

# STRUCTURAL GENERAL NOTES

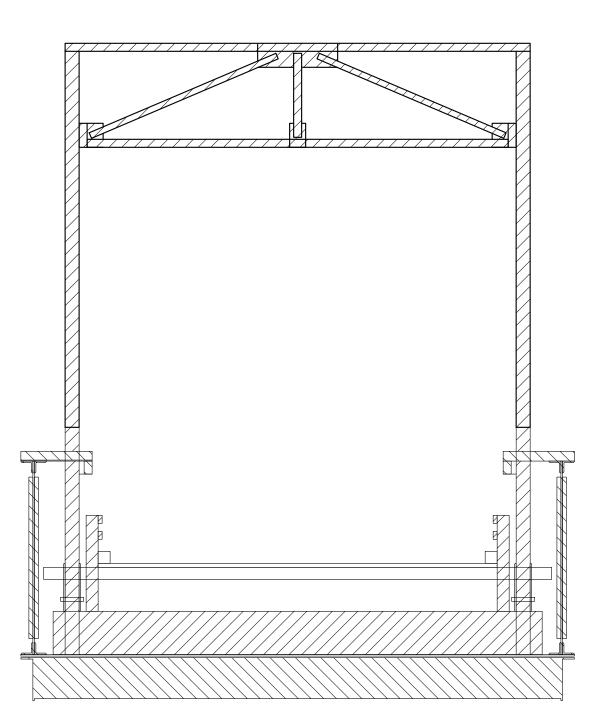
## FED. ROAD DIST. NO. FED. AID PROJ. NO. HAWAII | HAW. | BR-0560(016) | 2022 | 21

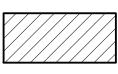
### Construction Notes (Cont.):

- E. The total weight of the work platform (including Dead and Live Load) shall not exceed 15,000 lbs when factored using AASHTO LRFD unless determined by the Contractor's Engineer that it may be increased.
- F. The hanging work platform beneath the bridge shall not extend more then 20'-0" across the river at any given time. The Contractor shall take this into consideration during bidding. The Contractor shall be aware that the freeboard height between the river's Ordinary High Water mark and the soffit of the bridge is limited and river elevations fluctuate.
- G. The Contractor shall field verify all existing conditions, dimensions, and member sizes prior to fabrication of any bridge elements. The Engineer shall be notified immediately regarding any change of conditions or discrepancies between the plans and field investigation.
- H. The structural repair details shown on the plans are based on the Engineer's findings during the latest site investigation. If existing bridge members that are to remain, have significant deterioration or are so corroded such that they cannot be bolted or welded to, the Engineer shall be notified immediately. Revisions to the repair details or additional repairs that need to be made shall be paid for under Item 501.2000 - Additional Structural Steel Repairs.
- The Contractor shall coordinate all traffic control and lane closure requirements with the State DOT Highways Division. The Contractor shall notify the State a minimum of 11 days prior to any requests for traffic control or lane closures. Lane closures may be scheduled on weekdays from 9:00 PM to 4:00 AM.
- The Contractor shall be responsible for retaining the services of a Quality Control inspector to oversee all high strength bolting and welding inspection, including any non-destructive testing. Cost shall be incidental to the repair work. Reports shall be submitted to the Engineer for review and approval. All deficient work shall be corrected with no increase in cost to the State.
- K. The Contractor may obtain for review available As-Built drawings of the existing structure from the HDOT Highways Division, Design Branch located at Kakuhihewa Building, Room 609, 601 Kamokila Boulevard, Kapolei, HI 96707.

### 5. <u>Painting:</u>

- A. See Special Provisions Section 697 for all coating requirements.
- B. The Contractor shall phase the timber decking work with the painting work such that the topside of all W21X93 transom beams are properly cleaned and coated.
- C. The specific coating requirements for the different areas of the bridge shall be as shown below:

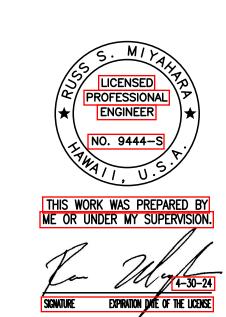




See Special Provisions Section 697 -Pratt Truss Coating Requirements



See Special Provisions Section 697 Warren Truss Coating Requirements



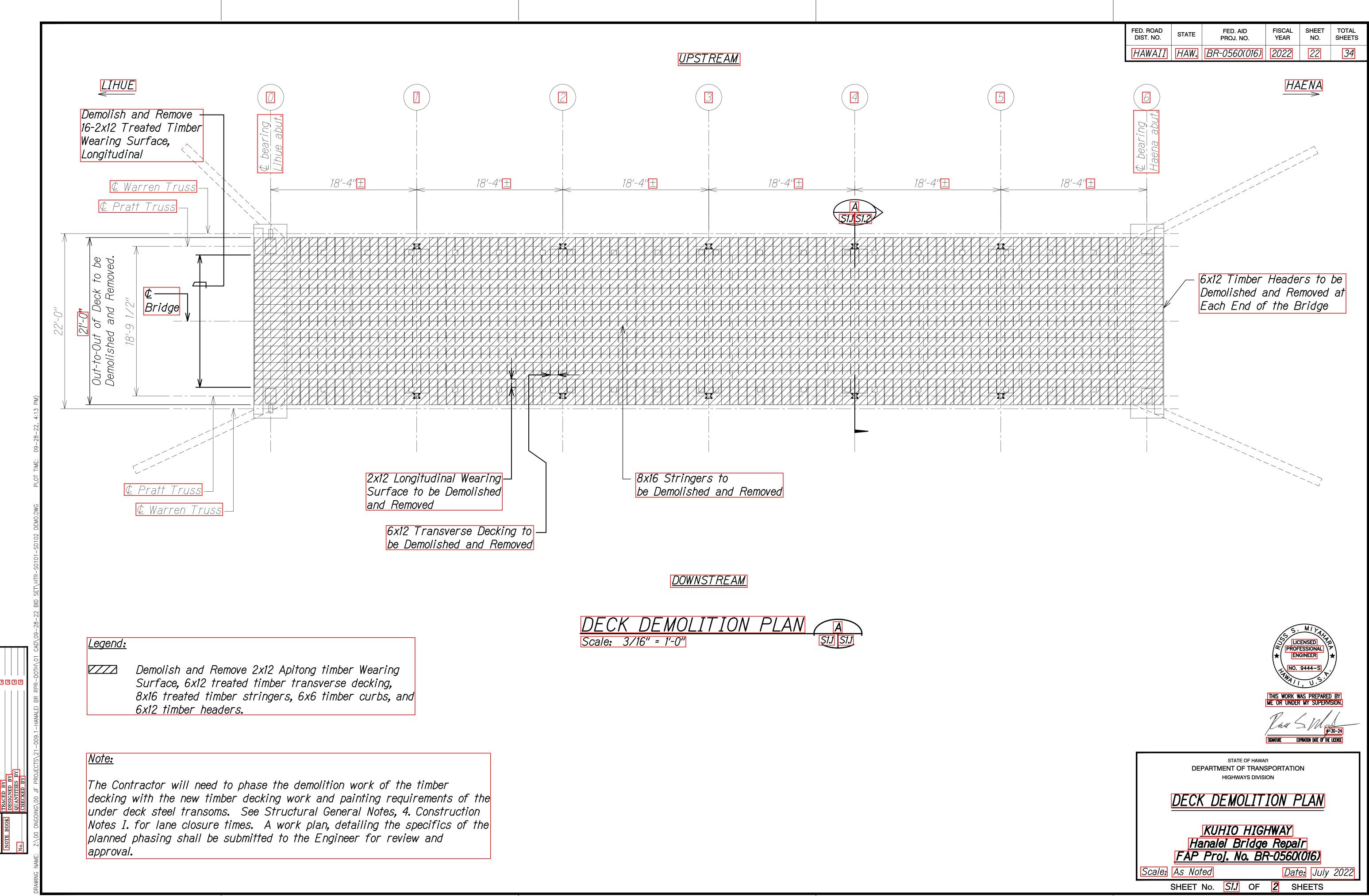
STATE OF HAWAI'I HIGHWAYS DIVISION

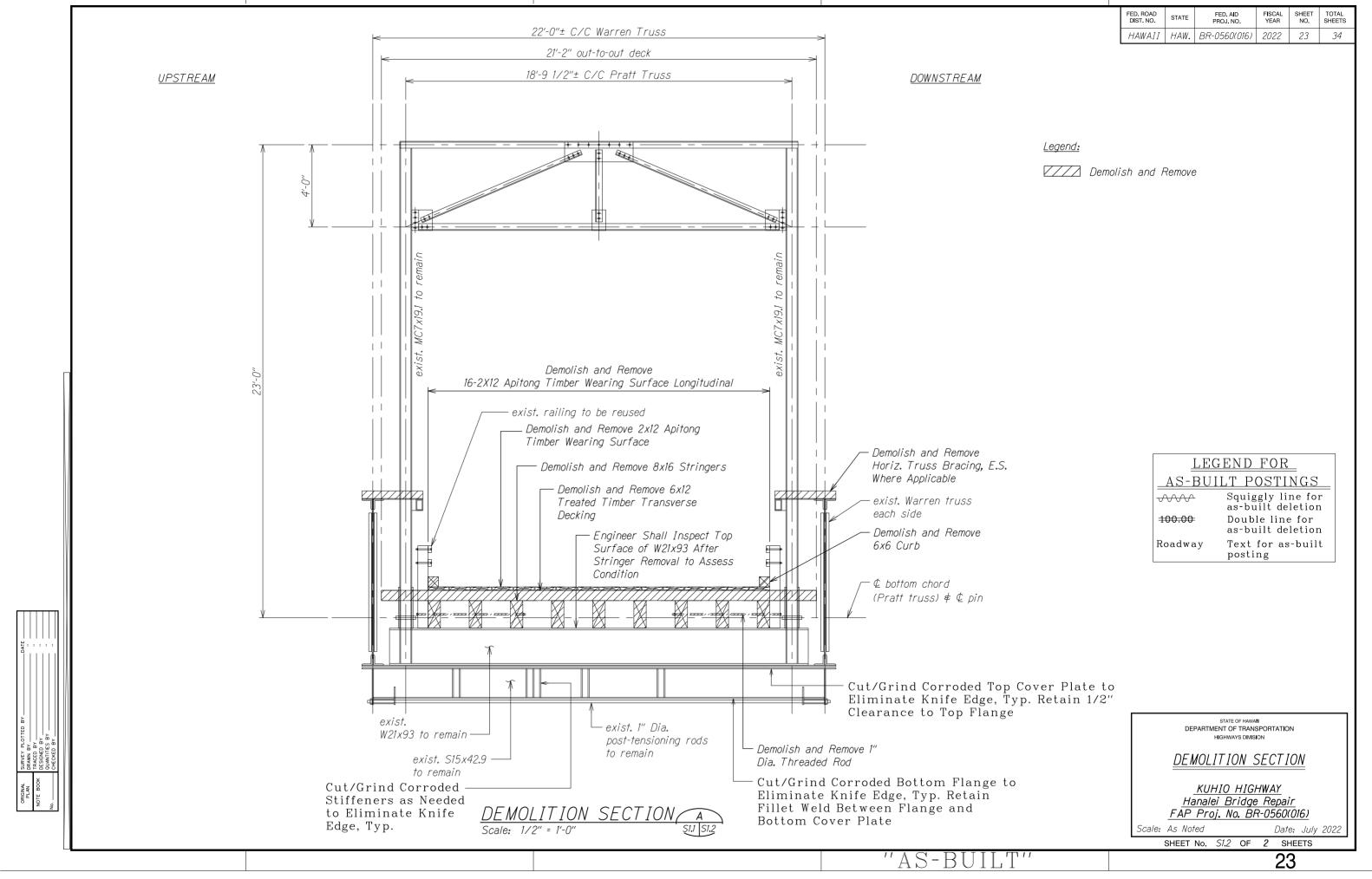
STRUCTURAL GENERAL NOTES

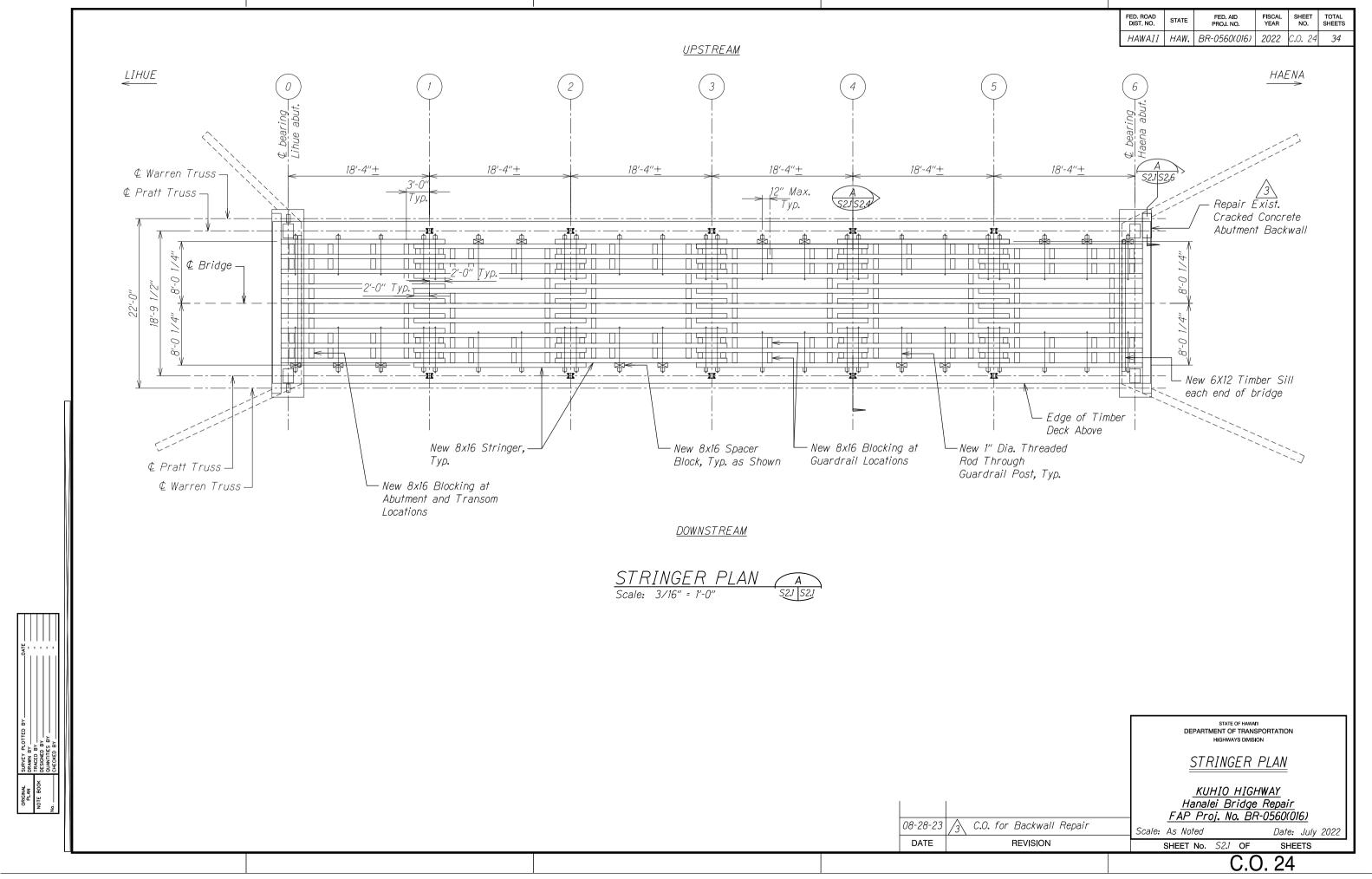
KUHIO HIGHWAY Hanalei Bridge Repair FAP Proj. No. BR-0560(016)

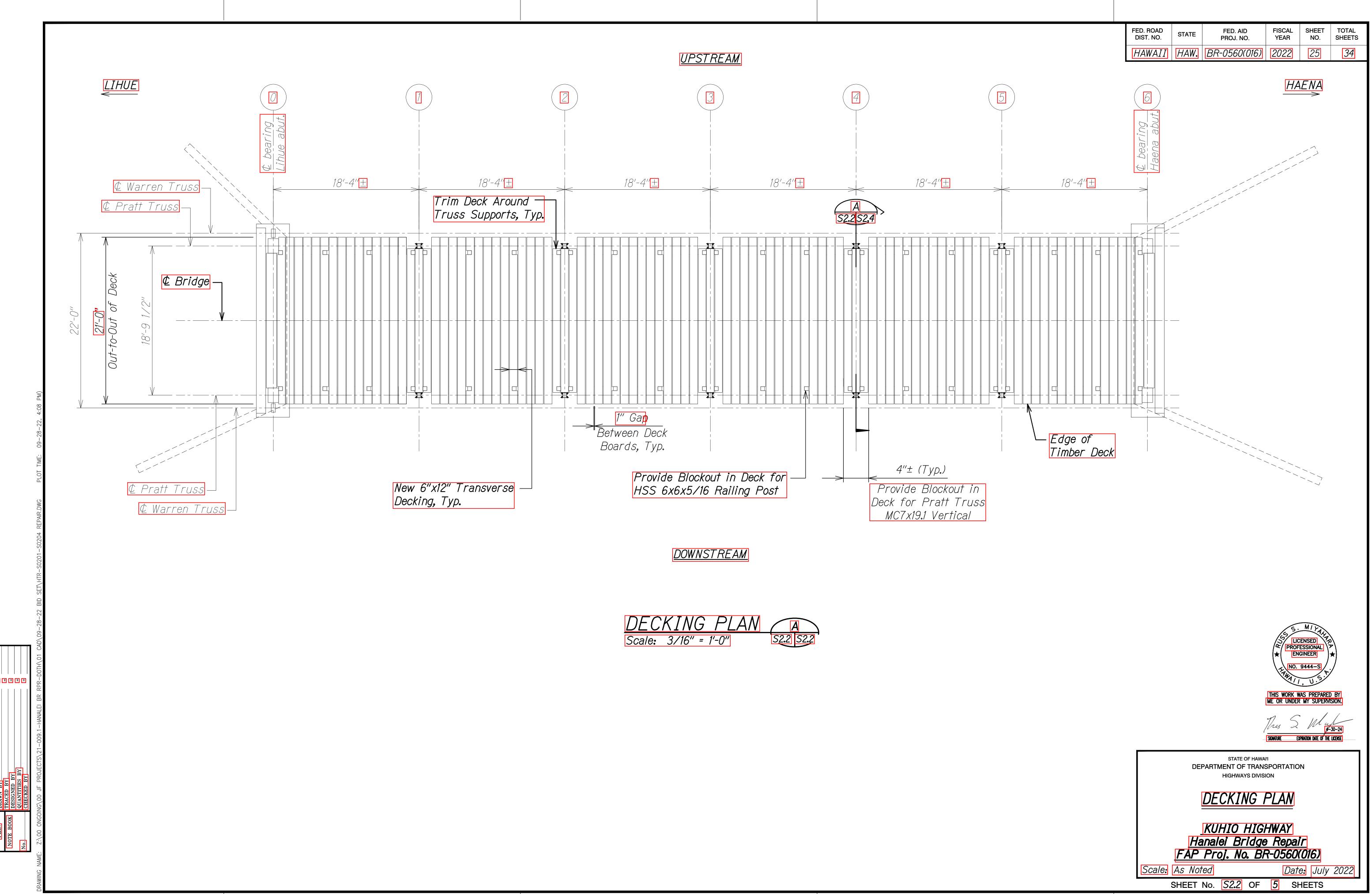
Date: July 2022 SHEET No. S0.2 OF 2 SHEETS

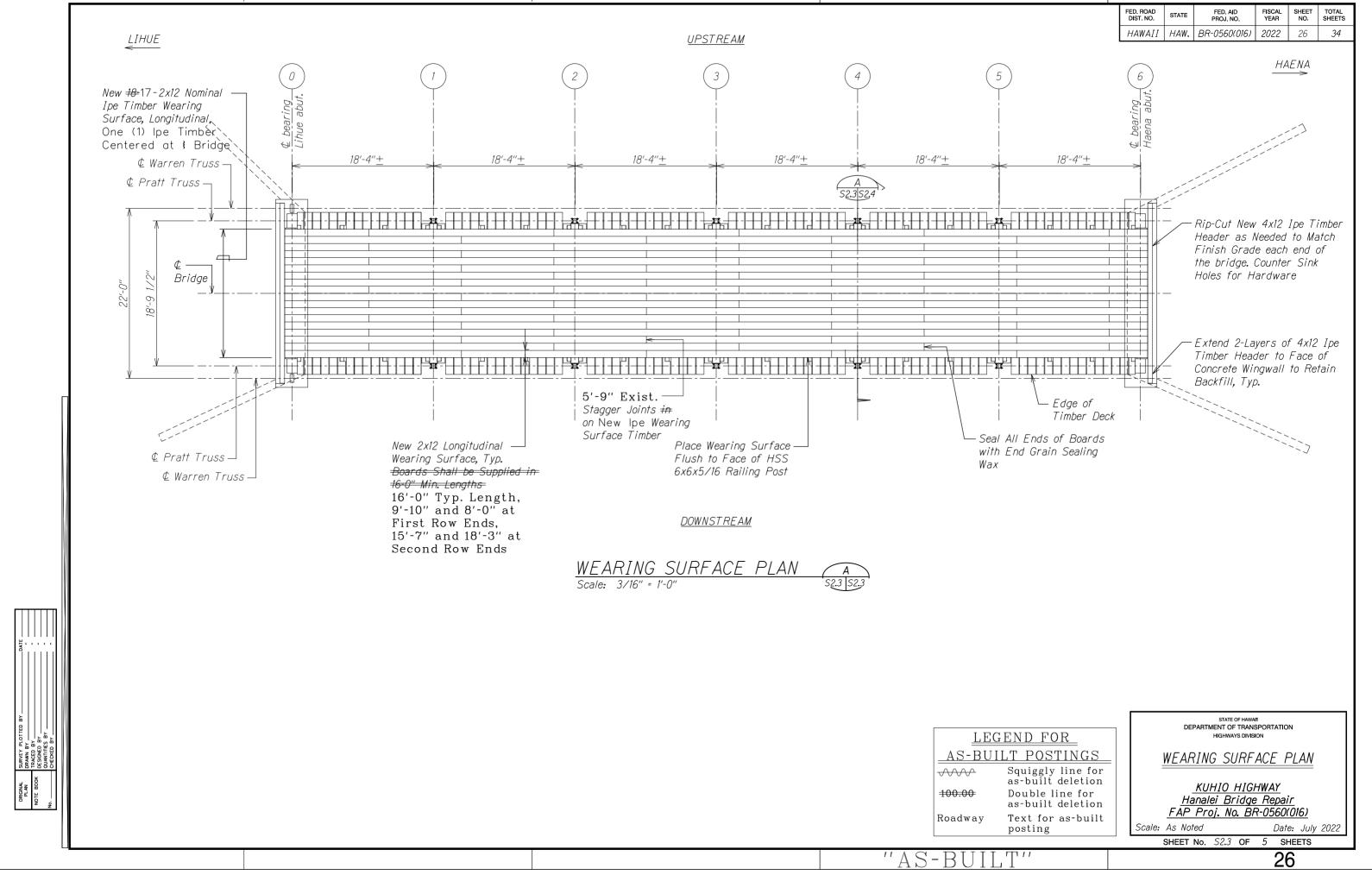


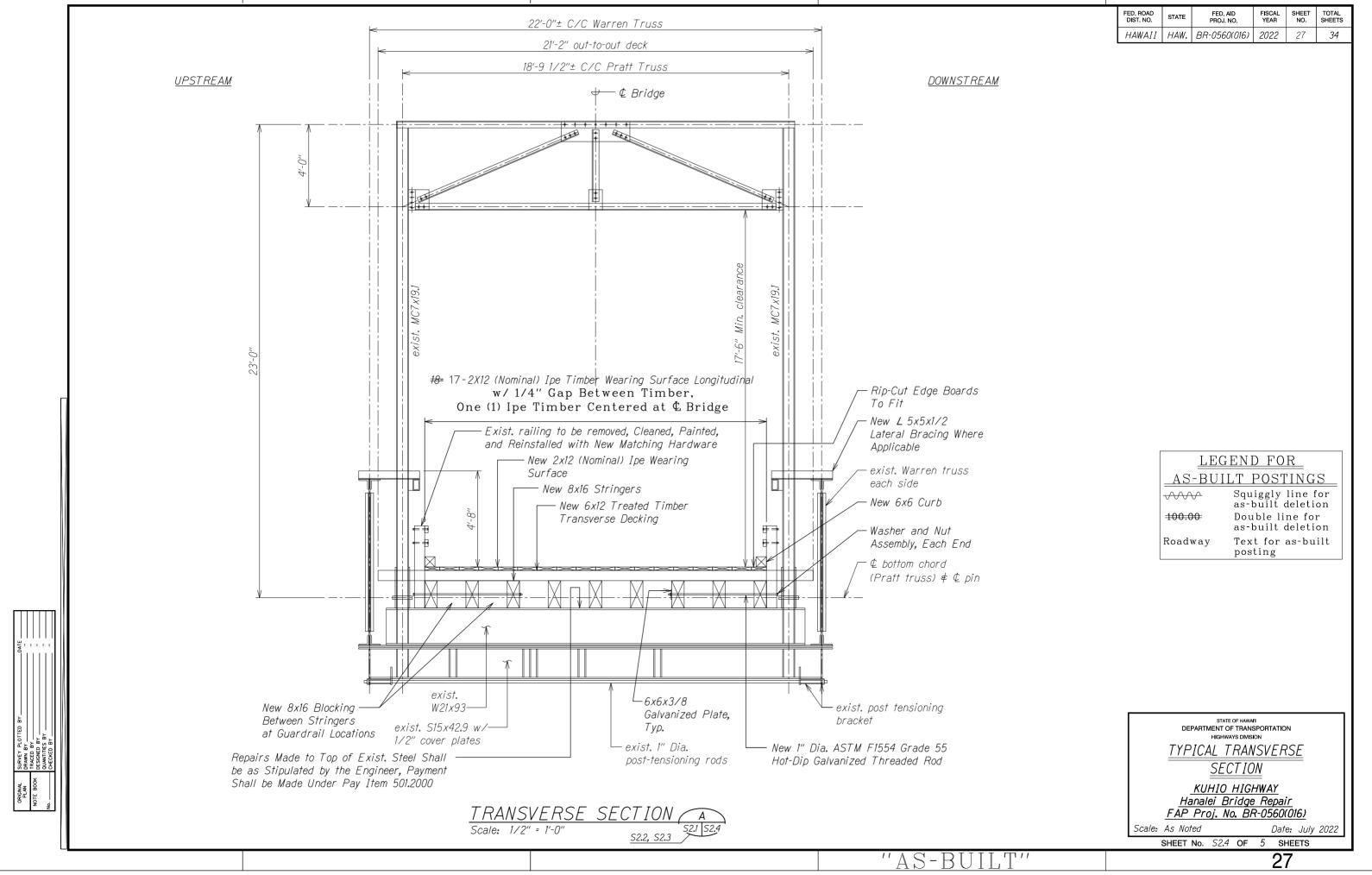


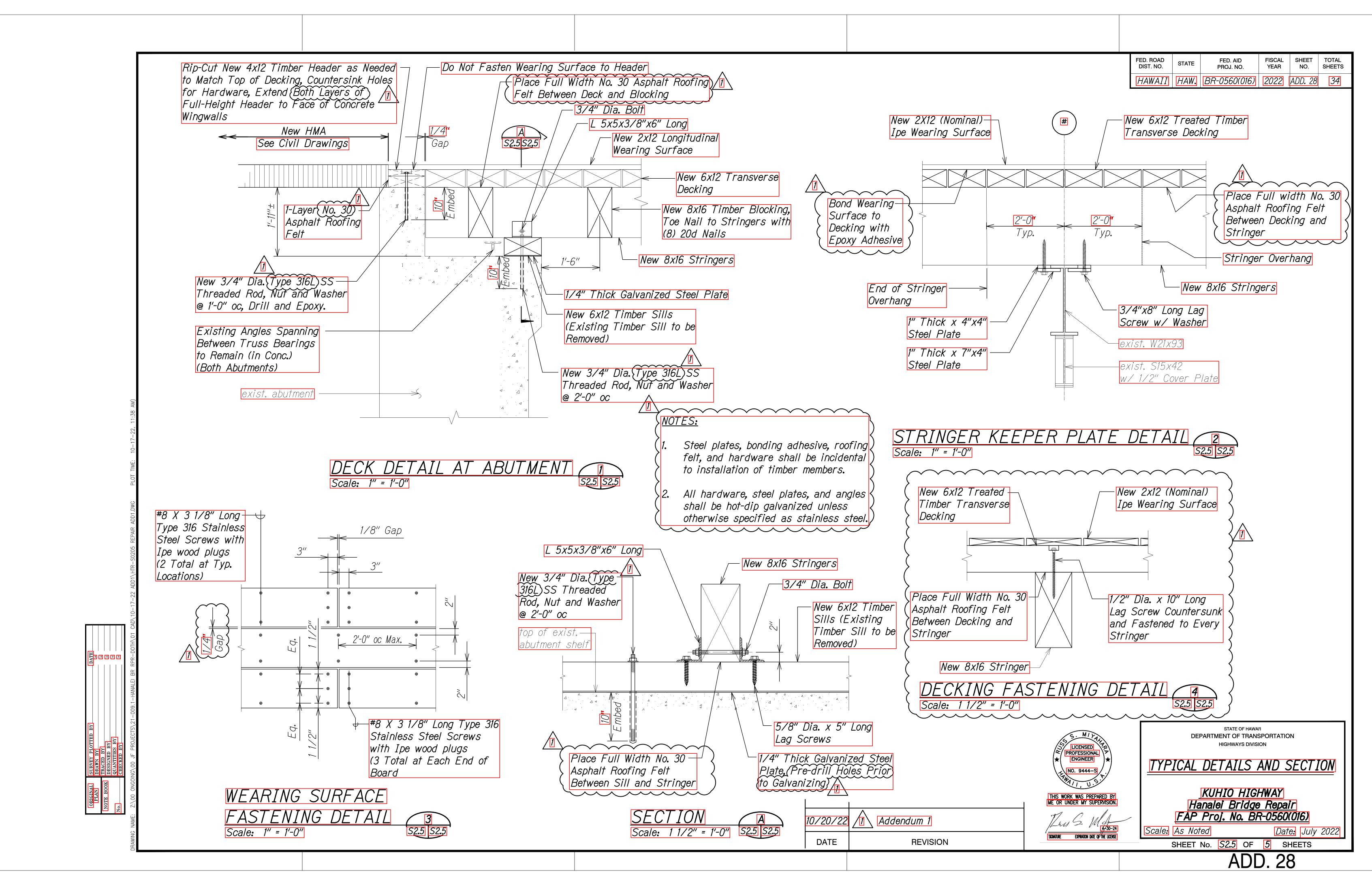


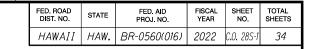


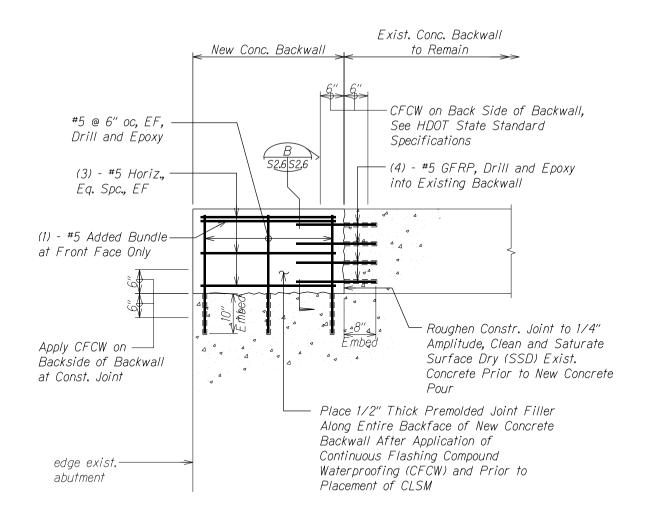


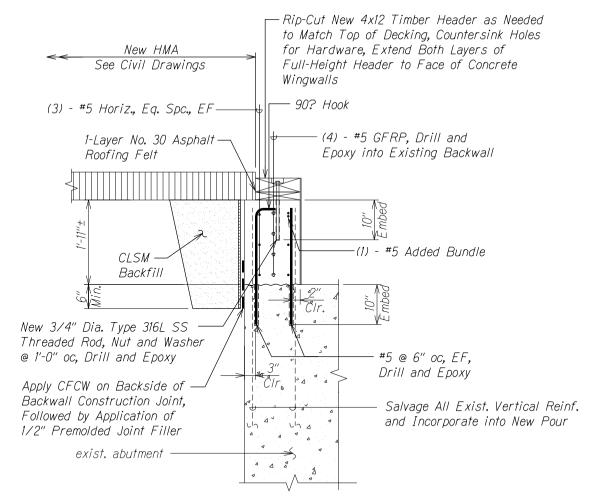














#### NOTES:

- 1. Salvage all existing vertical reinforcing and incorporate into new pour.
- 2. Excavation of backfill material behind backwall shall be done carefully so as not to disturb nearby quardrail
- 3. Concrete for backwall repairs shall have a maximum w/c ratio of 0.40 and a maximum cementitious material content of 670 lbs/cyd of concrete. Concrete shall also contain 24 fluid ounces of Cortec MCI 2005 NS migrating amine carboxylate water-based corrosion inhibitor per cyd of concrete, 128 ounces of <del>Masterlife</del> SRA 20 GCP Eclipse 4500 shrinkage reducing admixture per cyd of concrete, and 15 lbs of Cemfil Anti-Crak 67/36 alkali resistant glass fibers per cyd of concrete.

#### LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion **₩** 100.00 Double line for as-built deletion

Roadway Text for as-built posting

New Sheet - C.O. for Backwall Repair 08-28-23 DATE REVISION

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION

BACKWALL REPAIR SECTIONS

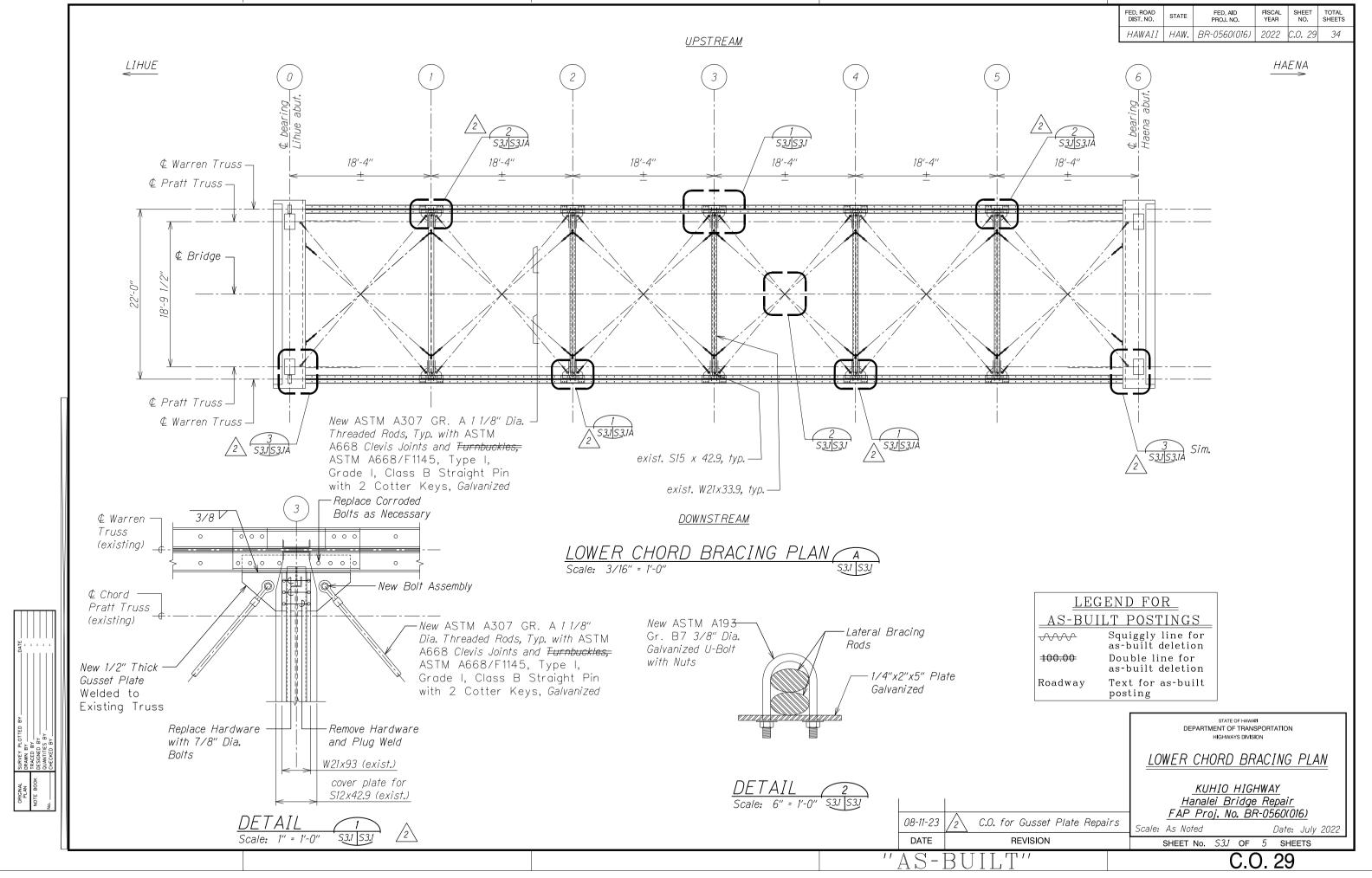
KUHIO HIGHWAY Hanalei Bridge Repair FAP Proj. No. BR-0560(016)

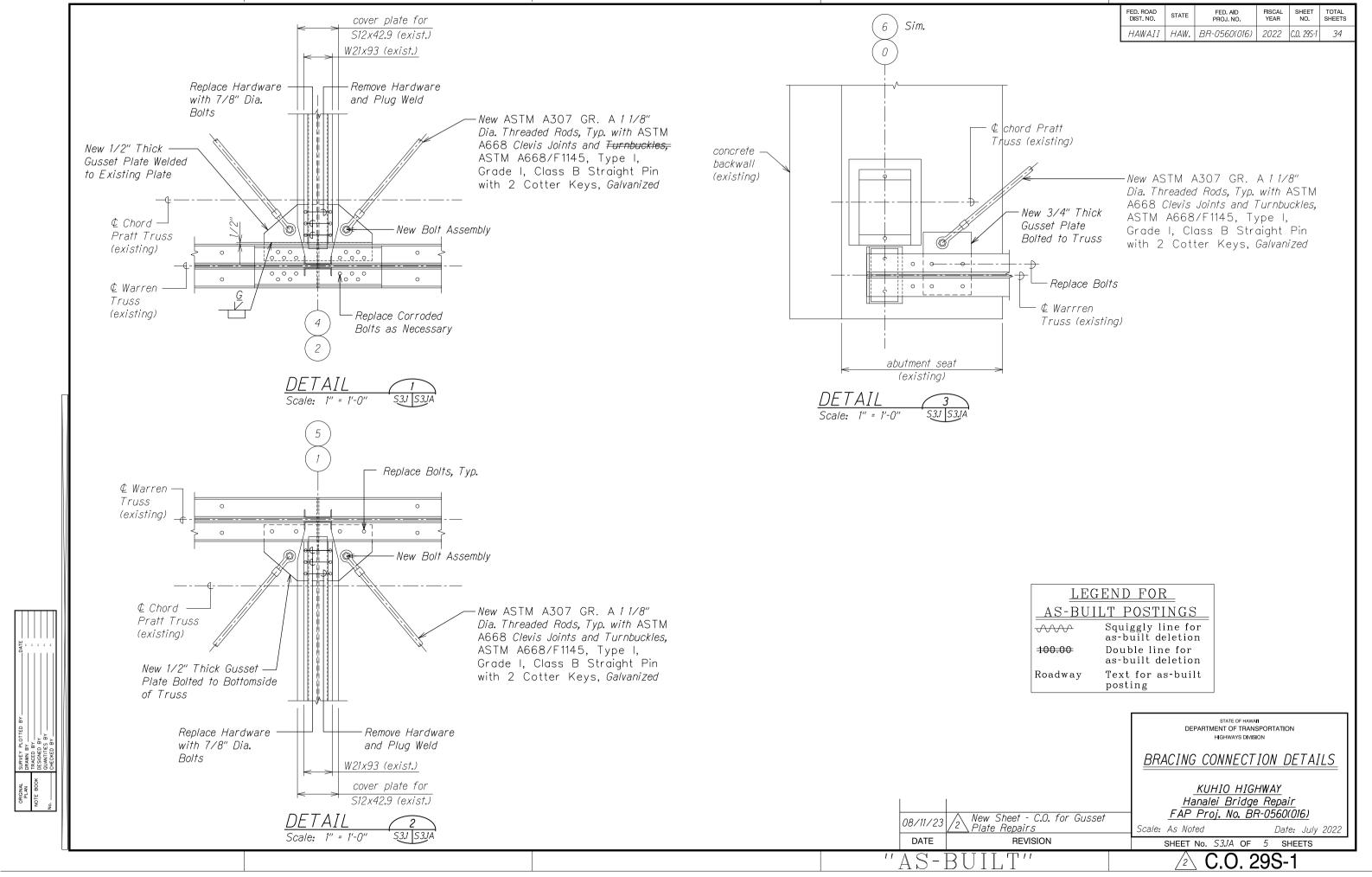
Scale: As Noted

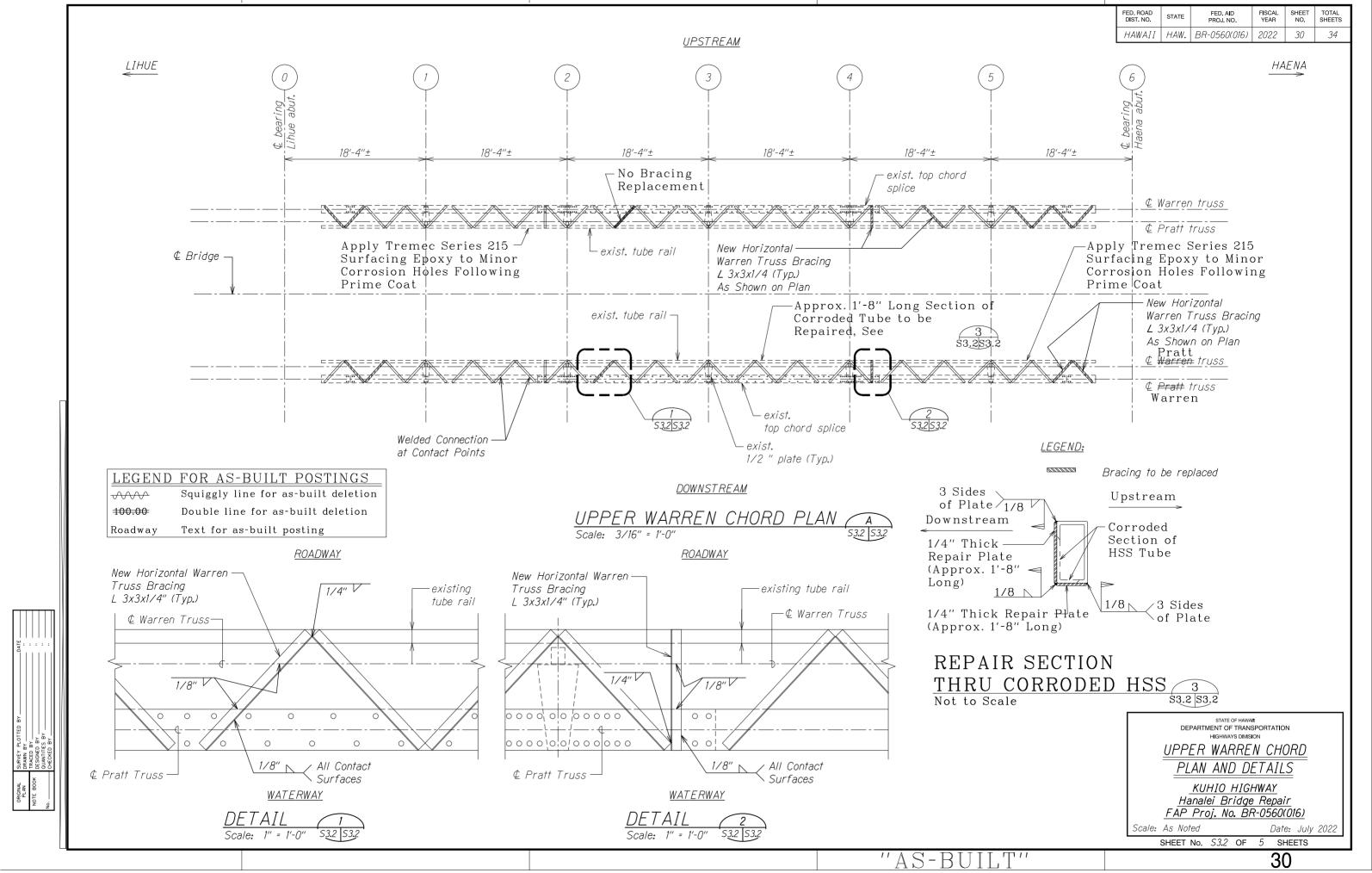
Date: July 2022 SHEET No. S2.6 OF 5 SHEETS

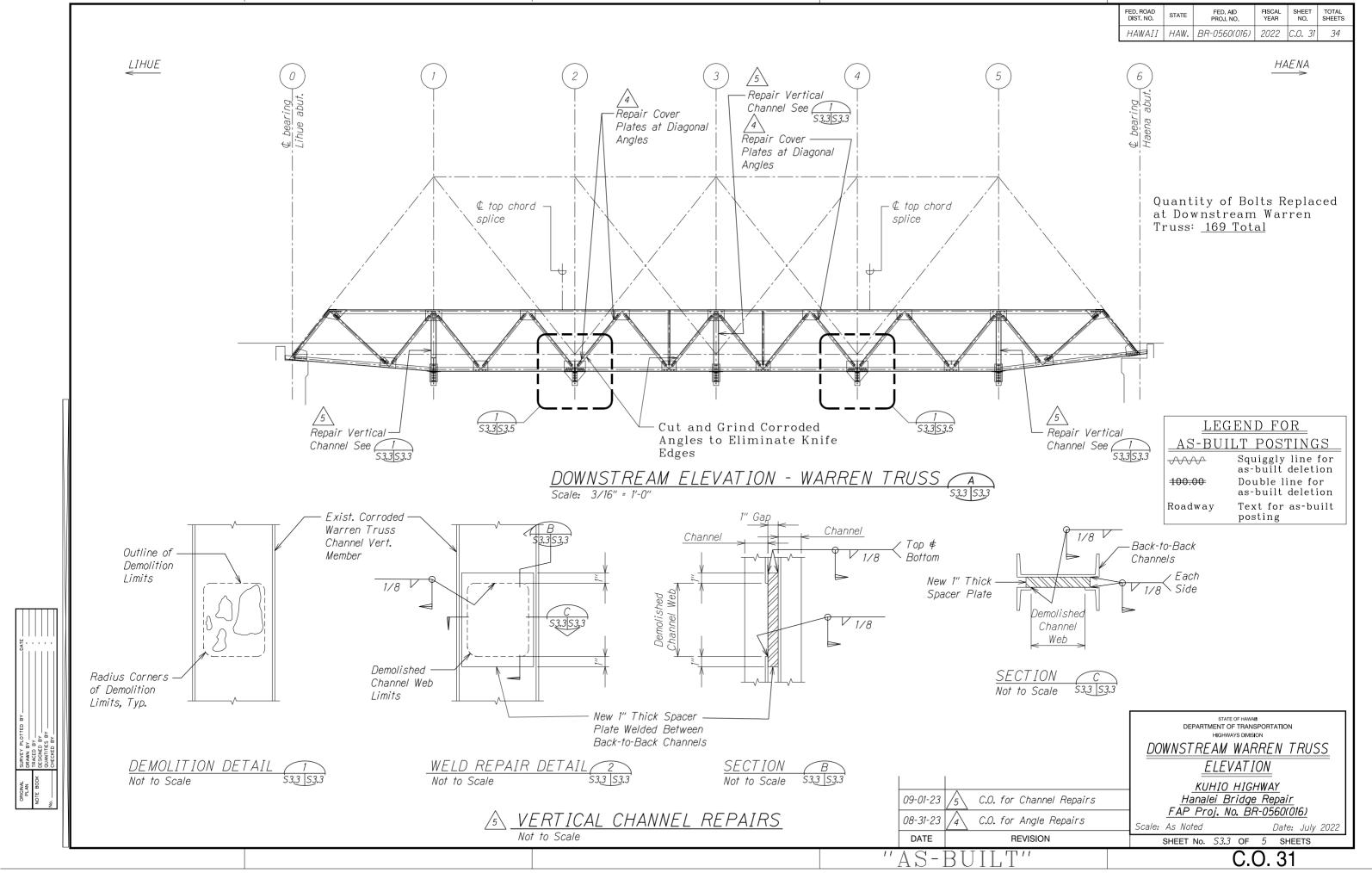
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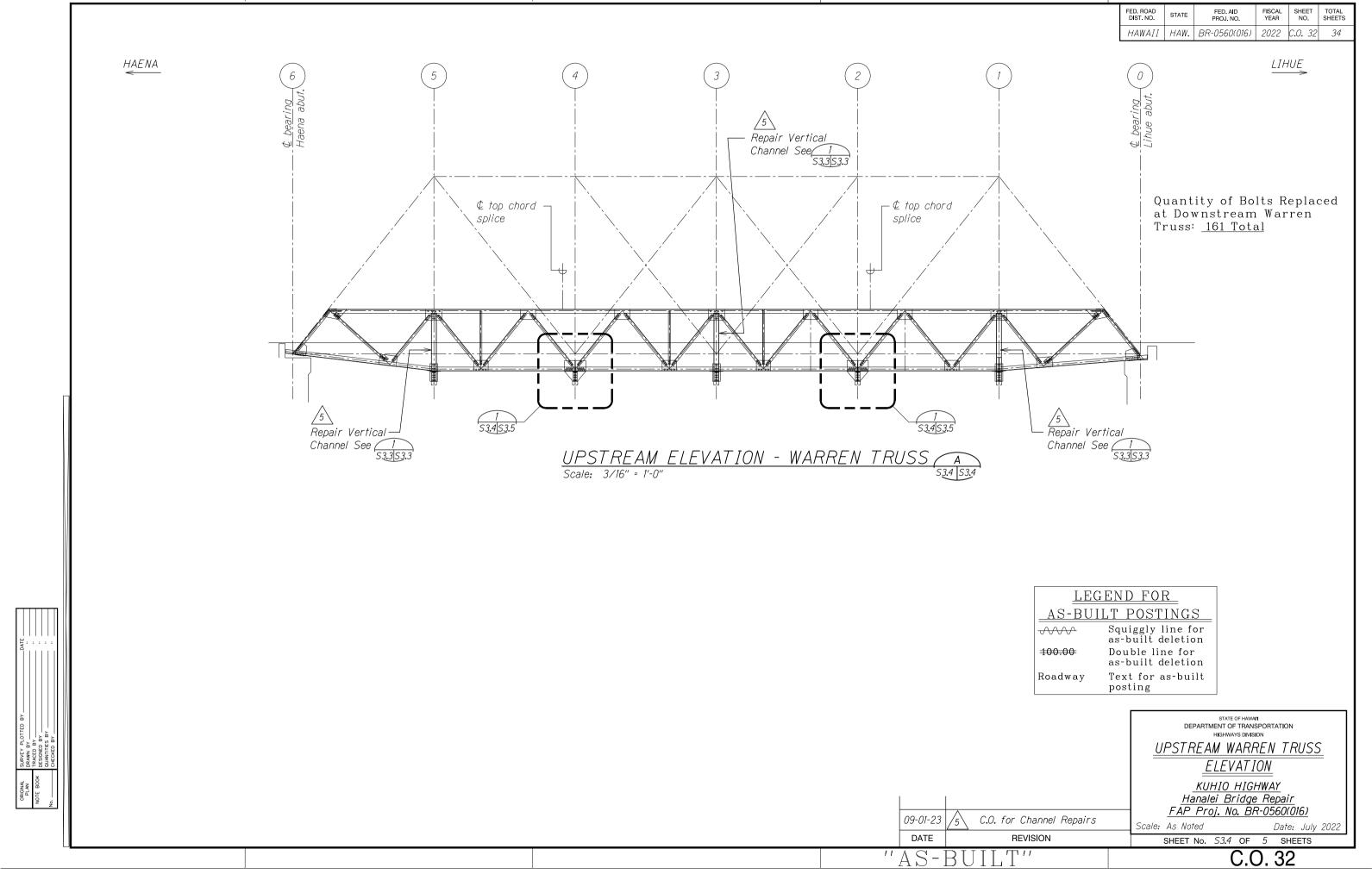
C.O. 28S-1

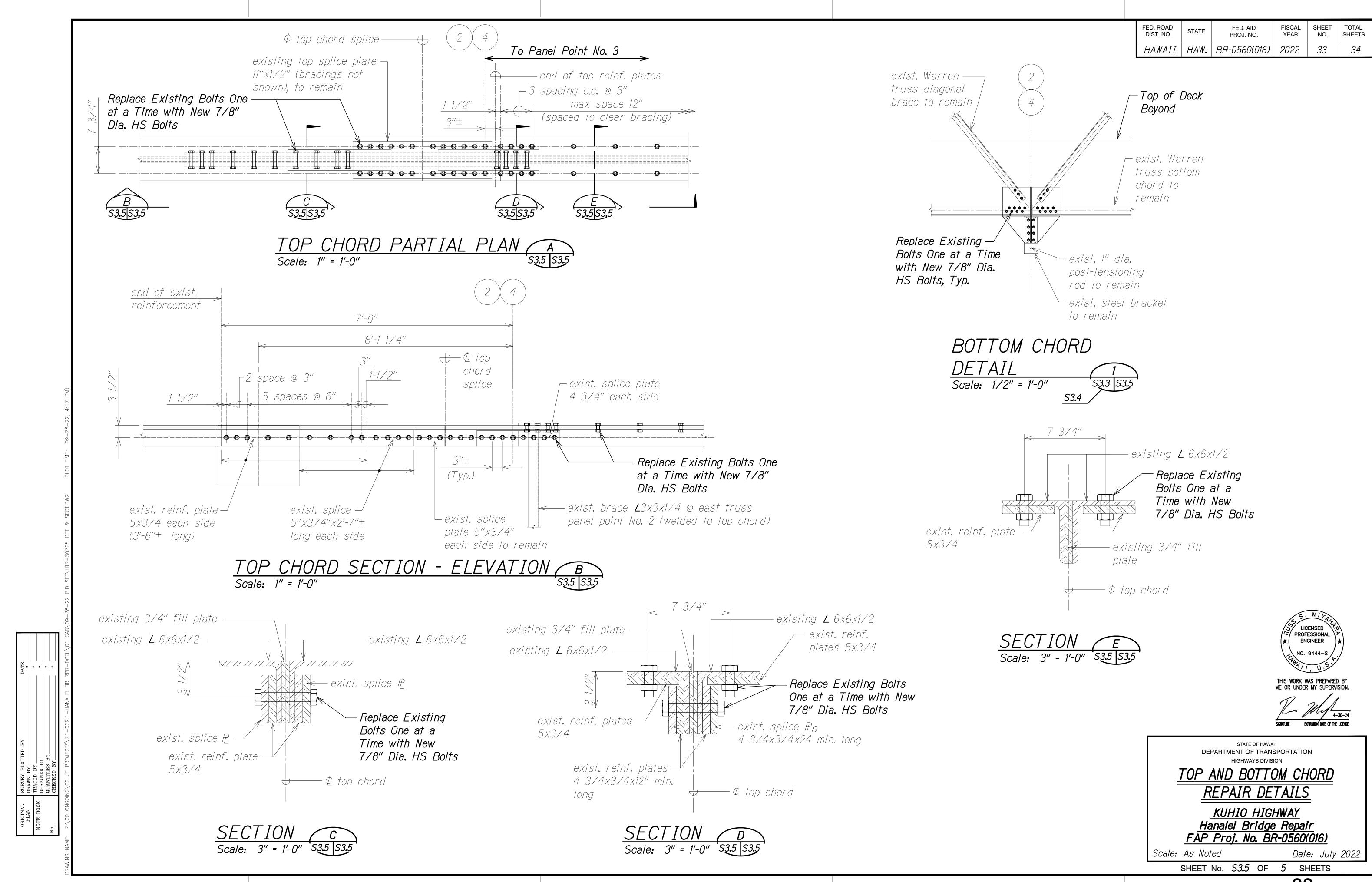


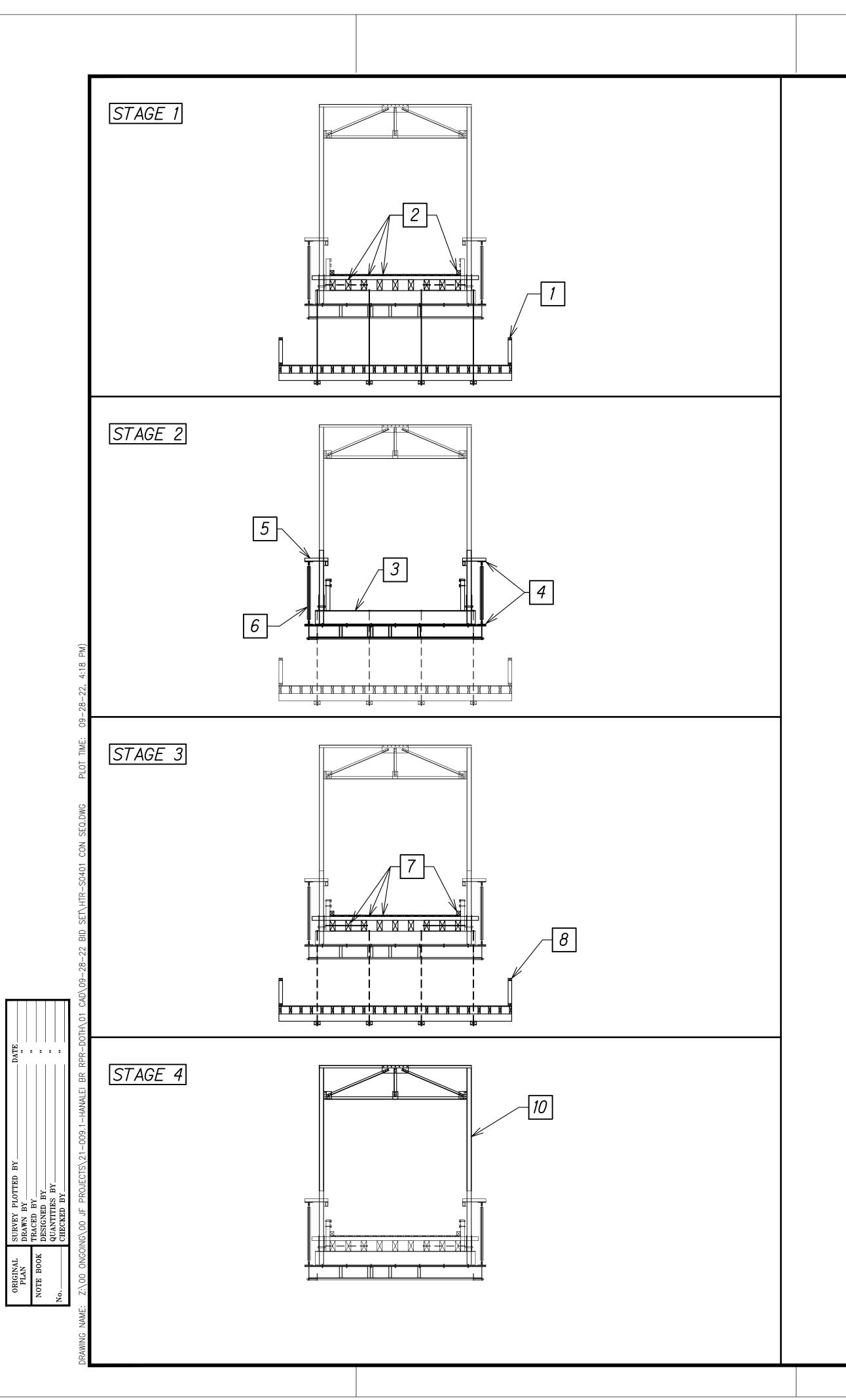












FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-0560(016)	2022	34	34

## CONSTRUCTION STAGE 1

- 1 Install work platform and BMP containment.
- Demolish and remove timber stringers, blocking, decking, wearing surface, and curb.

# CONSTRUCTION STAGE 2

- Repair top of steel floorbeam, if necessary, following removal of timber stringers.
- Repair upper and lower chords of Warren Truss.
- [5] Replace horizontal bracing on top chord of Warren Truss.
- 6 Clean and paint lower section of bridge members.

## CONSTRUCTION STAGE 3

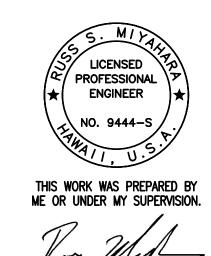
- 7 Install new timber stringers, blocking, decking, wearing surface, and curb.
- 8 Remove work platform.
- 9 Repeat steps 1 through 8 as needed until full bridge span is completed.

# CONSTRUCTION STAGE 4

[10] Paint bridge members above deck level.

## CONSTRUCTION SEQUENCE NOTE:

The Contractor shall submit a construction phasing plan detailing the order of operation of all activities. This includes phasing of deck demolition, deck replacement, and painting operations taking into account the limited lane closure times.



STATE OF HAWAI'I

DEPARTMENT OF TRANSPORTATIO

HIGHWAYS DIVISION

# CONSTRUCTION SEQUENCE

<u>KUHIO HIGHWAY</u> <u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)

Scale: As Noted

Date: July 2022

SHEET No. S4.1 OF 1 SHEETS