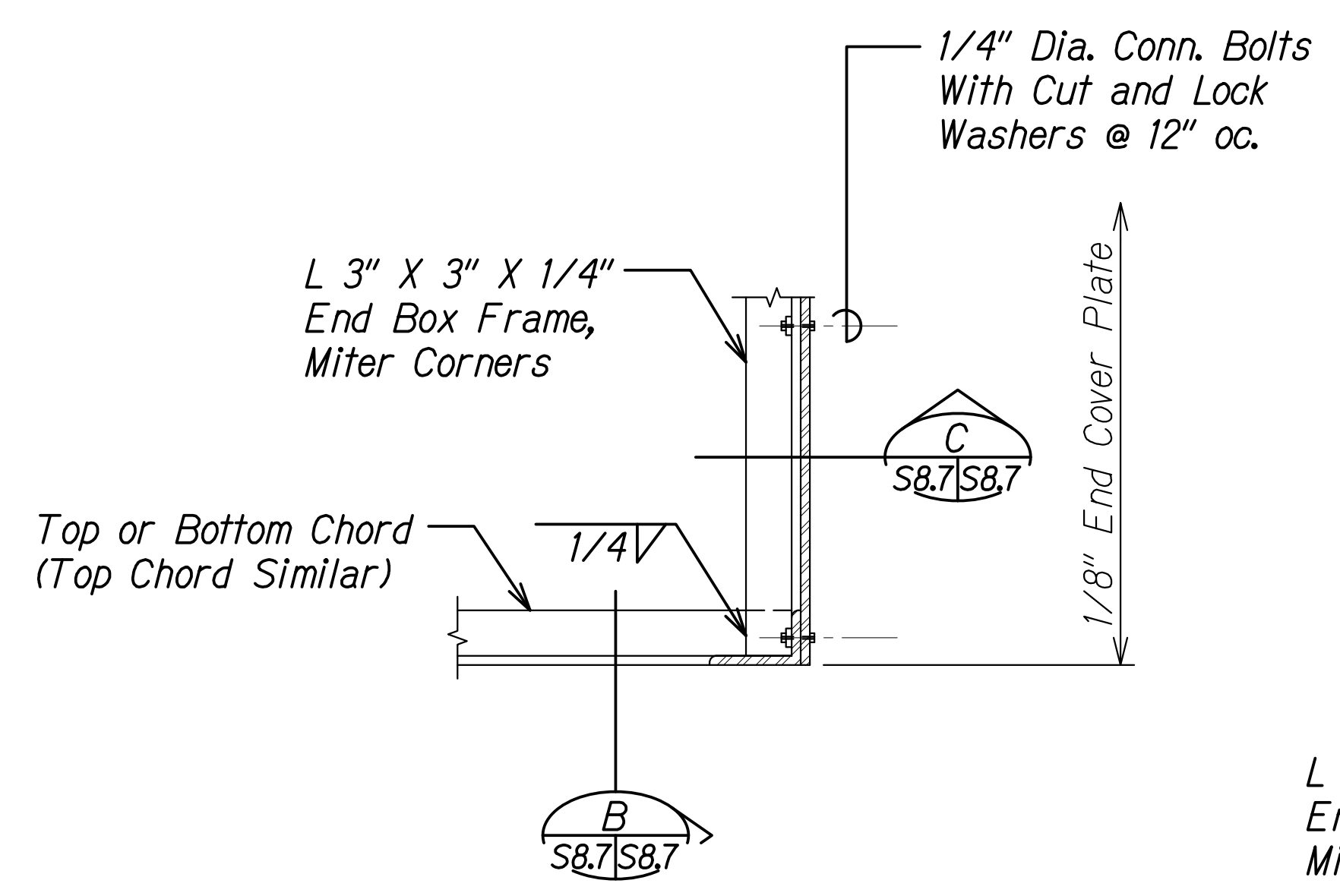
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

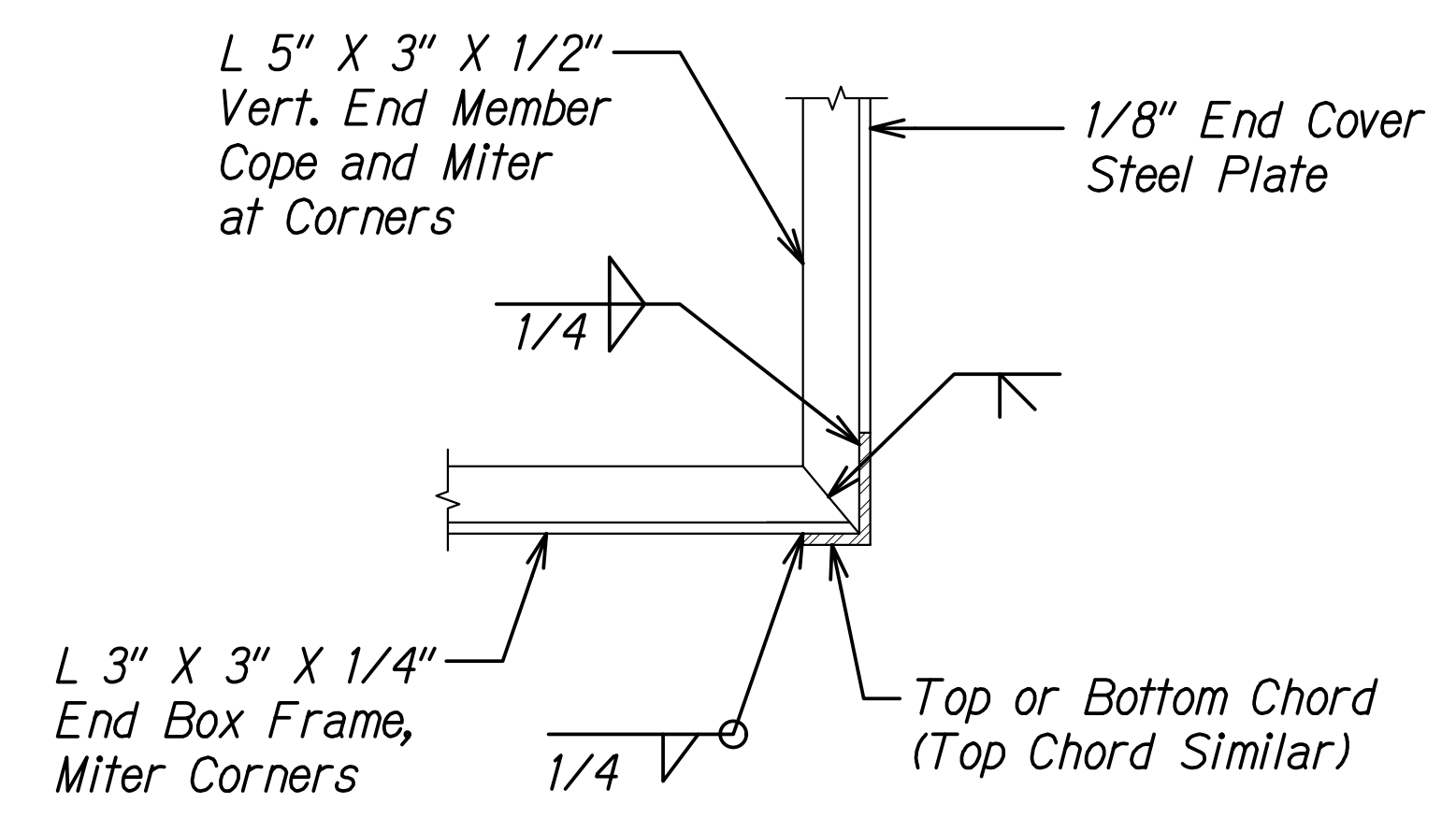
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SHEET No. S8.6 OF 8 SHEETS

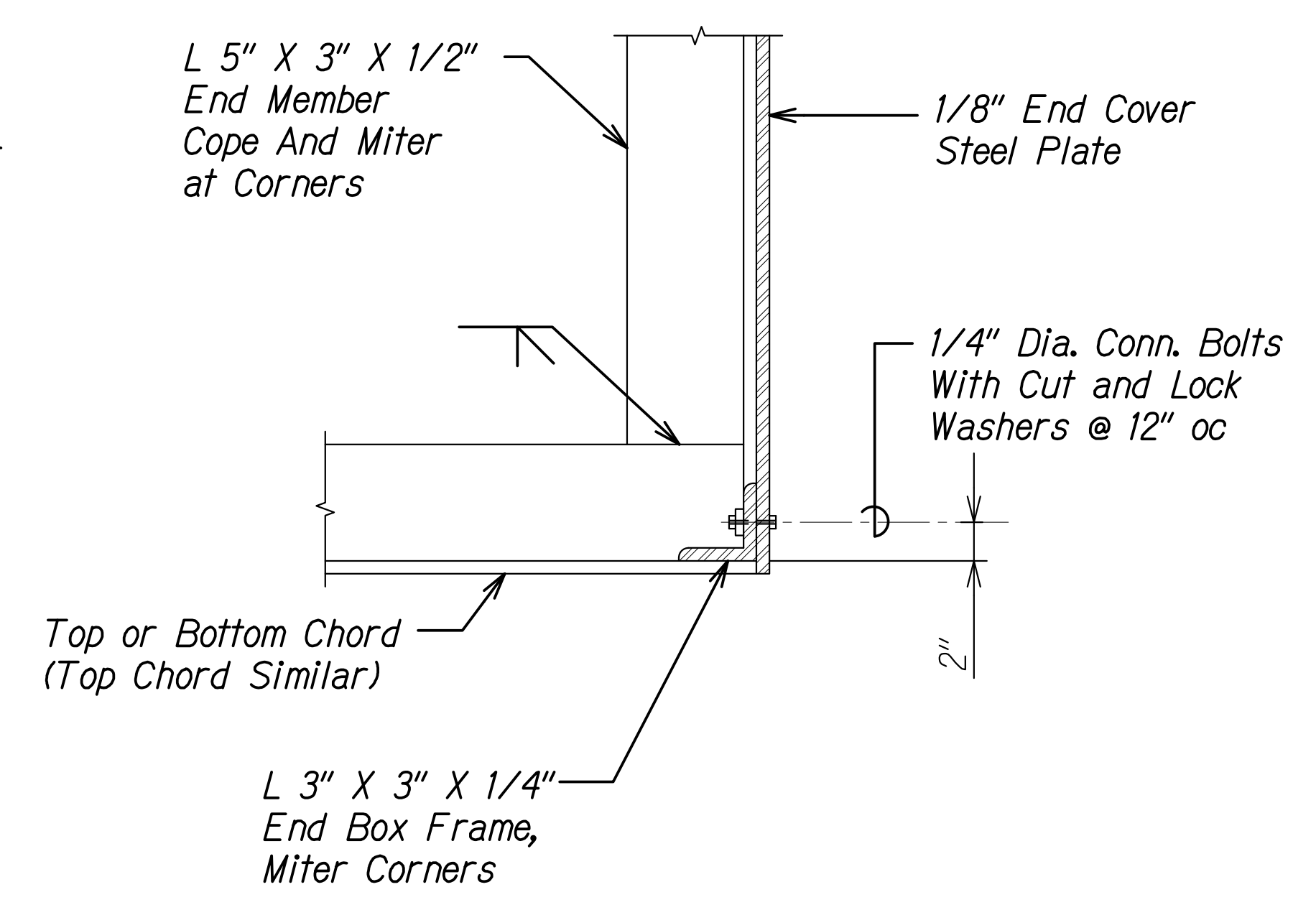
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	157	175



PLAN AT FREE END A
 Scale: 1 1/2" = 1'-0" S8.7 | S8.7



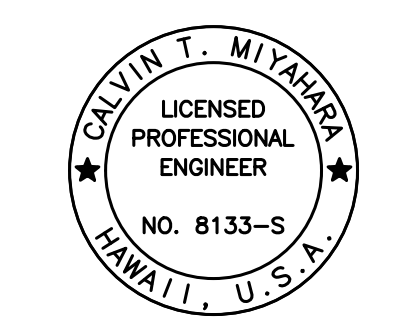
SECTION B
 Scale: 1 1/2" = 1'-0" S8.7 | S8.7



SECTION C
 Scale: 1 1/2" = 1'-0" S8.7 | S8.7

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50801 TO 50807 DBL CANTILEVER BOX TRUSS SIGN.DWG PLOT TIME: 09-29-22, 4:43 PM



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Calvin Miyakawa
 SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-24

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE

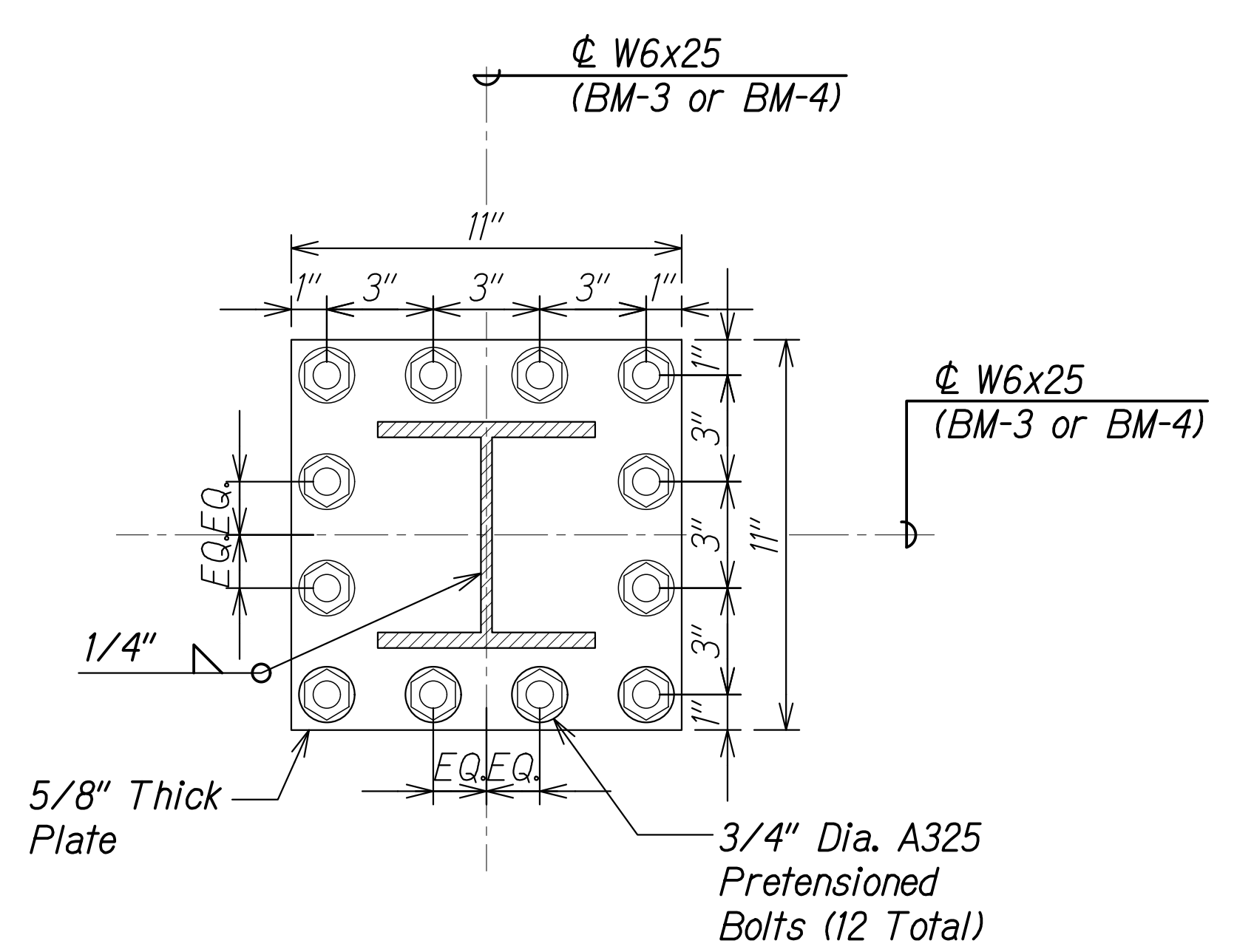
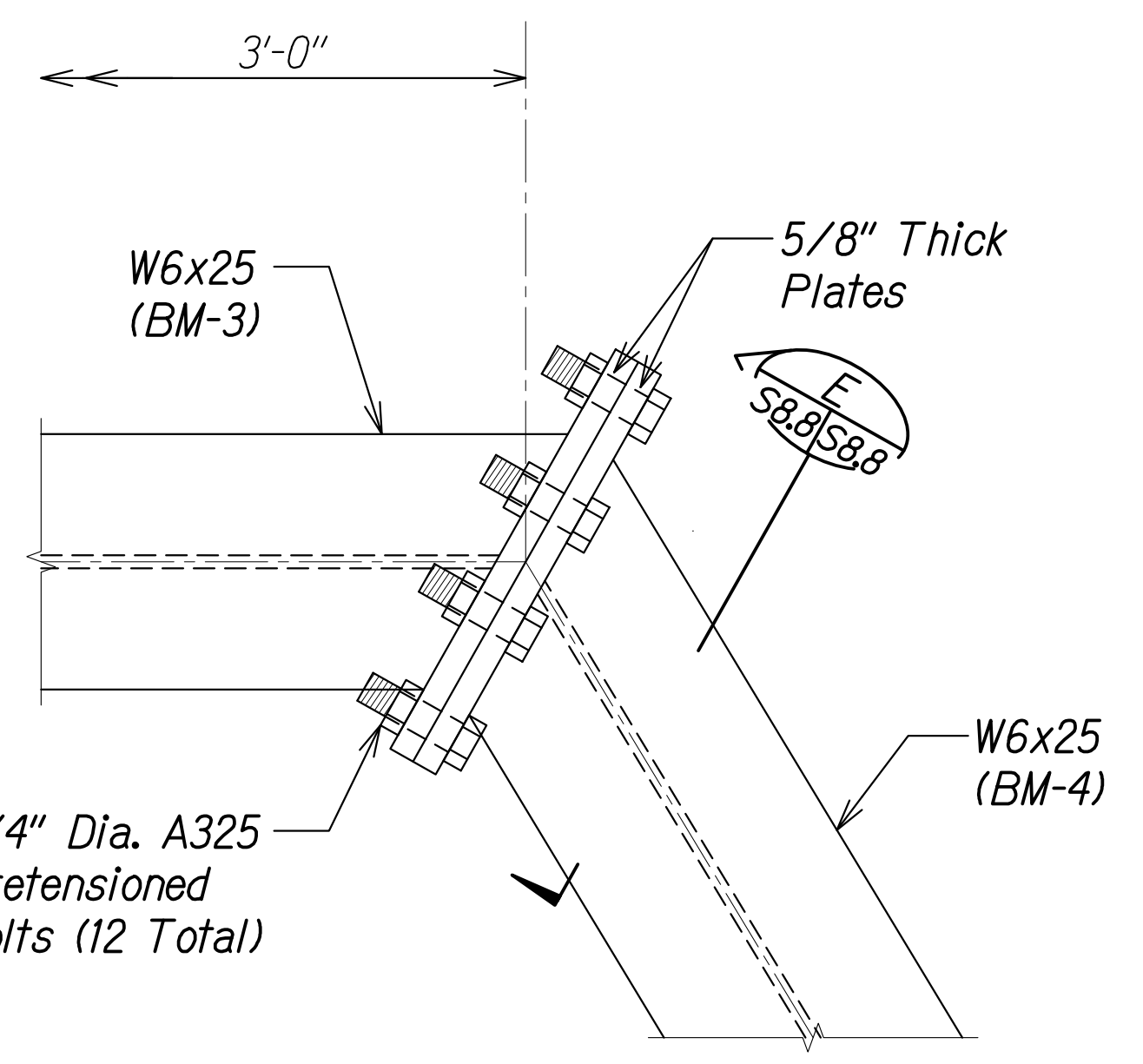
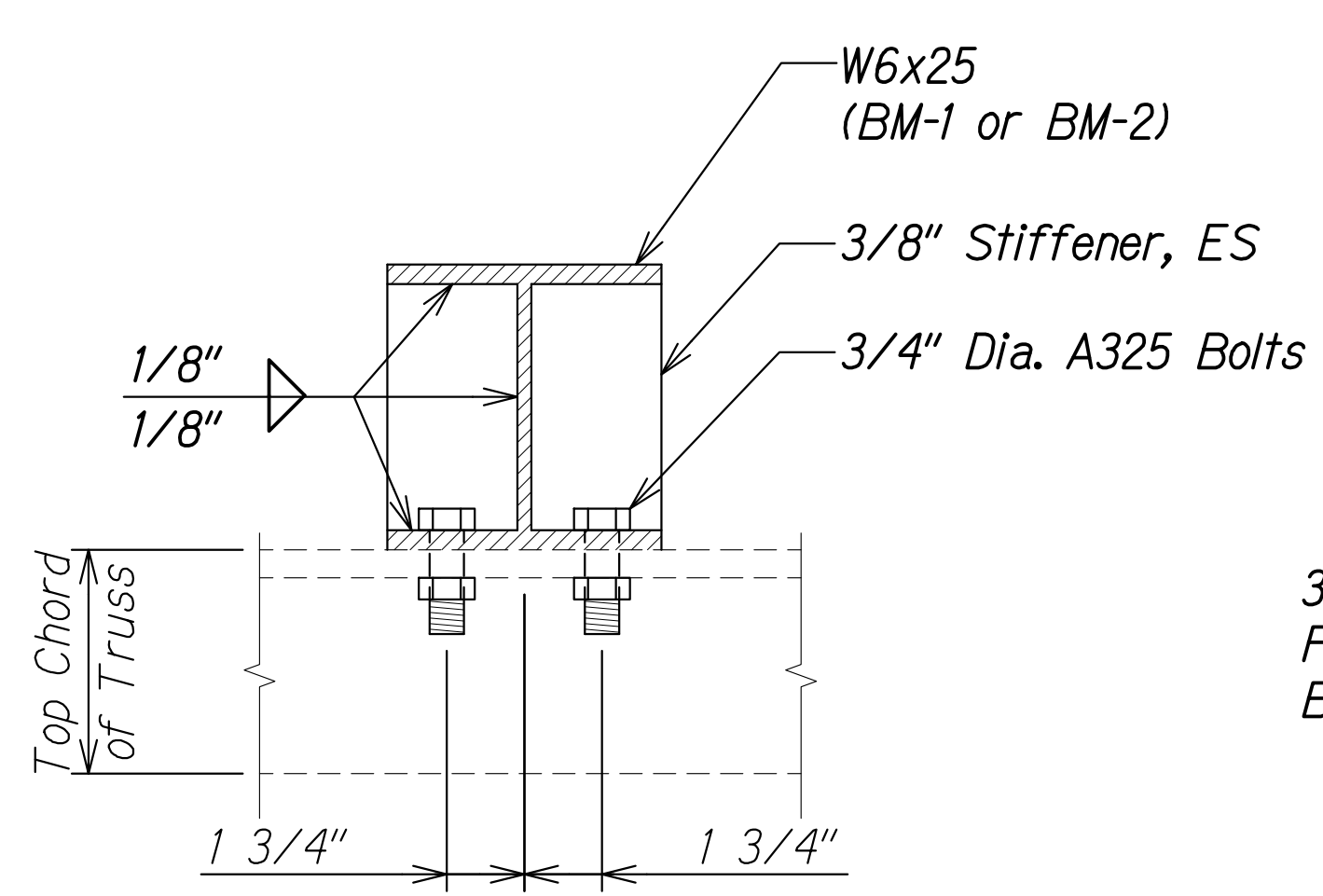
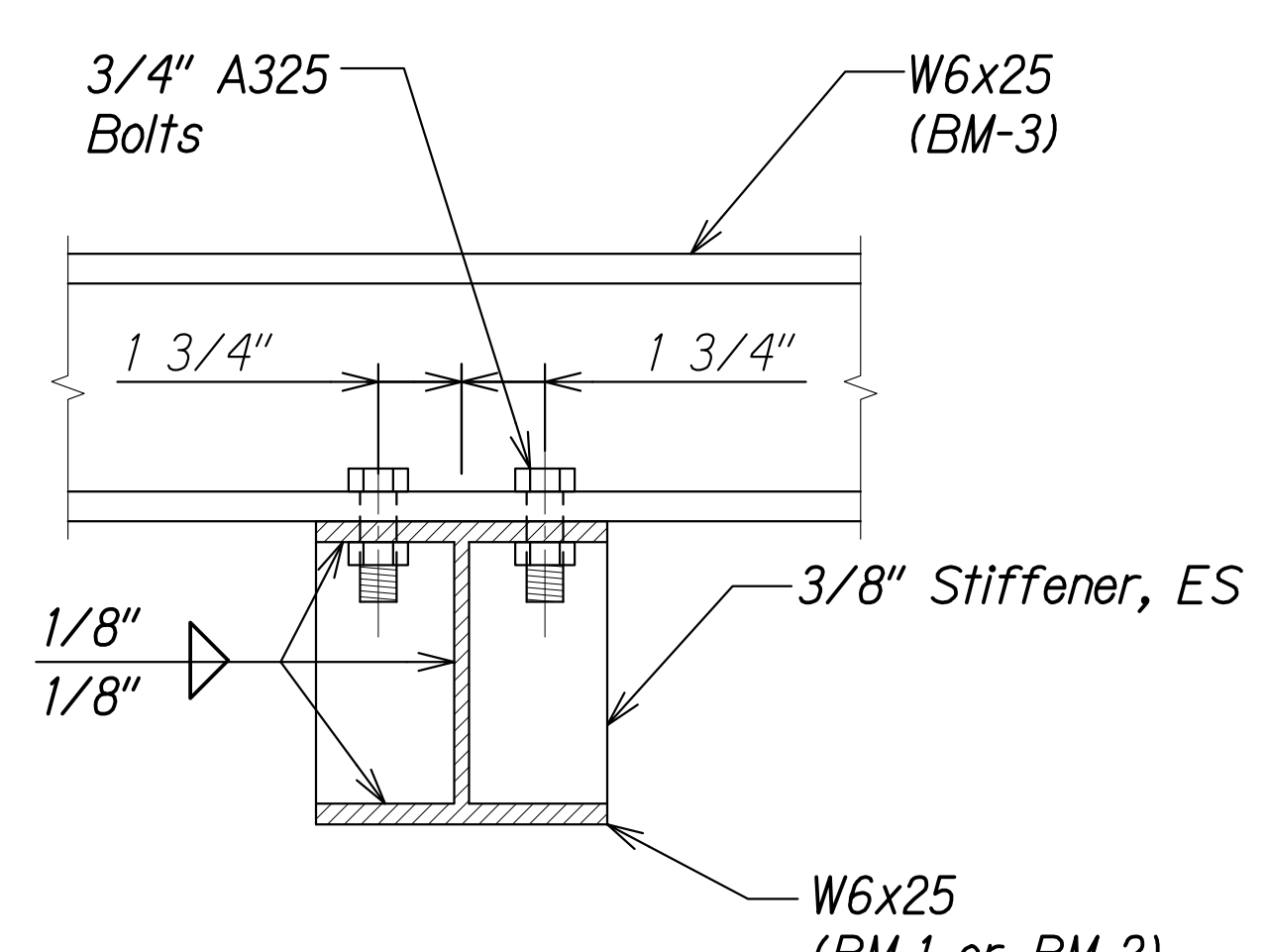
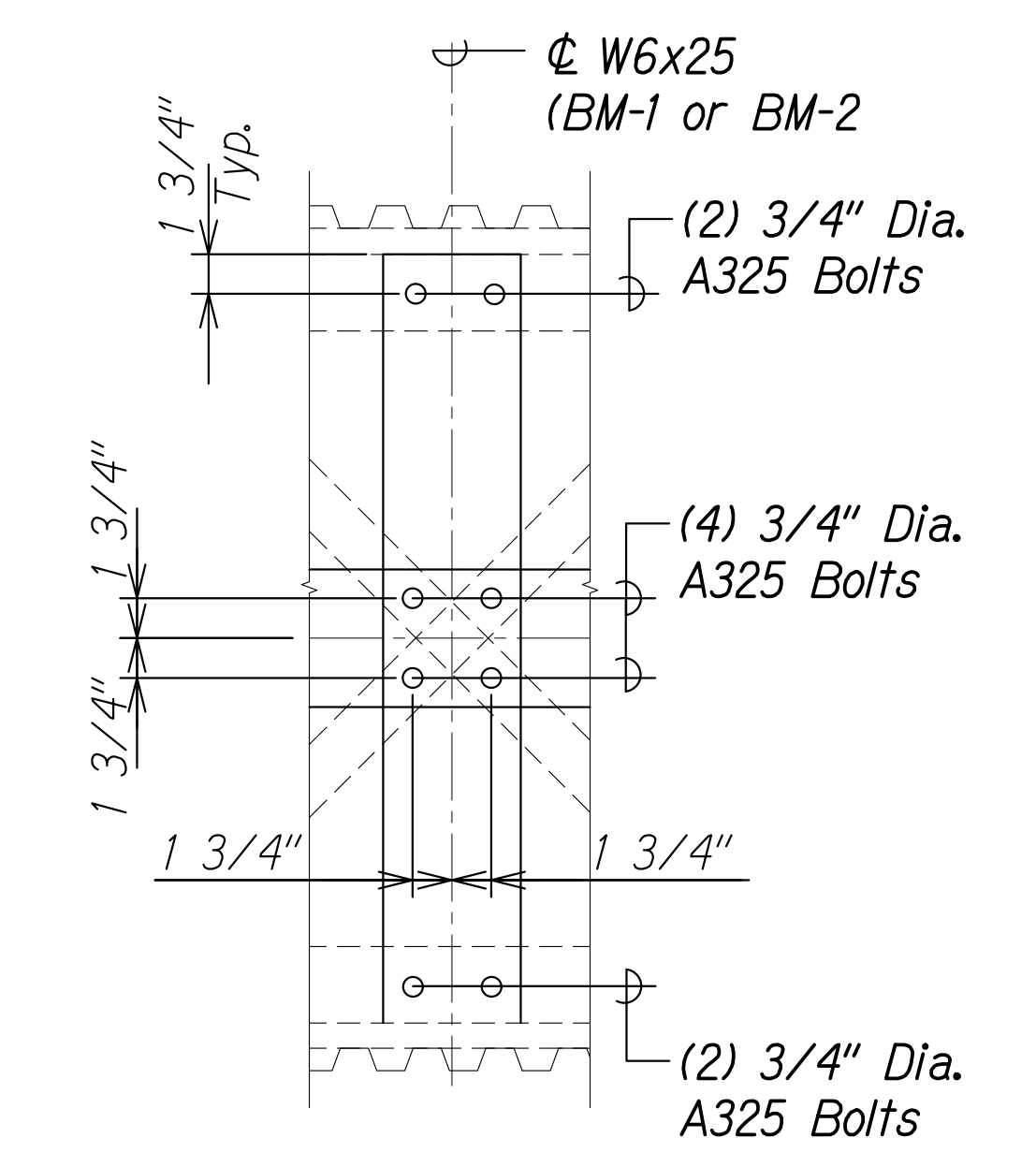
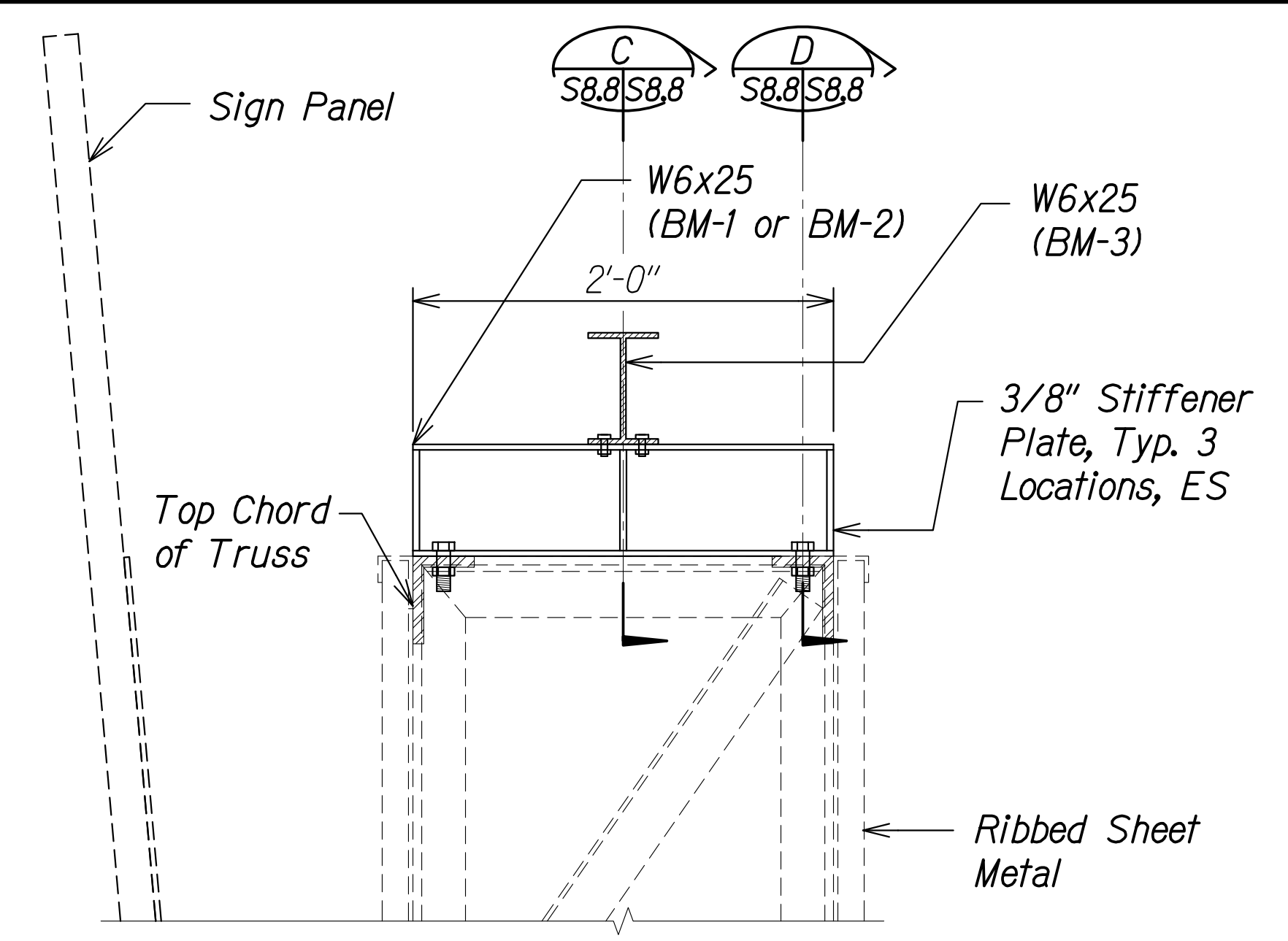
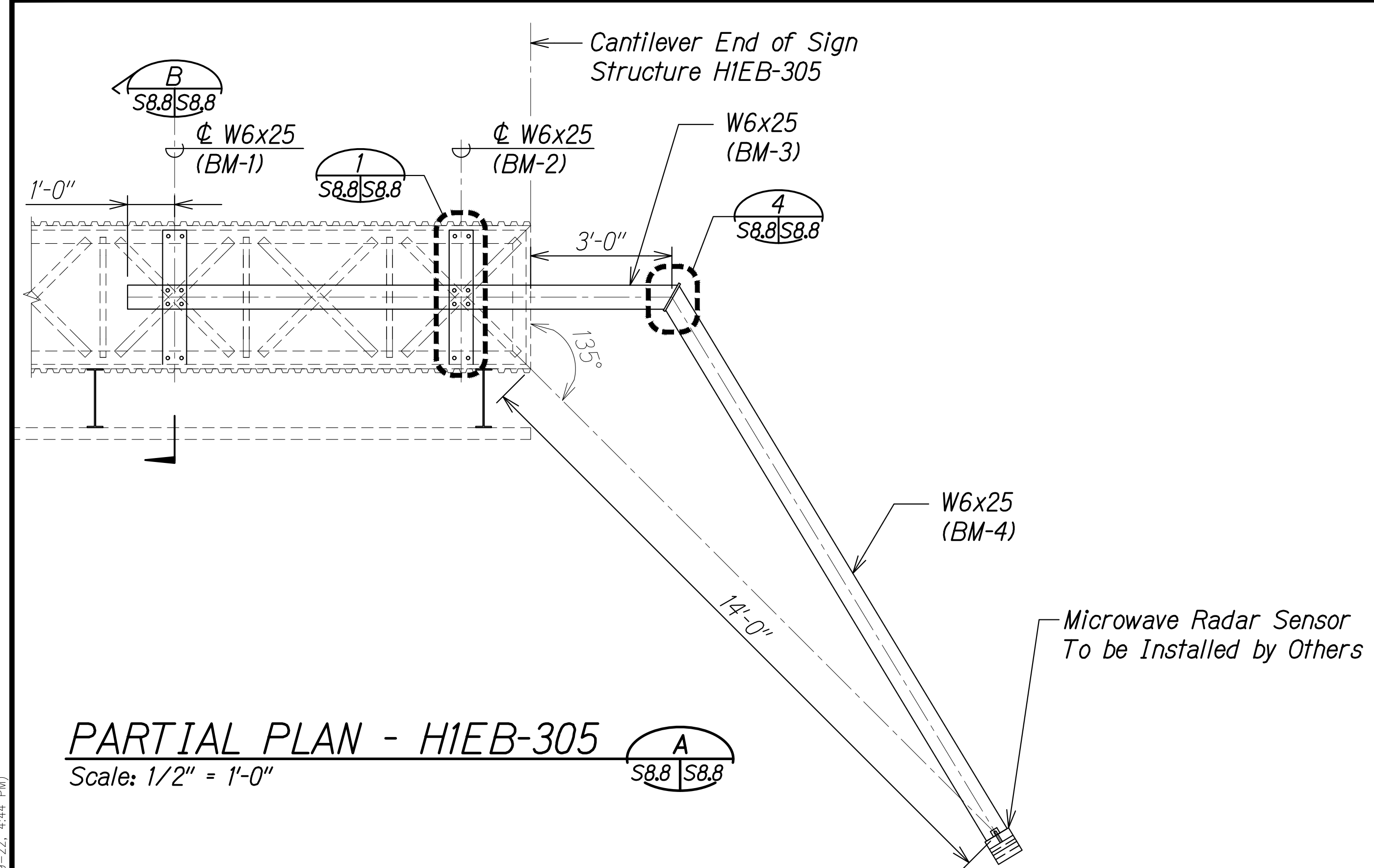
SECTIONS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S8.7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	158	175



NOTE:
Ship W6x25 Beams and Hardware loose. To be field installed by General Contractor. Installation of Microwave Radar Sensors by others.

ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\DSU1-50808 DBL CANTILEVER BOX TRUSS SIGNALING PLOT TIME: 09-29-22 4:44 PM

CALVIN T. MIYAKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Calvin Miyakawa
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

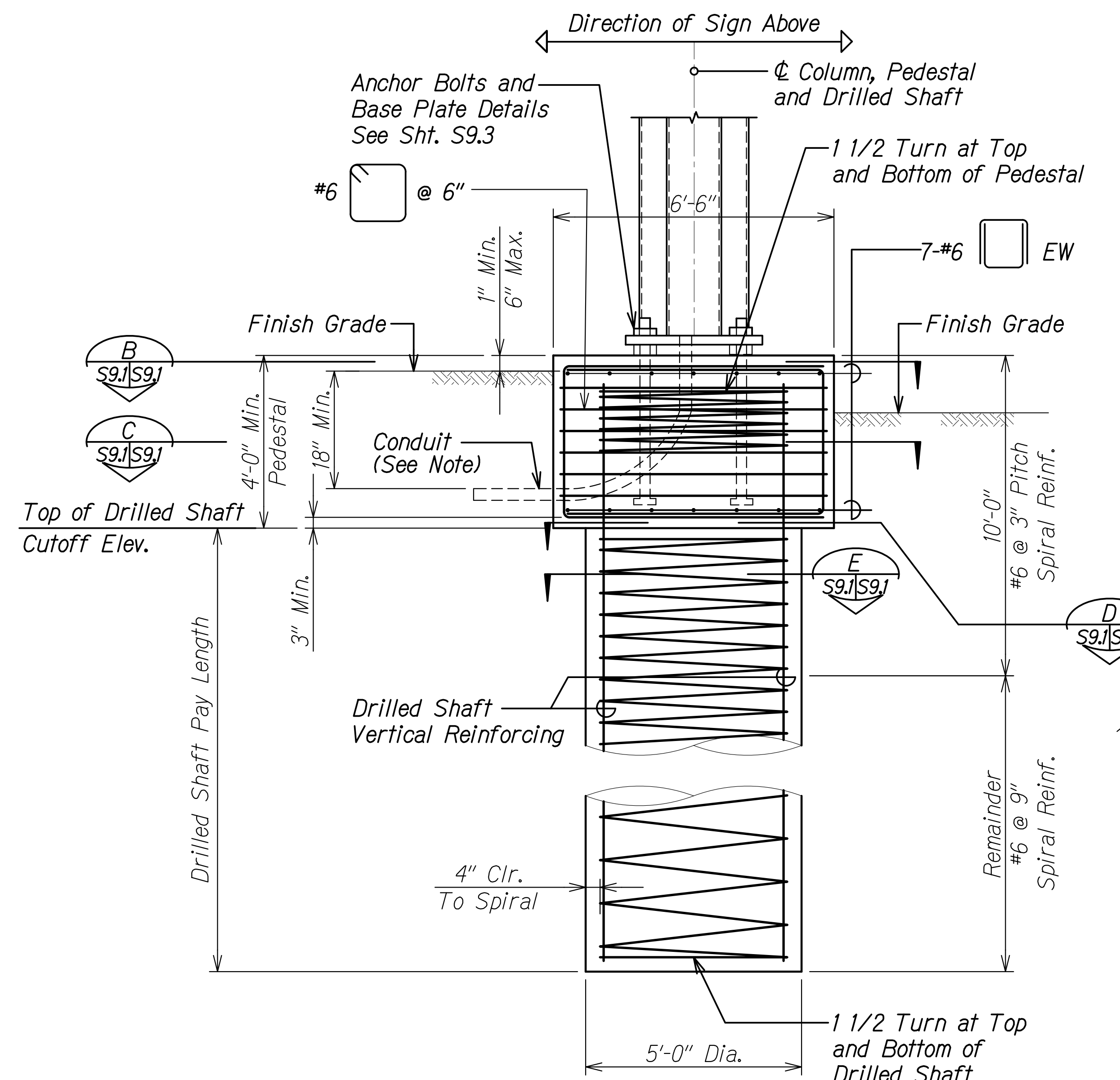
**DOUBLE CANTILEVER BOX TRUSS SIGN STRUCTURE
MICROWAVE RADAR SUPPORT PLAN, SECTS, AND DETAILS**

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

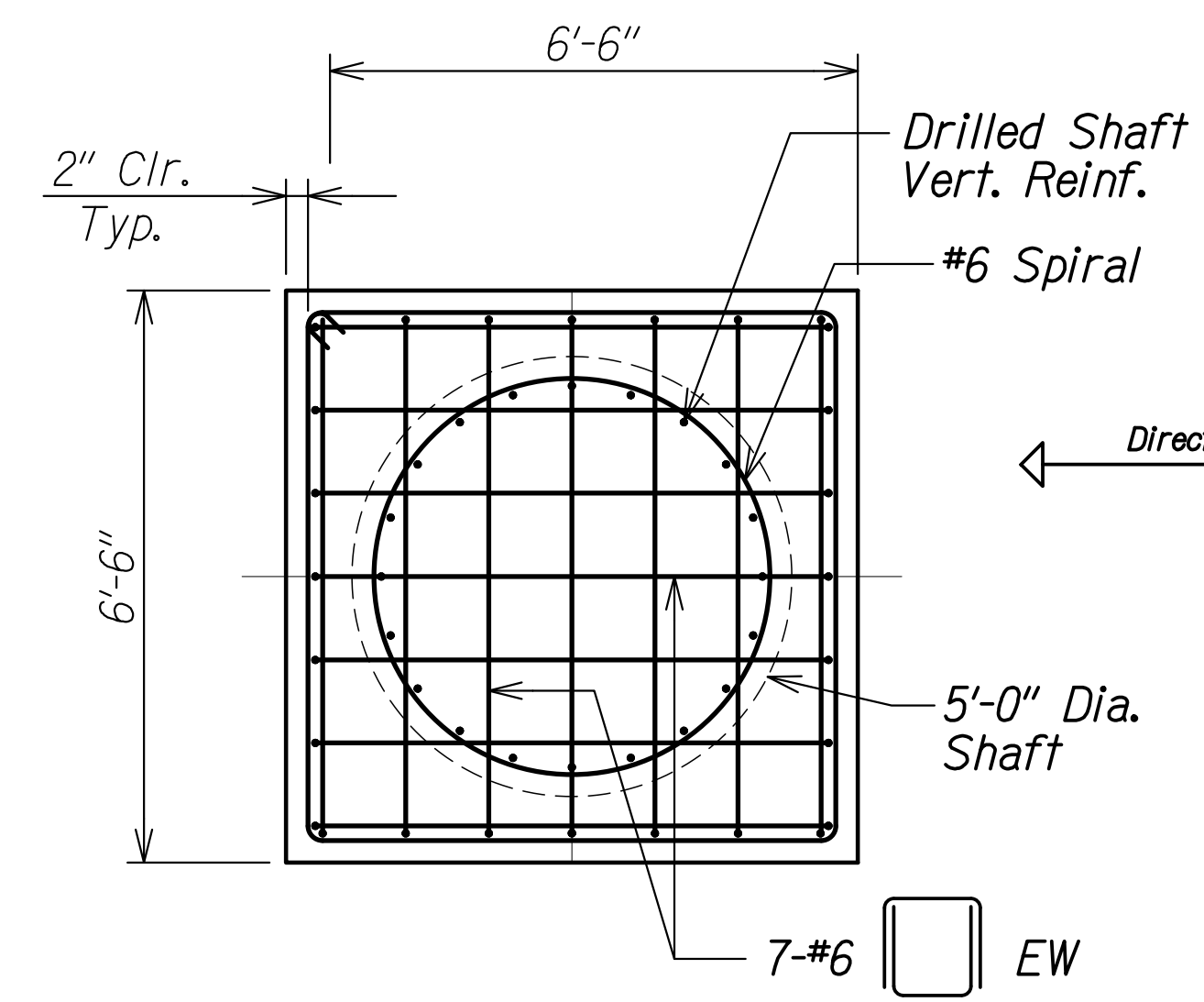
Scale: As Noted Date: Sept. 2022

SHEET No. S8.8 OF 8 SHEETS

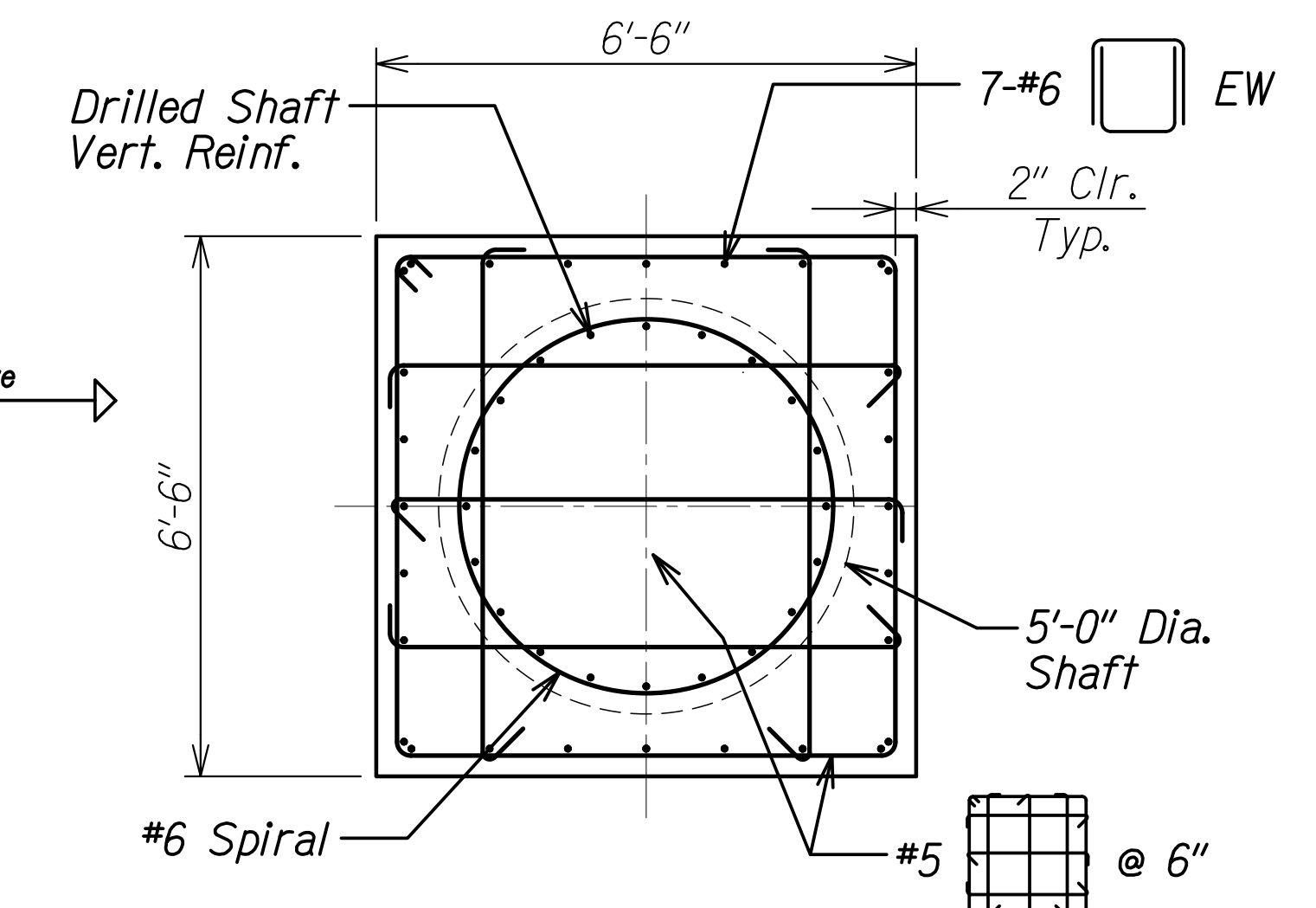
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	159	175



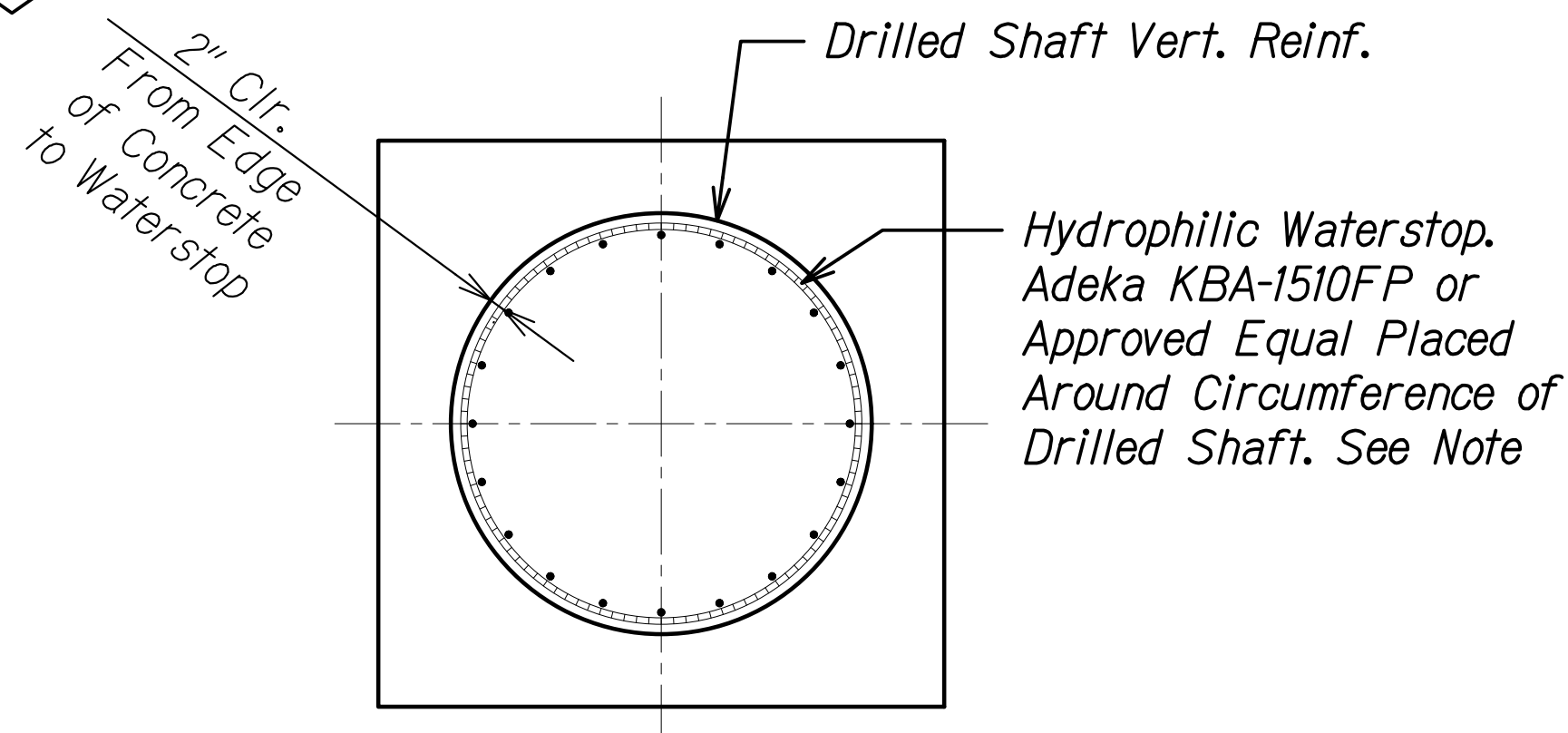
ELEVATION A
Scale: 1/2" = 1'-0" S9.1 S9.1



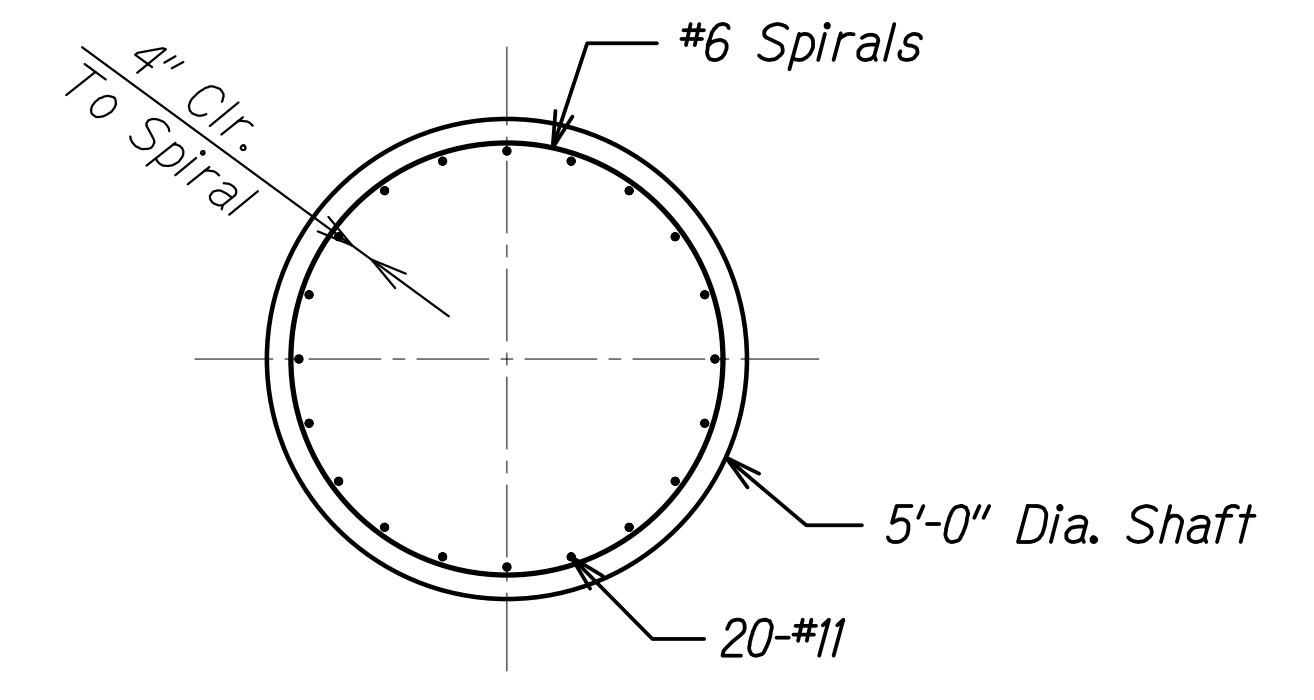
SECTION B
Scale: 1/2" = 1'-0" S9.1 S9.1



SECTION C
Scale: 1/2" = 1'-0" S9.1 S9.1



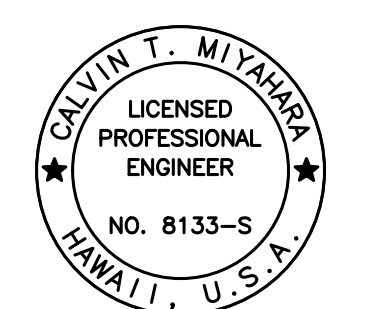
SECTION D
Scale: 1/2" = 1'-0" S9.1 S9.1



SECTION E
Scale: 1/2" = 1'-0" S9.1 S9.1

NOTES:

1. Grounding conductor shall be bonded to sign support as directed by the Engineer.
2. Drilled shaft vertical reinforcing shall be placed so that it does not conflict with the anchor and anchor plates.
3. Hydrophilic Waterstop shall be submitted to the Engineer for review and approval.



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Calvin T. Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DRILLED SHAFT AND PEDESTAL

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

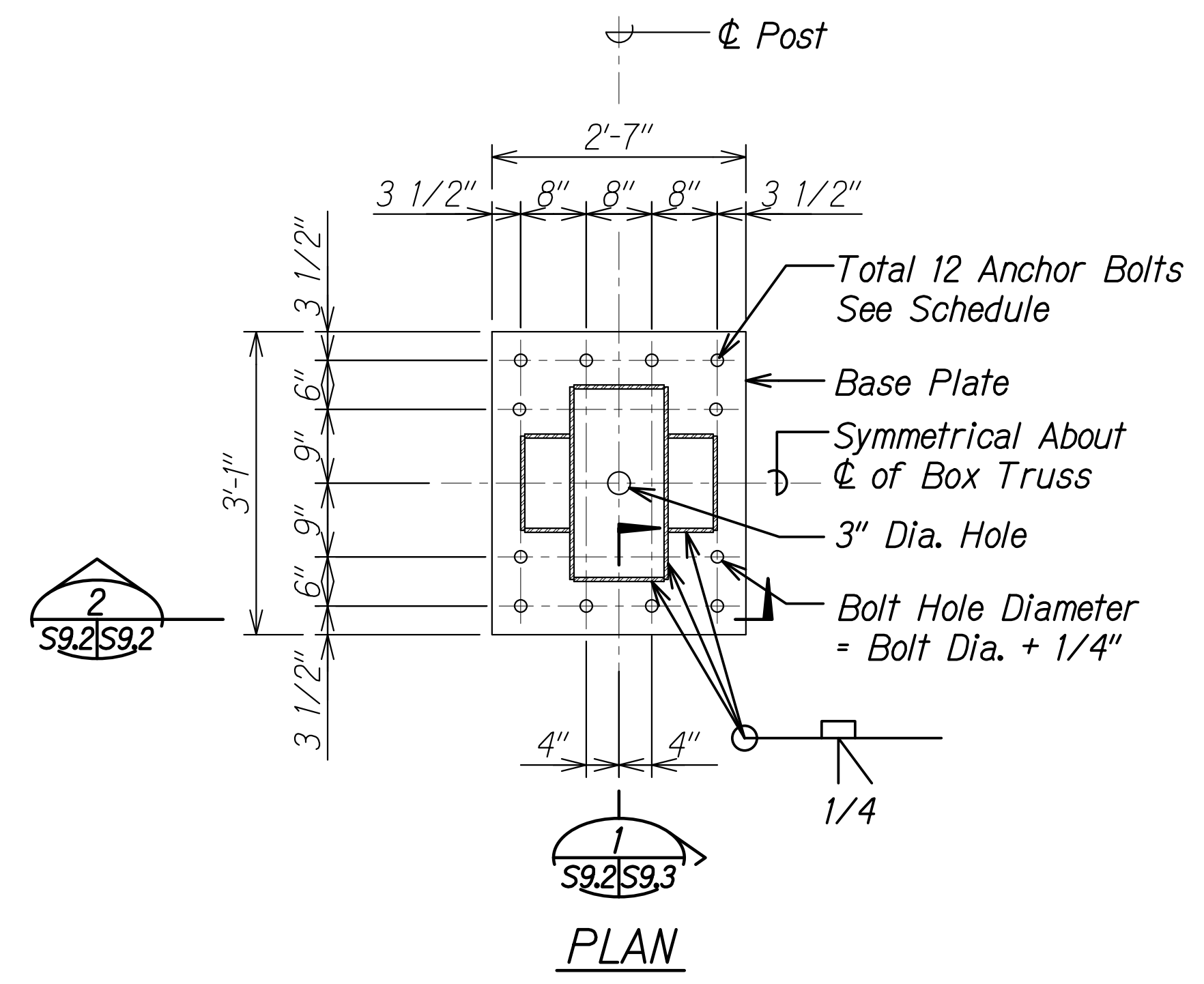
Scale: As Noted Date: Sept. 2022

SHEET No. S9.1 OF 10 SHEETS

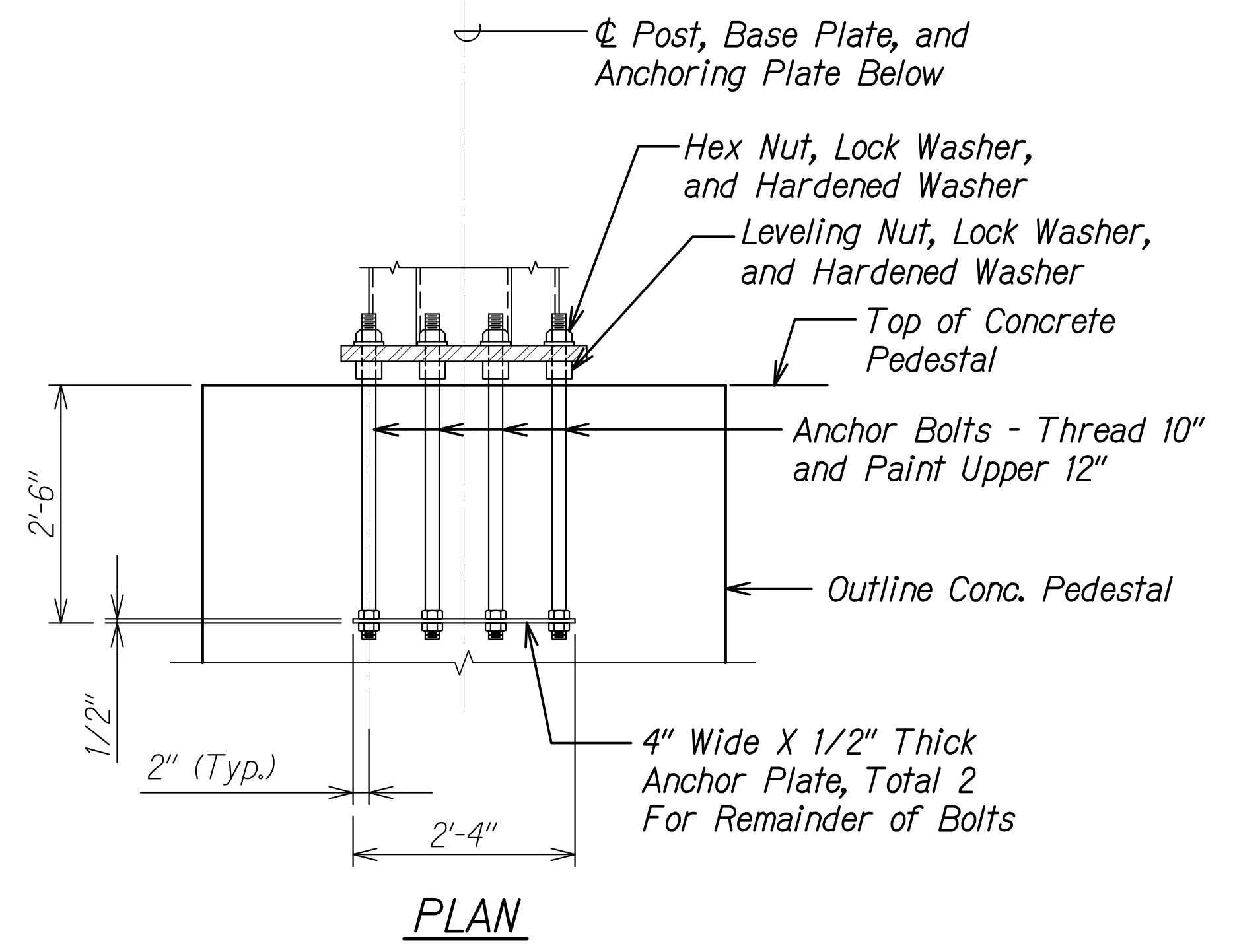
ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50901 TYP DS PEDESTAL.DWG PLOT TIME: 09-29-22, 4:45 PM

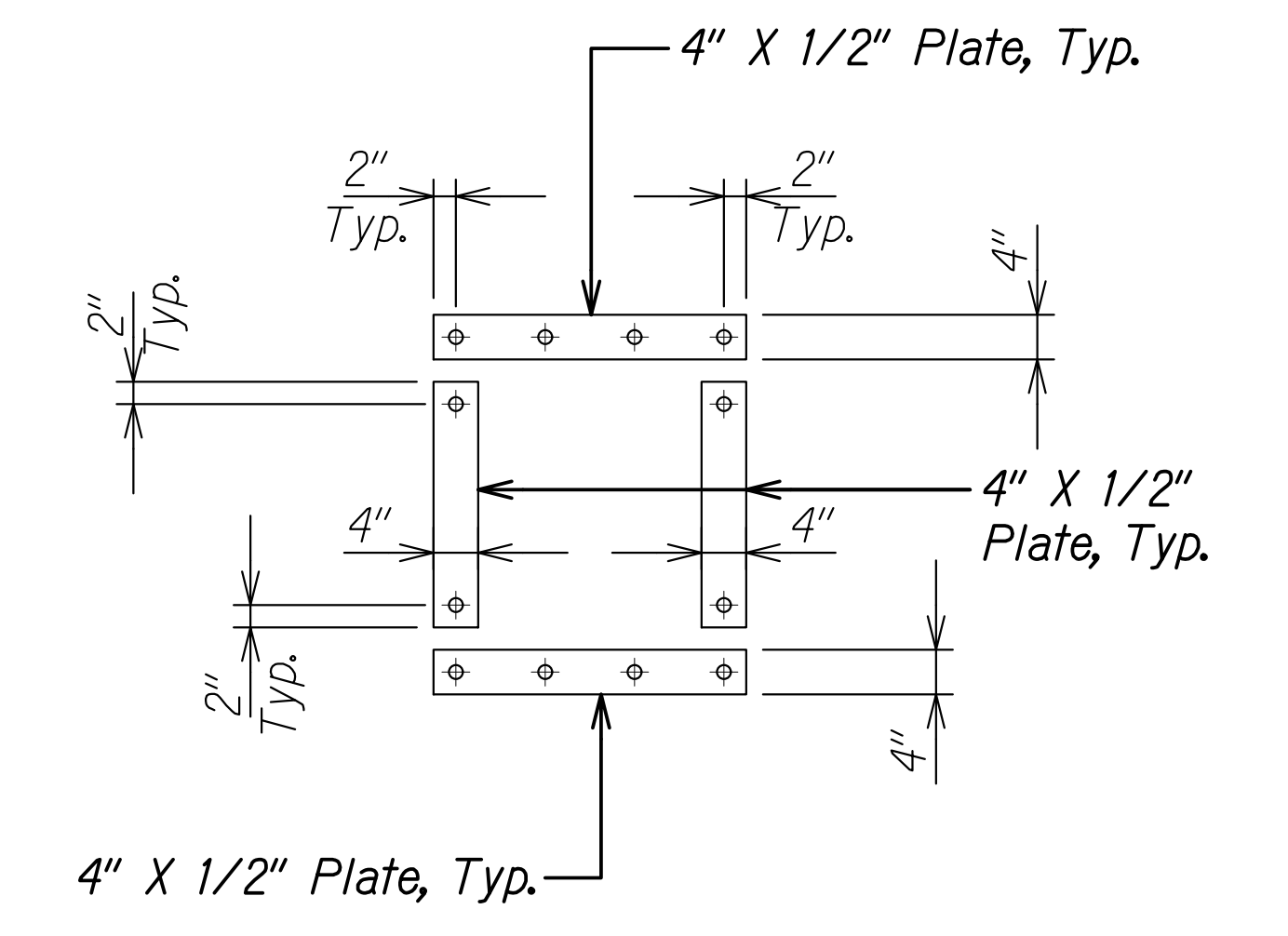
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	160	175



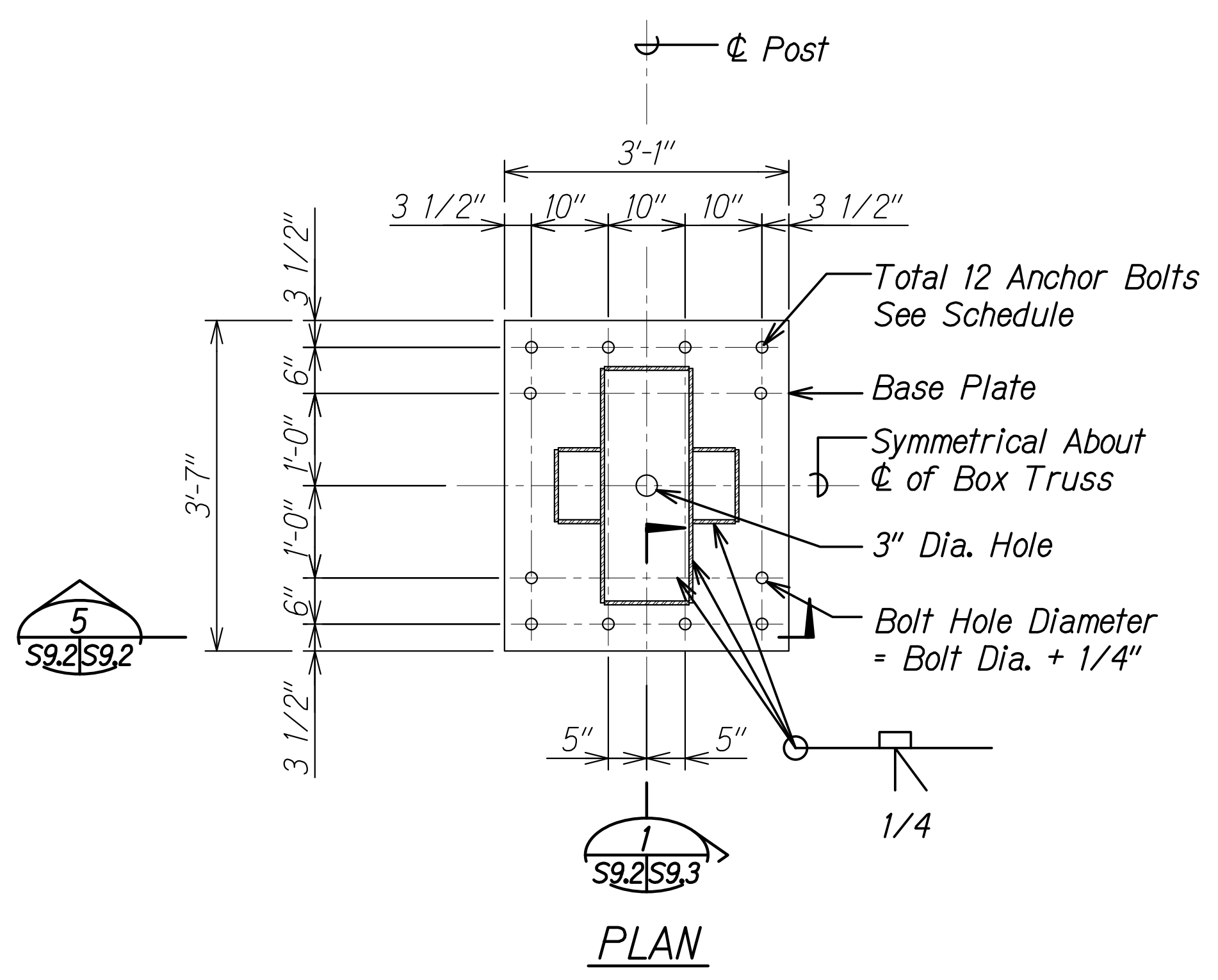
TYPICAL BASE PLATE DETAIL
"W"=2'-0" FOR BOX TRUSS STRUCTURE
 Not to Scale



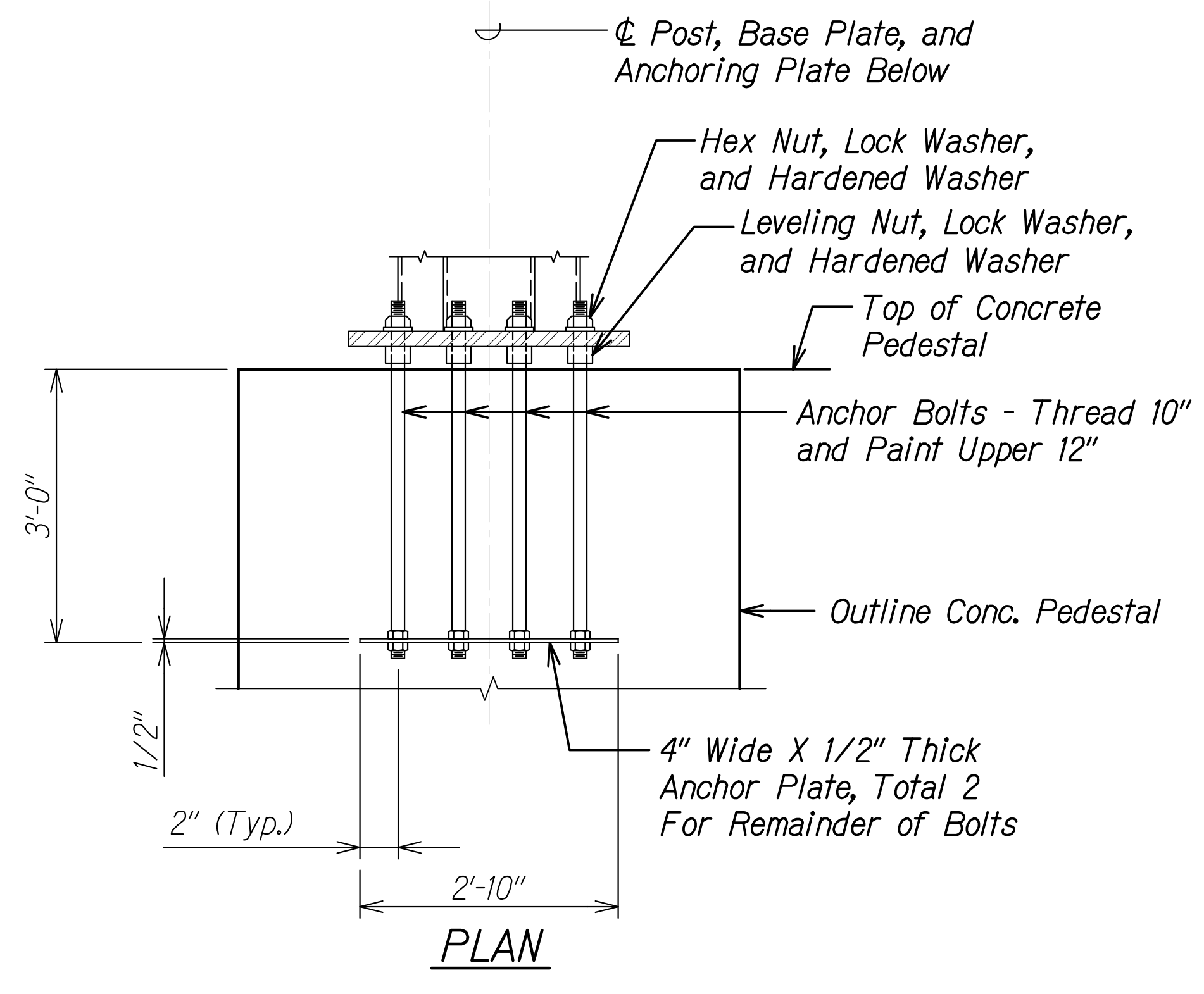
ANCHORAGE DETAIL
"W"=2'-0" FOR BOX TRUSS STRUCTURE
 Not to Scale



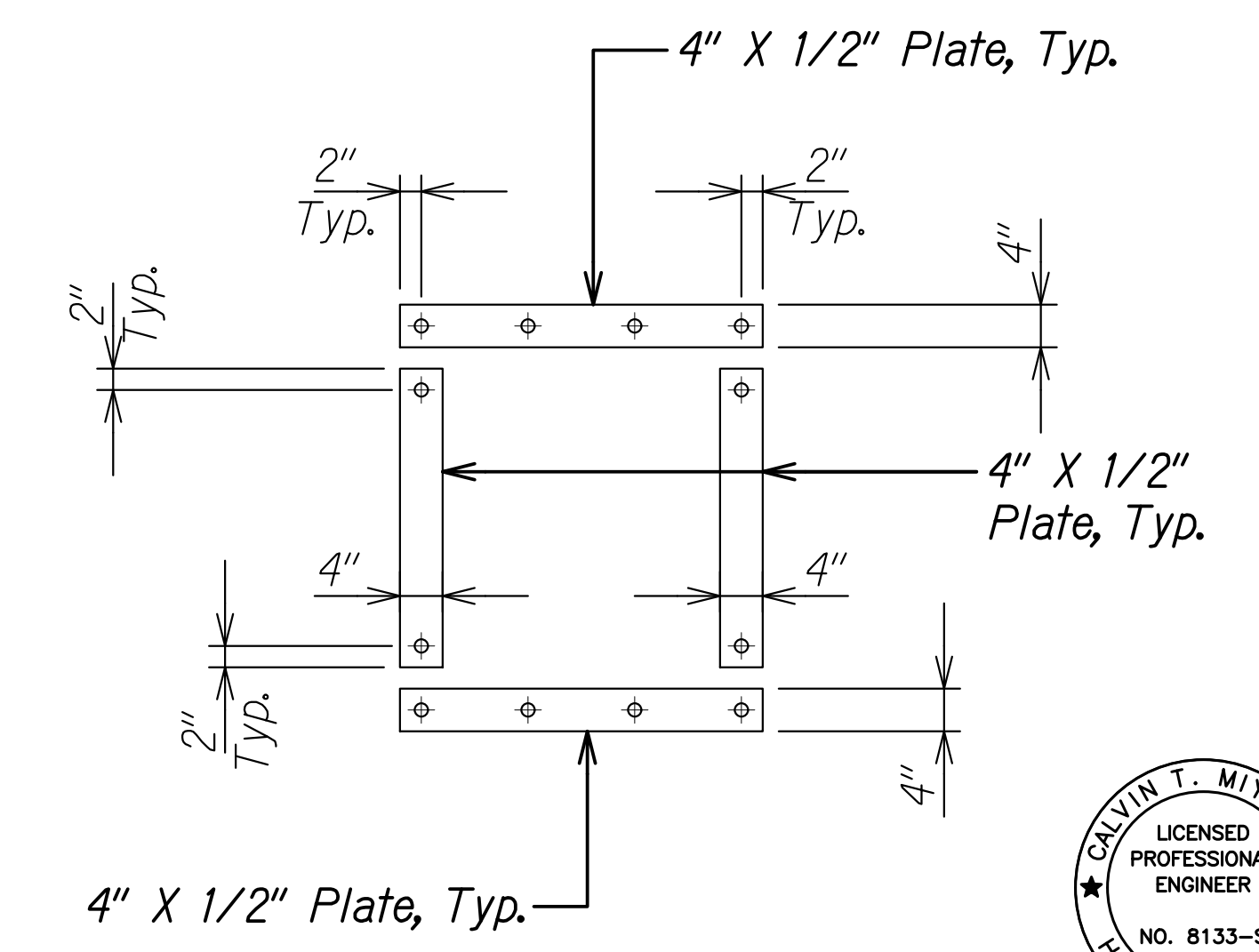
SECTION 3
 Not to Scale



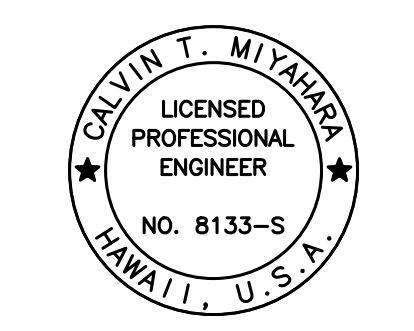
BASE PLATE DETAIL
"W"=2'-6" FOR BOX TRUSS STRUCTURE
 Not to Scale



TYPICAL ANCHORAGE DETAIL
"W"=2'-6" FOR BOX TRUSS STRUCTURE
 Not to Scale



SECTION 6
 Not to Scale



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 Signature: Calvin Miyahara
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TYPICAL BASE PLATE AND ANCHOR BOLT DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

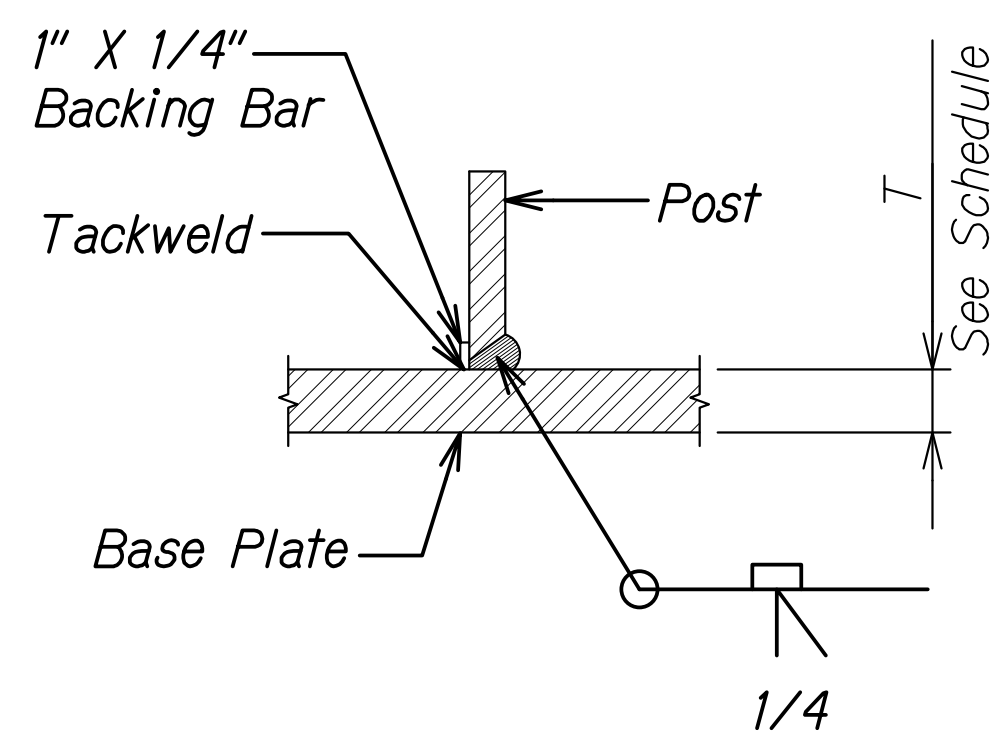
Scale: As Noted Date: Sept. 2022

SHEET No. S9.2 OF 10 SHEETS

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

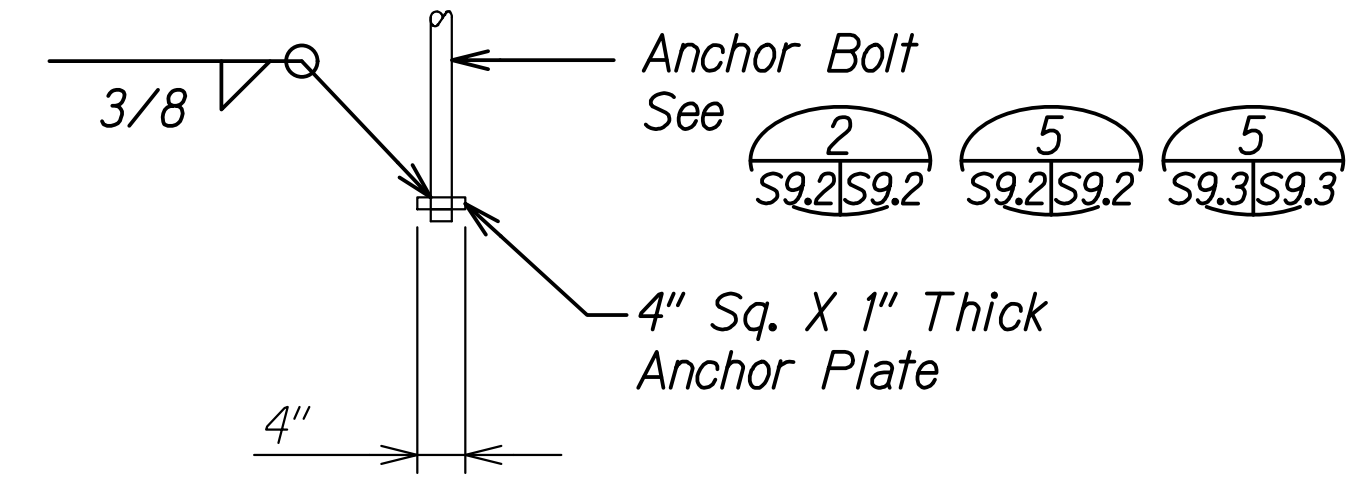
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	161	175



TYPICAL POST TO BASE PLATE WELDING DETAIL
 Not to Scale

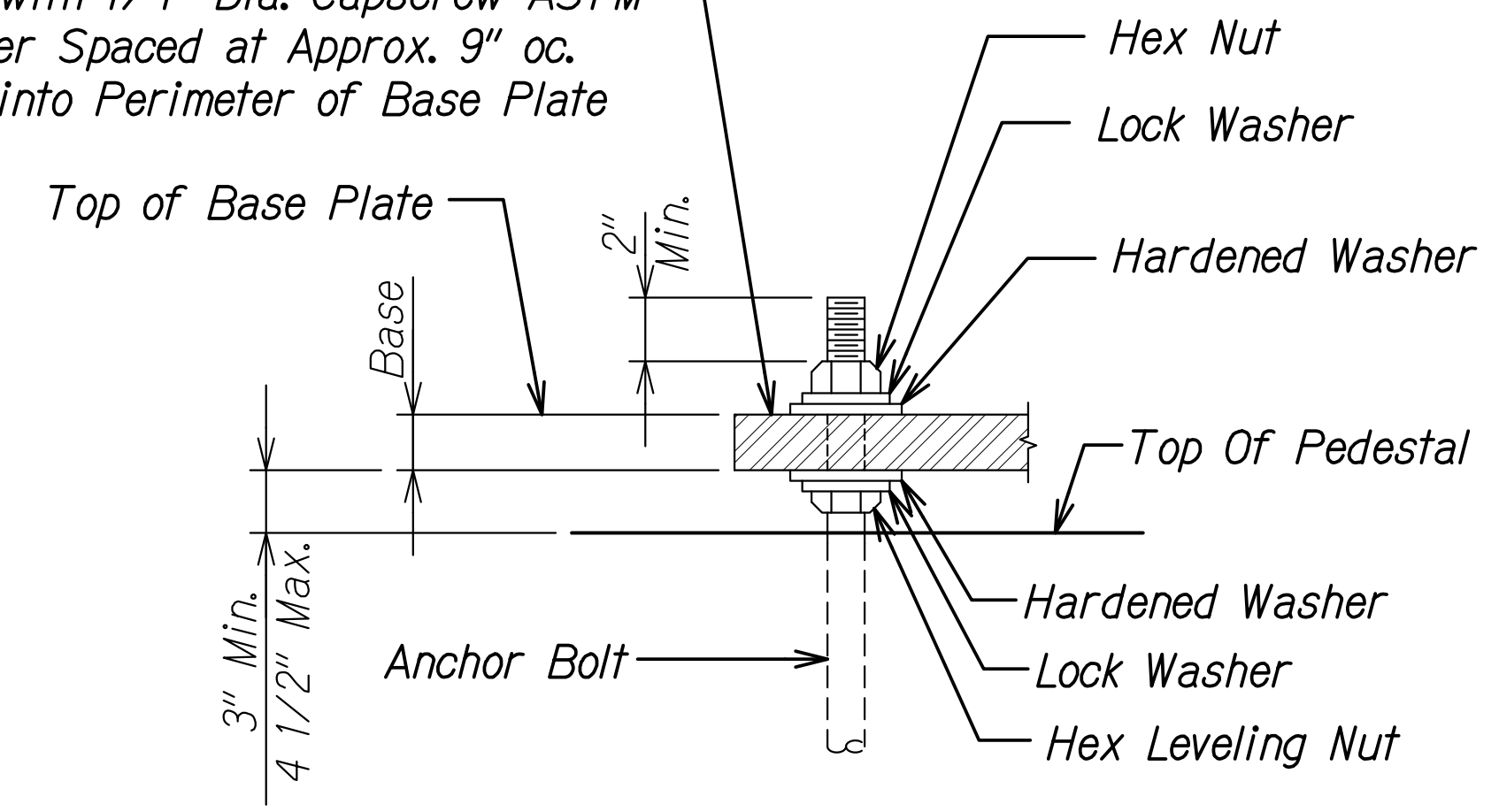
1
 S9.2 | S9.3
 S9.3



SINGLE SIDE ANCHOR BOLT
 Not to Scale

2
 S9.2 | S9.2 | S9.3 | S9.3
 S9.3

Provide Welded Galvanized Cloth 1/16" X 7/16" Square. Wrap Around Base Plate Perimeter with 3" Min. Lap. Fasten with 1/4" Dia. Capscrew ASTM F593 with SS Washer Spaced at Approx. 9" oc. Drilled and Tapped into Perimeter of Base Plate

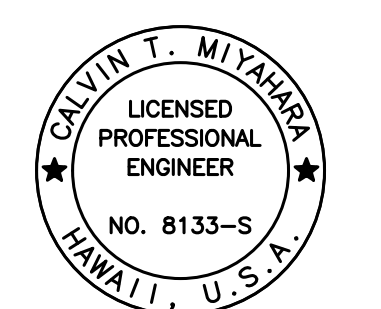


TYPICAL BASE PLATE ANCHOR BOLT CONNECTION DETAIL
 Not to Scale

3
 S9.2 | S9.3
 S9.3

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

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50903 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:47 PM



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

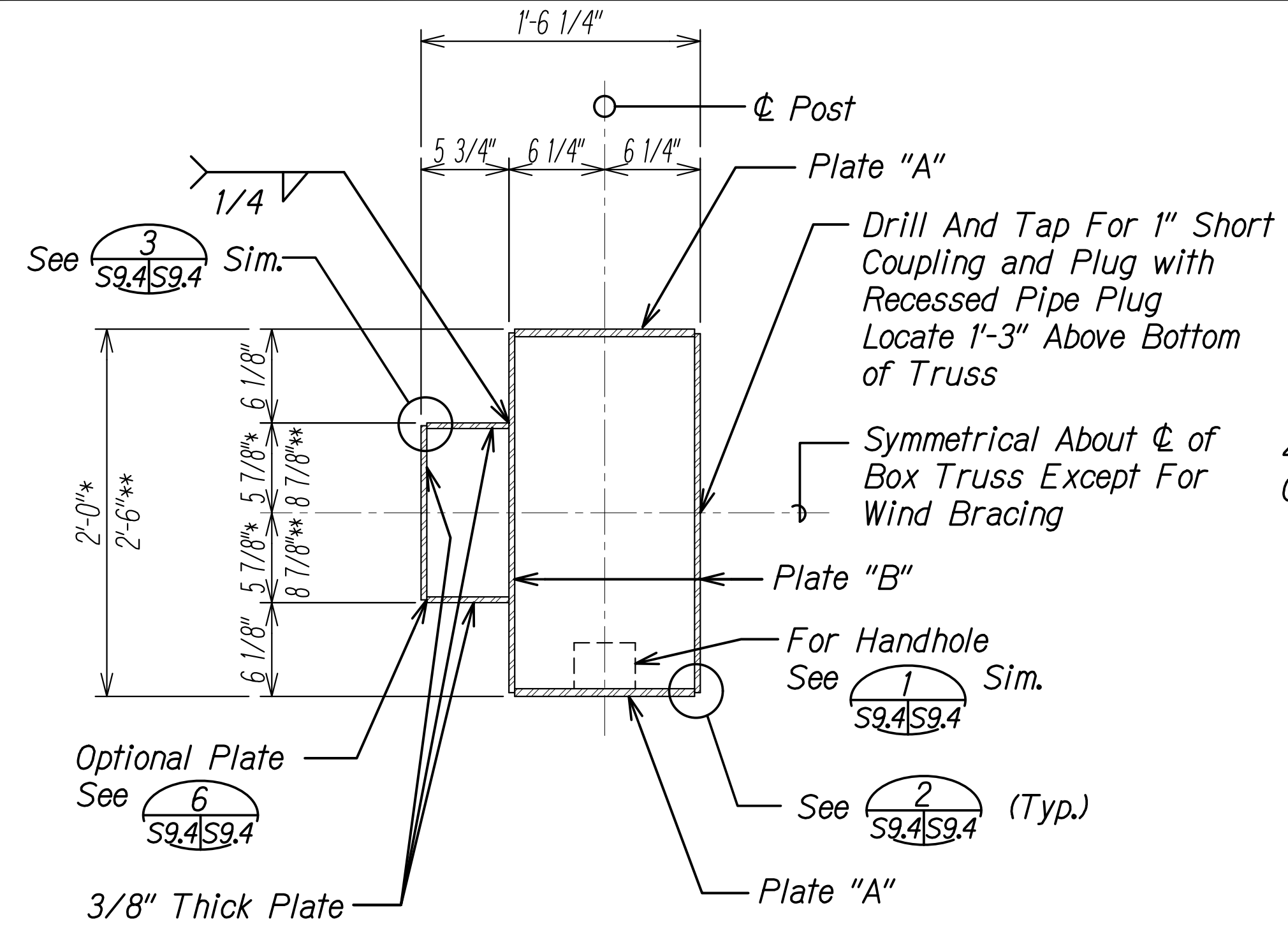
TYPICAL BASE PLATE AND ANCHOR BOLT DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

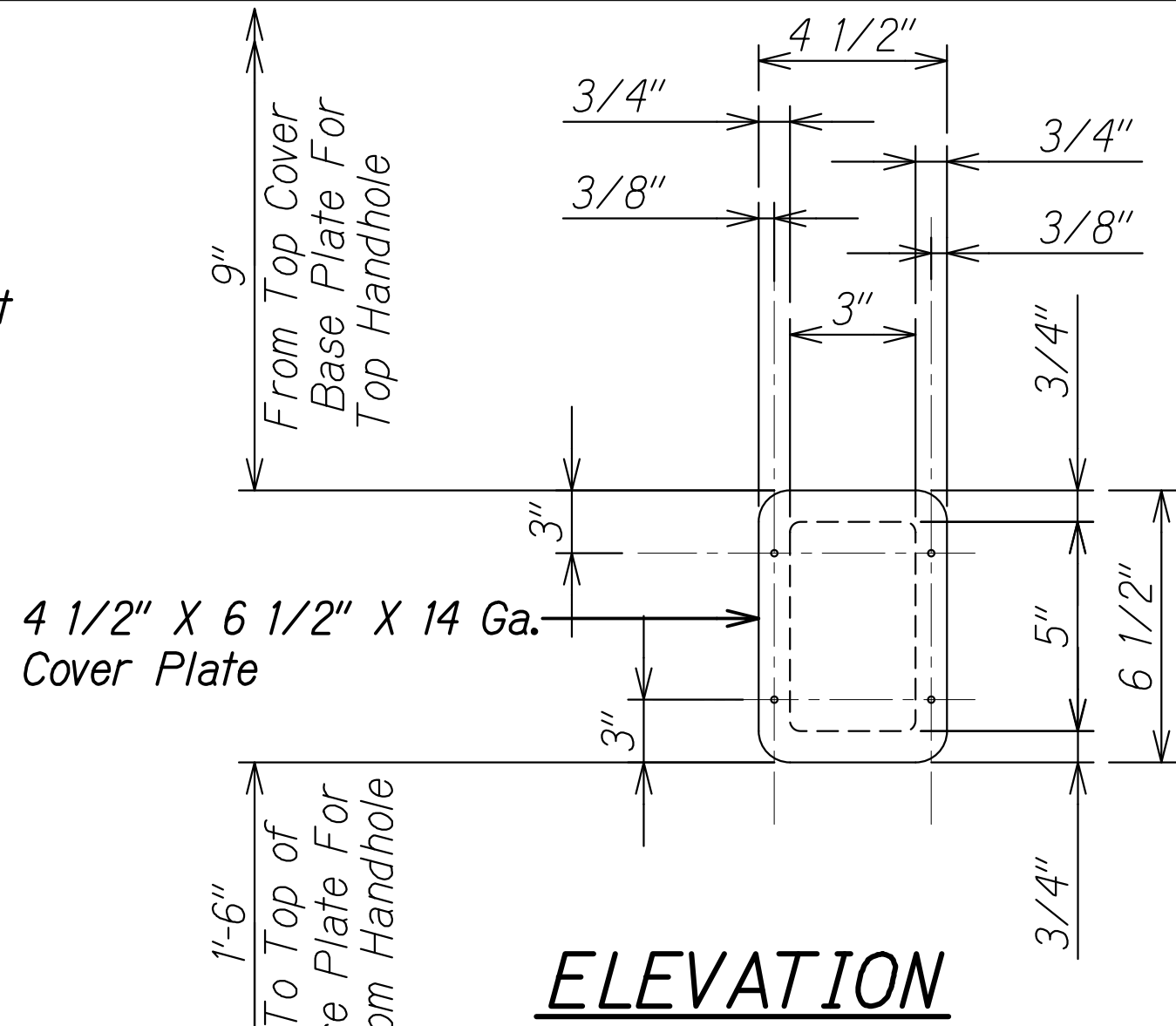
Scale: As Noted Date: Sept. 2022

SHEET No. S9.3 OF 10 SHEETS

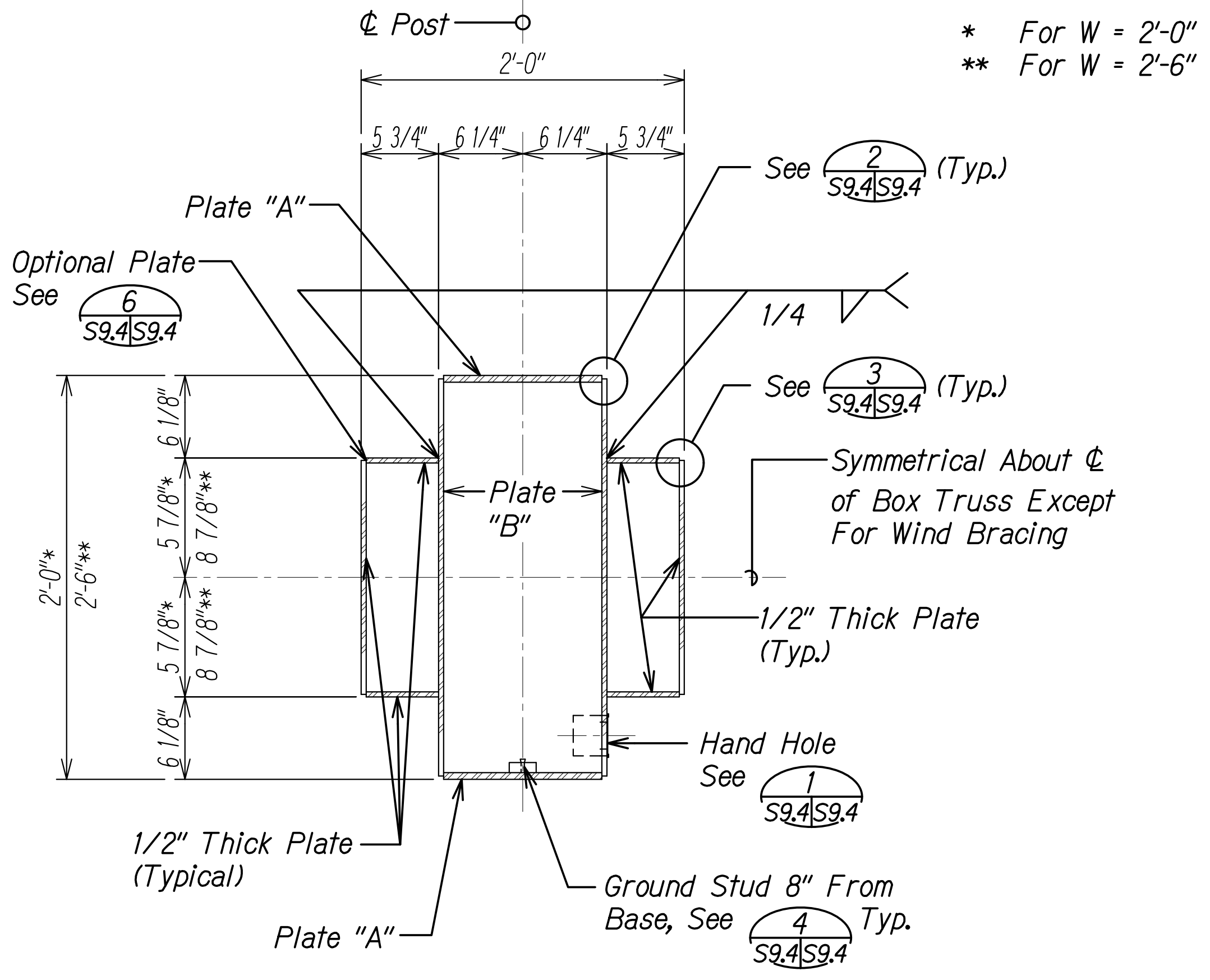
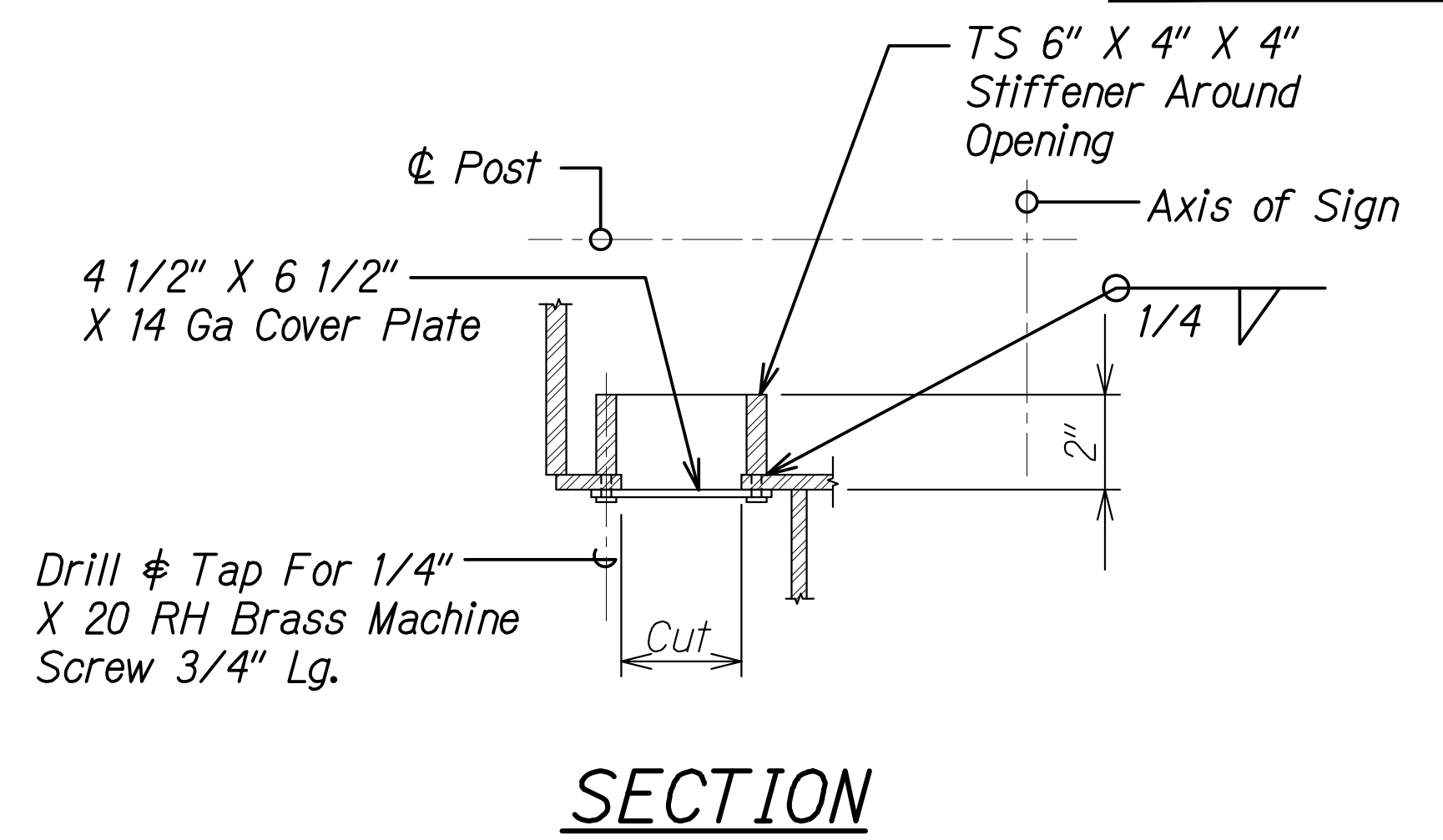
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	162	175



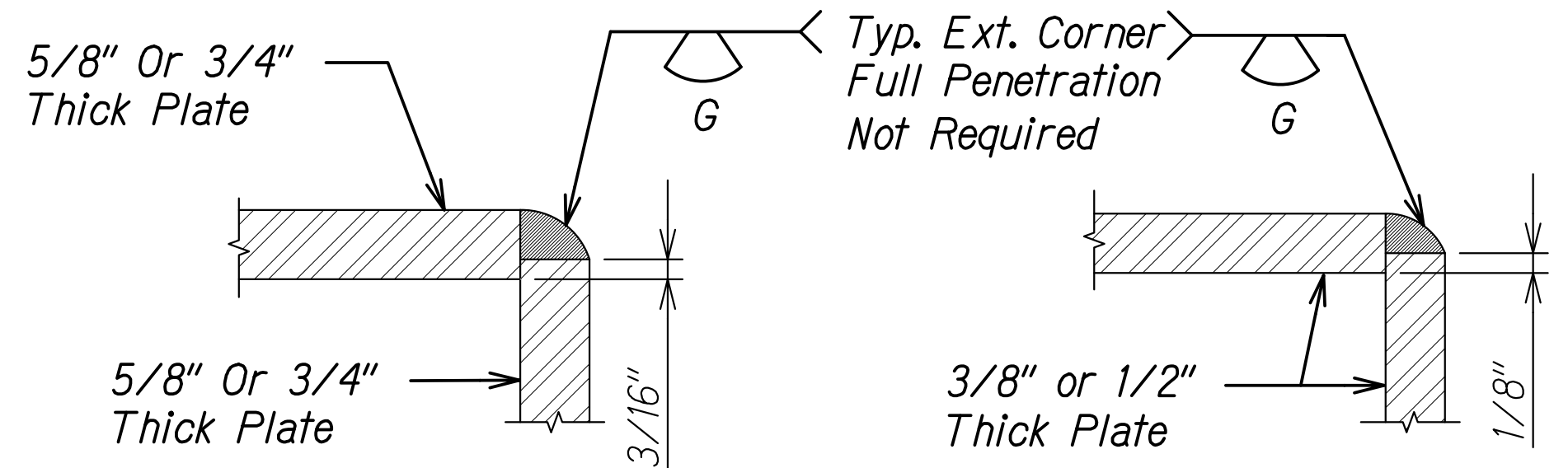
TYPICAL COLUMN SECTION ABOVE BEARING SUPPORT
Not to Scale



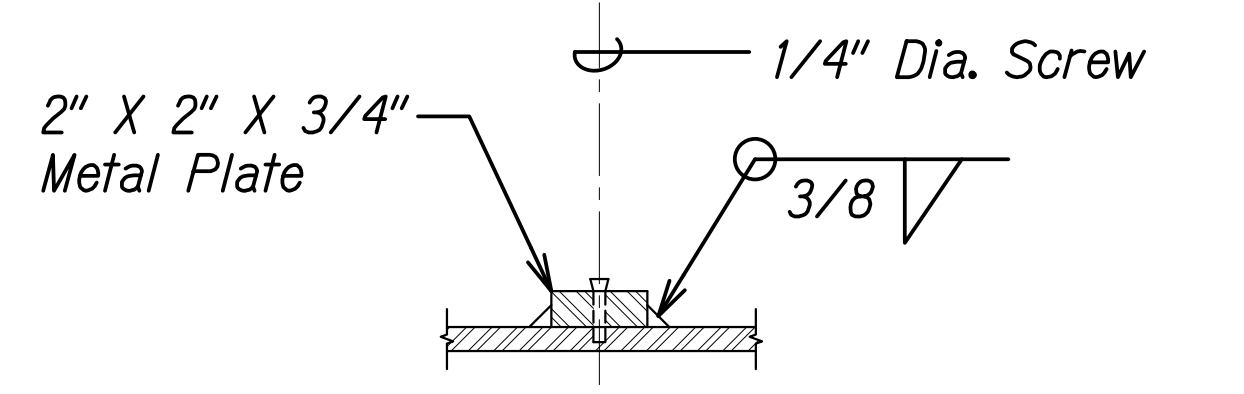
TYPICAL HANDHOLE AND COVER PLATE DETAIL
Not to Scale



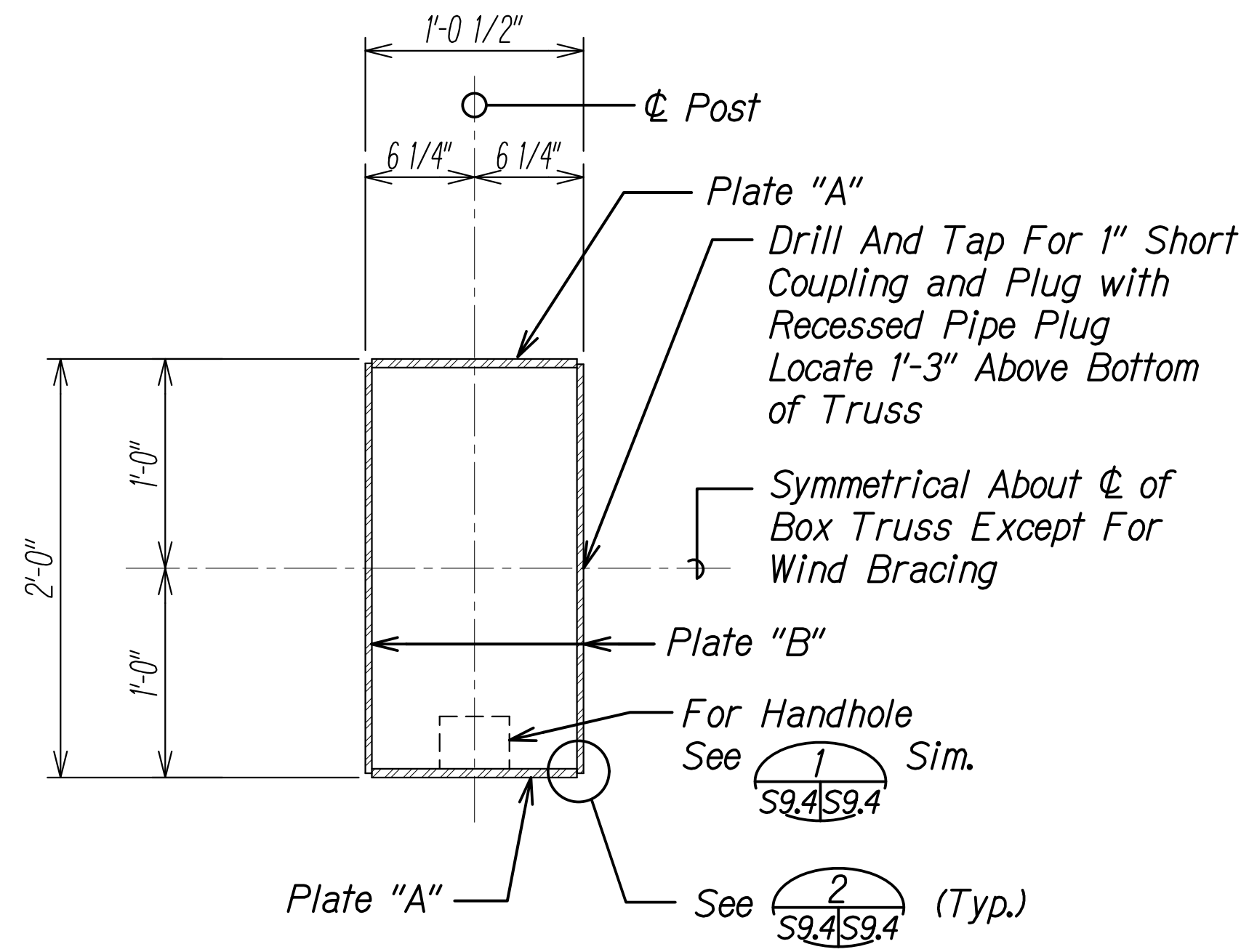
TYPICAL COLUMN SECTION BELOW BEARING SUPPORT
Not to Scale



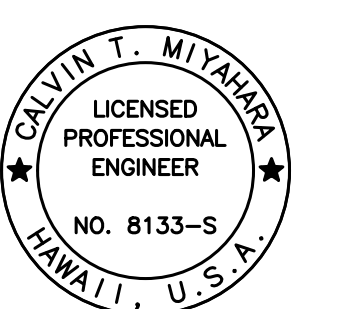
CONN. DETAIL 2 and **CONN. DETAIL 3**
Not to Scale



TYPICAL GROUND STUD DETAIL
Not to Scale



DOUBLE CANTILIVER COLUMN SECTION ABOVE BEARING SUPPORT
Not to Scale



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL COLUMN SECTIONS AND DETAILS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

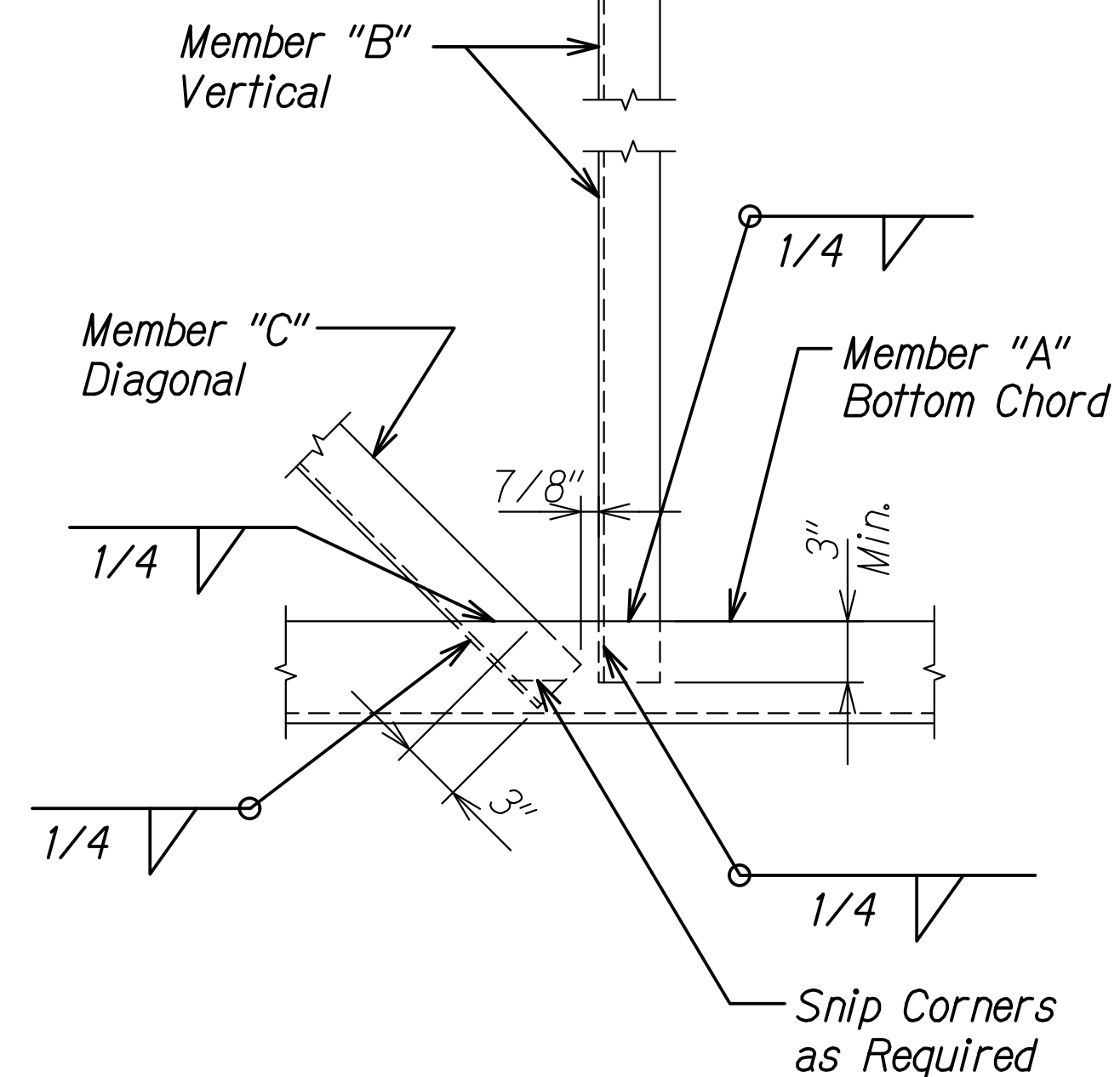
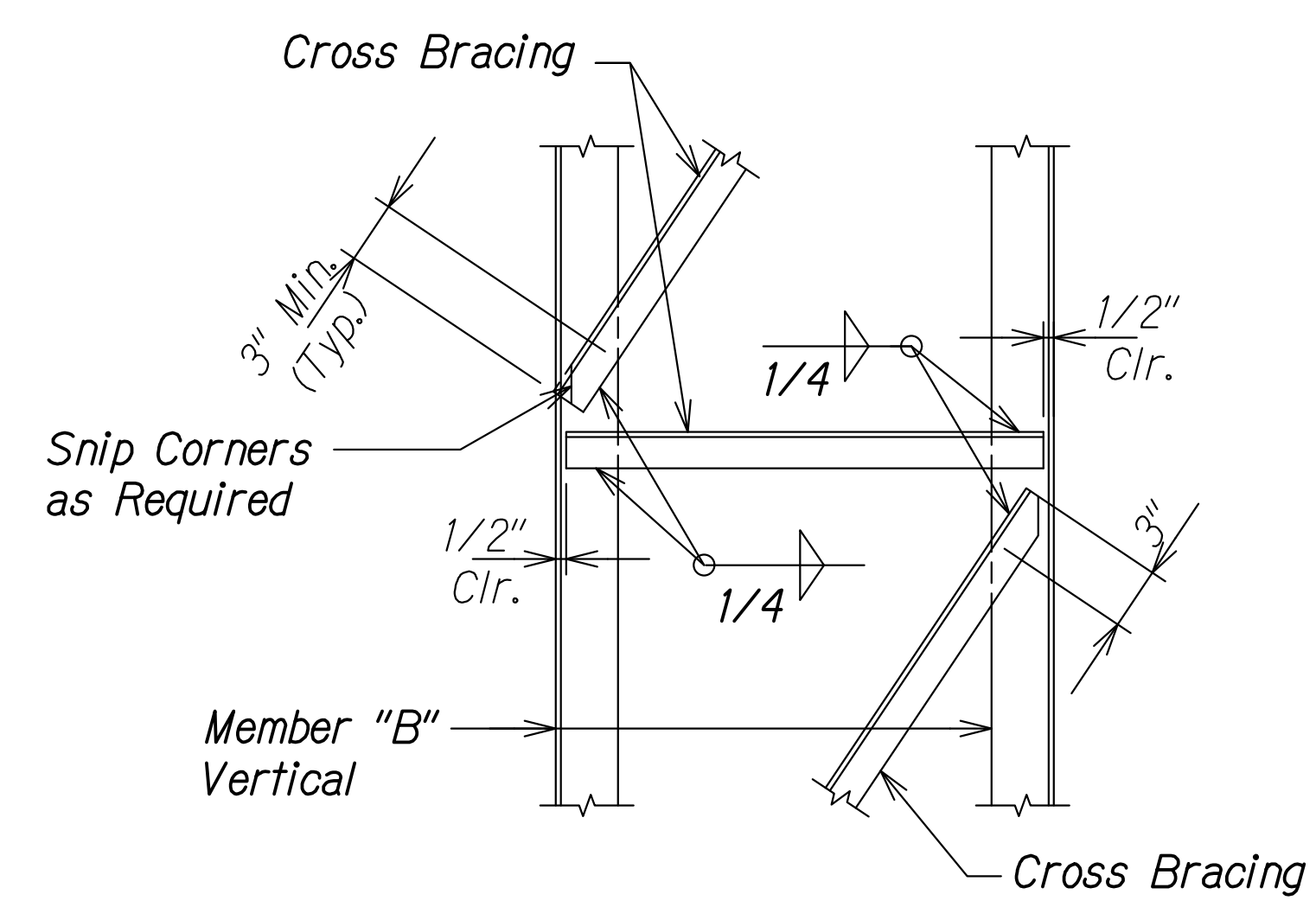
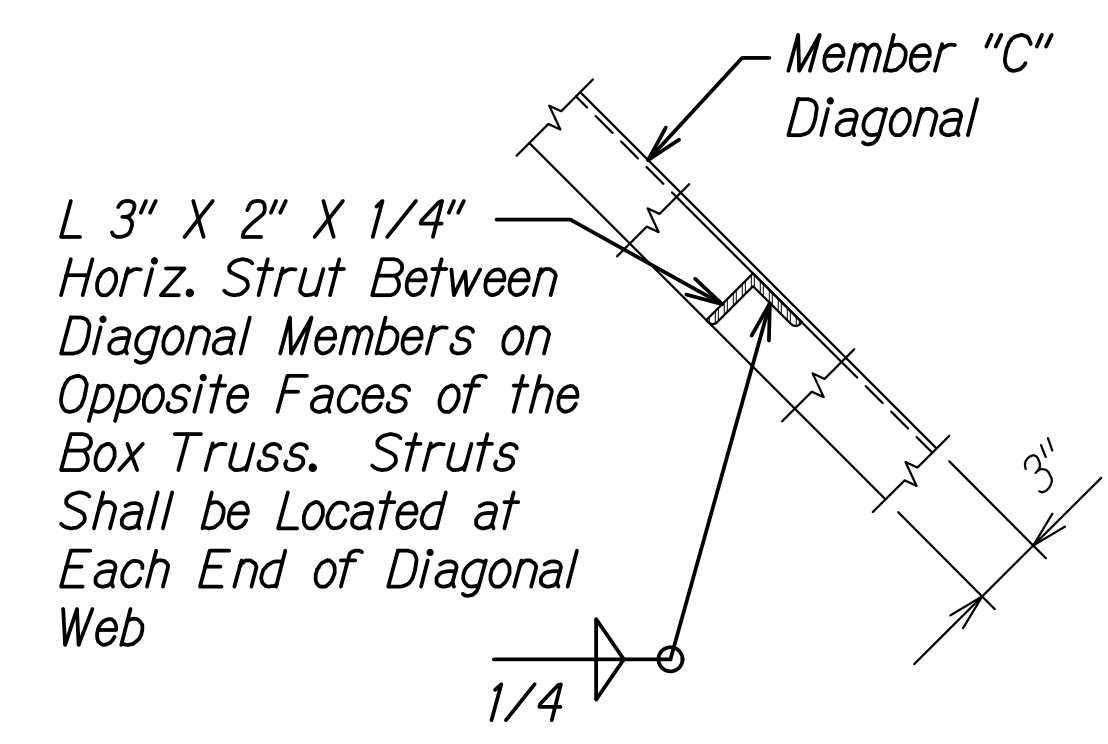
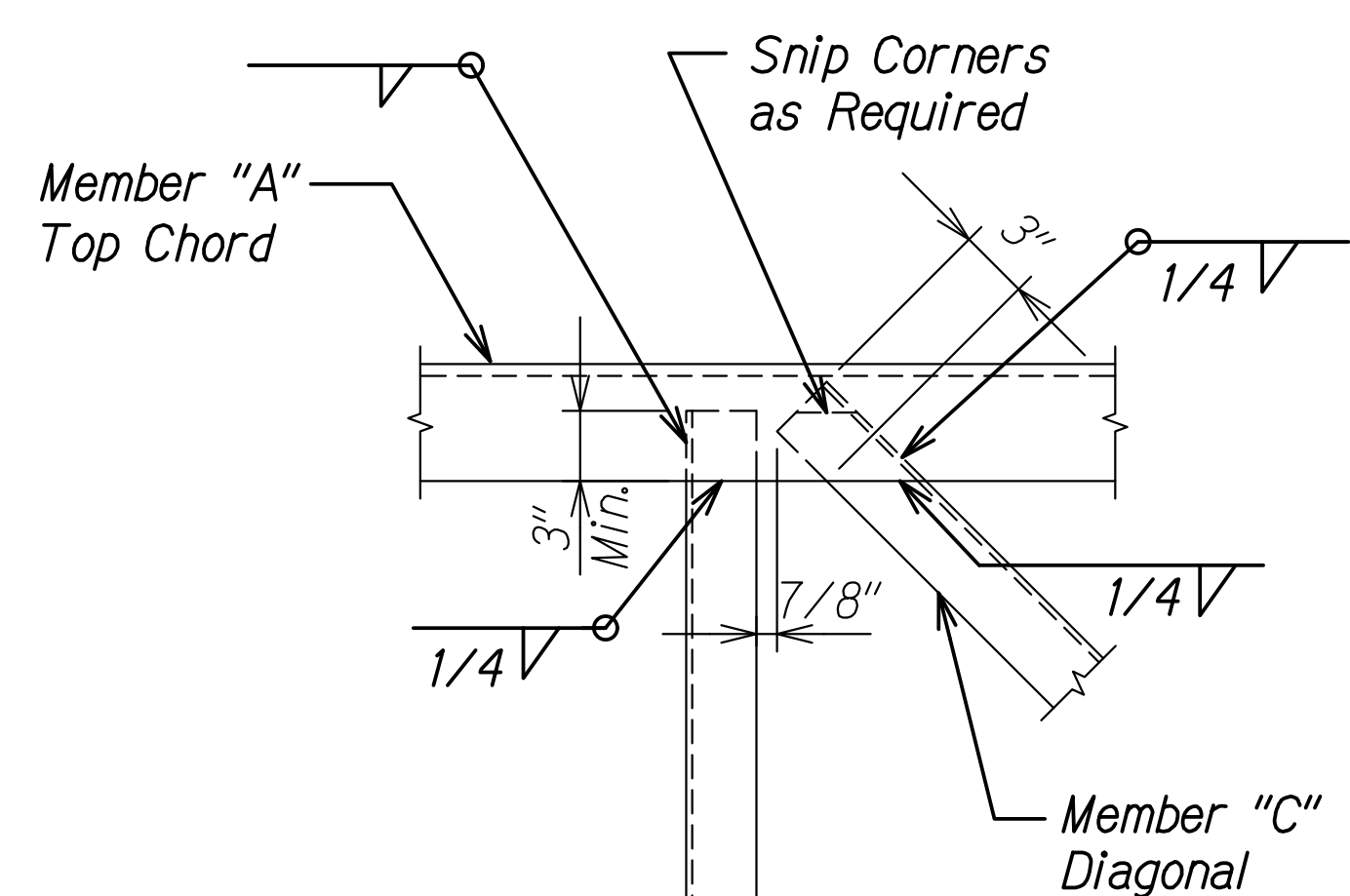
Scale: As Noted Date: Sept. 2022

SHEET No. S9.4 OF 10 SHEETS

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

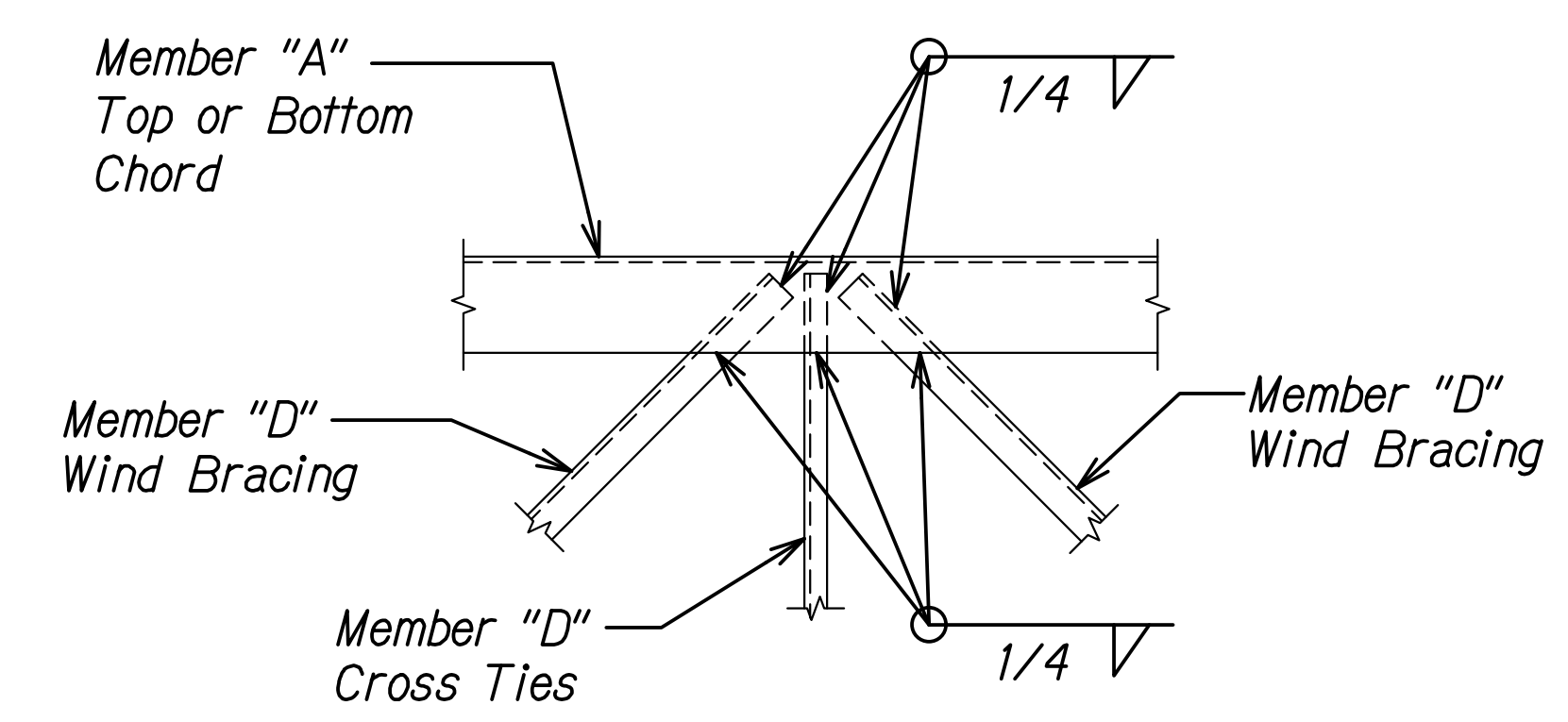
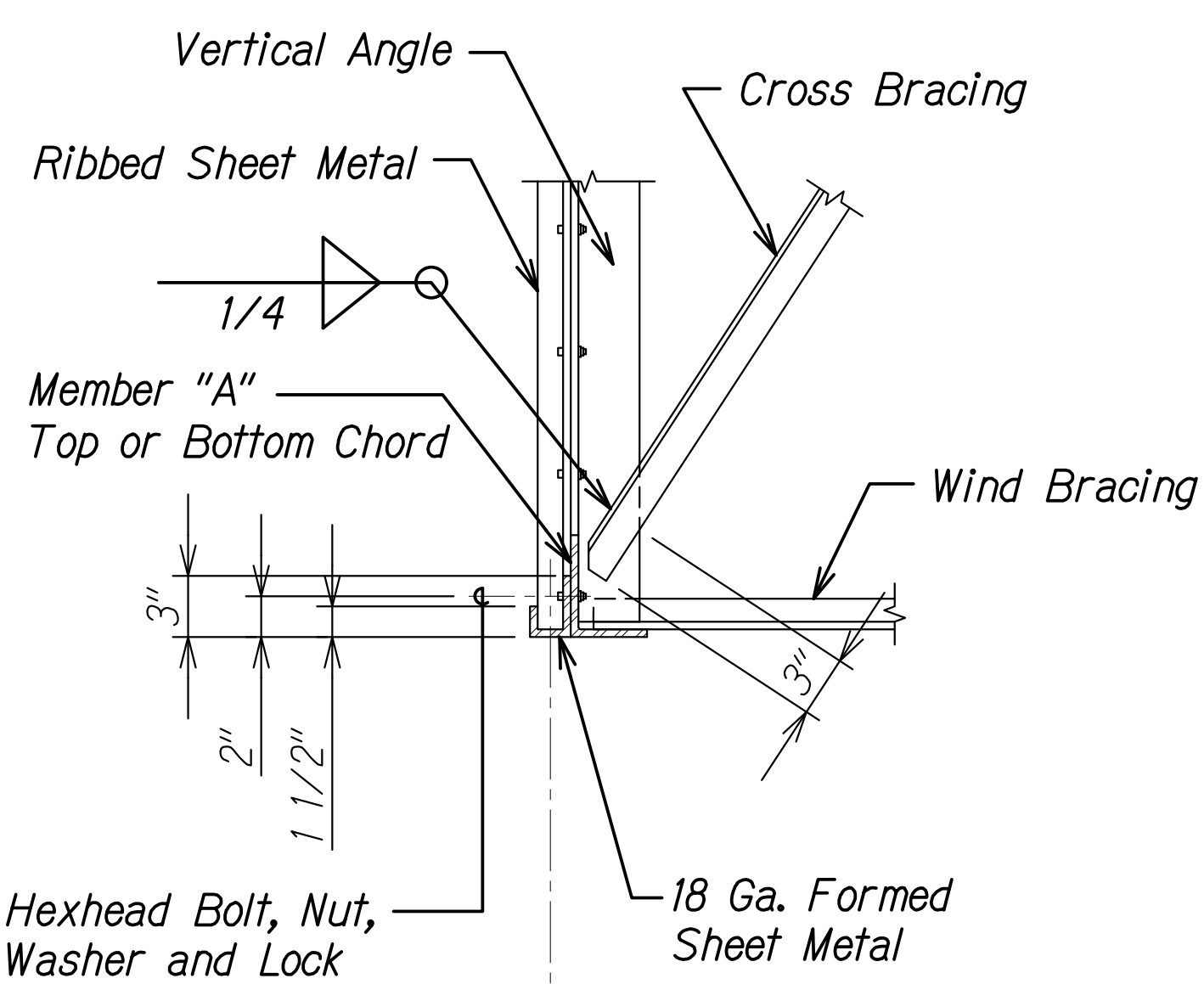
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	163	175



TYP. CONN. DETAIL 1
Not to Scale S9.5 | S9.5

TYP. DETAIL 2
Not to Scale S9.5 | S9.5



TYPICAL SECTION A
Not to Scale S9.5 | S9.5

1/4" Hexhead Bolt, Nut, Flat Washer and Lock Washer @ 6" oc
Provide 1/2" Dia. Hole @ 6" oc, at Bottom Chord Only

NOTE:
At top chord similar except as noted.

TYPICAL DIAGONAL CROSS BRACING CONNECTION DETAIL 3
Not to Scale S9.5 | S9.5

TYPICAL TOP AND BOTTOM WIND BRACING CONNECTION DETAIL 4
Not to Scale S9.5 | S9.5

ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\00_0F PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50905 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:48 PM



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

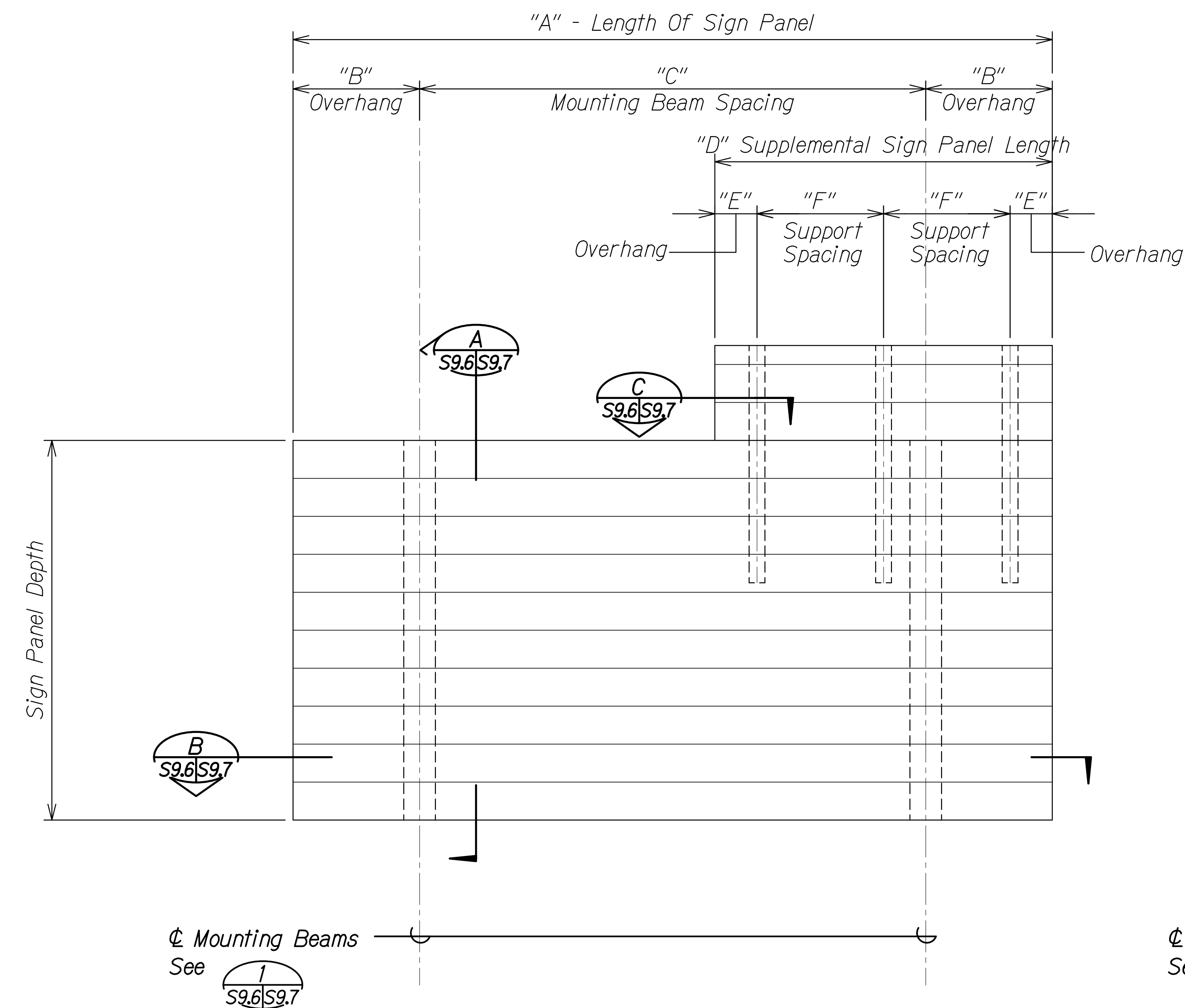
TYPICAL CONNECTION DETAILS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

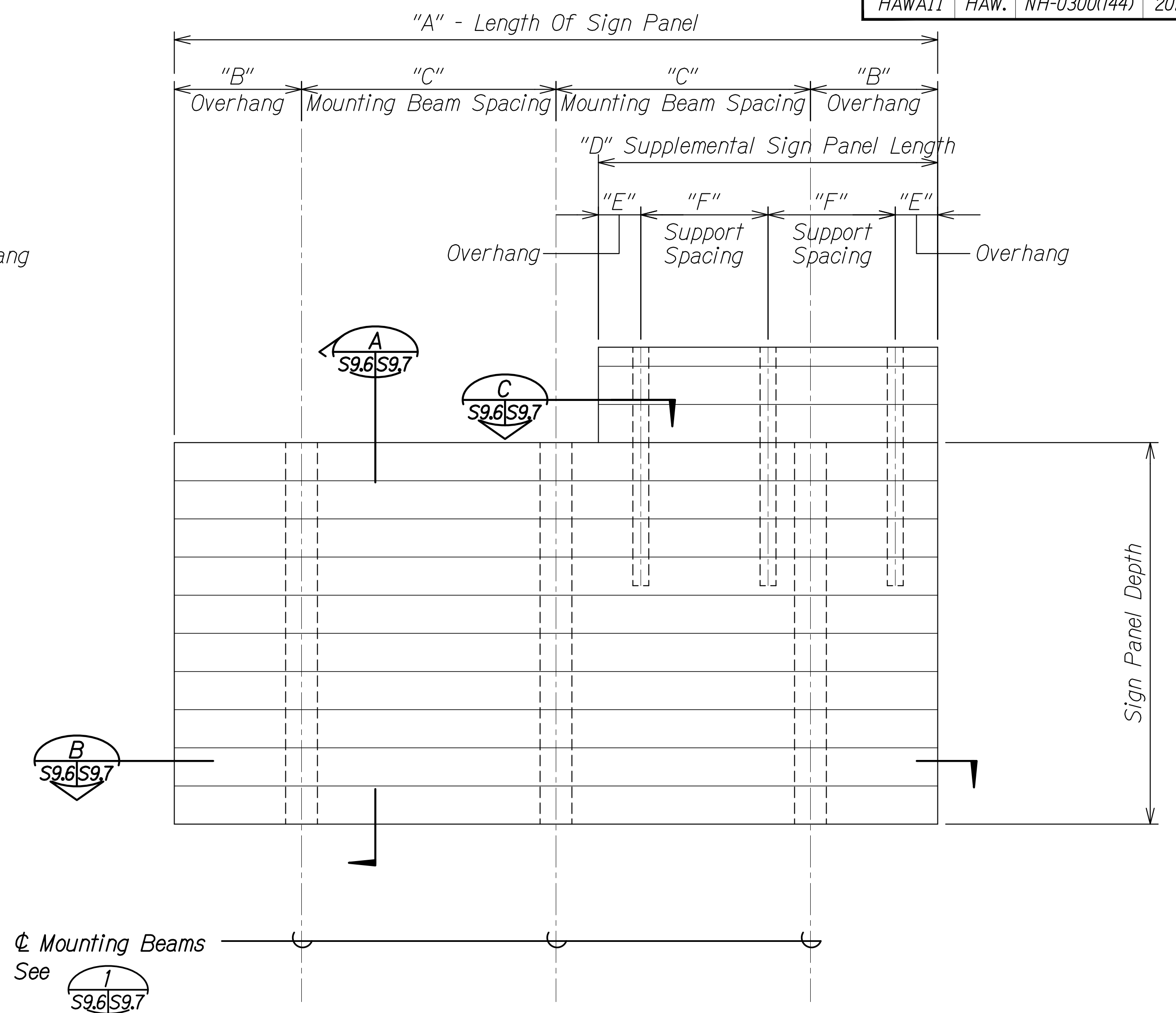
Scale: As Noted Date: Sept. 2022

SHEET No. S9.5 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	164	175



SIGN PANEL LENGTH 5'-0" TO 14'-0"



SIGN PANEL LENGTH 15'-0" TO 24'-0"

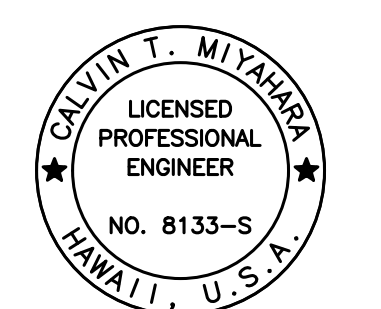
TYPICAL SIGN PANEL ELEVATION A
Not to Scale S9.6/S9.6

NOTES:

- For sign panel length see contract drawings. All signs longer than 24'-0" shall be fabricated and mounted as adjoining single panels.
- See schedule on sheet S9.7 for "A", "B", and "D" dimensions.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50906 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:49 PM



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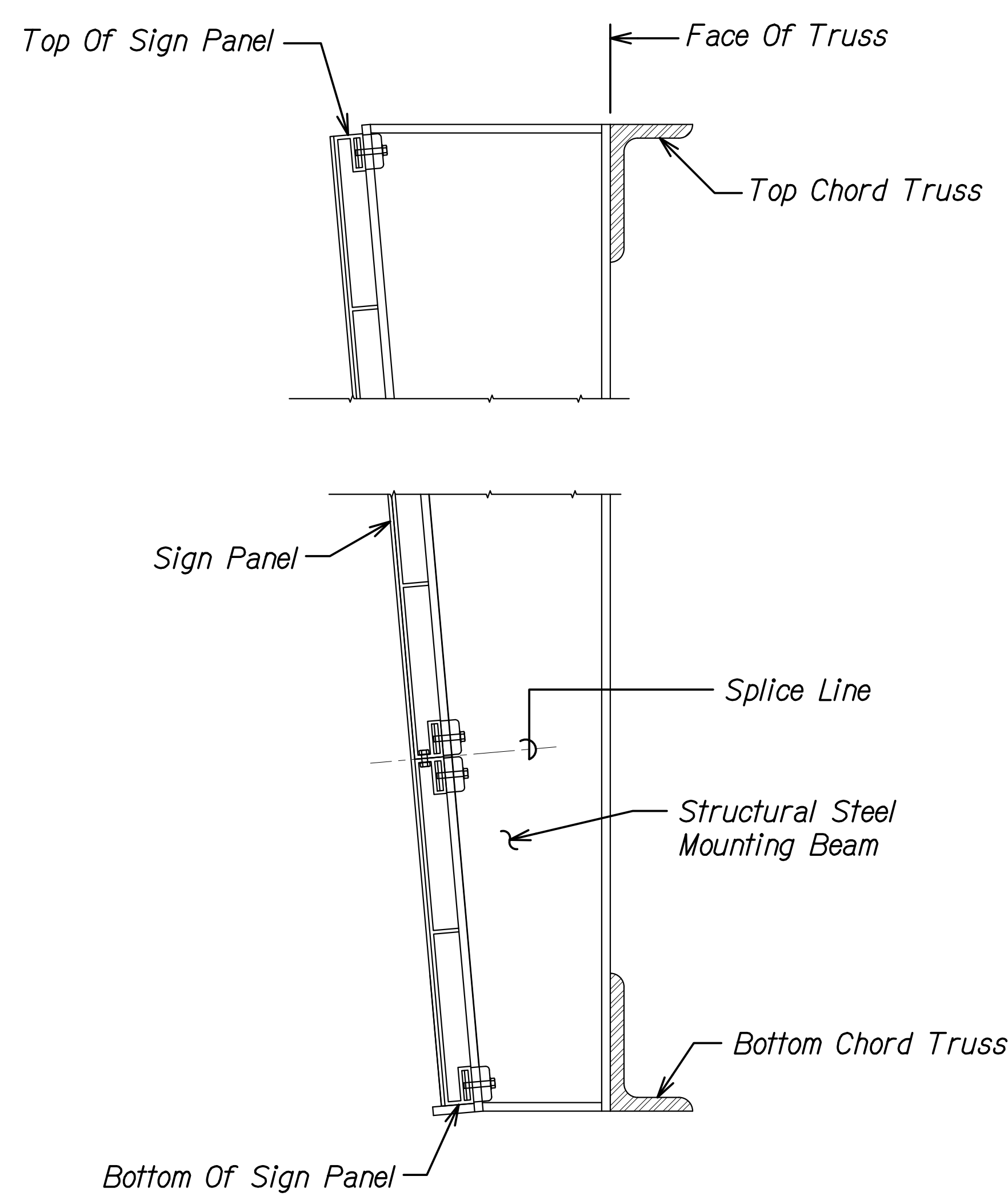
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TYPICAL SIGN PANEL ELEVATION

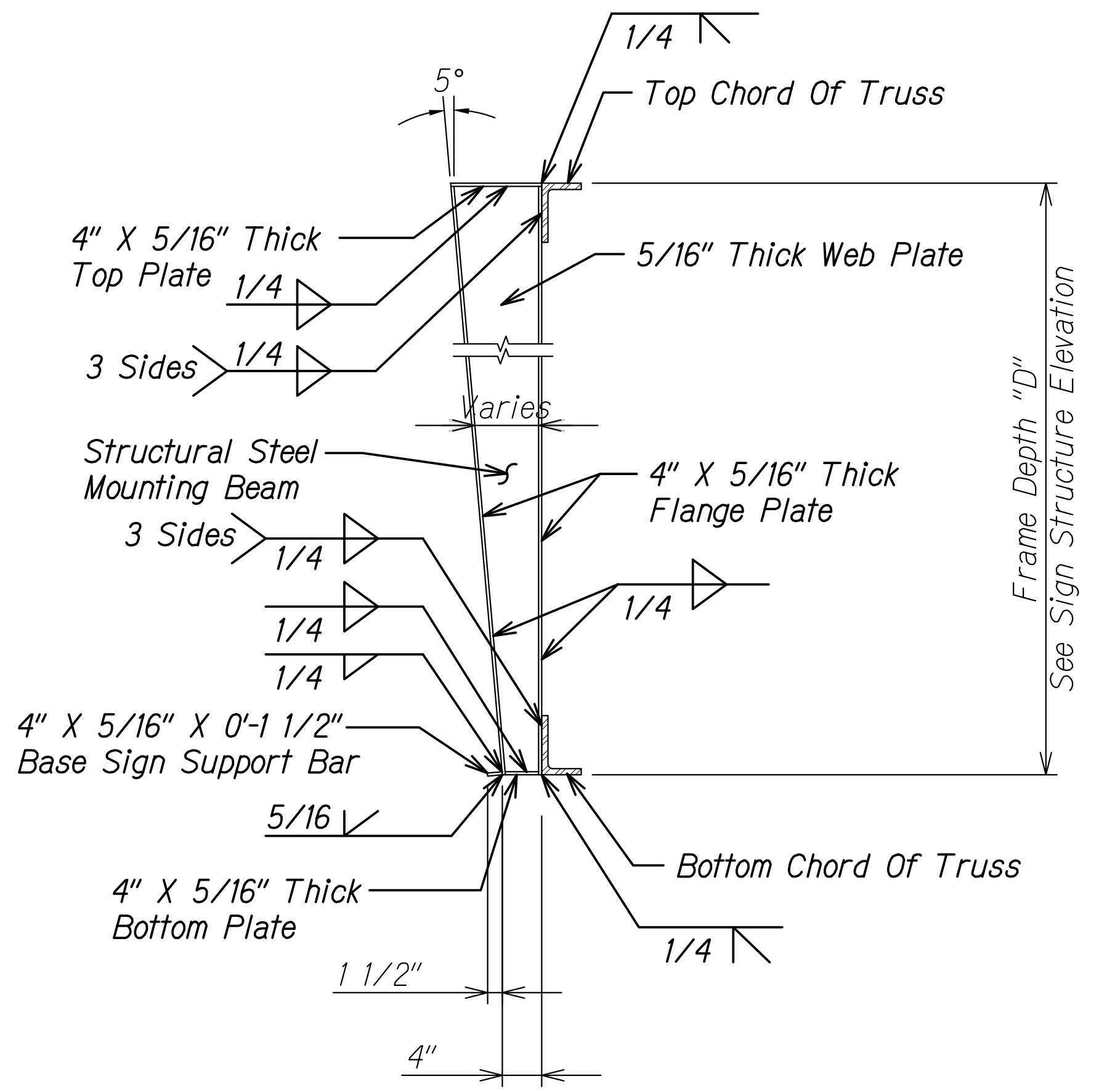
INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. **S9.6** OF 10 SHEETS

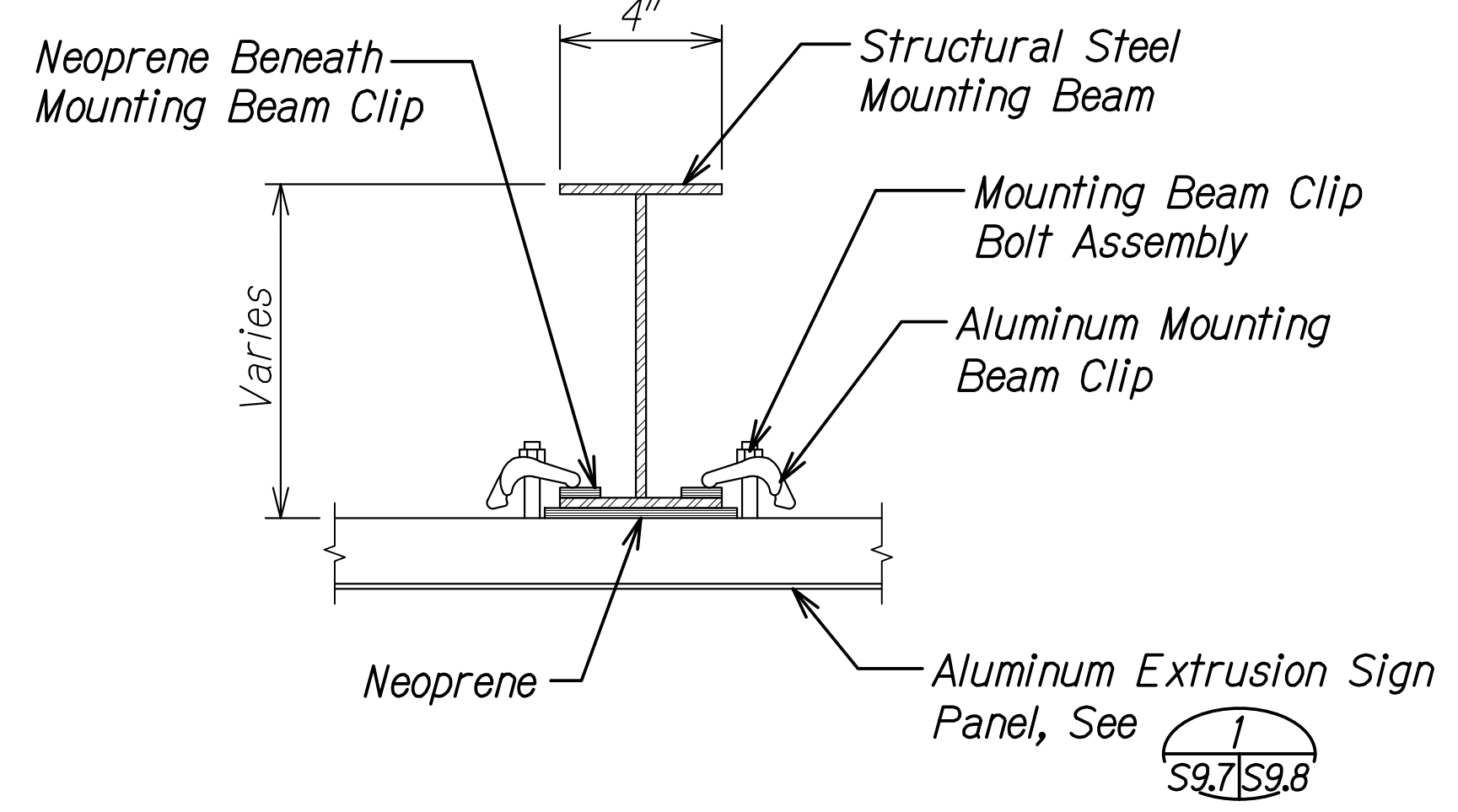


SECTION A
Not to Scale S9.6 | S9.7

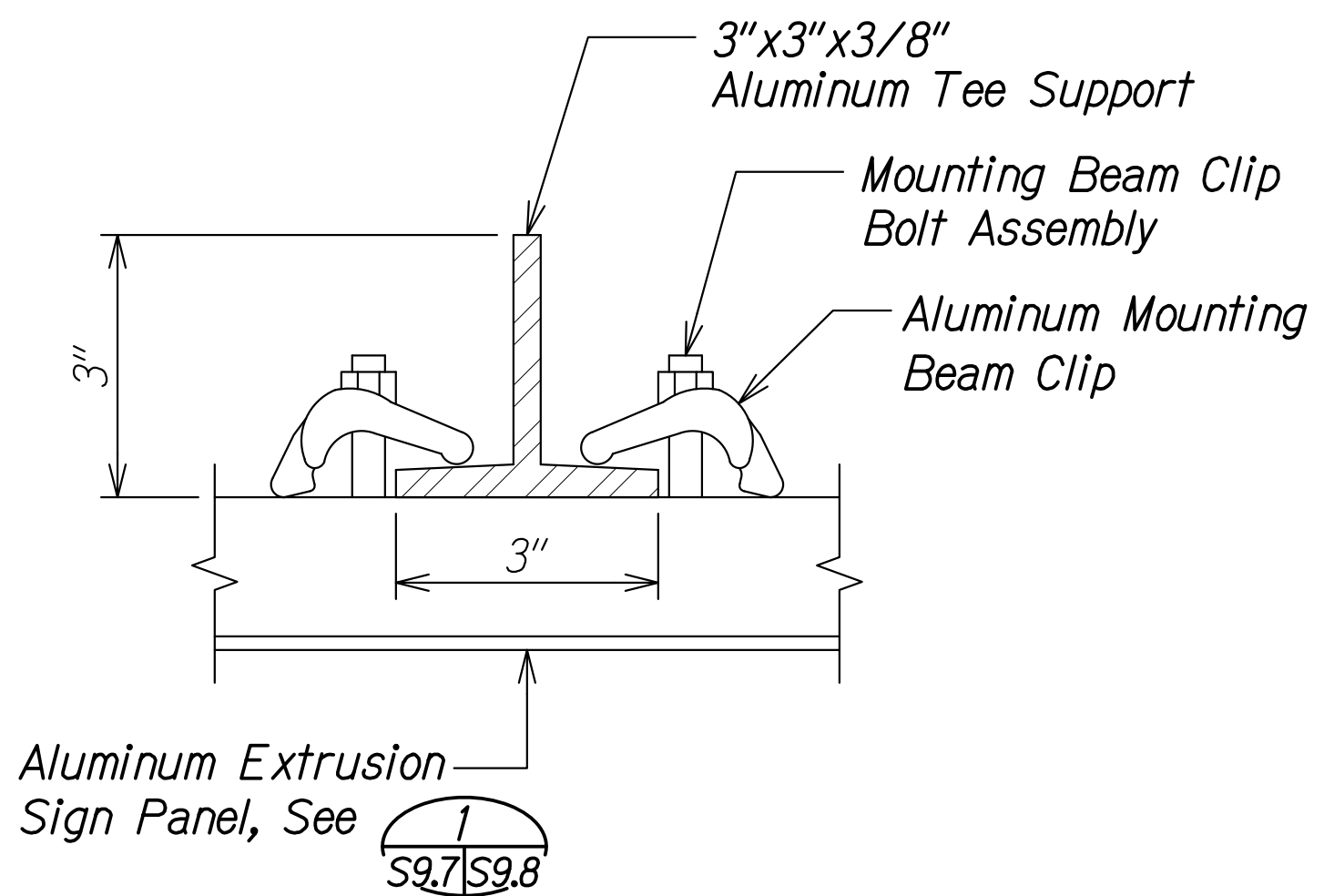


TYPICAL MOUNTING BEAM DETAIL
Not to Scale S9.6 | S9.7

Sign Panel Length "A"	Number of Mounting Beams	Overhang "B"	Mounting Beam Spacing "C"
5'-0"	2	6"	4'-0"
6'-0"	2	6"	5'-0"
7'-0"	2	12"	5'-0"
8'-0"	2	12"	6'-0"
9'-0"	2	12"	7'-0"
10'-0"	2	18"	7'-0"
11'-0"	2	18"	8'-0"
12'-0"	2	24"	8'-0"
13'-0"	2	24"	9'-0"
14'-0"	2	24"	10'-0"
15'-0"	3	6"	7'-0"
16'-0"	3	6"	7'-6"
17'-0"	3	12"	7'-6"
18'-0"	3	12"	8'-0"
19'-0"	3	12"	8'-6"
20'-0"	3	18"	8'-6"
21'-0"	3	18"	9'-0"
22'-0"	3	24"	9'-0"
23'-0"	3	24"	9'-6"
24'-0"	3	24"	10'-0"

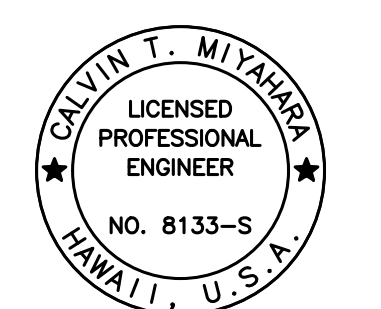


SECTION B
Scale: 3" = 1'-0" S9.6 | S9.7



SECTION C
Scale: 6" = 1'-0" S9.6 | S9.7

Supplemental Sign Panel Length "D"	Number of Supports	Overhang "E"	Support Spacing "F"
9'-0"	3	6" Min. 12" Max.	3'-6" Min. 4'-0" Max.



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Calvin T. Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL MOUNTING BEAM DETAILS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

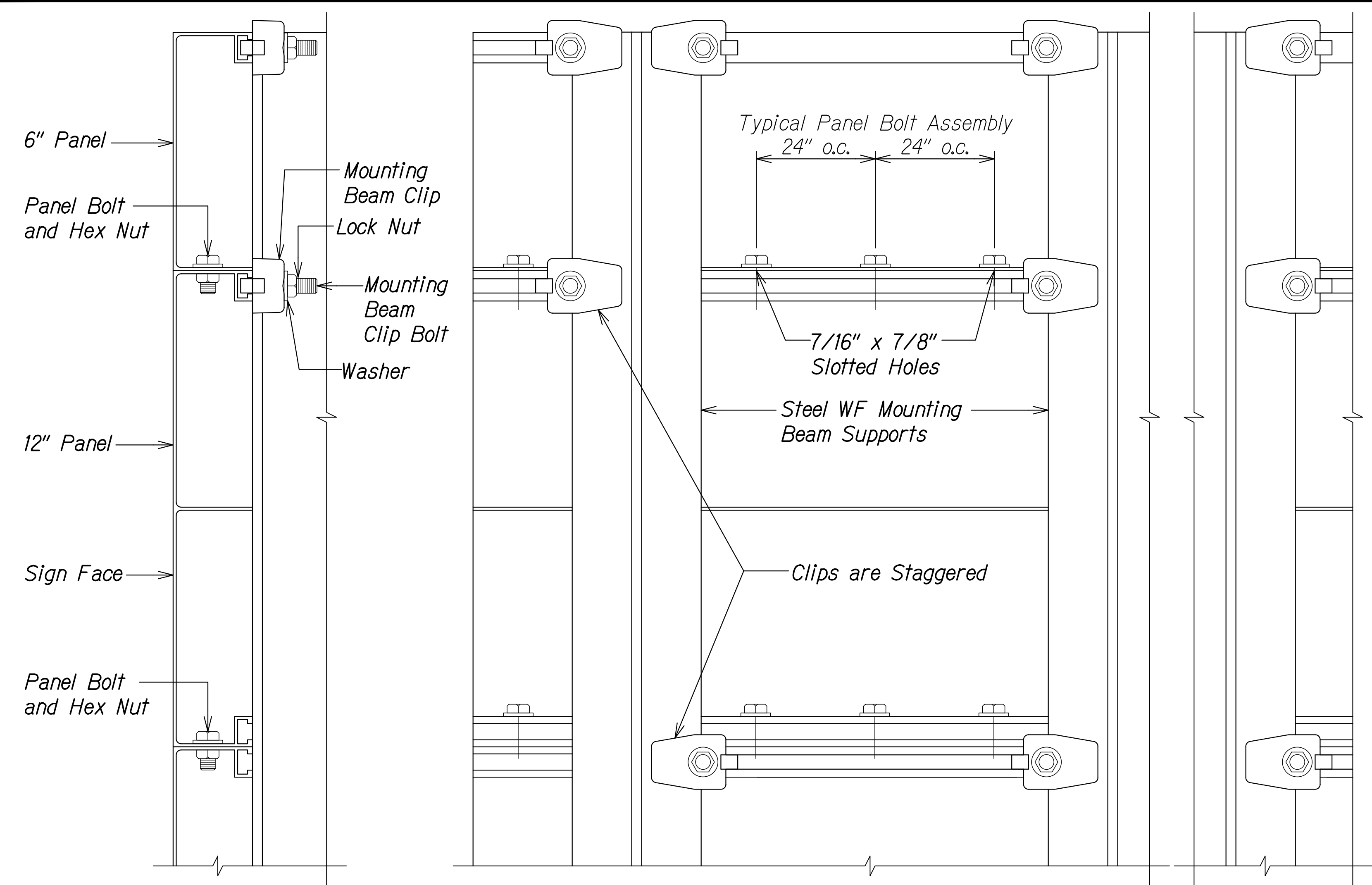
Scale: As Noted Date: Sept. 2022

SHEET No. S9.7 OF 10 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
TRACED BY: _____
DESIGNED BY: _____
QUANTITIES BY: _____
CHECKED BY: _____
No. _____

DRAWING NAME: ZA 00 ONGONGONG OF PROJECTS 16-006-DESTINATION SIGNS 01 CAD 09-30-22 BID DS11-50907 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:50 PM

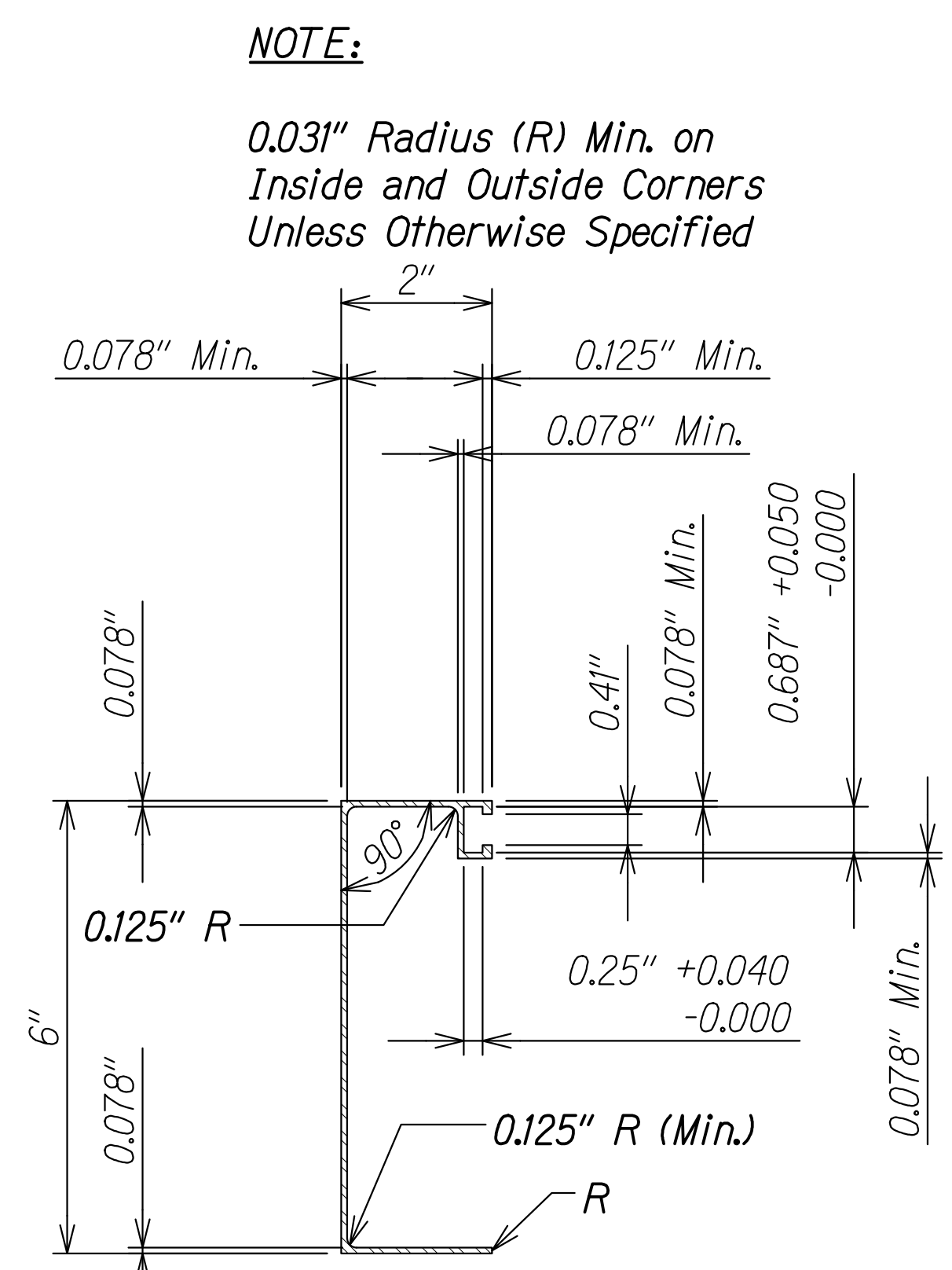
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	166	175



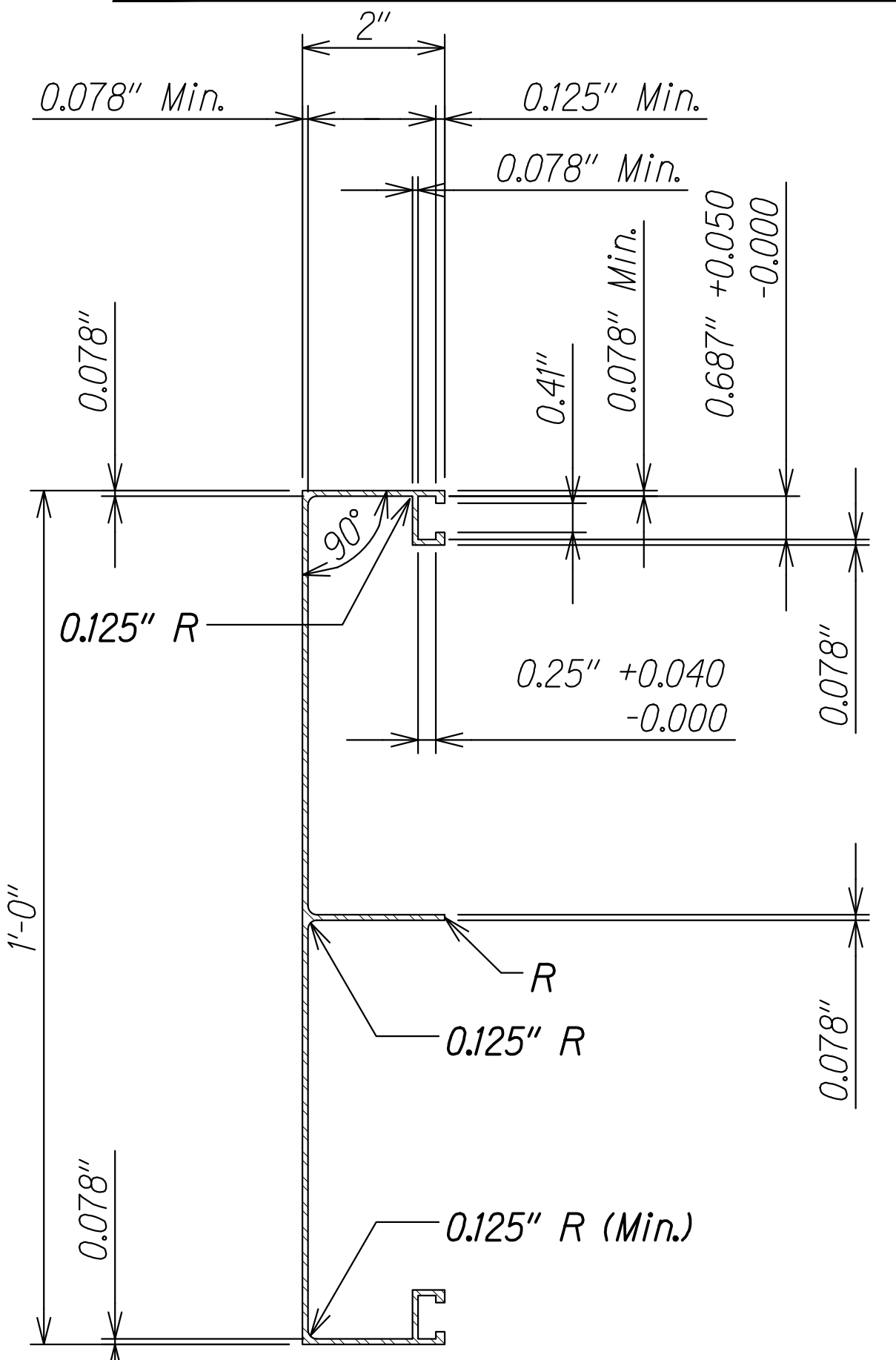
SIDE VIEW

REAR VIEW

TYPICAL SIGN ASSEMBLY A
Scale: 6" = 1'-0" S9.8/S9.8



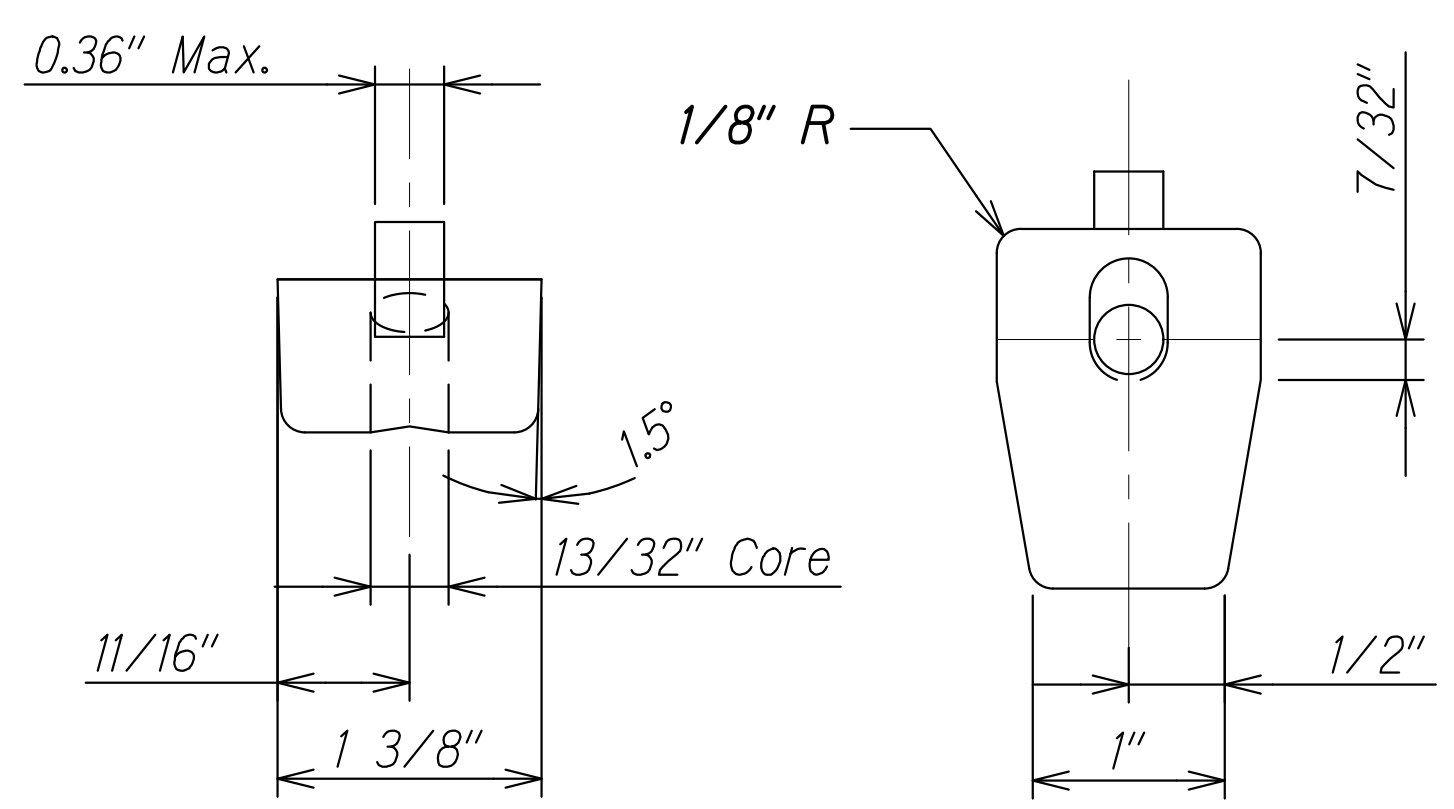
6" SIGN PANEL
Wt./Lineal Ft. - 1.103 Lbs. Min.
Alloy - 6061 - F(1)
Moment Inertia - 0.487 in.⁴ Min.
Minimum Section Modulus - 0.341 in.³



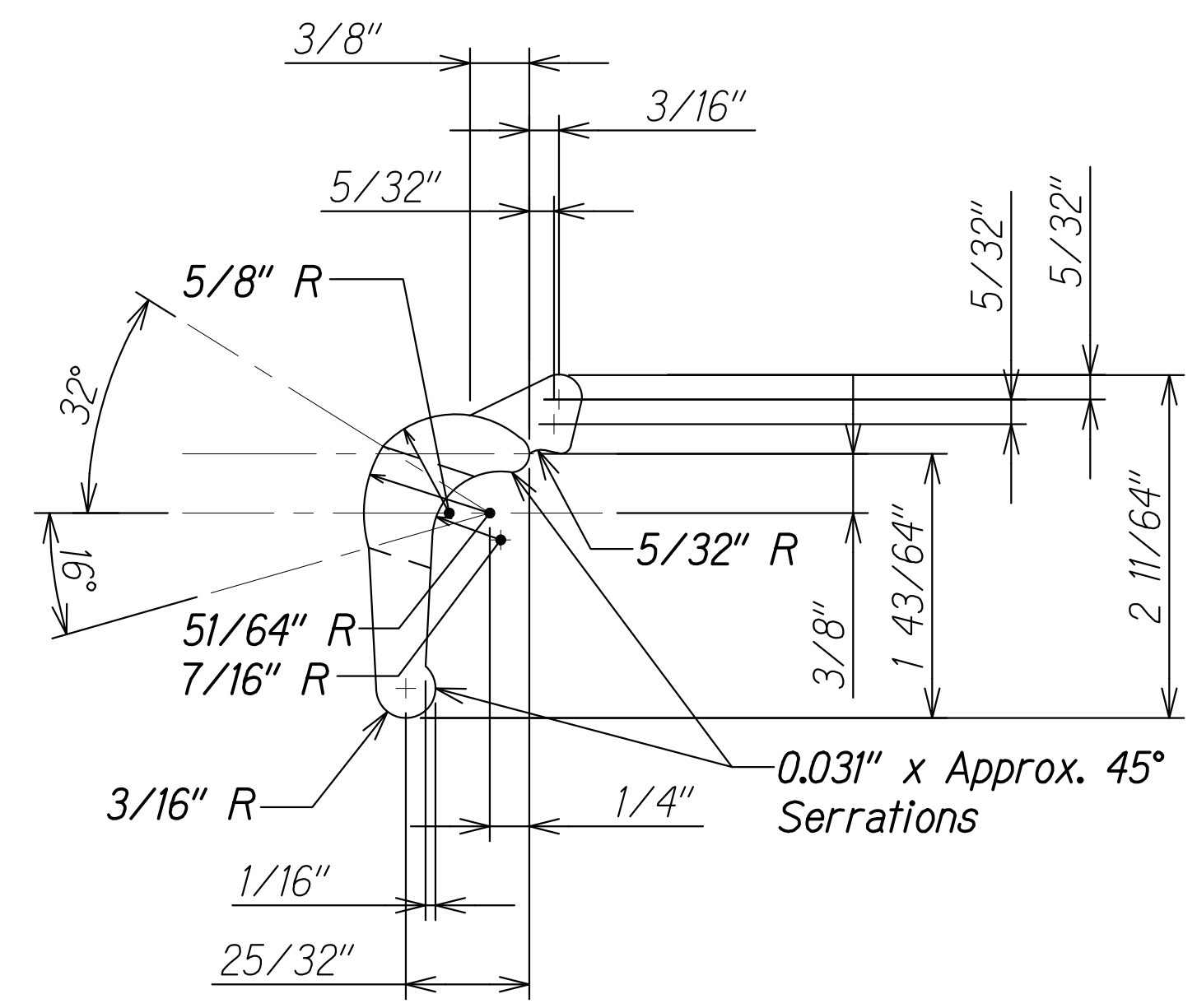
12" SIGN PANEL
Wt./Lineal Ft. - 2.690 Lbs. Min.
Alloy - 6061 - F(1)
Moment Inertia - 0.936 in.⁴ Min.
Minimum Section Modulus - 0.605 in.³

SOLID EXTRUDED SIGN PANEL DETAILS 1
Scale: 6" = 1'-0" S9.7/S9.8

NOTE:
Seams trimmed flush to 1/32" casting tolerance ±1/64"



MOUNTING BEAM CLIP DETAIL 2
Full Scale (Alloy 356-T6) S9.8/S9.8



MOUNTING BEAM CLIP BOLT ASSEMBLY DETAIL 3
Full Scale S9.8/S9.8

3/8" - 16 x 1 3/4" Long Sq. Hd. Bolt Alloy 2024-T4
3/8" - 16 Lock Nut-Alloy 2017-T4
25/32" ID x 3/4" OD x .09" Washer-Alloy Alclad 2024-14

PANEL BOLT ASSEMBLY DETAIL 4
Full Scale S9.8/S9.8

3/8" - 16 x 3/4" Long Hex. Hd. Bolt Alloy 2024-T4
3/8" - 16 Lock Nut-Alloy 6061-T6
Flat Washer-Alloy Alclad 2024-T4

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

DRAWING NAME: Z:\00 ONGOING\00 OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50908 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:50 PM



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Calvin Miyahara
4-30-24
SIGNATURE EXPIRATION DATE OF THE LICENSE

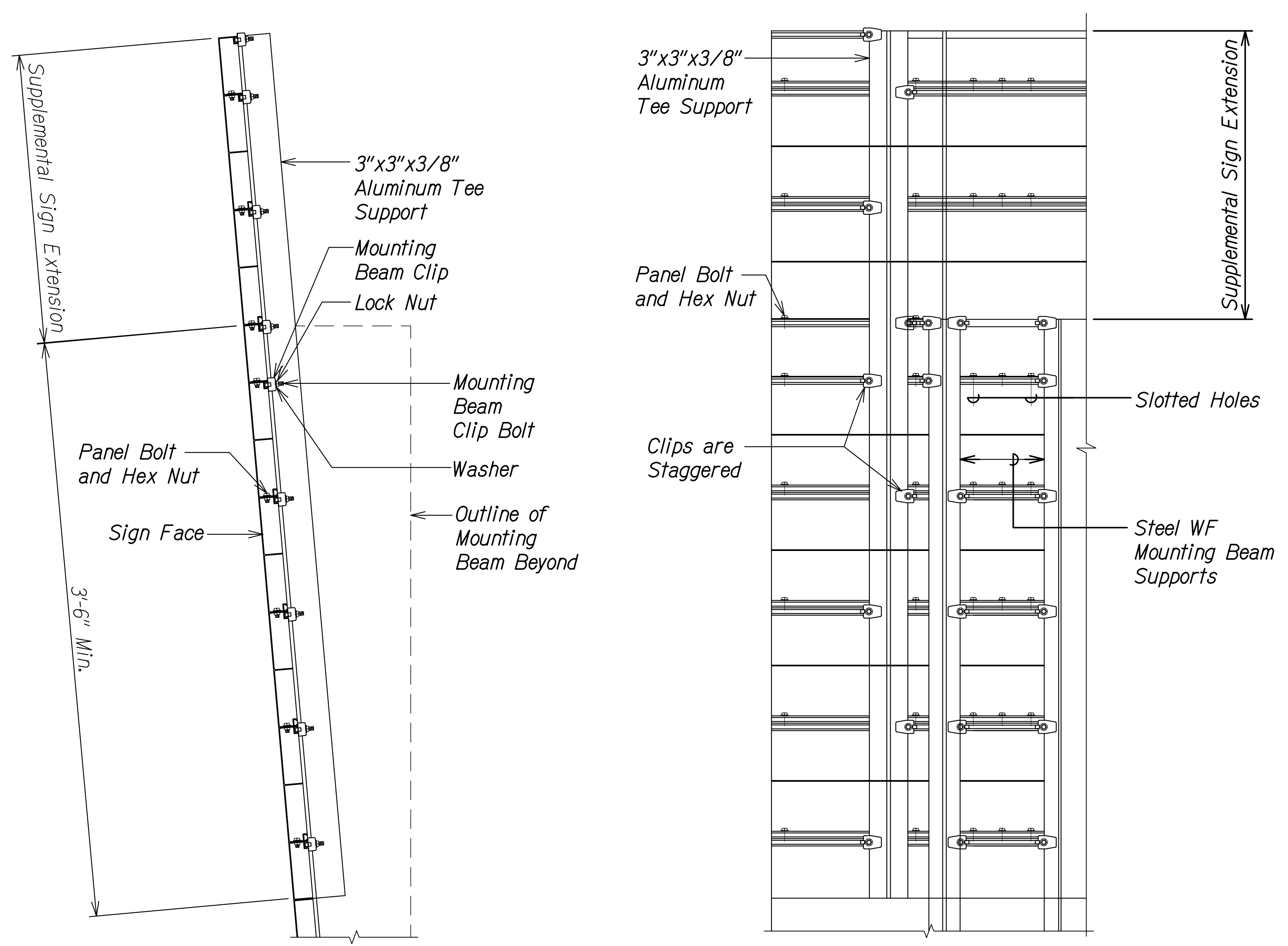
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SIGN PANEL ASSEMBLY AND HARDWARE DETAILS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022
SHEET No. S9.8 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	167	175



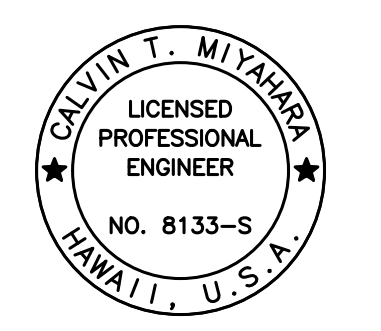
SIDE VIEW

REAR VIEW

ASSEMBLY AT SUPPLEMENTAL SIGN EXTENSION A
 Scale: 1 1/2" = 1'-0" S9.9 | S9.9

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50908 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:51 PM



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

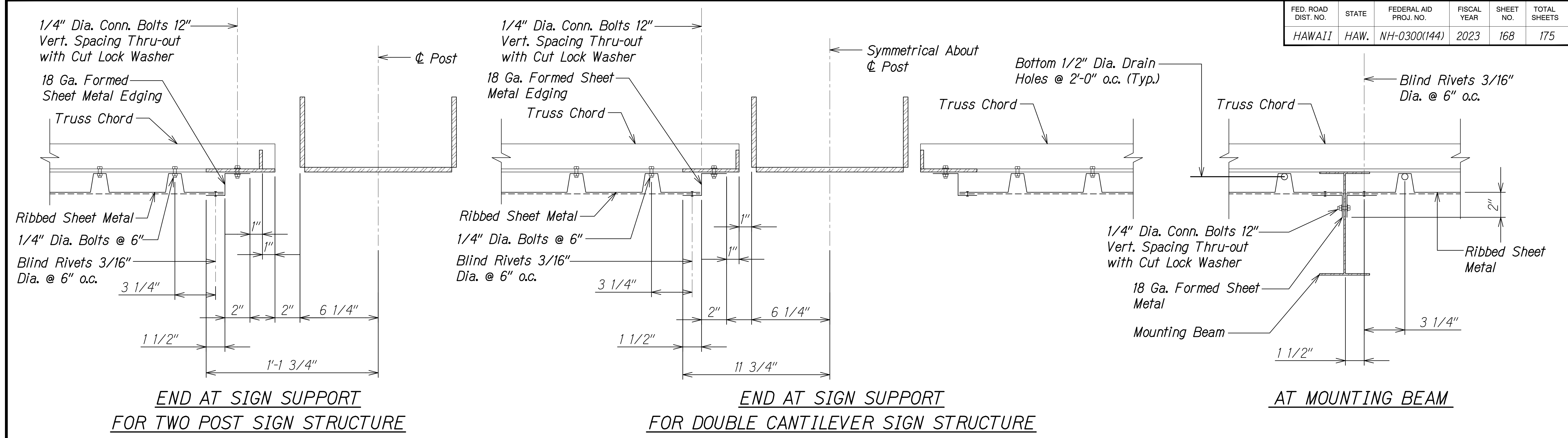
TYPICAL SIGN PANEL ASSEMBLY

*INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)*

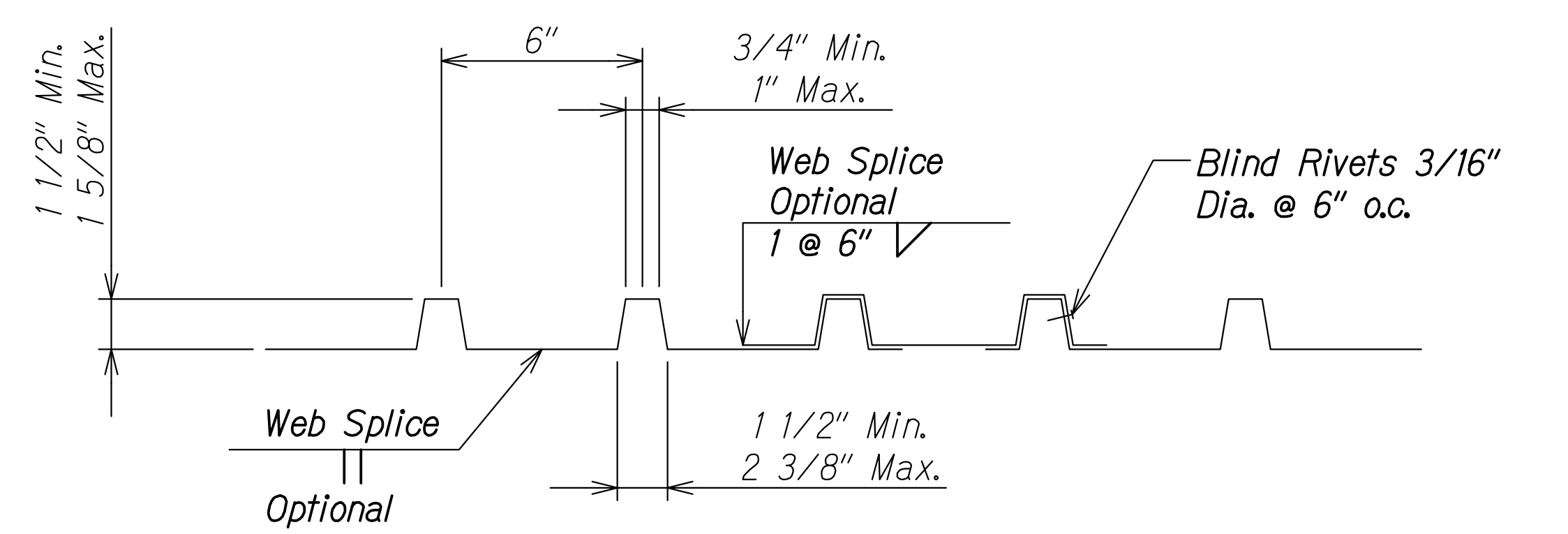
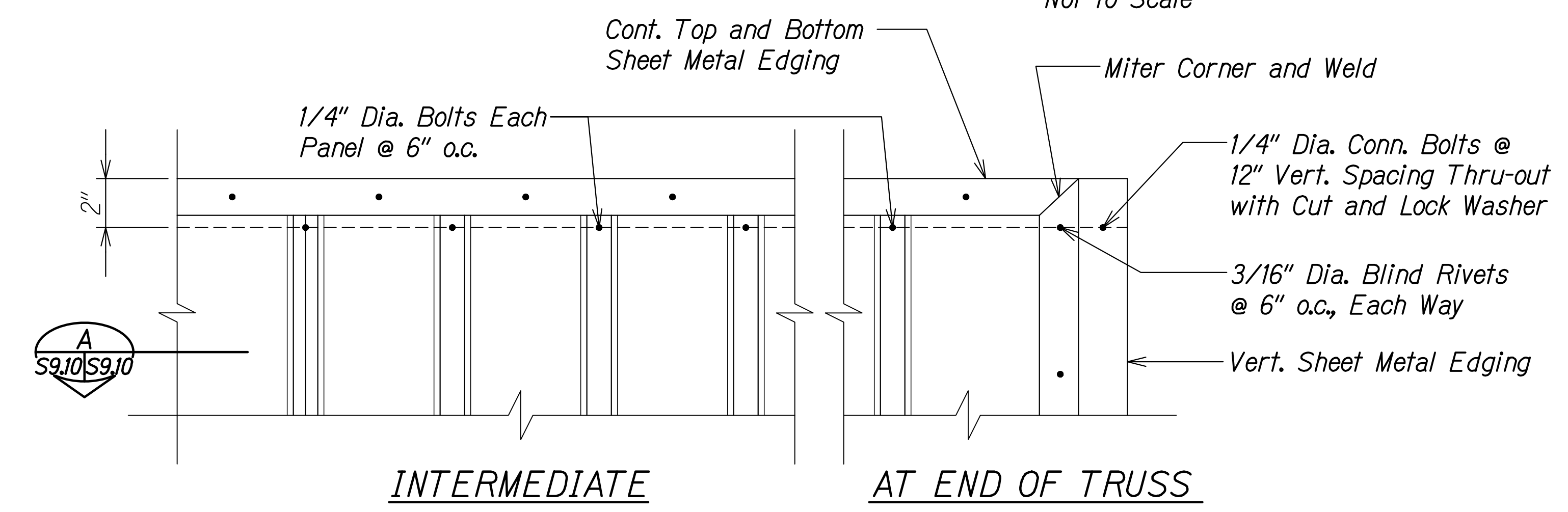
Scale: As Noted Date: Sept. 2022

SHEET No. **S9.9** OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	168	175



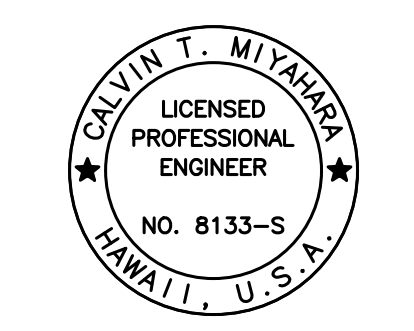
TYPICAL HORIZONTAL SECTION AT POST
 Not to Scale
 A
 S9.10 | S9.10



TYPICAL RIBBED SHEET METAL DETAIL
 Not to Scale
 1
 S8.1 | S7.2 | S9.10

RIBBED SHEET METAL NOTES:

- All ribbed sheet metal formed edging and the connections shall be capable of resisting the loads described on the Structural General Notes sheet. The ribbed sheet metal shall span from top chord to bottom chord, shop drawings and calculations shall be submitted to the Engineer for approval.
- All ribbed sheet metal and formed edging shall be galvanized steel with a minimum 18 gage thickness conforming to ASTM designation A653-SS, grade 33 with a minimum yield of 38 ksi, G165. Coating designation shall conform to A.S.T.M. designation: A653, G60.
- Connection bolts, nuts and washers to be hot-dip galvanized steel ASTM A307.
- Blind rivets shall be galvanized and submitted to the Engineer for approval.



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 4-30-24
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STATE OF HAWAII
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 HIGHWAYS DIVISION

TYPICAL RIBBED SHEET METAL DETAILS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S9.10 OF 10 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
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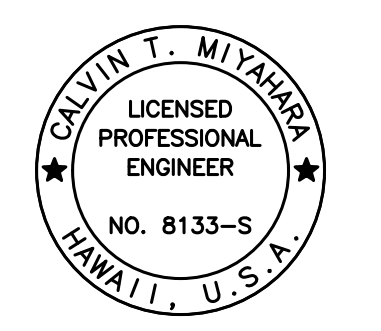
DRAWING NAME: Z:\00 ONGOING\00_16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-50910 TYP DTLS.DWG PLOT TIME: 09-29-22, 4:52 PM

SIGN SCHEDULE

SIGN	SPAN LENGTH "L"	DEPTH "D"	TRUSS PANELS NO.	SPACING	WIND PANELS NO.	SPACING	WIDTH "W"	FRAMING SIZES				CAMBER	COMMENTS
								MEMBER "A" T&B CHORDS	MEMBER "B" VERTICAL	MEMBER "C" DIAGONAL	MEMBER "D" T&B CHORD WIND BRACING		
HIEBR-253	90'-0"	14'-0"	8	Equal Spaces	40	Equal Spaces	2'-6"	L6 x 6 x 7/8	L3 1/2 x 3 x 1/4	L3 x 3 x 1/4	L3 x 3 x 3/8	1"	
78EBR-830	72'-0"	10'-6"	10	Equal Spaces	32	Equal Spaces	2'-6"	L6 x 4 x 3/4	L3 1/2 x 3 x 1/4	L3 x 3 x 1/4	L2 x 2 x 1/4	1/2"	
HIEB-305 (Mauka) HIEB-305 (Makai)	23'-4" 24'-8"	10'-6" 10'-6"	2 2	Equal Spaces	12 12	Equal Spaces	2'-0" 2'-0"	L5 x 3 1/2 x 5/8 L5 x 3 1/2 x 5/8	L3 x 3 x 1/4 L3 x 3 x 1/4	L3 x 3 x 1/4 L3 x 3 x 1/4	L2 x 2 x 1/4 L2 x 2 x 1/4	1 1/2" 2"	Double Cantilever
HIWB-505	91'-8 1/2"	10'-0"	9	Equal Spaces	40	Equal Spaces	2'-6"	L6 x 4 x 7/8	L3 1/2 x 3 x 1/4	L3 x 3 x 1/4	L3 x 3 x 3/8	1"	On Structure
HIWB-511	82'-8"	10'-6"	8	Equal Spaces	40	Equal Spaces	2'-6"	L6 x 4 x 7/8	L3 1/2 x 3 x 1/4	L3 x 3 x 1/4	L2 x 2 x 3/8	3/4"	On Structure

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\09-30-22_4:52 PM\ PLOT TIME: 09-29-22_4:52 PM



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Calvin Miyakawa
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN SCHEDULE

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. *S10.1* OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	170	175

SIGN SCHEDULE

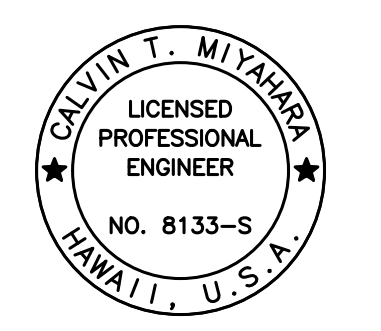
SIGN	COLUMN SIZES		BASE SIZES			SHAFT LENGTH "L"
	POST PLATE "A"	POST PLATE "B"	BASE PLATE "T"	ANCHOR BOLT DIA. (TOTAL)	SHAFT DIAMETER "D"	
H1EBR-253	1"	1"	3"	3" Dia. (12)	5'-0"	14'-0"
78EBR-830	3/4"	3/4"	3"	2 1/2" Dia. (12)	5'-0"	20'-0"
H1EB-305	3/4"	3/4"	3"	2 1/2" Dia. (12)	5'-0"	30'-0"
H1WB-505	3/4"	3/4"	3"	2" Dia. (12)	N/A	N/A
H1WB-511	3/4"	3/4"	3"	2 1/2" Dia. (12)	N/A	N/A

ANCHOR BOLT PRETENSIONING SCHEDULE

ANCHOR BOLT DIAMETER (IN.)	TOP NUT ROTATION BEYOND SNUG TIGHT
≤ 1 1/2	1/3 Turn
> 1 1/2	1/6 Turn

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

DRAWING NAME: Z:\00 ONGOING\00_OF PROJECTS\16-006-DESTINATION SIGNS\01 CAD\09-30-22 BID\0511-51001 TO 51002 SCHED.DWG PLOT TIME: 09-29-22, 4:52 PM



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGN SCHEDULE

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: As Noted Date: Sept. 2022

SHEET No. S10.2 OF 2 SHEETS



GEOLABS, INC.
Geotechnical Engineering

Soil Log Legend

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)


MAJOR DIVISIONS		USCS	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	GRAVELS	CLEAN GRAVELS LESS THAN 5% FINES	GW WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES	GP POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES MORE THAN 12% FINES	GM SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	SANDS	CLEAN SANDS LESS THAN 5% FINES	SW WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES	SP POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES MORE THAN 12% FINES	SM SILTY SANDS, SAND-SILT MIXTURES
FINE-GRAINED SOILS	SILTS AND CLAYS	ML INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
		CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
		OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS	MH INORGANIC SILT, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
		CH INORGANIC CLAYS OF HIGH PLASTICITY	
		OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS		PT PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

LEGEND

	(2-INCH) O.D. STANDARD PENETRATION TEST	LL	LIQUID LIMIT (NP=NON-PLASTIC)
	(3-INCH) O.D. MODIFIED CALIFORNIA SAMPLE	PI	PLASTICITY INDEX (NP=NON-PLASTIC)
	SHELBY TUBE SAMPLE	TV	TORVANE SHEAR (tsf)
	GRAB SAMPLE	UC	UNCONFINED COMPRESSION OR UNIAXIAL COMPRESSIVE STRENGTH
	CORE SAMPLE	TXUU	UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION (ksf)
	WATER LEVEL OBSERVED IN BORING AT TIME OF DRILLING		
	WATER LEVEL OBSERVED IN BORING AFTER DRILLING		
	WATER LEVEL OBSERVED IN BORING OVERNIGHT		

Plate
A-0.1



GEOLABS, INC.
Geotechnical Engineering

Soil Classification Log Key (with deviations from ASTM D2488)

GEOLABS, INC. CLASSIFICATION*

GRANULAR SOIL (- #200 < 50%)	COHESIVE SOIL (- #200 ≥ 50%)
<ul style="list-style-type: none"> PRIMARY constituents are composed of the largest percent of the soil mass. Primary constituents are capitalized and bold (i.e., GRAVEL, SAND) SECONDARY constituents are composed of a percentage less than the primary constituent. If the soil mass consists of 12 percent or more fines content, a cohesive constituent is used (SILTY or CLAYEY); otherwise, a granular constituent is used (GRAVELLY or SANDY) provided that the secondary constituent consists of 20 percent or more of the soil mass. Secondary constituents are capitalized and bold (i.e., SANDY GRAVEL, CLAYEY SAND) and precede the primary constituent. accessory descriptions compose of the following: with some: >12% with a little: 5 - 12% with traces of: <5% accessory descriptions are lower cased and follow the Primary and Secondary Constituents (i.e., SILTY GRAVEL with a little sand) 	<ul style="list-style-type: none"> PRIMARY constituents are based on plasticity. Primary constituents are capitalized and bold (i.e., CLAY, SILT) SECONDARY constituents are composed of a percentage less than the primary constituent, but more than 20 percent of the soil mass. Secondary constituents are capitalized and bold (i.e., SANDY CLAY, SILTY CLAY, CLAYEY SILT) and precede the primary constituent. accessory descriptions compose of the following: with some: >12% with a little: 5 - 12% with traces of: <5% accessory descriptions are lower cased and follow the Primary and Secondary Constituents (i.e., SILTY CLAY with some sand)
EXAMPLE: Soil Containing 60% Gravel, 25% Sand, 15% Fines. Described as: SILTY GRAVEL with some sand	

RELATIVE DENSITY / CONSISTENCY

Granular Soils			Cohesive Soils		
N-Value (Blows/Foot)	Relative Density		N-Value (Blows/Foot)	PP Readings (tsf)	Consistency
SPT	MCS		SPT	MCS	
0 - 4	0 - 7	Very Loose	0 - 2	0 - 4	Very Soft
4 - 10	7 - 18	Loose	2 - 4	4 - 7	Soft
10 - 30	18 - 55	Medium Dense	4 - 8	7 - 15	Medium Stiff
30 - 50	55 - 91	Dense	8 - 15	15 - 27	Stiff
> 50	> 91	Very Dense	15 - 30	27 - 55	Very Stiff
			> 30	> 55	Hard

MOISTURE CONTENT DEFINITIONS

Dry:	Absence of moisture, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

GRAIN SIZE DEFINITION

Description	Sieve Number and / or Size
Boulders	> 12 inches (305-mm)
Cobbles	3 to 12 inches (75-mm to 305-mm)
Gravel	3-inch to #4 (75-mm to 4.75-mm)
Coarse Gravel	3-inch to 3/4-inch (75-mm to 19-mm)
Fine Gravel	3/4-inch to #4 (19-mm to 4.75-mm)
Sand	#4 to #200 (4.75-mm to 0.075-mm)
Coarse Sand	#4 to #10 (4.75-mm to 2-mm)
Medium Sand	#10 to #40 (2-mm to 0.425-mm)
Fine Sand	#40 to #200 (0.425-mm to 0.075-mm)

ABBREVIATIONS

WOH:	Weight of Hammer
WOR:	Weight of Drill Rods
SPT:	Standard Penetration Test Split-Spoon Sampler
MCS:	Modified California Sampler
PP:	Pocket Penetrometer

Plate
A-0.2

*Soil descriptions are based on ASTM D2488-09a, Visual-Manual Procedure, with the above modifications by Geolabs, Inc. to the Unified Soil Classification System (USCS).

DESIGNED BY	DATE
CHECKED BY	
QUANTITIES BY	
NOTED BY	
TRACED BY	
REVISIONS	
NO.	

DRAWING NAME: A:\DRAWINGS\DRAWINGS\WORKING\7341-00_INTERSTATE_ROUTE_H-1_L & H-201_SIGN_UPGRADE\7341-00SHEETBOILINGLOGS.DWG PLOT TIME: 09-30-22, 8:55 AM

LOG LEGEND FOR SOIL 7341-00.GPJ GEOLABS.GDT 12/19/18

SOIL CLASS LOG KEY 7341-00.GPJ GEOLABS.GDT 12/19/18



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Signature: *Gerald Y. Seki* 04/2024
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOG LEGENDS

INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)

Scale: None Date: September 2022

SHEET No. G-1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	172	175

GEOLABS, INC.
Geotechnical Engineering

Rock Log Legend

ROCK DESCRIPTIONS

	BASALT		CONGLOMERATE
	BOULDERS		LIMESTONE
	BRECCIA		SANDSTONE
	CLINKER		SILTSTONE
	COBBLES		TUFF
	CORAL		VOID/CAVITY

ROCK DESCRIPTION SYSTEM

ROCK FRACTURE CHARACTERISTICS

The following terms describe general fracture spacing of a rock:

Massive:	Greater than 24 inches apart
Slightly Fractured:	12 to 24 inches apart
Moderately Fractured:	6 to 12 inches apart
Closely Fractured:	3 to 6 inches apart
Severely Fractured:	Less than 3 inches apart

DEGREE OF WEATHERING

The following terms describe the chemical weathering of a rock:

Unweathered:	Rock shows no sign of discoloration or loss of strength.
Slightly Weathered:	Slight discoloration inwards from open fractures.
Moderately Weathered:	Discoloration throughout and noticeably weakened though not able to break by hand.
Highly Weathered:	Most minerals decomposed with some corestones present in residual soil mass. Can be broken by hand.
Extremely Weathered:	Saprolite. Mineral residue completely decomposed to soil but fabric and structure preserved.

HARDNESS

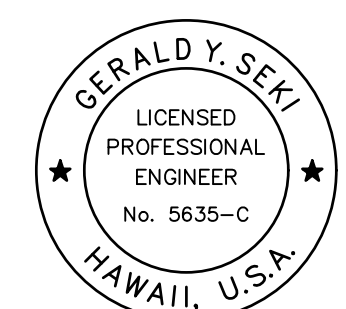
The following terms describe the resistance of a rock to indentation or scratching:

Very Hard:	Specimen breaks with difficulty after several "pinging" hammer blows. Example: Dense, fine grain volcanic rock
Hard:	Specimen breaks with some difficulty after several hammer blows. Example: Vesicular, vugular, coarse-grained rock
Medium Hard:	Specimen can be broken by one hammer blow. Cannot be scraped by knife. SPT may penetrate by ~25 blows per inch with bounce. Example: Porous rock such as clinker, cinder, and coral reef
Soft:	Can be indented by one hammer blow. Can be scraped or peeled by knife. SPT can penetrate by ~100 blows per foot. Example: Weathered rock, chalk-like coral reef
Very Soft:	Crumbles under hammer blow. Can be peeled and carved by knife. Can be indented by finger pressure. Example: Saprolite

Plate
A-0.3

GEOTECHNICAL NOTES:

1. A geotechnical engineering report entitled "Geotechnical Engineering Exploration, Interstate Route H-1 and H-201, Destination Sign Upgrade/Replacement, Phase 3, FAP No. NH-0300 (144), Island Of Oahu, Hawaii" dated February 3, 2022 has been prepared by Geolabs, Inc. A copy of the report is on file at the office of the Engineer for review by the Contractor.
2. For boring locations, see Sheets R-1, R-3, R-5, R-6, R-10, and R-11.
3. The information presented in the logs of borings depict the subsurface conditions encountered at that specified location and at the time of the field exploration only. Variations of subsoil conditions from those depicted in the logs of borings may occur between and beyond the borings.
4. The penetration resistance shown on the logs of borings indicate the number of blows required for the specific sampler type used. The blow counts may need to be factored to obtain the Standard Penetration Test (SPT) blow counts.
5. The data given is for general information only. Bidders shall examine the site and the boring data and draw their own conclusions therefrom as to the character of materials to be encountered. The Engineer will not assume responsibility for variations of subsoil quality or conditions other than at the boring locations shown and at the time the borings were taken.



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Gerald Y. Seki 04/2024
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOG LEGEND & NOTES

**INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)**

Scale: None Date: September 2022

SURVEY PLANNED BY _____ DATE _____ DESIGNED BY _____ NOTE BOOK DESIGNED BY _____ QUANTITIES BY _____ CHECKED BY _____	ORIGINAL PLAN _____ NOTE BOOK _____ No. _____
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DRAWING NAME: A:\DRAWINGS\DRAWINGS\WORKING\7341-001_INTERSTATE_ROUTE_H-1_&_H201_SIGN_UPGRADE\7341-005SHEETBORINGLOGS.DWG PLOT TIME: 09-30-22, 8:55 AM

LOG LEGEND FOR ROCK: 7941-001.GPJ GEOLABS.GDT 12/19/18

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	173	175

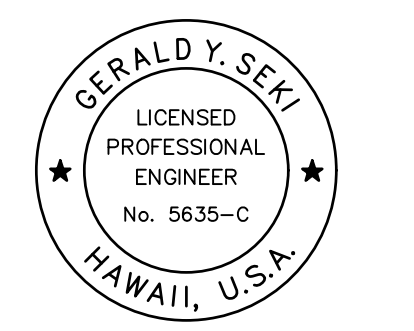
		GEOLABS, INC. Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII		Log of Boring 1																																								
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)																																								
	9 16 26 38	70			53/4" 22/6" +50/2"																																									
UC= 2460 psi			100 92	100 77																																										
UC= 1810 psi			100 92	48 35																																										
<table border="1"> <tr> <th>Depth (feet)</th> <th>Sample Graphic</th> <th>USCS</th> <th>Description</th> </tr> <tr> <td>0</td> <td>GM</td> <td>GM</td> <td>4-inch ASPHALTIC CONCRETE</td> </tr> <tr> <td>5</td> <td>GM</td> <td>ML</td> <td>Gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)</td> </tr> <tr> <td>10</td> <td>GM</td> <td>ML</td> <td>Brown SANDY SILT with some gravel (basaltic) (fill)</td> </tr> <tr> <td>15</td> <td></td> <td></td> <td>Grayish brown TUFF, medium hard (volcanic tuff)</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td>Brown SANDY SILT with a little gravel, very stiff, moist (weathered volcanic tuff)</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td>Grayish brown TUFF, moderately to closely fractured, slightly weathered, medium hard (volcanic tuff)</td> </tr> <tr> <td>30</td> <td></td> <td></td> <td>Grayish brown TUFF, severely fractured, highly weathered, soft (volcanic tuff)</td> </tr> <tr> <td>35</td> <td></td> <td></td> <td>Grayish brown TUFF, closely fractured, slightly weathered, medium hard (volcanic tuff)</td> </tr> <tr> <td>31</td> <td></td> <td></td> <td>Boring terminated at 31 feet</td> </tr> </table>							Depth (feet)	Sample Graphic	USCS	Description	0	GM	GM	4-inch ASPHALTIC CONCRETE	5	GM	ML	Gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)	10	GM	ML	Brown SANDY SILT with some gravel (basaltic) (fill)	15			Grayish brown TUFF, medium hard (volcanic tuff)	20			Brown SANDY SILT with a little gravel, very stiff, moist (weathered volcanic tuff)	25			Grayish brown TUFF, moderately to closely fractured, slightly weathered, medium hard (volcanic tuff)	30			Grayish brown TUFF, severely fractured, highly weathered, soft (volcanic tuff)	35			Grayish brown TUFF, closely fractured, slightly weathered, medium hard (volcanic tuff)	31			Boring terminated at 31 feet
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5	GM	ML	Gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)																																											
10	GM	ML	Brown SANDY SILT with some gravel (basaltic) (fill)																																											
15			Grayish brown TUFF, medium hard (volcanic tuff)																																											
20			Brown SANDY SILT with a little gravel, very stiff, moist (weathered volcanic tuff)																																											
25			Grayish brown TUFF, moderately to closely fractured, slightly weathered, medium hard (volcanic tuff)																																											
30			Grayish brown TUFF, severely fractured, highly weathered, soft (volcanic tuff)																																											
35			Grayish brown TUFF, closely fractured, slightly weathered, medium hard (volcanic tuff)																																											
31			Boring terminated at 31 feet																																											
Date Started: March 27, 2018		Date Completed: March 27, 2018		Water Level: 11.5 ft. 03/27/2018 1303 HRS																																										
Logged By: N. Vaiana		Drill Rig: CME-75DG2		Drilling Method: 4" Solid Stem Auger & PQ Coring																																										
Total Depth: 31 feet		Work Order: 7341-00		Driving Energy: 140 lb. wt., 30 in. drop																																										

		GEOLABS, INC. Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII		Log of Boring 2																																
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)																																
	12 14 31		100 100	20 60	10/0" Ref.																																	
UC= 1090 psi			100 100	48 5																																		
UC= 1410 psi			100 100	5 5																																		
<table border="1"> <tr> <th>Depth (feet)</th> <th>Sample Graphic</th> <th>USCS</th> <th>Description</th> </tr> <tr> <td>0</td> <td>GM</td> <td>GM</td> <td>4-inch ASPHALTIC CONCRETE</td> </tr> <tr> <td>5</td> <td>GM</td> <td>GM</td> <td>Brownish gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td>Brown SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)</td> </tr> <tr> <td>15</td> <td></td> <td></td> <td>Grayish brown TUFF, severely to closely fractured, slightly weathered, medium hard (volcanic tuff)</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td>grades to moderately fractured</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td>grades to closely fractured</td> </tr> <tr> <td>30</td> <td></td> <td></td> <td>Boring terminated at 31 feet</td> </tr> </table>							Depth (feet)	Sample Graphic	USCS	Description	0	GM	GM	4-inch ASPHALTIC CONCRETE	5	GM	GM	Brownish gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)	10			Brown SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)	15			Grayish brown TUFF, severely to closely fractured, slightly weathered, medium hard (volcanic tuff)	20			grades to moderately fractured	25			grades to closely fractured	30			Boring terminated at 31 feet
Depth (feet)	Sample Graphic	USCS	Description																																			
0	GM	GM	4-inch ASPHALTIC CONCRETE																																			
5	GM	GM	Brownish gray SILTY GRAVEL (BASALTIC) with some sand (basaltic), moist (fill)																																			
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20			grades to moderately fractured																																			
25			grades to closely fractured																																			
30			Boring terminated at 31 feet																																			
Date Started: March 28, 2018		Date Completed: March 28, 2018		Water Level: 11.0 ft. 03/28/2018 1300 HRS																																		
Logged By: N. Vaiana		Drill Rig: CME-75DG2		Drilling Method: 4" Solid Stem Auger & PQ Coring																																		
Total Depth: 31 feet		Work Order: 7341-00		Driving Energy: 140 lb. wt., 30 in. drop																																		

		GEOLABS, INC. Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII		Log of Boring 3																																																				
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)																																																				
	14 24 32 62 23 47 67 56 55	110 86 86 86 105 61 61 67			48 17 41 5 10 6 17 10 14	2.5 2.5 3.3 2.0																																																				
TXUU Su=1.6 ksf			19 64																																																							
LL=110 PI=78 TXUU Su=1.5 ksf			100 52																																																							
<table border="1"> <tr> <th>Depth (feet)</th> <th>Sample Graphic</th> <th>USCS</th> <th>Description</th> </tr> <tr> <td>0</td> <td>GP-</td> <td>GP-</td> <td>7-inch ASPHALTIC CONCRETE</td> </tr> <tr> <td>5</td> <td>GM</td> <td>GM</td> <td>Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, moist (fill)</td> </tr> <tr> <td>10</td> <td>GM</td> <td>GM</td> <td>Gray GRAVELLY SAND (BASALTIC), medium dense, moist (fill)</td> </tr> <tr> <td>15</td> <td>CH</td> <td>CH</td> <td>Gray with brown mottling SILTY GRAVEL (BASALTIC), medium dense, moist (fill)</td> </tr> <tr> <td>20</td> <td>CH</td> <td>CH</td> <td>Gray SILTY CLAY with some gravel (basaltic) and a little cobbles, stiff to very stiff, moist (fill)</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td>Dark brown SILTY CLAY, very stiff, wet (alluvium) grades to medium stiff</td> </tr> <tr> <td>30</td> <td>GM</td> <td>GM</td> <td>Dark gray SILTY GRAVEL (BASALTIC) with some sand, loose, wet (alluvium)</td> </tr> <tr> <td>35</td> <td>CH</td> <td>CH</td> <td>grades with silty clay pockets locally</td> </tr> <tr> <td>40</td> <td>CH</td> <td>CH</td> <td>Gray with tan mottling SILTY CLAY with a little gravel (coralline), medium stiff (alluvium w/ coral debris)</td> </tr> <tr> <td>45</td> <td></td> <td></td> <td>grades to very stiff</td> </tr> <tr> <td>50</td> <td>ML</td> <td>ML</td> <td>Gray with brown mottling CLAYEY SILT with some sand, stiff (alluvium)</td> </tr> <tr> <td>55</td> <td></td> <td></td> <td>Boring terminated at 38 feet</td> </tr> </table>							Depth (feet)	Sample Graphic	USCS	Description	0	GP-	GP-	7-inch ASPHALTIC CONCRETE	5	GM	GM	Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, moist (fill)	10	GM	GM	Gray GRAVELLY SAND (BASALTIC), medium dense, moist (fill)	15	CH	CH	Gray with brown mottling SILTY GRAVEL (BASALTIC), medium dense, moist (fill)	20	CH	CH	Gray SILTY CLAY with some gravel (basaltic) and a little cobbles, stiff to very stiff, moist (fill)	25			Dark brown SILTY CLAY, very stiff, wet (alluvium) grades to medium stiff	30	GM	GM	Dark gray SILTY GRAVEL (BASALTIC) with some sand, loose, wet (alluvium)	35	CH	CH	grades with silty clay pockets locally	40	CH	CH	Gray with tan mottling SILTY CLAY with a little gravel (coralline), medium stiff (alluvium w/ coral debris)	45			grades to very stiff	50	ML	ML	Gray with brown mottling CLAYEY SILT with some sand, stiff (alluvium)	55			Boring terminated at 38 feet
Depth (feet)	Sample Graphic	USCS	Description																																																							
0	GP-	GP-	7-inch ASPHALTIC CONCRETE																																																							
5	GM	GM	Gray SANDY GRAVEL (BASALTIC) with a little silt, dense, moist (fill)																																																							
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50	ML	ML	Gray with brown mottling CLAYEY SILT with some sand, stiff (alluvium)																																																							
55			Boring terminated at 38 feet																																																							
Date Started: April 18, 2018		Date Completed: April 19, 2018		Water Level: 15.0 ft. 04/18/2018 2240 HRS																																																						
Logged By: S. Latronic		Drill Rig: CME-45C TRUCK		Drilling Method: 4" Solid Stem Auger & PQ Coring																																																						
Total Depth: 38 feet		Work Order: 7341-00		Driving Energy: 140 lb. wt., 30 in. drop																																																						

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: A:\DRAWINGS\DRAWINGS\WORKING\7341-00\INTERSTATE_ROUTE_H-1_L_&_H201_SIGN_UPGRADE\7341-00SHEETBORINGLOGS.DWG PLOT TIME: 09-30-22, 8:55 AM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Gerald Y. Seki* 04/2024
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

*INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)*

Scale: None Date: September 2022

SHEET No. G-3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	174	175

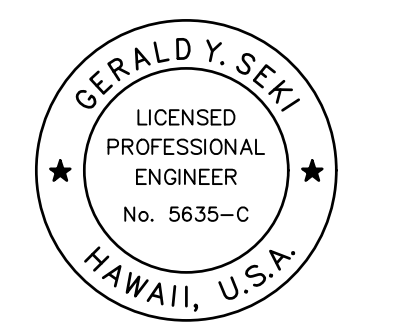
GEOLABS, INC. Geotechnical Engineering										INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 4
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Description			
Sieve #200 = 11.9%	4	116			61				GW	12-inch ASPHALTIC CONCRETE			
	6				12				SP-	Gray angular SANDY GRAVEL (BASALTIC) with traces of clayey silt, dense, moist (fill)			
	7	74			14		5	SM	Brownish gray GRAVELLY SAND (BASALTIC) with a little silt, medium dense, moist (fill) grades to loose				
TXUU Su=5.8 ksf	27		50		23		10	MH	grades to sandy gravel locally				
			28				15	CH	Reddish brown CLAYEY SILT with a little gravel (basaltic), very stiff, moist (residual soil)				
	35	172	100		82	>4.5	15	MH	Reddish brown SILTY CLAY, very stiff to hard, moist (residual soil)				
	37		88	0	74		20	MH	Dark brown SILTY CLAY with some decomposed gravel, hard, moist (weathered clinker)				
			98	40			25	MH	Gray CLAYEY SILT with remnant rock structure, hard, moist (saprolite)				
							30			Gray vugular BASALT, severely to closely fractured, slightly weathered, hard (basalt formation) grades to moderately fractured			
							35			Boring terminated at 31.5 feet			
Date Started: April 15, 2018						Water Level: ∇ Not Encountered							
Date Completed: April 16, 2018													
Logged By: S. Latronic						Drill Rig: CME-45C TRUCK							
Total Depth: 31.5 feet						Drilling Method: 4" Solid Stem Auger & PQ Coring							
Work Order: 7341-00						Driving Energy: 140 lb. wt., 30 in. drop							

GEOLABS, INC. Geotechnical Engineering										INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 6
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Description			
LL=82 PI=46	16	91			50	>4.5			GW	12-inch ASPHALTIC CONCRETE			
	30				19				MH	Gray SANDY GRAVEL (BASALTIC), medium dense to dense, moist (fill)			
	42	68			17	>4.5	5	CH	Brown with gray mottling CLAYEY SILT with some gravel (basaltic) and a little sand, very stiff, moist (fill)				
UC=24170 psi	30		100	72	50/2"		10	SM	Brown SILTY CLAY with some sand and gravel, stiff to very stiff, moist (residual soil)				
			93	15			15			Brownish gray SILTY SAND (BASALTIC) with some gravel, dense to very dense, wet (saprolite)			
							20			Gray BASALT, slightly to moderately fractured, unweathered to slightly weathered, very hard (basalt formation) grades with clayey seams locally, closely fractured			
UC=19190 psi			100	70			25			Boring terminated at 26.5 feet			
							30						
							35						
Date Started: April 17, 2018						Water Level: ∇ 9.6 ft. 04/17/2018 2220 HRS							
Date Completed: April 18, 2018													
Logged By: S. Latronic						Drill Rig: CME-45C TRUCK							
Total Depth: 26.5 feet						Drilling Method: 4" Solid Stem Auger & PQ Coring							
Work Order: 7341-00						Driving Energy: 140 lb. wt., 30 in. drop							

GEOLABS, INC. Geotechnical Engineering										INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 5
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Description			
LL=52 PI=14	19	99			37				GW	6-inch ASPHALTIC CONCRETE			
	32				48				MH	Gray angular SANDY GRAVEL (BASALTIC), dense, moist (fill)			
	58	64			84		5			Reddish brown CLAYEY SILT with some decomposed gravel, hard, moist (residual soil)			
UC=7270 psi	42				30		10			grades with remnant rock structure			
	29	95			31/6" +50/5"	>4.5	15						
			79	29			20			Gray vugular BASALT, closely fractured, slightly weathered, hard (basalt formation)			
			100	17			25			grades to moderately fractured			
			100	72			30			Boring terminated at 31.5 feet			
Date Started: April 16, 2018						Water Level: ∇ Not Encountered							
Date Completed: April 17, 2018													
Logged By: S. Latronic						Drill Rig: CME-45C TRUCK							
Total Depth: 31.5 feet						Drilling Method: 4" Solid Stem Auger & PQ Coring							
Work Order: 7341-00						Driving Energy: 140 lb. wt., 30 in. drop							

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE BY	
APPROVED BY	

DRAWING NAME: A:\DRAWINGS\DRAWINGS\WORKING\7341-00_INTERSTATE_ROUTE_H-1_&_H201_SIGN_UPGRADE\7341-00SHEETBORINGLOGS.DWG PLOT TIME: 09-30-22, 8:54 AM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Gerald Y. Seki* 04/2024
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

*INTERSTATE ROUTE H-1 AND H-201
DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
FAP NO. NH-0300(144)*

Scale: None Date: September 2022

SHEET No. G-4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(144)	2023	175	175

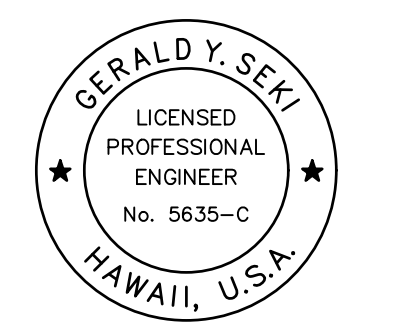
Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 7						
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet) : 36 *	Description
	11	77			56				ML	8-inch ASPHALTIC CONCRETE	
	36				20				SP	Light brown with multi-color mottling SANDY SILT with a little gravel, very stiff to hard, moist (fill)	
					77/6"		5		ML	Tan GRAVELLY SAND (CORALLINE), medium dense to dense, moist (fill)	
LL=33 PI=1 TXUU Su=6.0 ksf					+25/1"		10			Brown SANDY SILT with some gravel, hard, moist (alluvium)	
	36				36		15		SM	Brown with multi-color mottling rounded SILTY SAND with some gravel (basaltic), medium dense, moist (alluvium)	
Sieve #200 = 12.4%	27	77			37		20				
	40				10		25		GM	Brown SILTY GRAVEL with some sand (basaltic), medium dense (alluvium) grades with some cobbles	
Sieve #200 = 16.5%	27	104			19		30				
	42				18		35			grades with a little clay	
	48	82			28		40			grades with boulders	
	42				16/6"		45				
	32	85			25/1"		45.6			Boring terminated at 45.6 feet	
* Elevations estimated from Topographic Survey Map prepared by Controlpoint Surveying, Inc. dated February 20, 2018.											
Date Started: January 4, 2022		Water Level: 23.3 ft. 01/04/2022 1115 HRS									
Date Completed: January 4, 2022		Drill Rig: CME-75DG2									
Logged By: B. Aiu		Drilling Method: 4" Solid-Stem Auger & PQ Coring									
Total Depth: 45.6 feet		Driving Energy: 140 lb. wt., 30 in. drop									
Work Order: 7341-00											

Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 8						
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet) : 35.5 *	Description
	11	123			99				GM	9-inch ASPHALTIC CONCRETE	
	40				51				ML	Reddish brown with gray angular SILTY GRAVEL (BASALTIC) with some sand, very dense, moist (fill)	
LL=NP PI=NP TXUU Su=4.8 ksf	18	82			121		5			Brown SANDY SILT, hard, moist (alluvium)	
	38				34		10				
Sieve #200 = 10.1%	19	95			25		15		GW-GM	Brown with multi-color mottling SANDY GRAVEL with a little silt, medium dense, moist (alluvium)	
Sieve #200 = 14.3%	27				28		20			grades with more silt	
	38	91			33		25			grades with cobbles and boulders	
	16				25/1"		30			Boring terminated at 30.1 feet	
* Elevations estimated from Topographic Survey Map prepared by Controlpoint Surveying, Inc. dated February 20, 2018.											
Date Started: January 3, 2022		Water Level: 22.7 ft. 01/03/2022 1035 HRS									
Date Completed: January 3, 2022		Drill Rig: CME-75DG2									
Logged By: B. Aiu		Drilling Method: 4" Solid-Stem Auger & PQ Coring									
Total Depth: 30.1 feet		Driving Energy: 140 lb. wt., 30 in. drop									
Work Order: 7341-00											

Geotechnical Engineering		INTERSTATE ROUTE H-1 AND H-201 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3 FAP NO. NH-0300 (144) ISLAND OF OAHU, HAWAII			Log of Boring 9						
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation : N/A	Description
	25	92			18				GP	3-inch ASPHALTIC CONCRETE	
	11				109				SC	Brownish gray SANDY GRAVEL (BASALTIC), moist (fill)	
LL=38 PI=16 Sieve #200 = 37.7%	28	83					5		ML	Reddish brown CLAYEY SAND with some angular gravel, medium stiff, moist (fill)	
	27				34/6"		10		SM	Reddish brown SANDY SILT with a little clay, medium stiff, moist (residual soil)	
Sieve #200 = 22.1%					+50/4"		15			Reddish brown and gray SILTY SAND (BASALTIC) with some gravel (basaltic), very dense, moist (saprolite)	
UC= 4340 psi			100	21			20			Brownish gray vugular BASALT, severely fractured, moderately weathered, hard (basalt formation)	
			100	47			25			grades to slightly fractured	
			97	10			30			grades to gray	
			100	63			35			grades to closely to severely fractured	
UC= 2910 psi										grades to moderately fractured	
Boring terminated at 31 feet											
Date Started: January 5, 2022		Water Level: Not Encountered									
Date Completed: January 6, 2022		Drill Rig: CME-75DG2									
Logged By: B. Aiu		Drilling Method: 4" Solid-Stem Auger & PQ Coring									
Total Depth: 31 feet		Driving Energy: 140 lb. wt., 30 in. drop									
Work Order: 7341-00											

DESIGNED BY	DATE
CHECKED BY	
QUANTITIES BY	
TRACED BY	
NOTED BY	
DATE	

DRAWING NAME: A:\DRAWINGS\DRAWINGS\WORKING\7341-00\INTERSTATE_ROUTE_H-1_L_&_H201_SIGN_UPGRADE\7341-00SHEETBORINGLOGS.DWG PLOT TIME: 09-30-22, 8:45 AM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Gerald Y. Seki* 04/2024
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

BORING LOGS

INTERSTATE ROUTE H-1 AND H-201
 DESTINATION SIGN UPGRADE/REPLACEMENT, PHASE 3
 FAP NO. NH-0300(144)

Scale: None Date: September 2022

SHEET No. G-5 OF 5 SHEETS