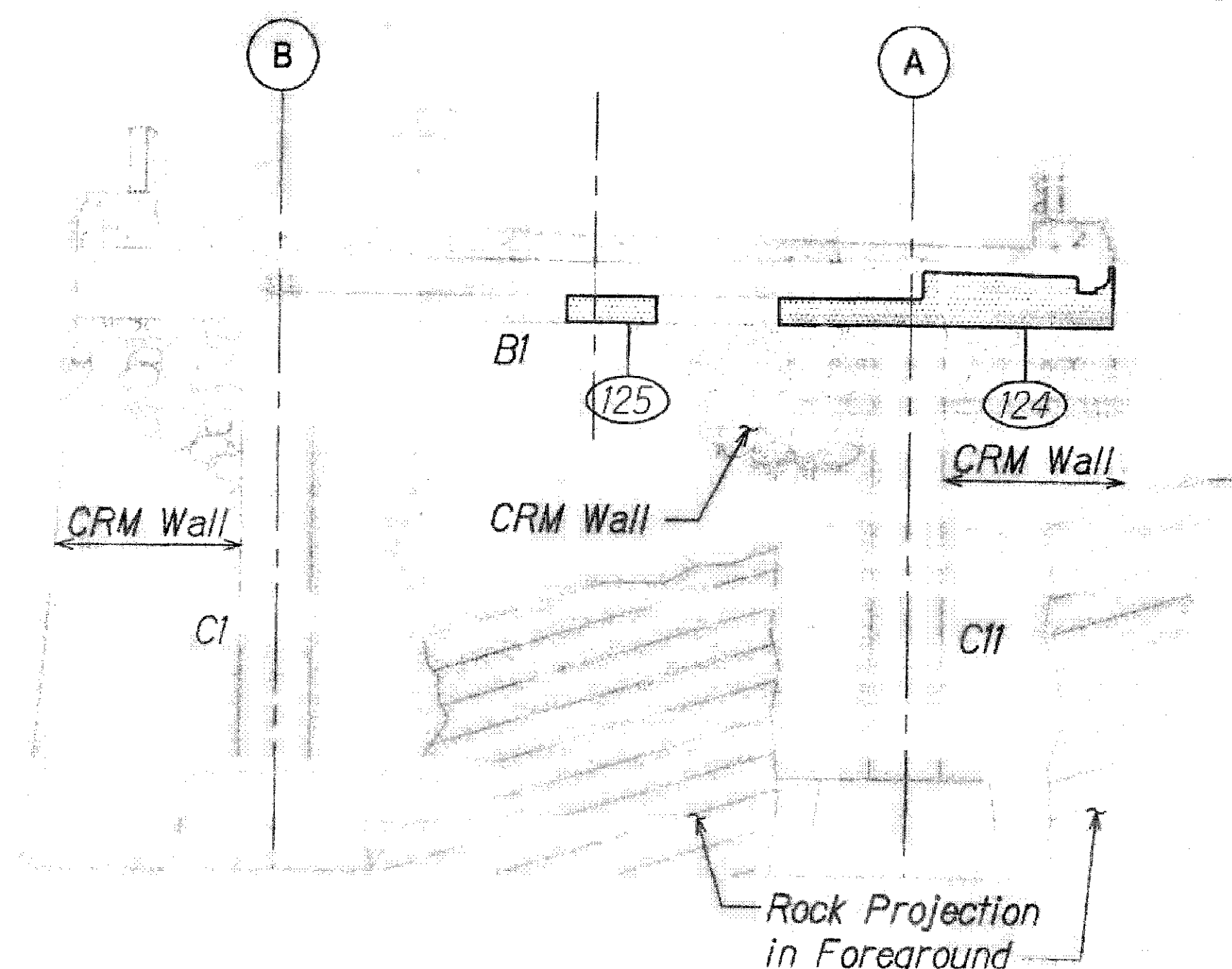
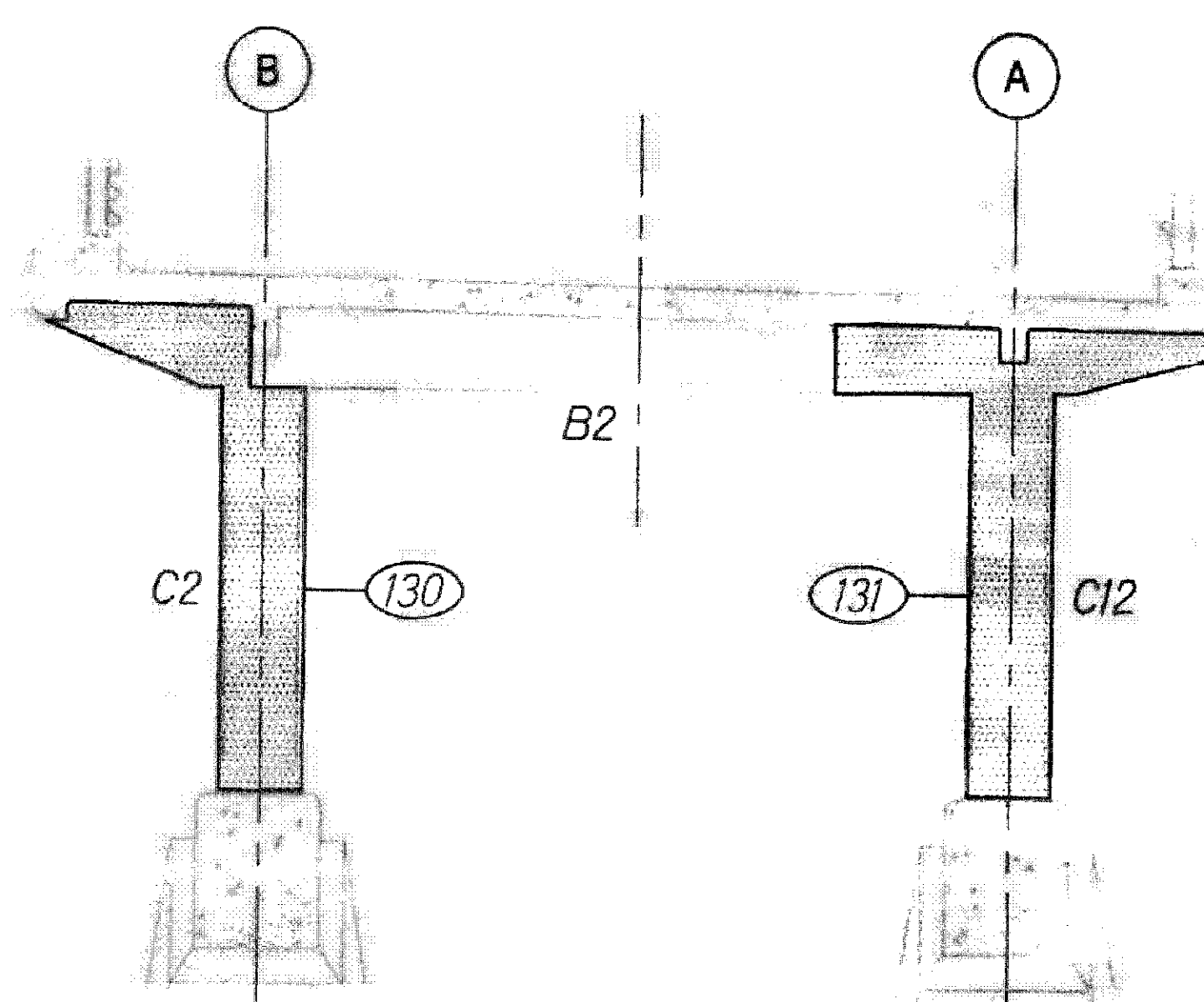


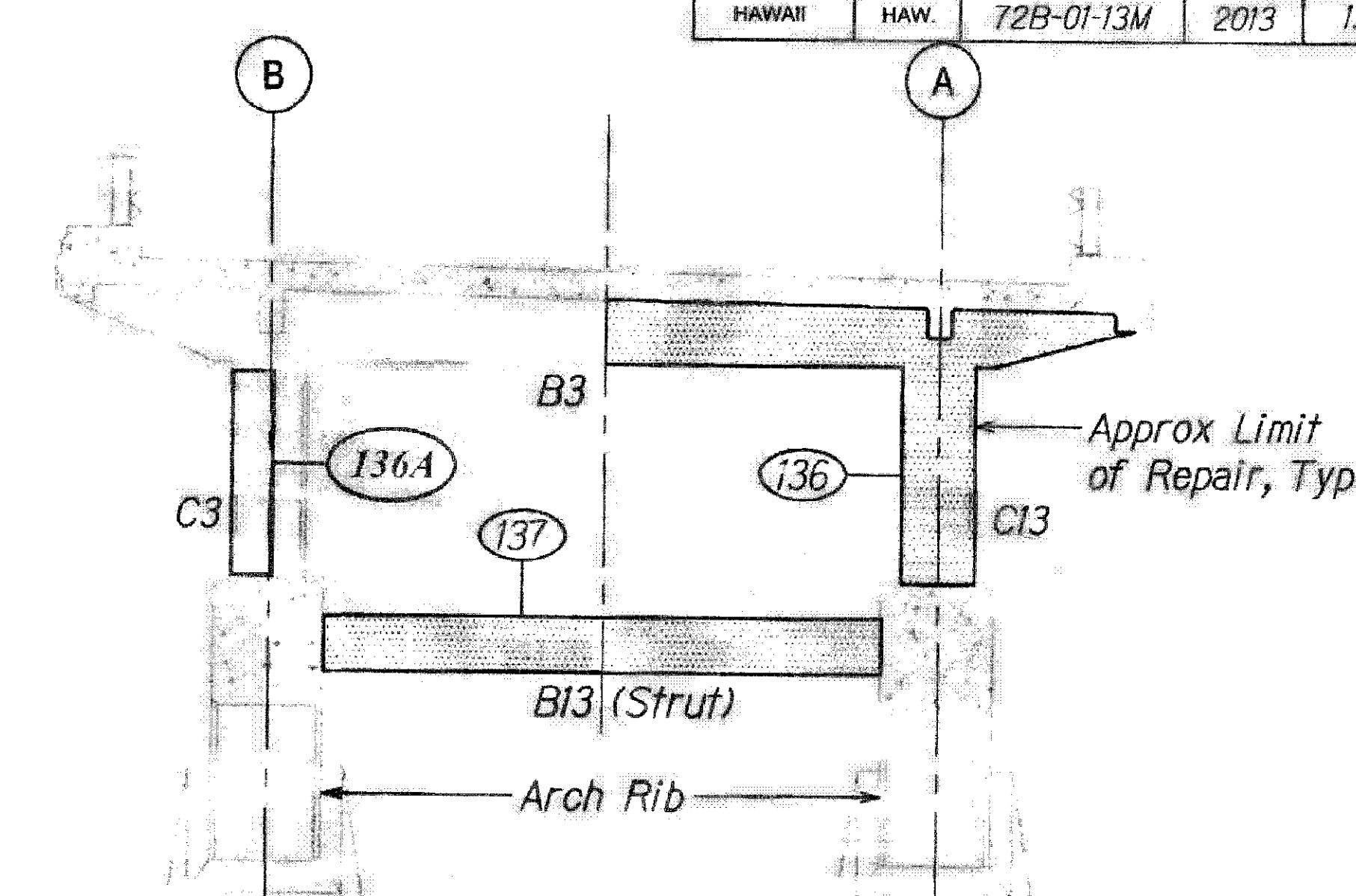
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	13	34



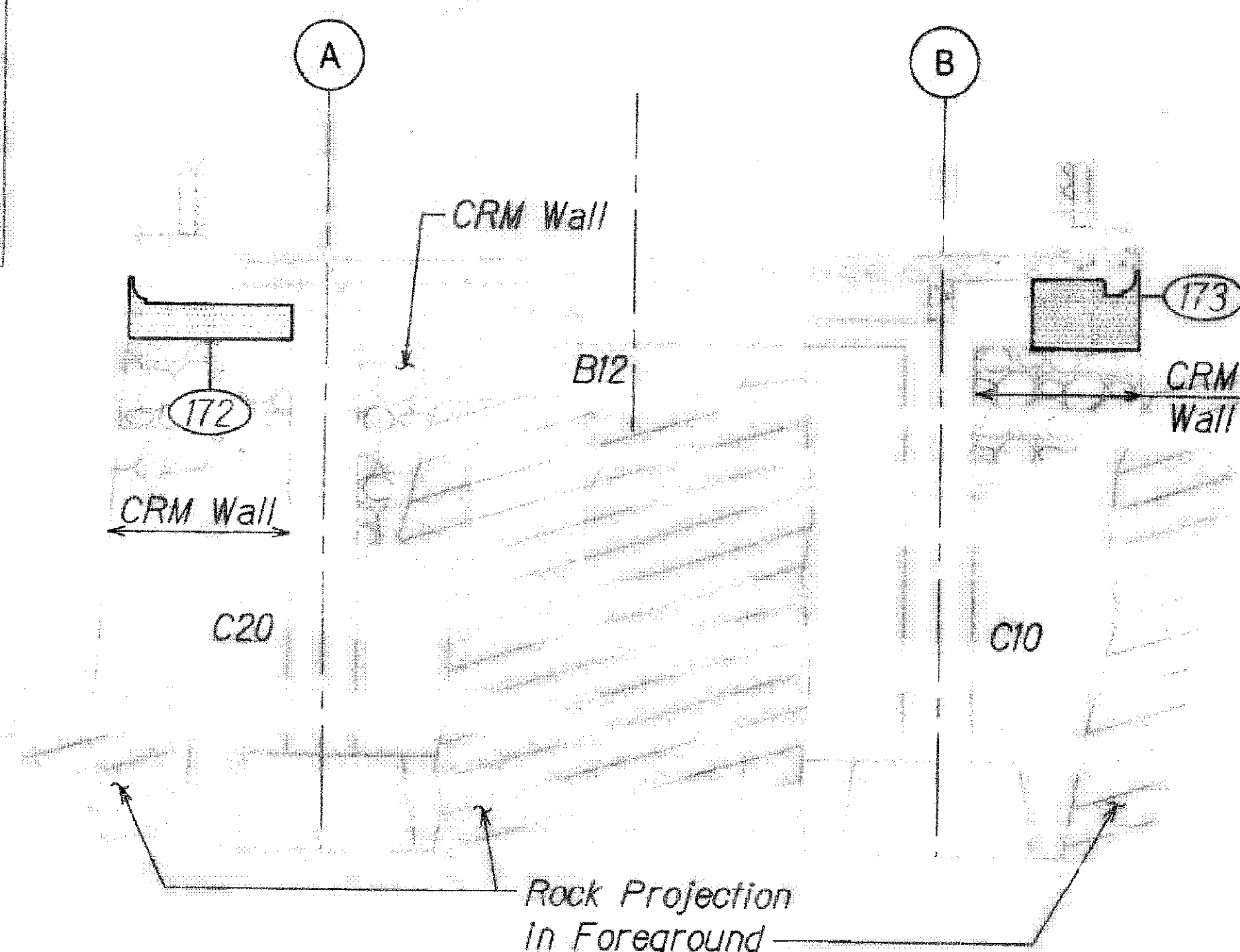
HONOLULU ABUTMENT (BENT 1)



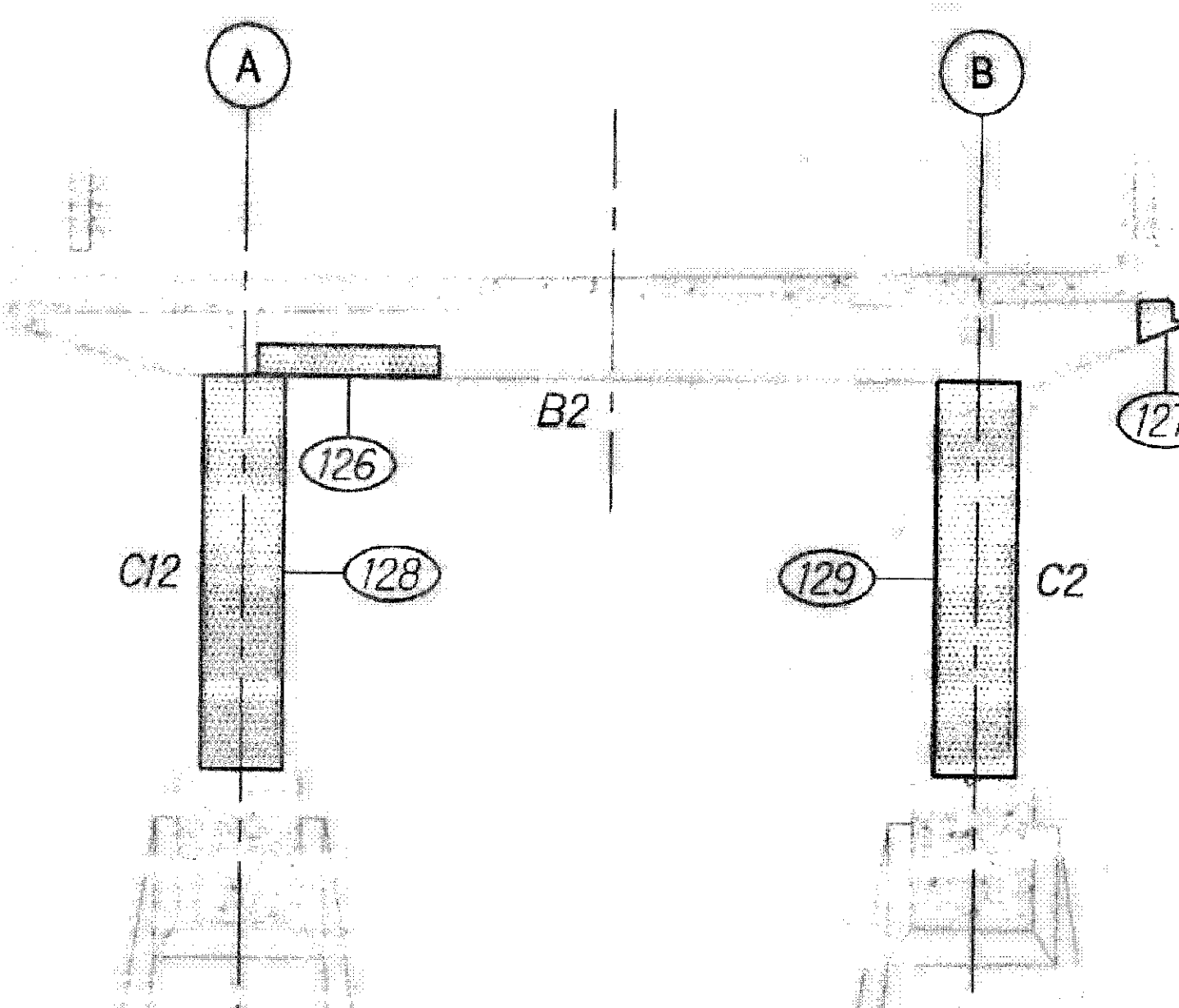
WAIMANALO FACE



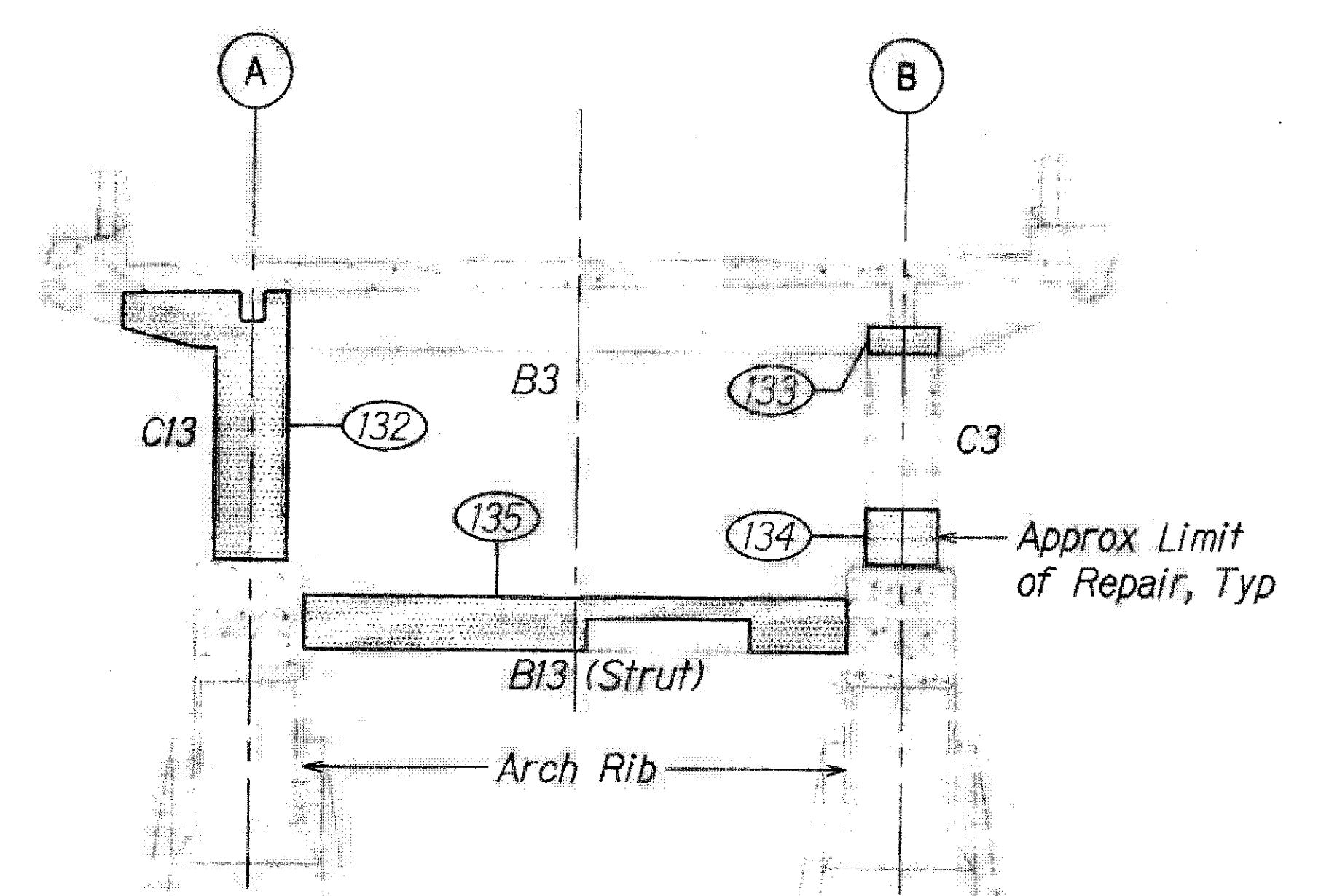
WAIMANALO FACE



WAIMANALO ABUTMENT (BENT 12)



HONOLULU FACE



HONOLULU FACE

1 ELEVATIONS - ABUTMENTS
Scale: 1/4" = 1'-0"

2 ELEVATIONS - BENT 2
Scale: 1/4" = 1'-0"

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

NOTES:

- Existing utility pipe along makai side of bridge not shown for clarity. See sheet S-8.

REFERENCE DRAWINGS:

- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

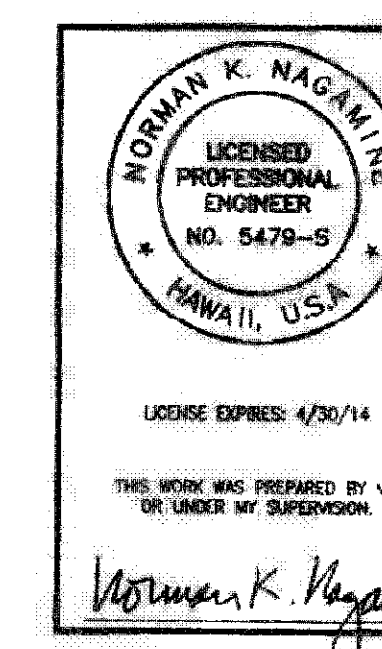
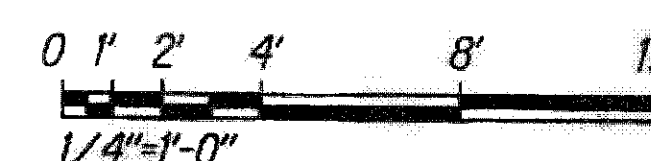
LEGEND

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Text for as-built posting

GRAPHIC SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT ELEVATIONS

KALANIANA'OLE HIGHWAY
Emergency Repairs of Ihiihilauea Bridge
Project No. 72B-01-13M

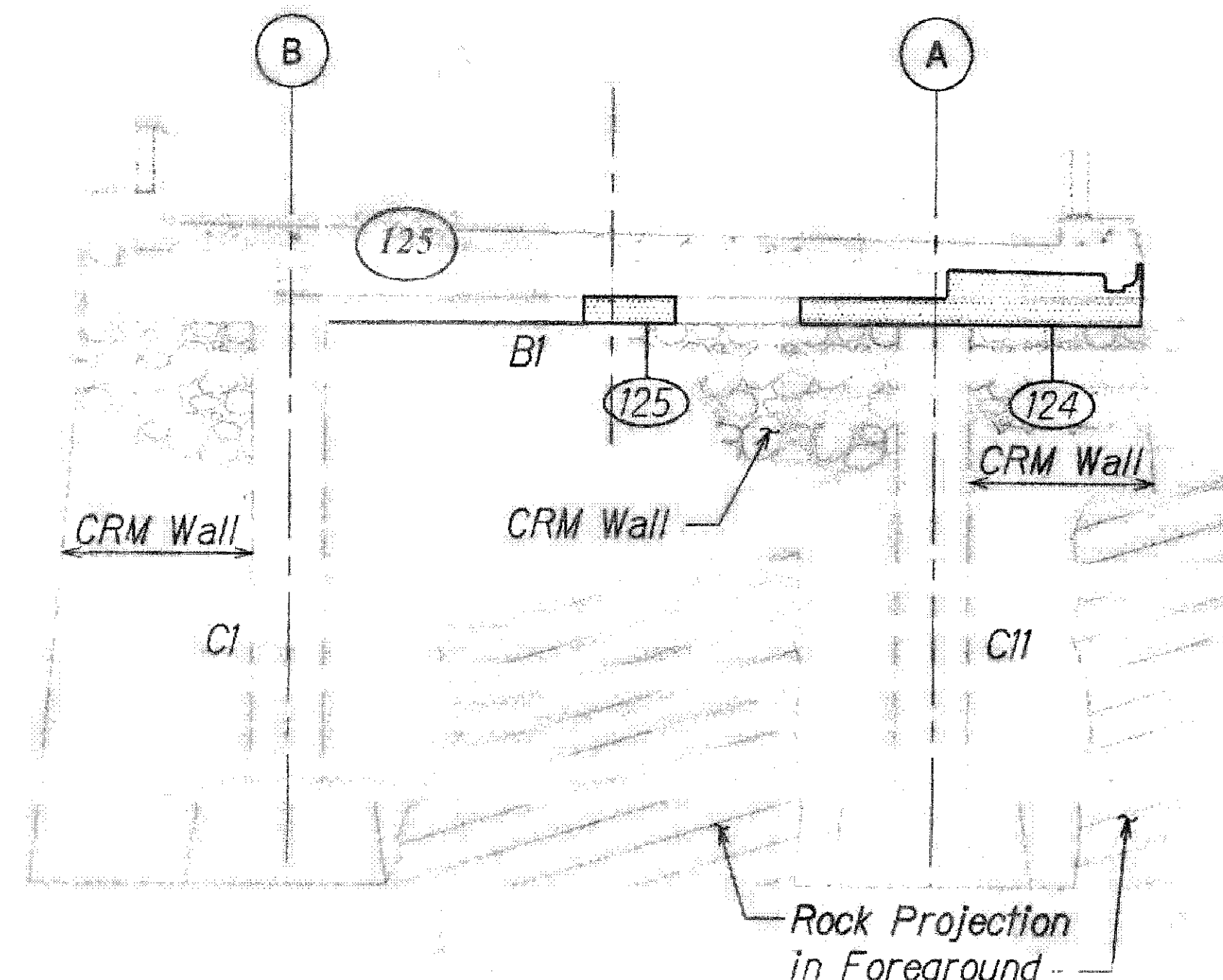
Scale: As Shown Date: Jan. 16, 2013
SHEET No. S-10 OF 26 SHEETS

"AS-BUILT"

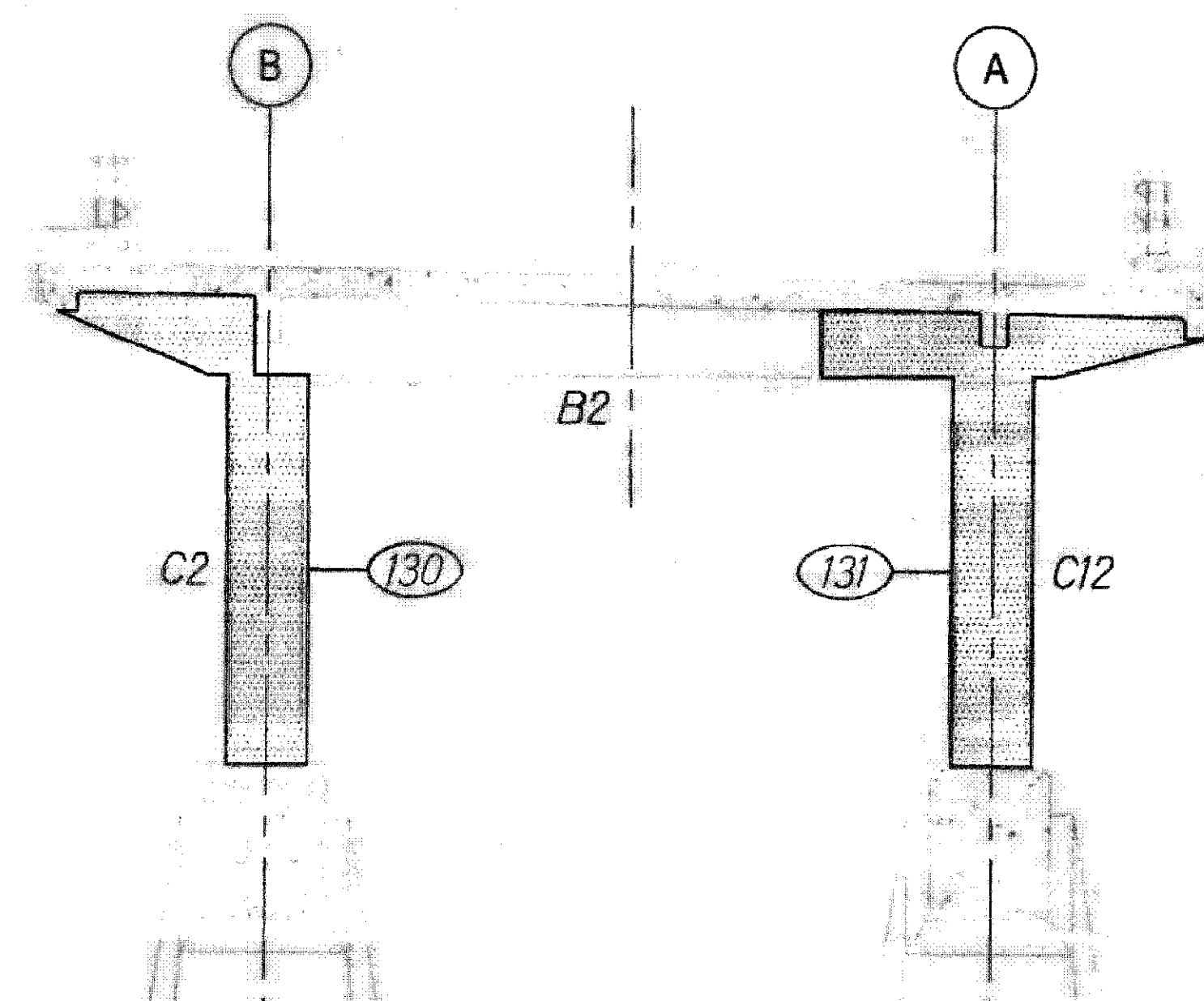
S-10A

13

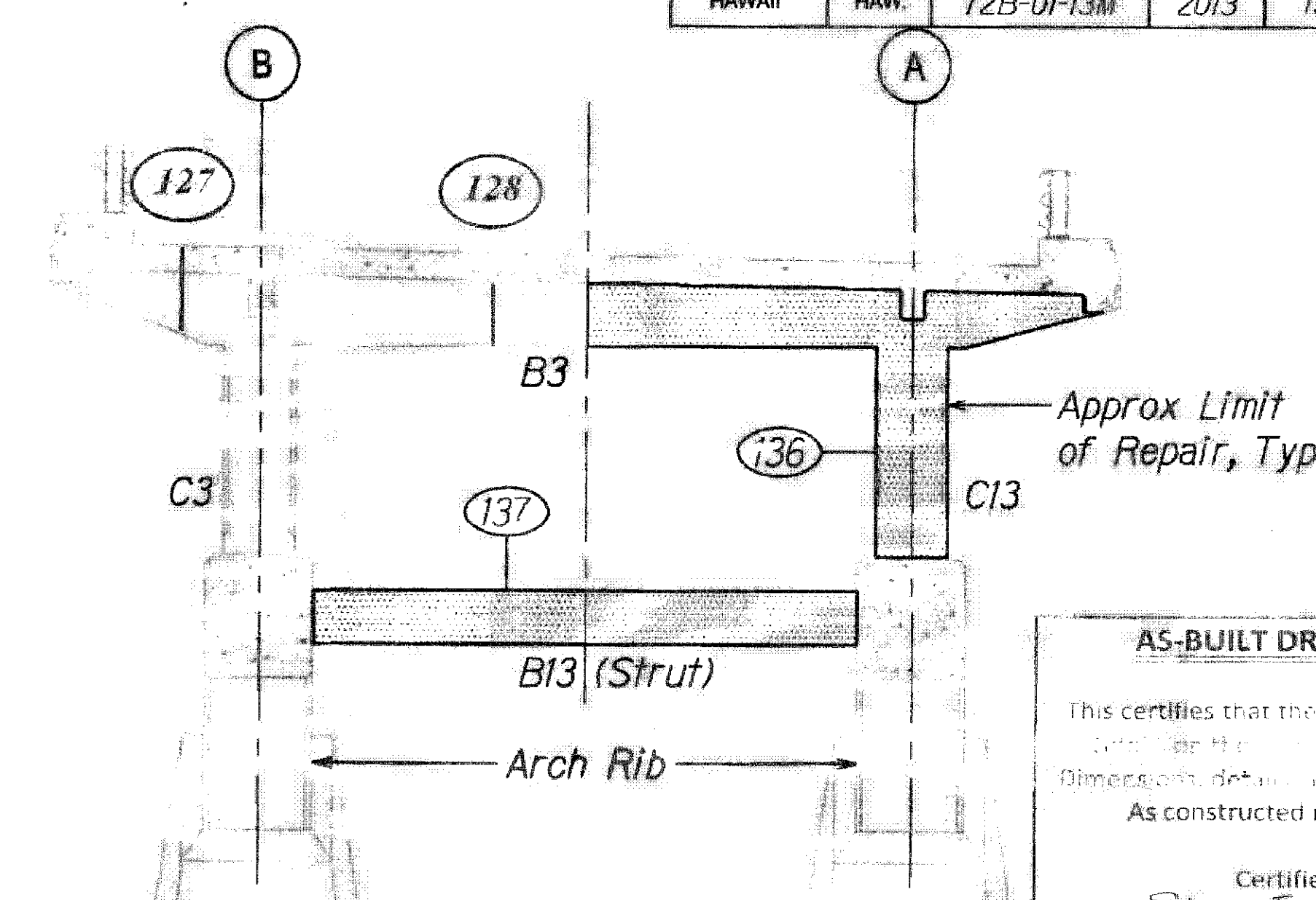
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	135-1	34



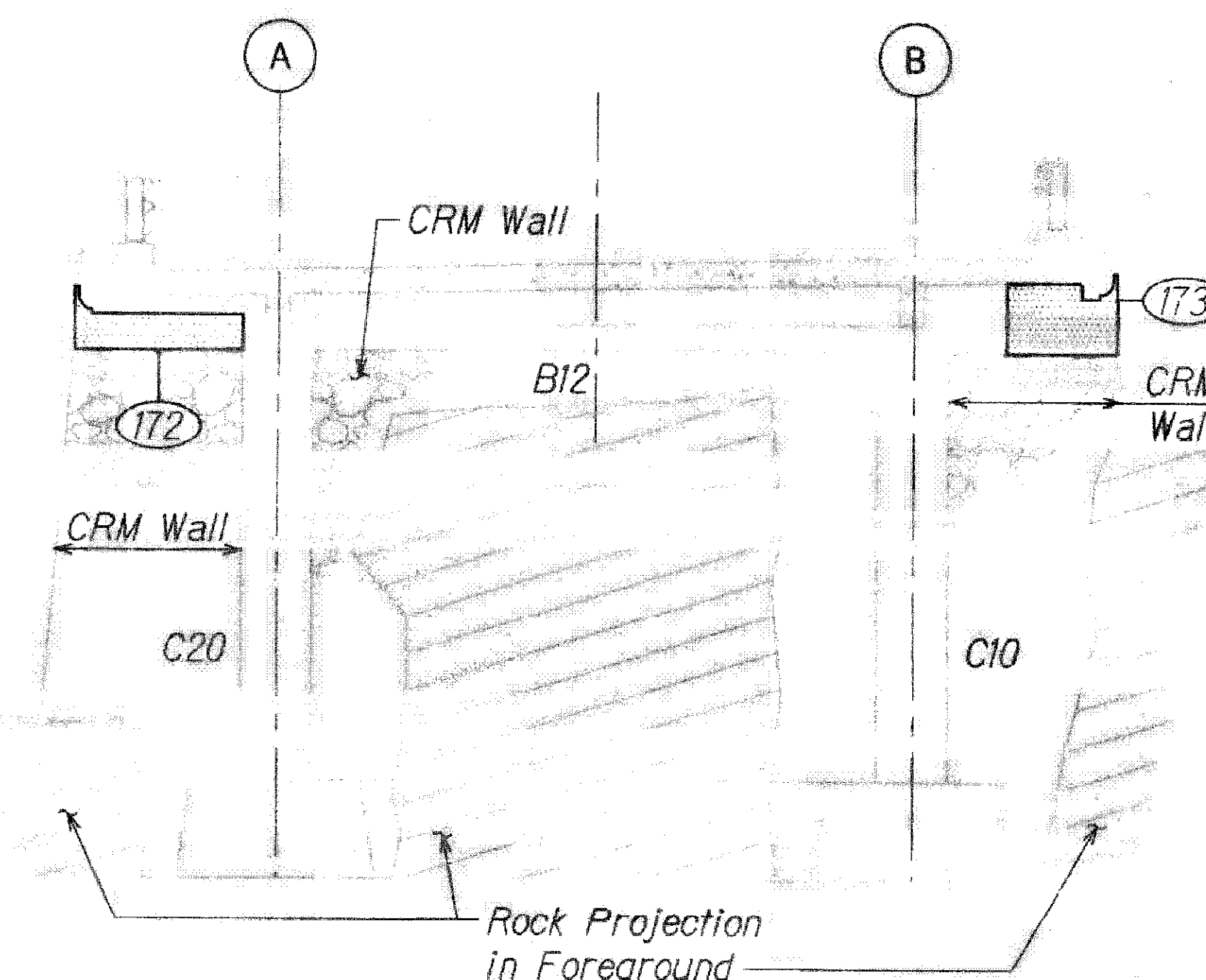
HONOLULU ABUTMENT (BENT 1)



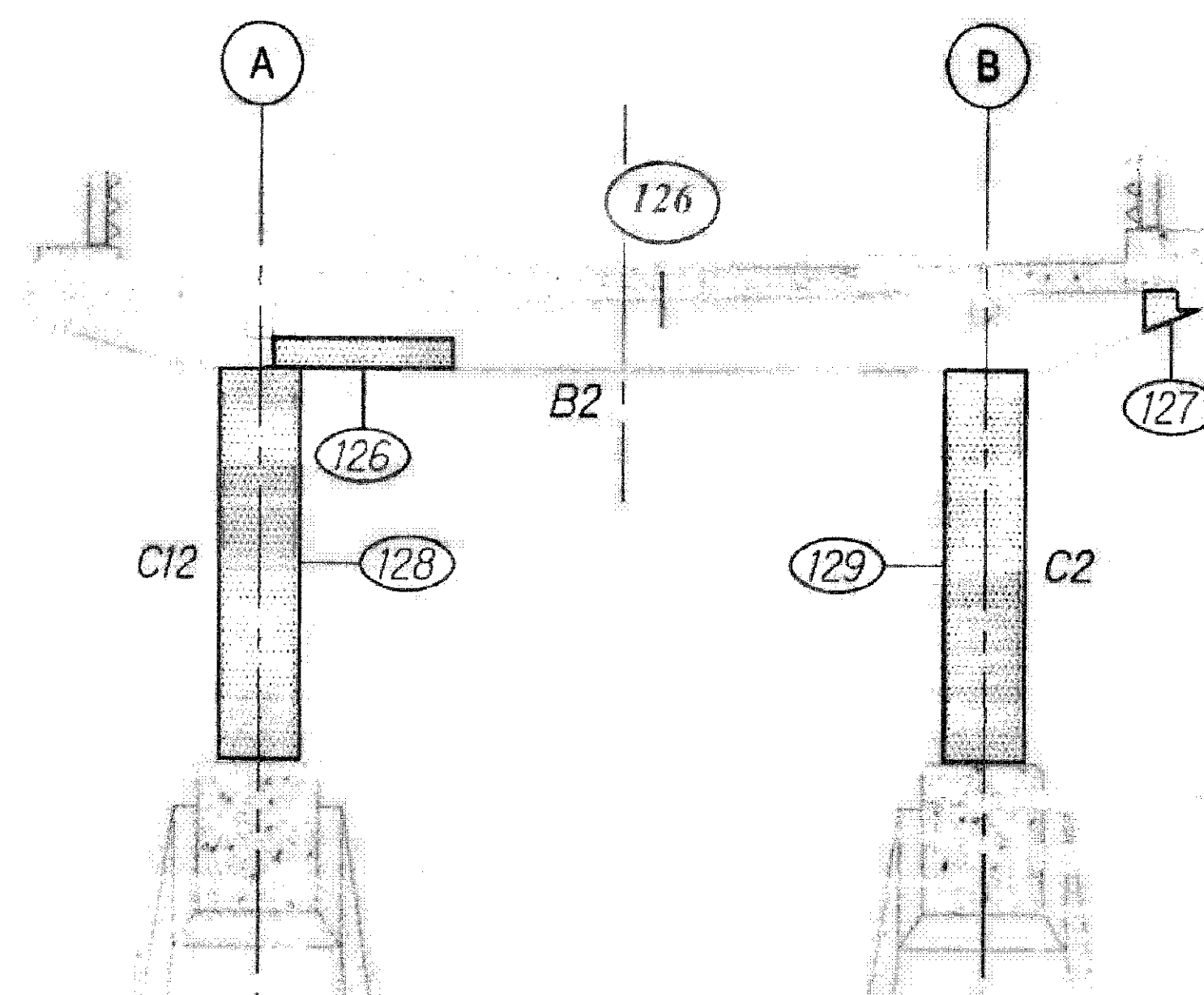
WAIMANALO FACE



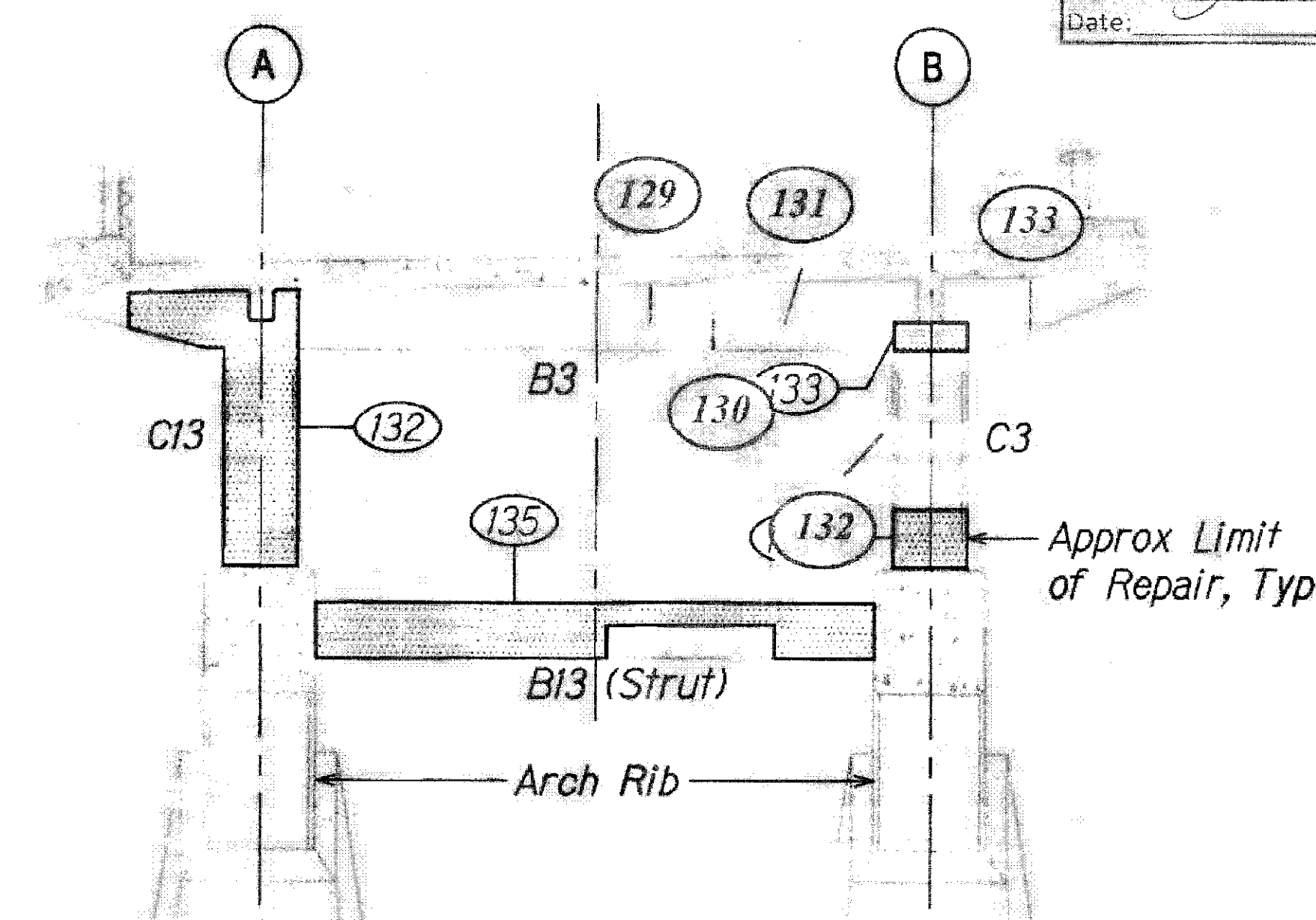
WAIMANALO FACE



WAIMANALO ABUTMENT (BENT 12)



HONOLULU FACE



HONOLULU FACE

1 ELEVATIONS - ABUTMENTS
S-10 S-10 Scale: 1/4" = 1'-0"

2 ELEVATIONS - BENT 2
S-10 S-10 Scale: 1/4" = 1'-0"

3 ELEVATIONS - BENT 3
S-10 S-10 Scale: 1/4" = 1'-0"

NOTES:

- Existing utility pipe along makai side of bridge not shown for clarity See sheet S-8.

REFERENCE DRAWINGS:

- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

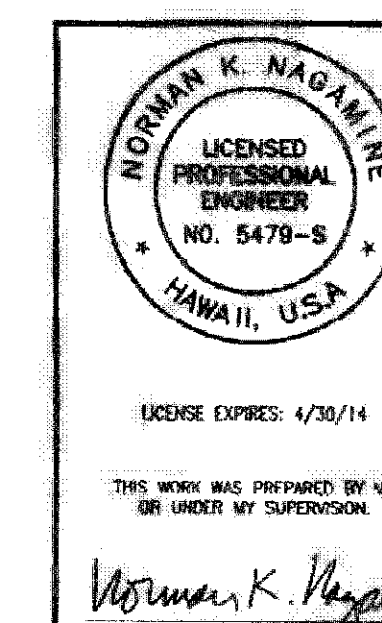
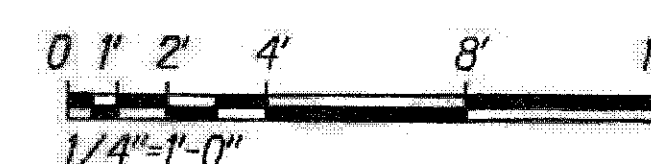
LEGEND

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Text for as-built posting

GRAPHIC SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT ELEVATIONS

KALANIANA'OLE HIGHWAY
Emergency Repairs of Ihiihilauea Bridge
Project No. 72B-01-13M

Scale: As Shown Date: Jan. 16, 2013

SHEET No. S-10 OF 26 SHEETS

"AS-BUILT"

S-10B

135-1

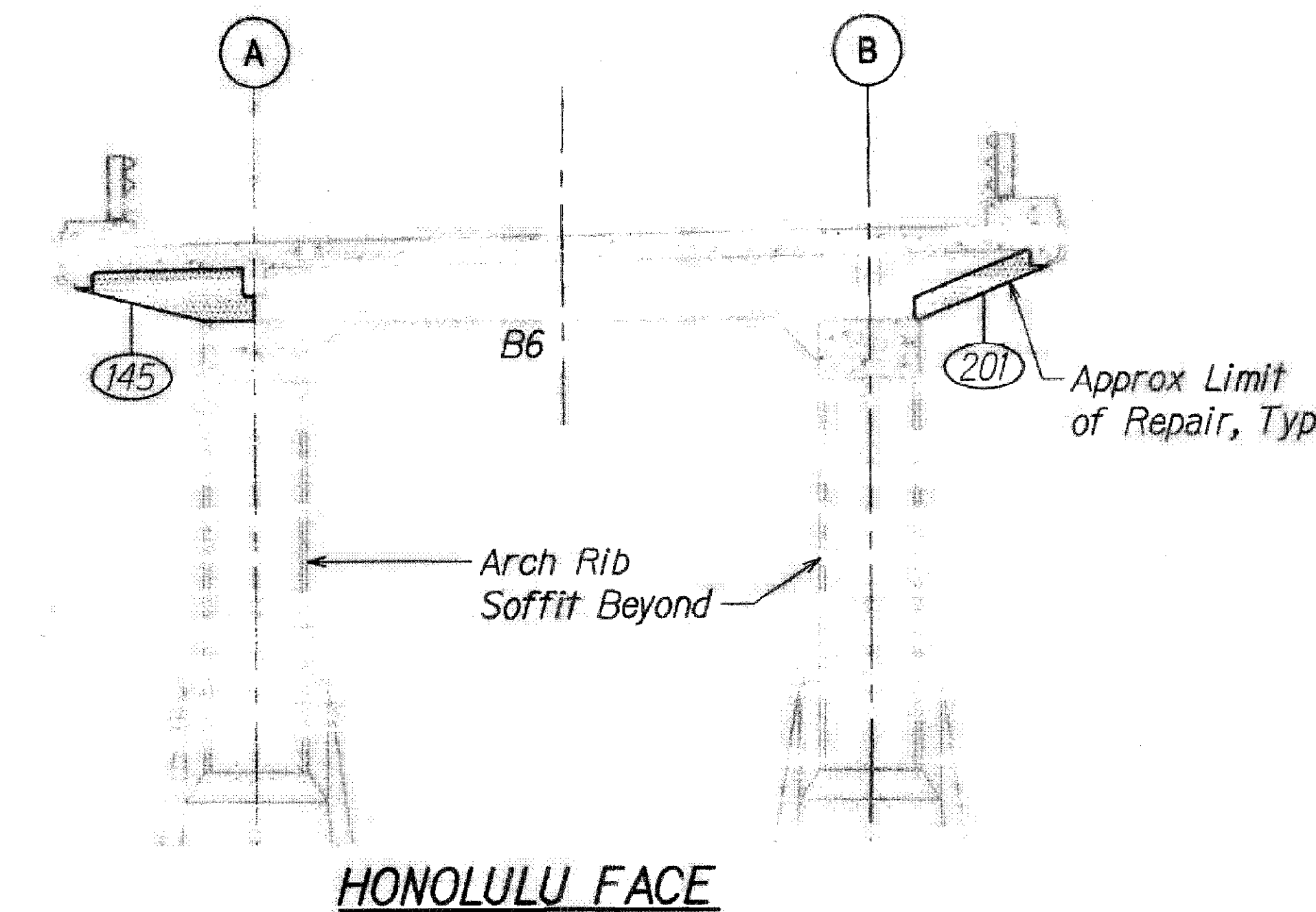
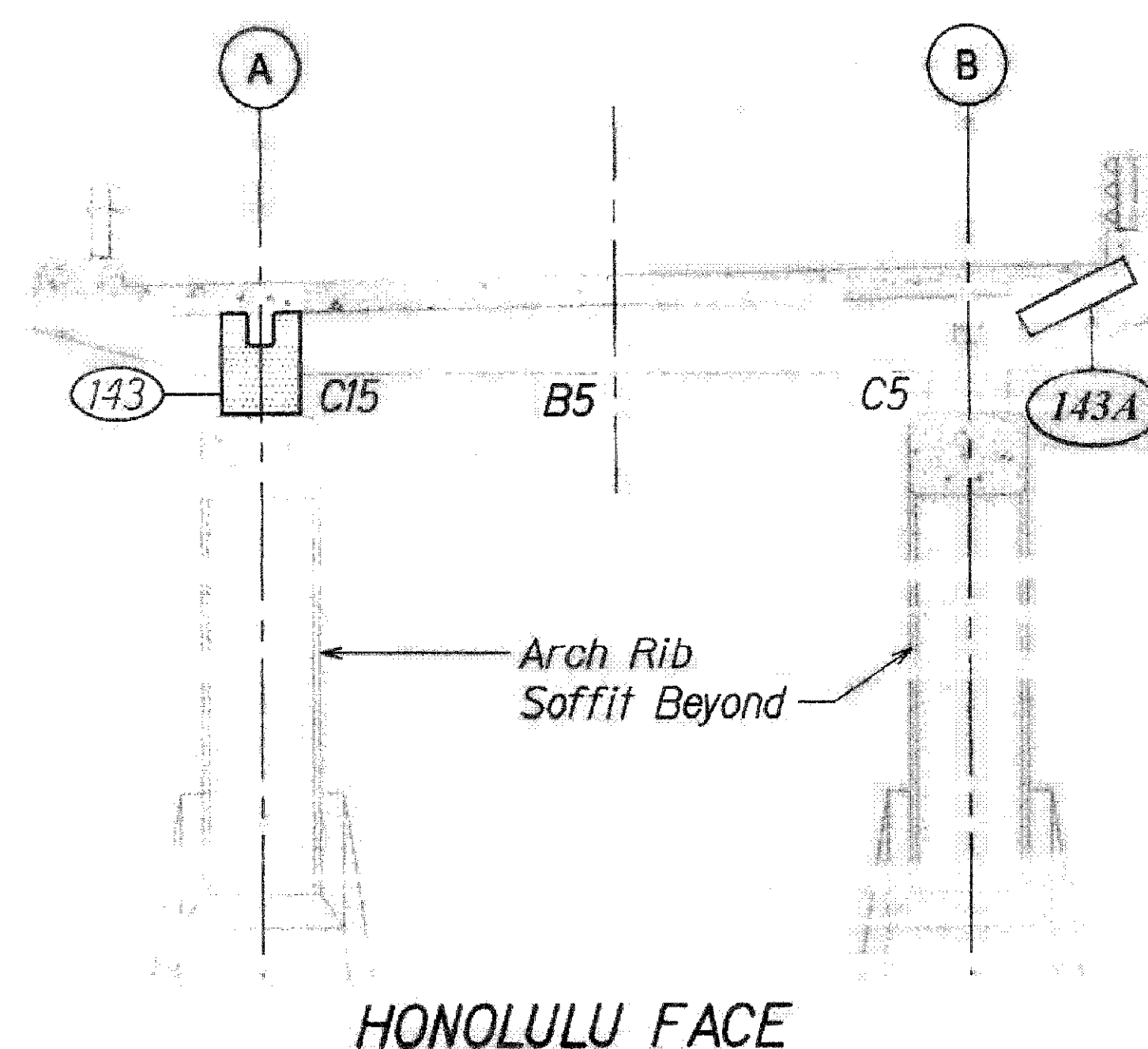
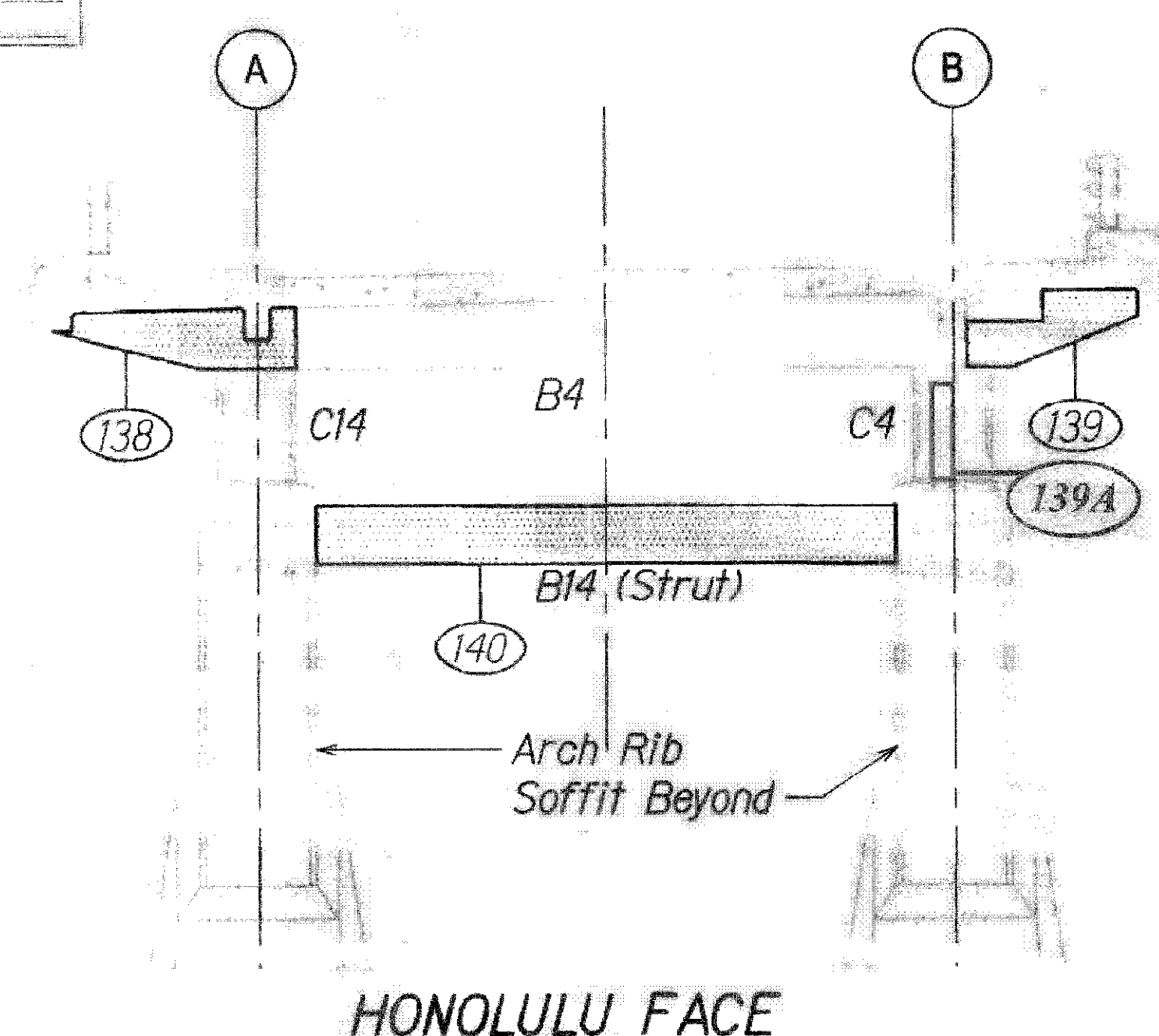
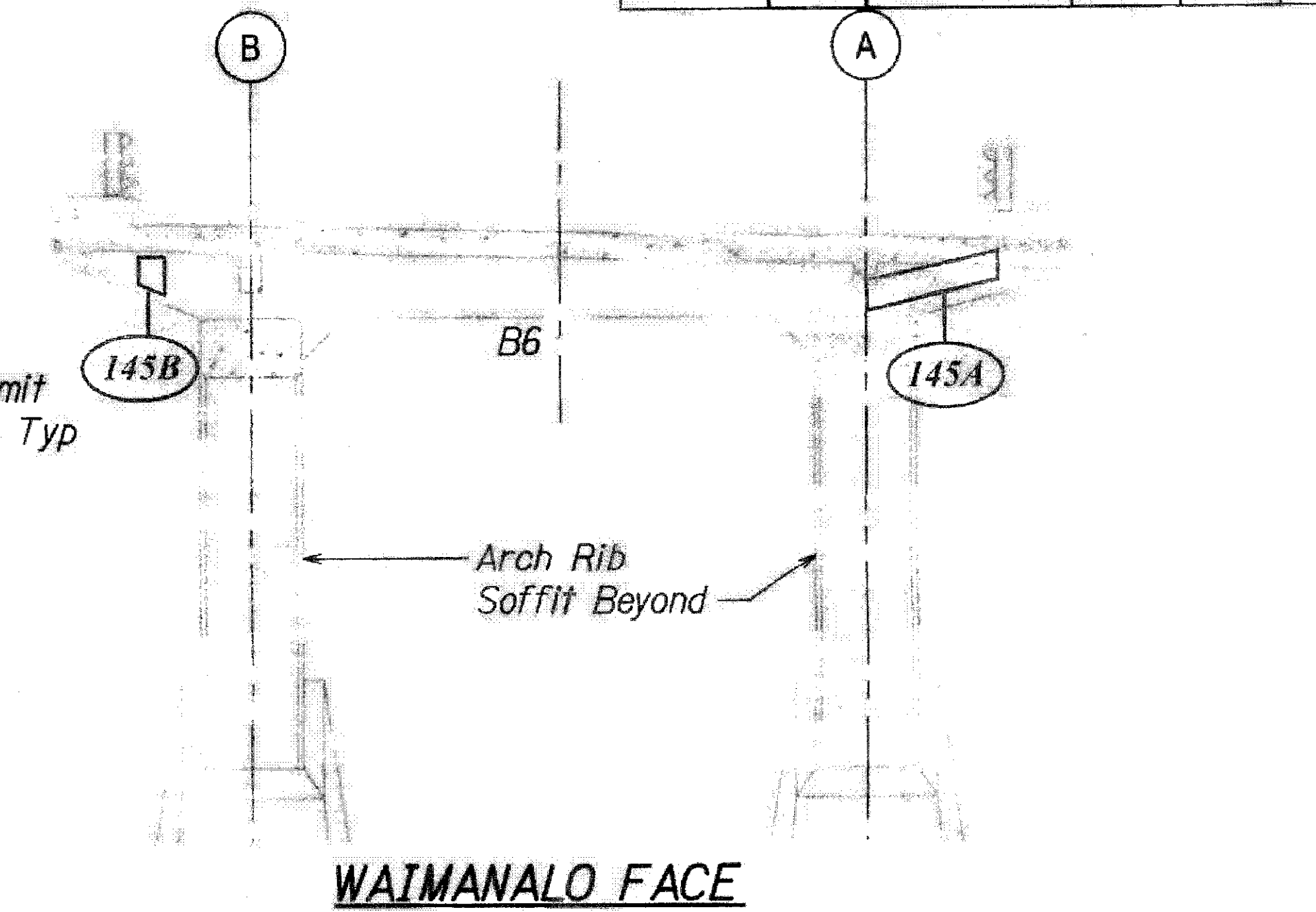
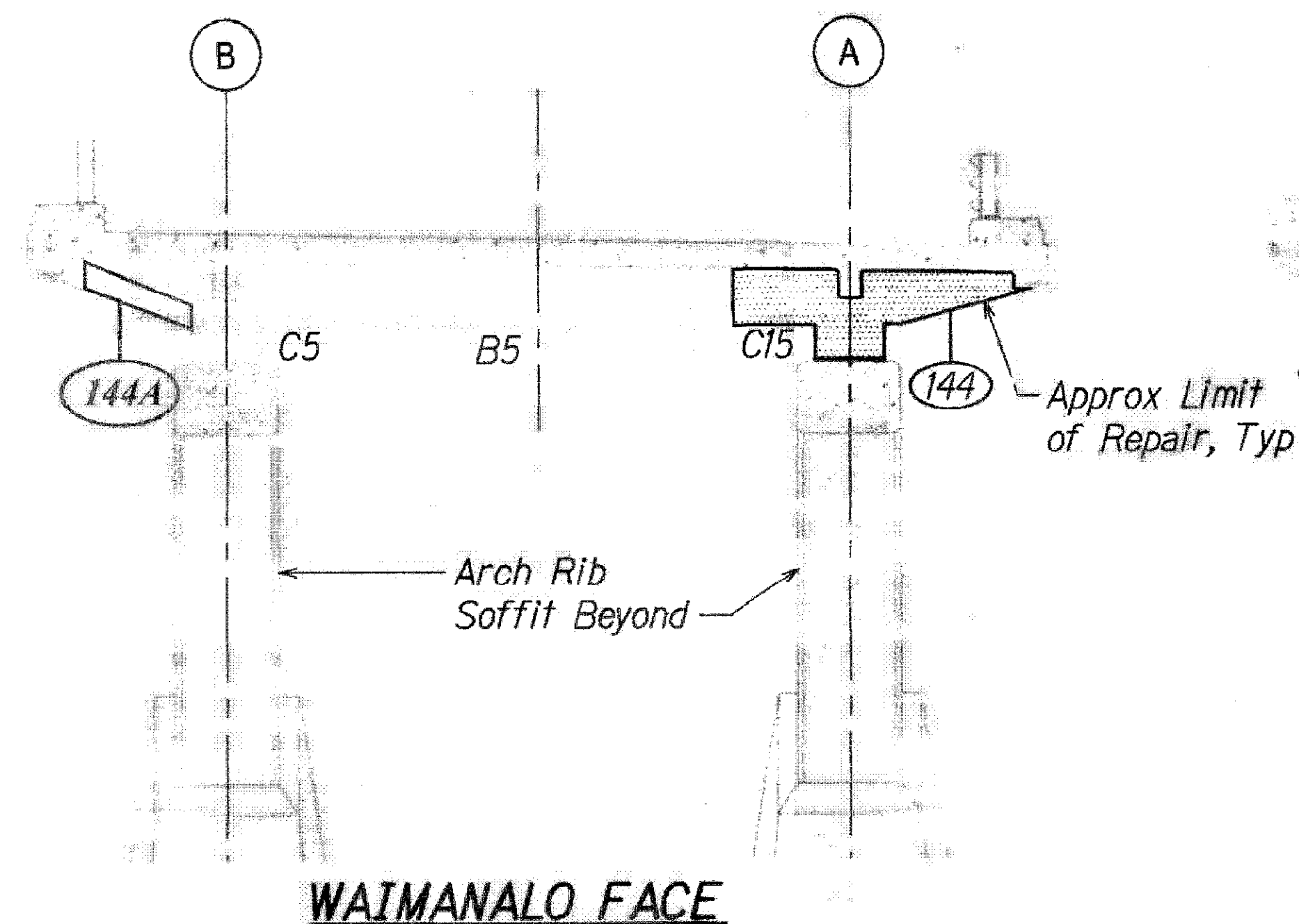
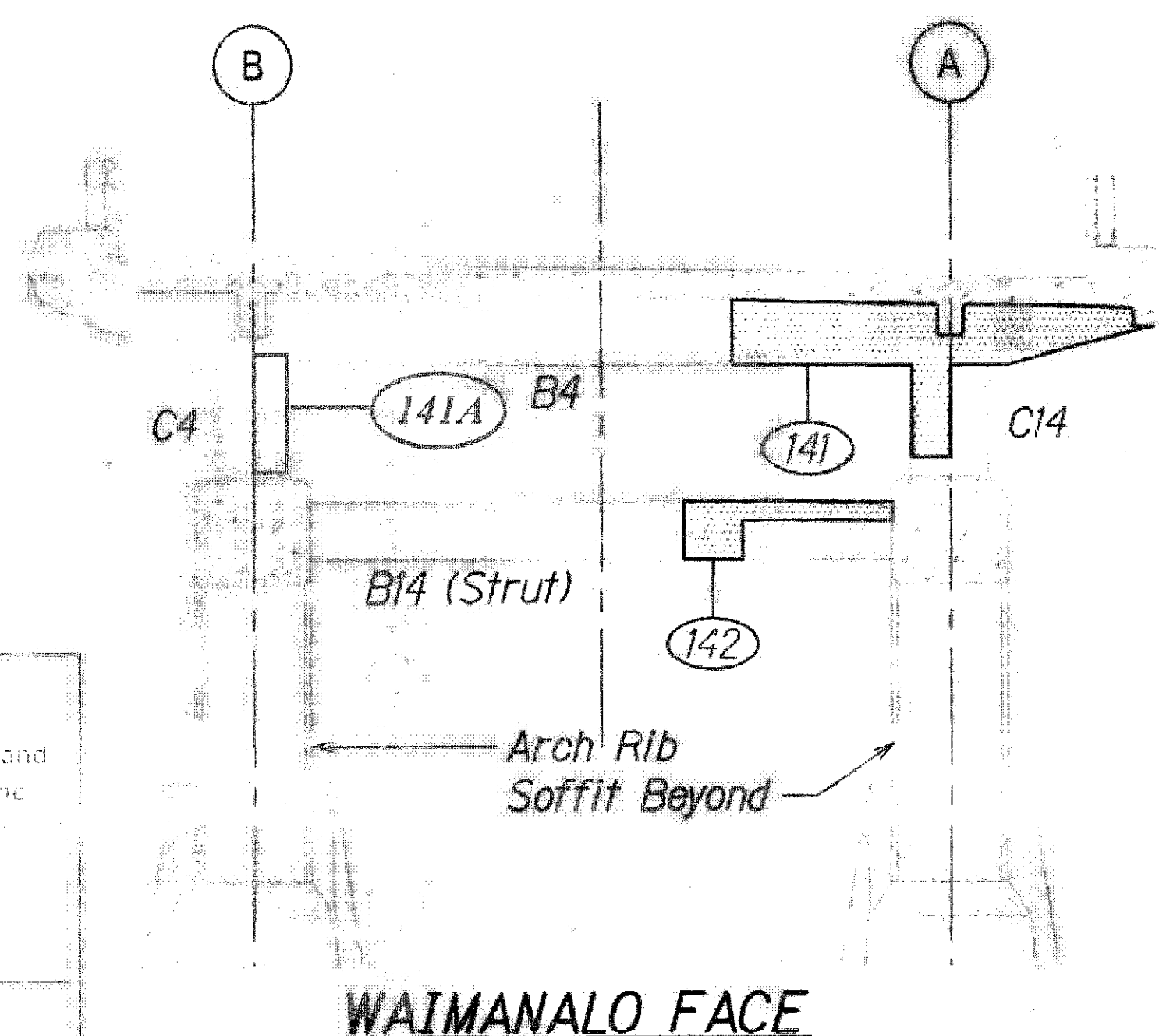
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	14	34

AS-BUILT DRAWINGS

This certifies that the dimensions and details on these sheets reflect the actual construction as constructed in the field.

Certified by: *Steven L. Jones*
Ideal Construction, Inc.

Signature: *[Signature]*
Date: *[Blank]*



1 ELEVATIONS - BENT 4
S-11 S-11 Scale: 1/4" = 1'-0"

2 ELEVATIONS - BENT 5
S-11 S-11 Scale: 1/4" = 1'-0"

3 ELEVATIONS - BENT 6
S-11 S-11 Scale: 1/4" = 1'-0"

NOTES:

- Existing utility pipe along makai side of bridge not shown. See sheet S-8.

REFERENCE DRAWINGS:

- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

LEGEND

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

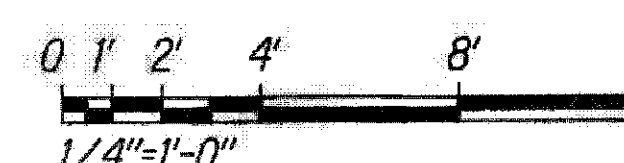
LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion

==00== Double line for as-built deletion

Roadway Text for as-built posting

**GRAPHIC SCALE**



**NORMAN K. NAGAMINE**  
LICENSED PROFESSIONAL ENGINEER  
NO. 5479-S  
HAWAII, U.S.A.

LICENSE EXPIRES: 4/30/14

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

*Norman K. Nagamine*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**BENT ELEVATIONS**

**KALANIANA'OLE HIGHWAY**  
*Emergency Repairs of Ihiihiauakea Bridge*  
Project No. 72B-01-13M

Scale: As Shown Date: Jan. 16, 2013

SHEET No. S-11 OF 26 SHEETS

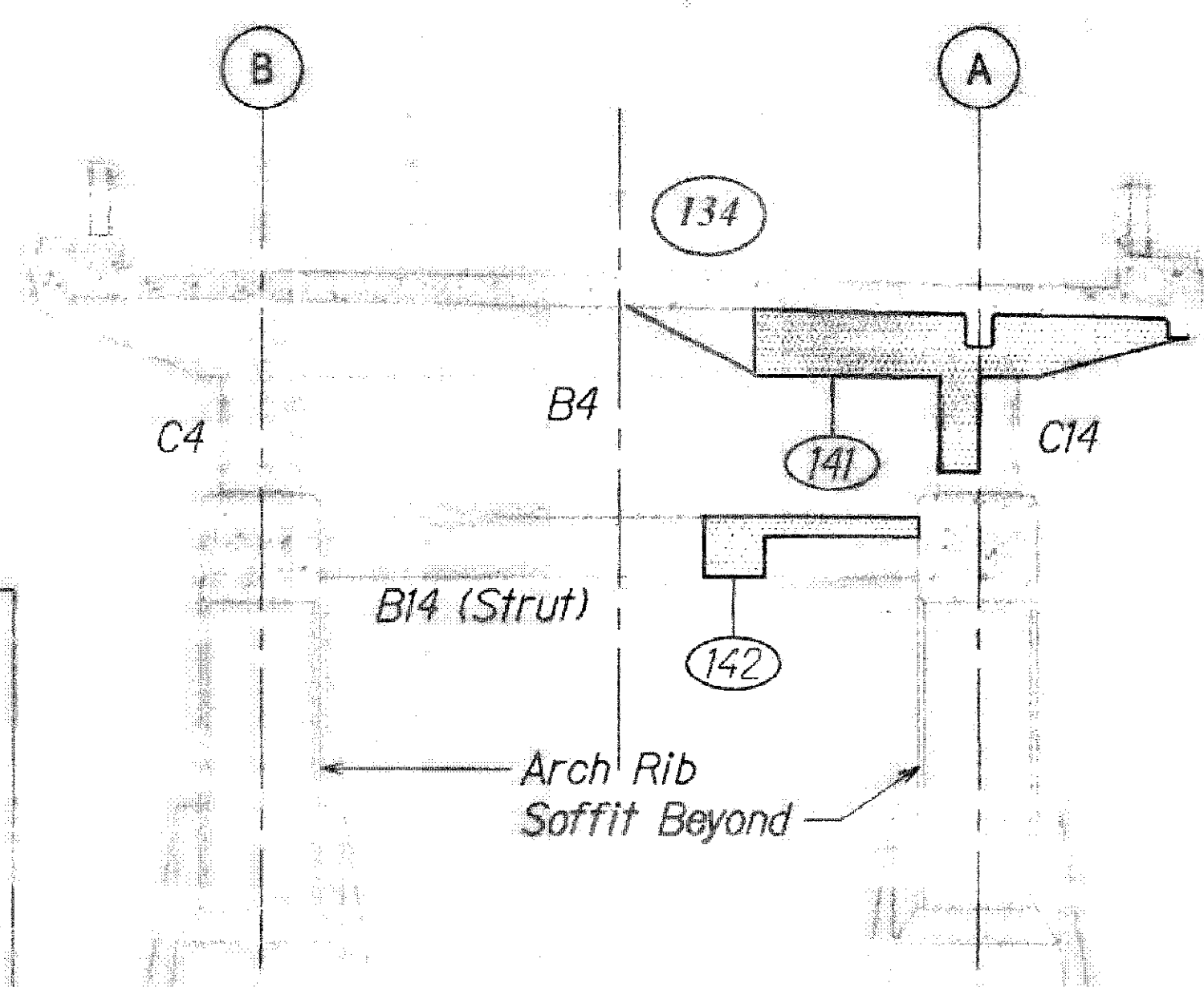
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 72B-01-13M | 2013        | 14S-1     | 34           |

**AS-BUILT DRAWINGS**

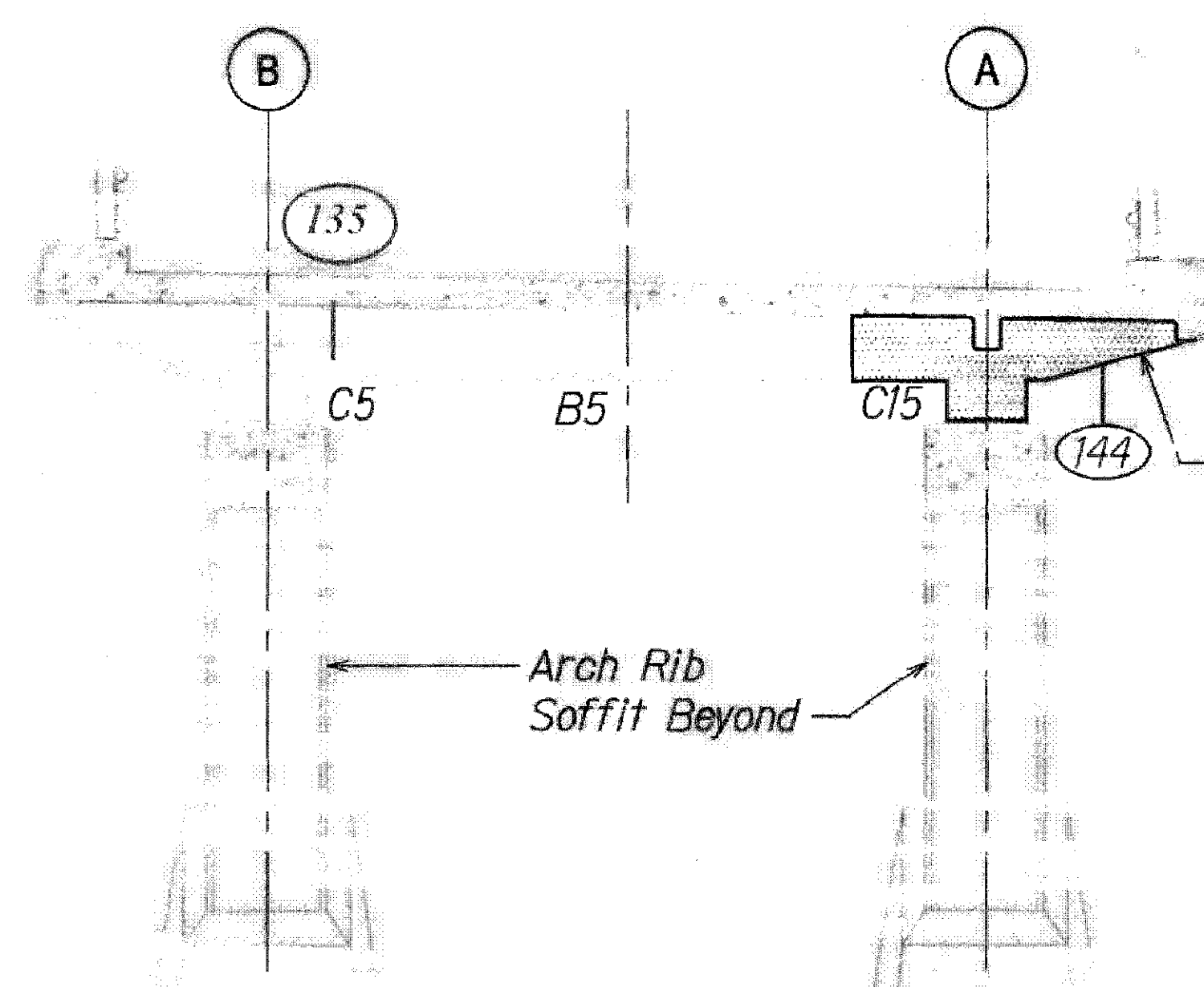
This certifies that the dimensions and details on these sheets reflect the dimensions, details, and specifications as constructed in the field.

by: *Shawn Long*  
Ideal Construction, Inc.

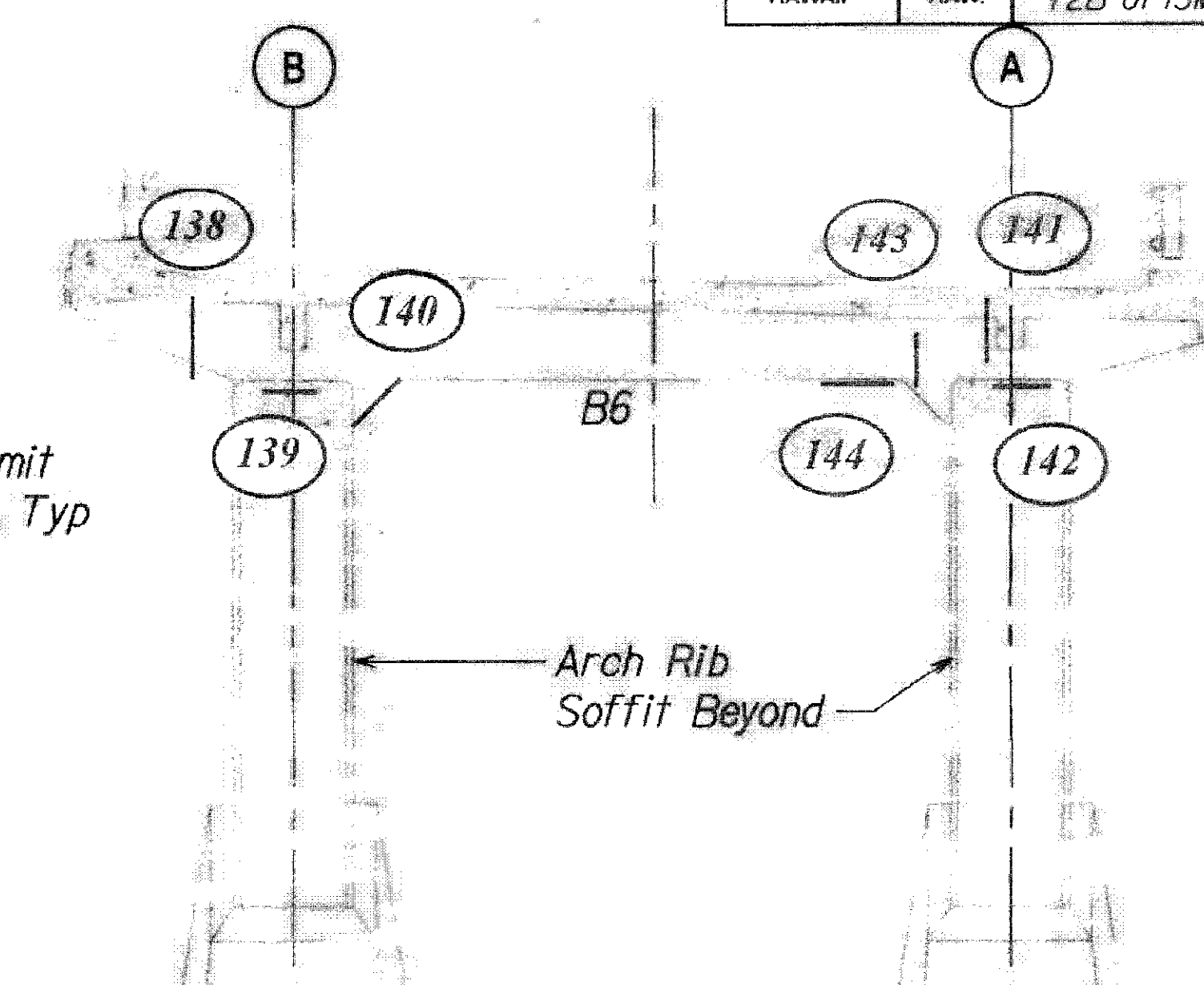
Signature: *Shawn Long*  
Date: \_\_\_\_\_



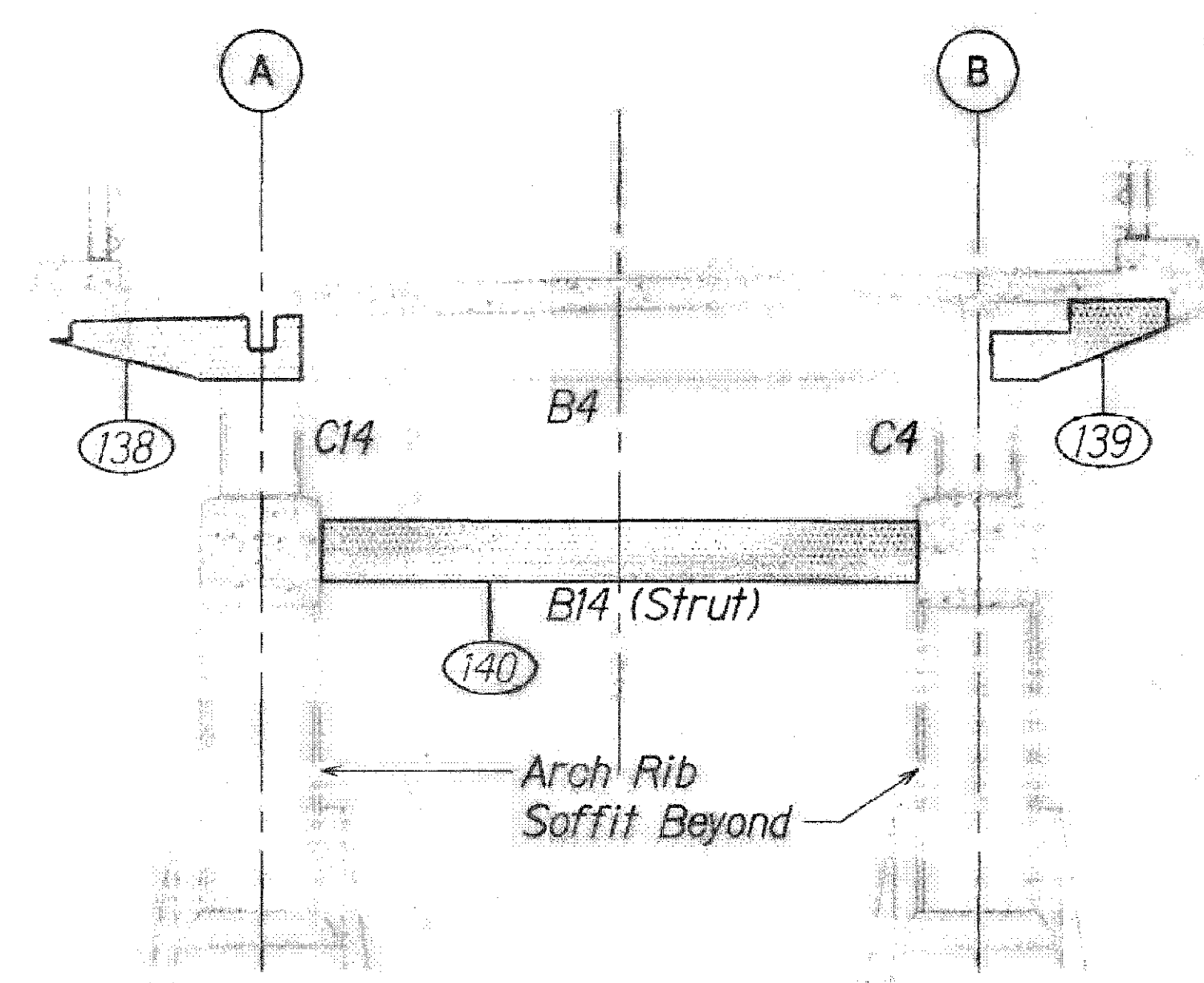
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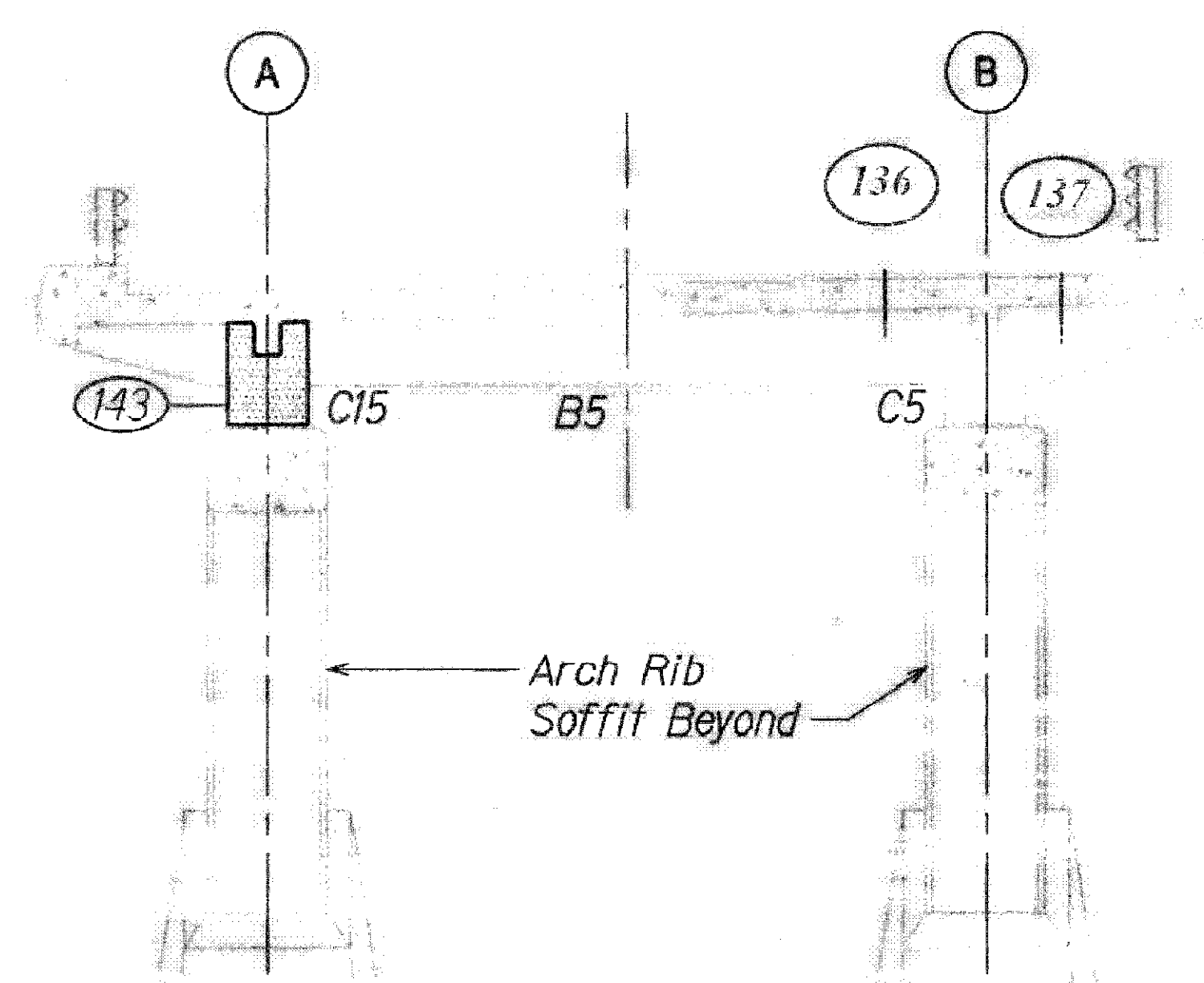
**WAIMANALO FACE**



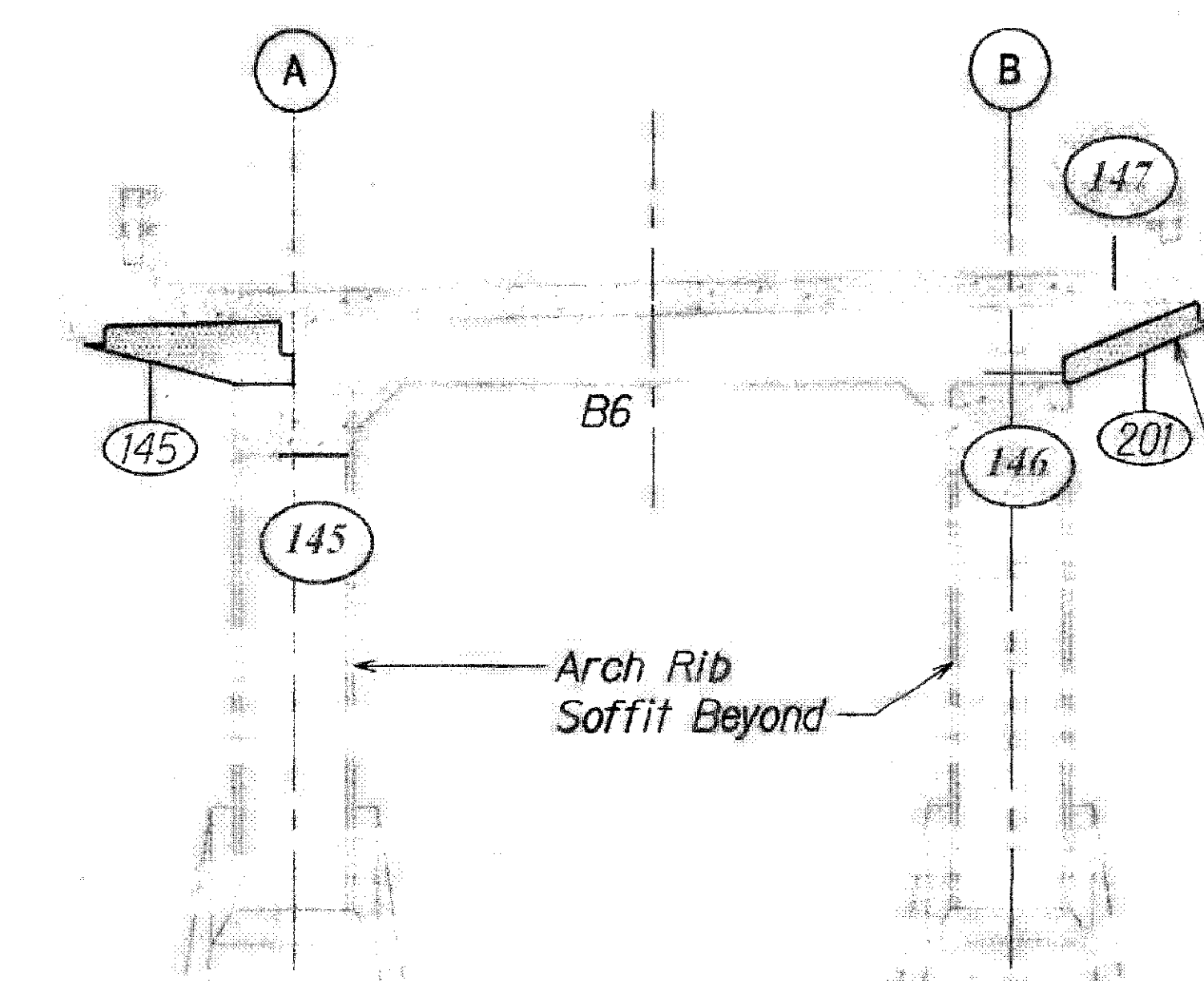
**WAIMANALO FACE**



**HONOLULU FACE**



**HONOLULU FACE**



**HONOLULU FACE**

**1 ELEVATIONS - BENT 4**  
S-11 | S-11 Scale: 1/4" = 1'-0"

**2 ELEVATIONS - BENT 5**  
S-11 | S-11 Scale: 1/4" = 1'-0"

**3 ELEVATIONS - BENT 6**  
S-11 | S-11 Scale: 1/4" = 1'-0"

**NOTES:**

- Existing utility pipe along makai side of bridge not shown. See sheet S-8.

**REFERENCE DRAWINGS:**

- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

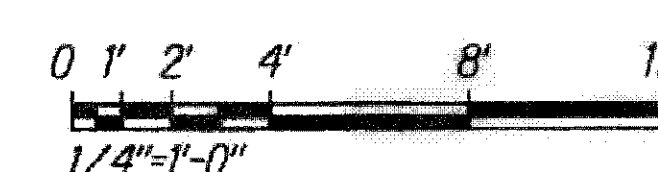
**LEGEND**

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

**LEGEND FOR AS-BUILT POSTINGS**

|  |                                     |
|--|-------------------------------------|
|  | Squiggly line for as-built deletion |
|  | Double line for as-built deletion   |
|  | Text for as-built posting           |

**GRAPHIC SCALE**



|  |                                                                                                                  |                     |
|--|------------------------------------------------------------------------------------------------------------------|---------------------|
|  | STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                                             |                     |
|  | <b>BENT ELEVATIONS</b>                                                                                           |                     |
|  | <b>KALANIANA'OLE HIGHWAY</b><br><b>Emergency Repairs of Ihiihilaakea Bridge</b><br><b>Project No. 72B-01-13M</b> |                     |
|  | Scale: As Shown                                                                                                  | Date: Jan. 16, 2013 |

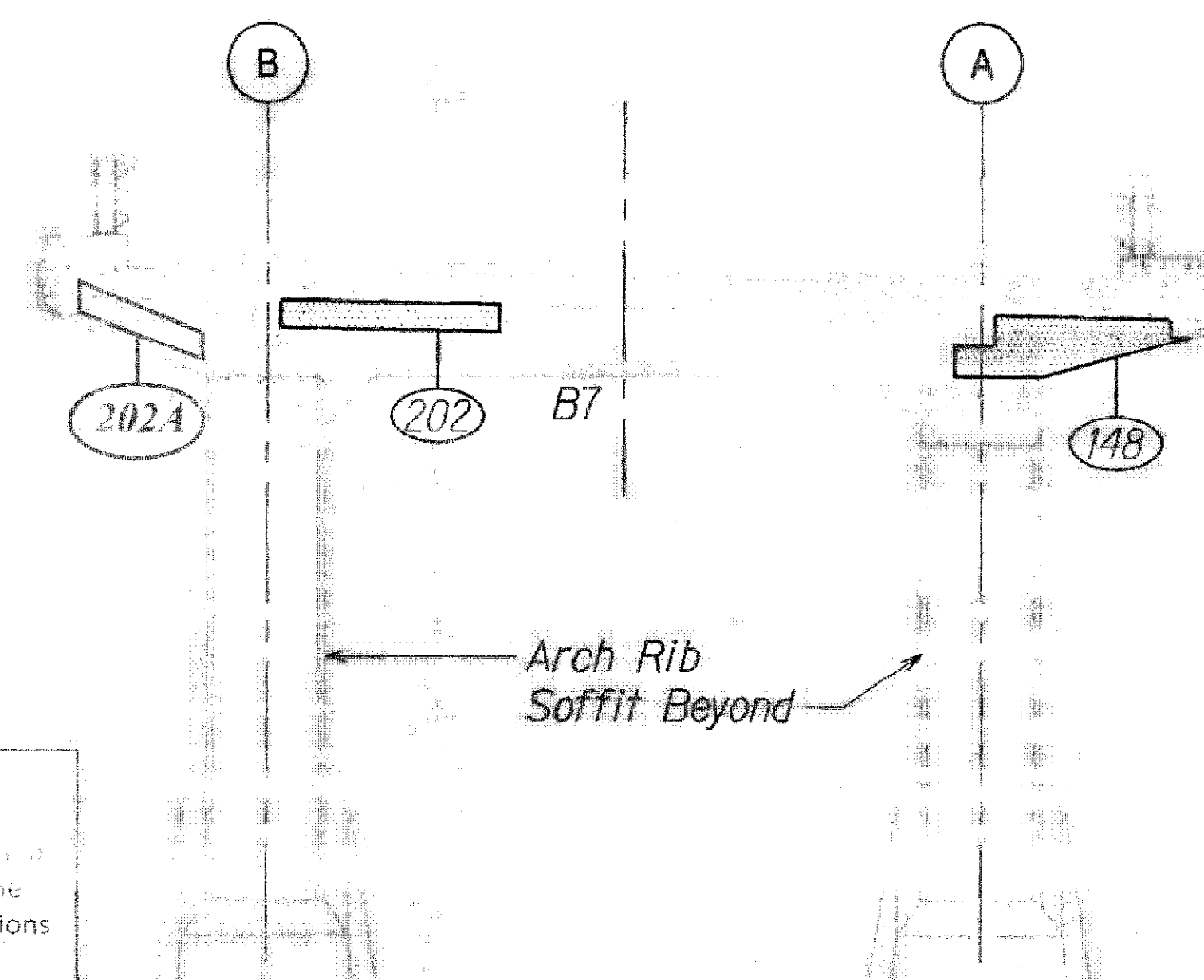
SHEET No. **S-11** OF 26 SHEETS

S-11B

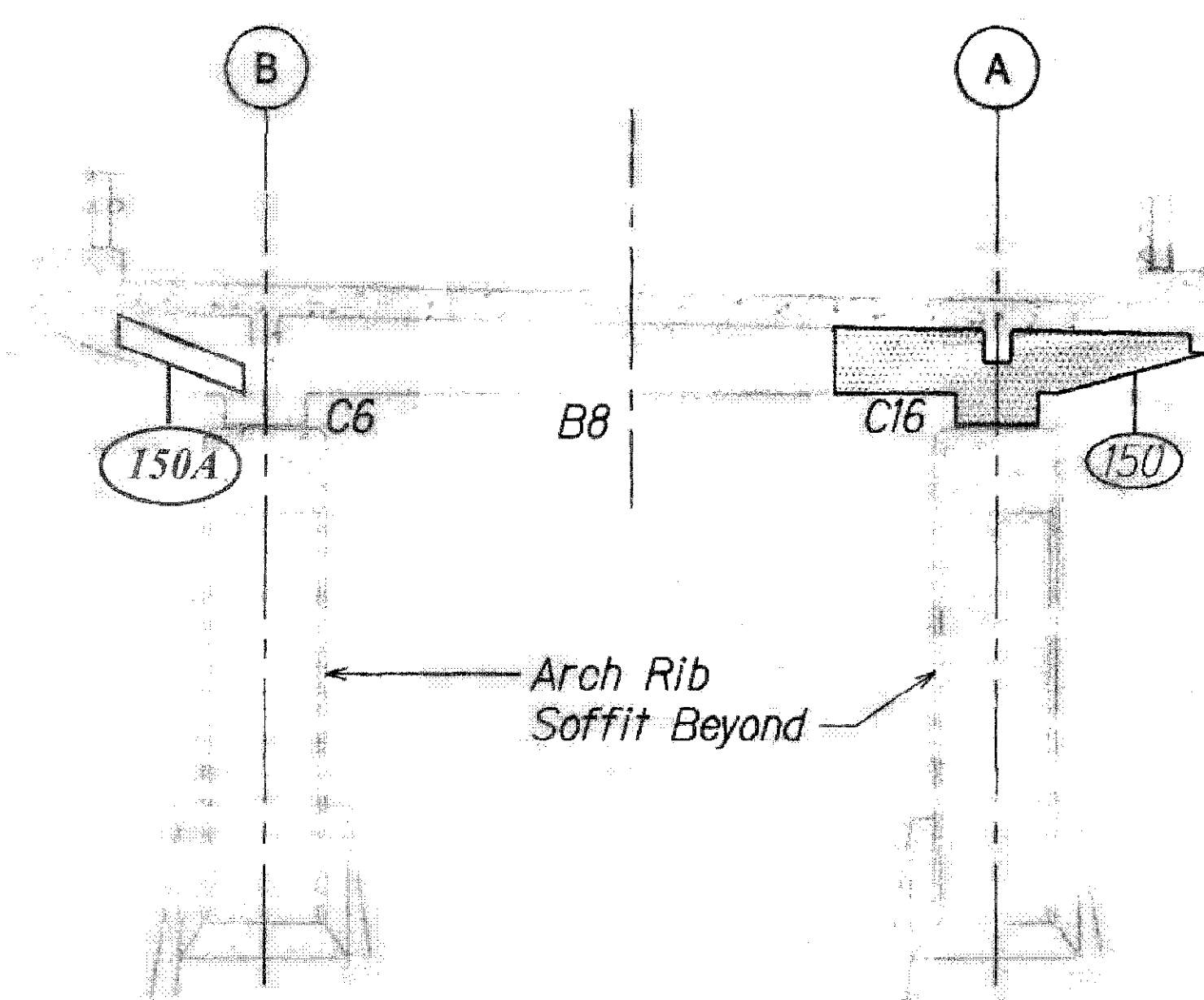
**14S-1**

"AS-BUILT"

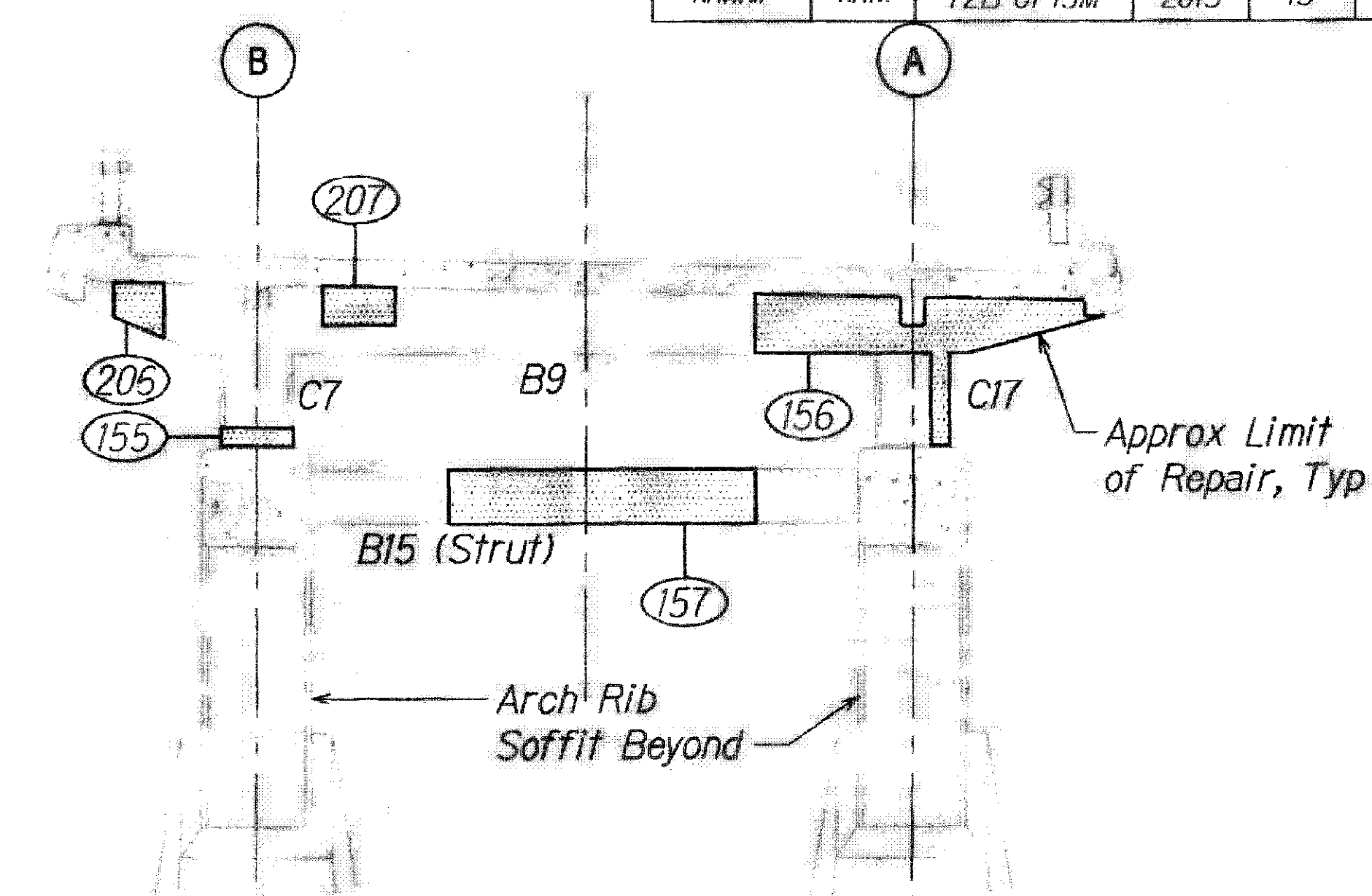
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 72B-01-13M | 2013        | 15        | 34           |



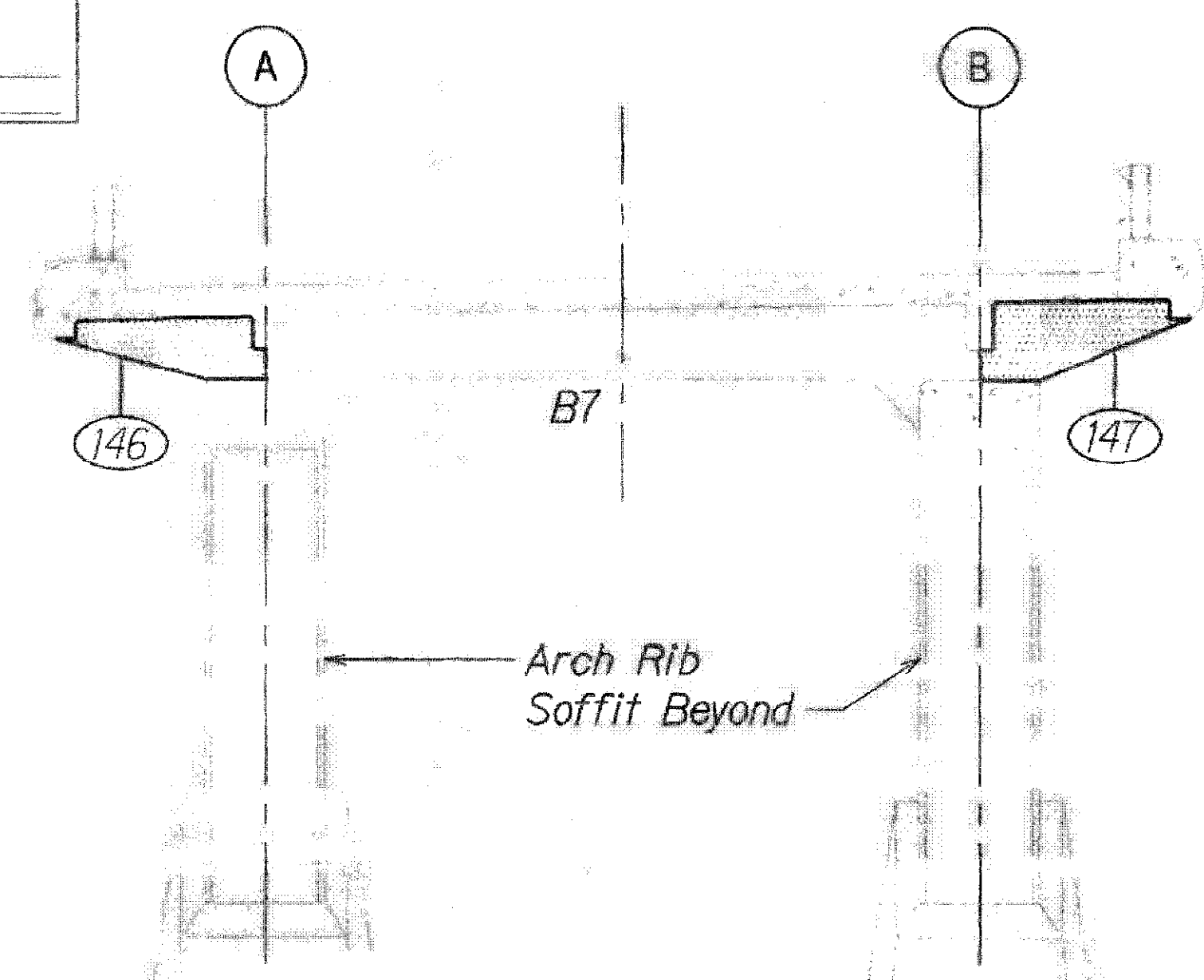
WAIMANALO FACE



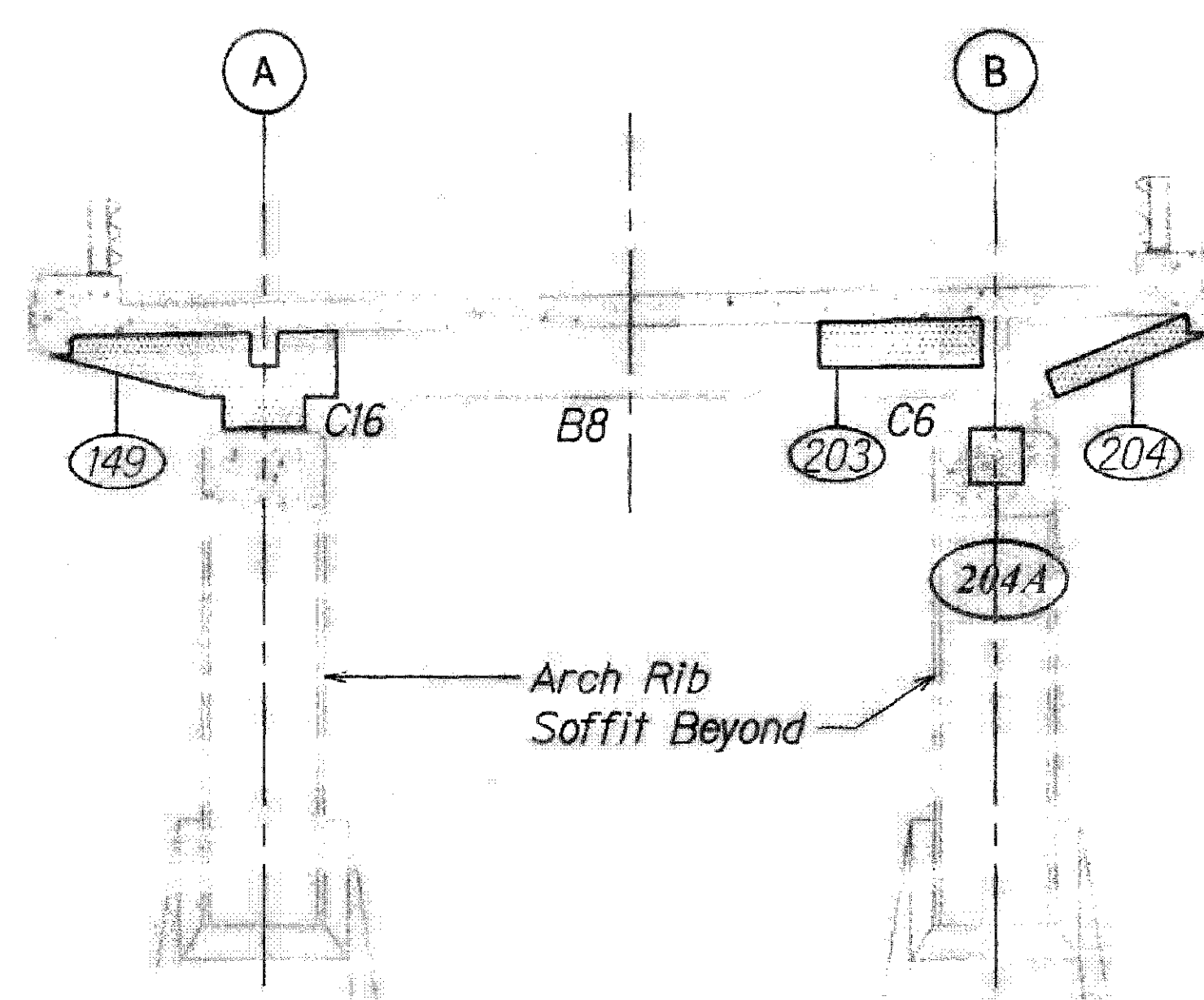
WAIMANALO FACE



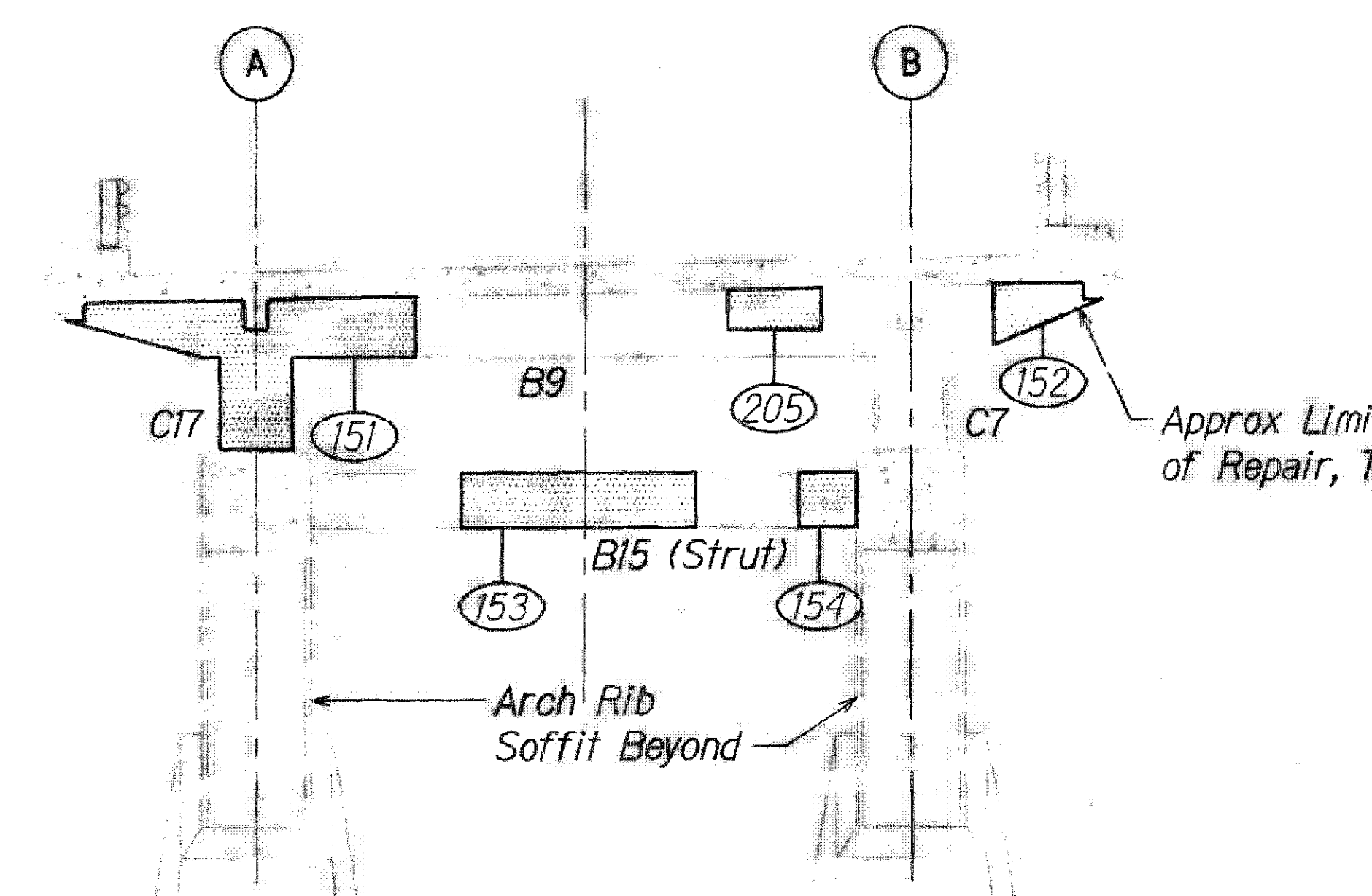
WAIMANALO FACE



HONOLULU FACE



HONOLULU FACE



HONOLULU FACE

1 ELEVATIONS - BENT 7  
S-12 S-12 Scale: 1/4" = 1'-0"

2 ELEVATIONS - BENT 8  
S-12 S-12 Scale: 1/4" = 1'-0"

3 ELEVATIONS - BENT 9  
S-12 S-12 Scale: 1/4" = 1'-0"

NOTES:

- Existing utility pipe along makai side of bridge not shown. See sheet S-8.

REFERENCE DRAWINGS:

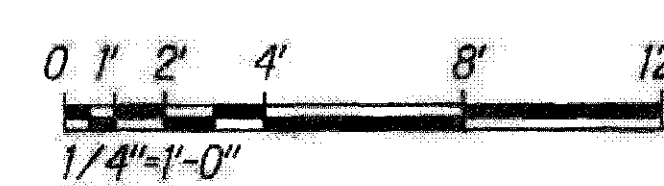
- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

| LEGEND FOR AS-BUILT POSTINGS |                                     |
|------------------------------|-------------------------------------|
| ~~~~~                        | Squiggly line for as-built deletion |
| ==00==                       | Double line for as-built deletion   |
| Roadway                      | Text for as-built posting           |

LEGEND

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

GRAPHIC SCALE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**BENT ELEVATIONS**

KALANANA'OLE HIGHWAY  
Emergency Repairs of Iihilauakea Bridge  
Project No. 72B-01-13M

Scale: As Shown Date: Jan. 16, 2013

SHEET No. S-12 OF 26 SHEETS

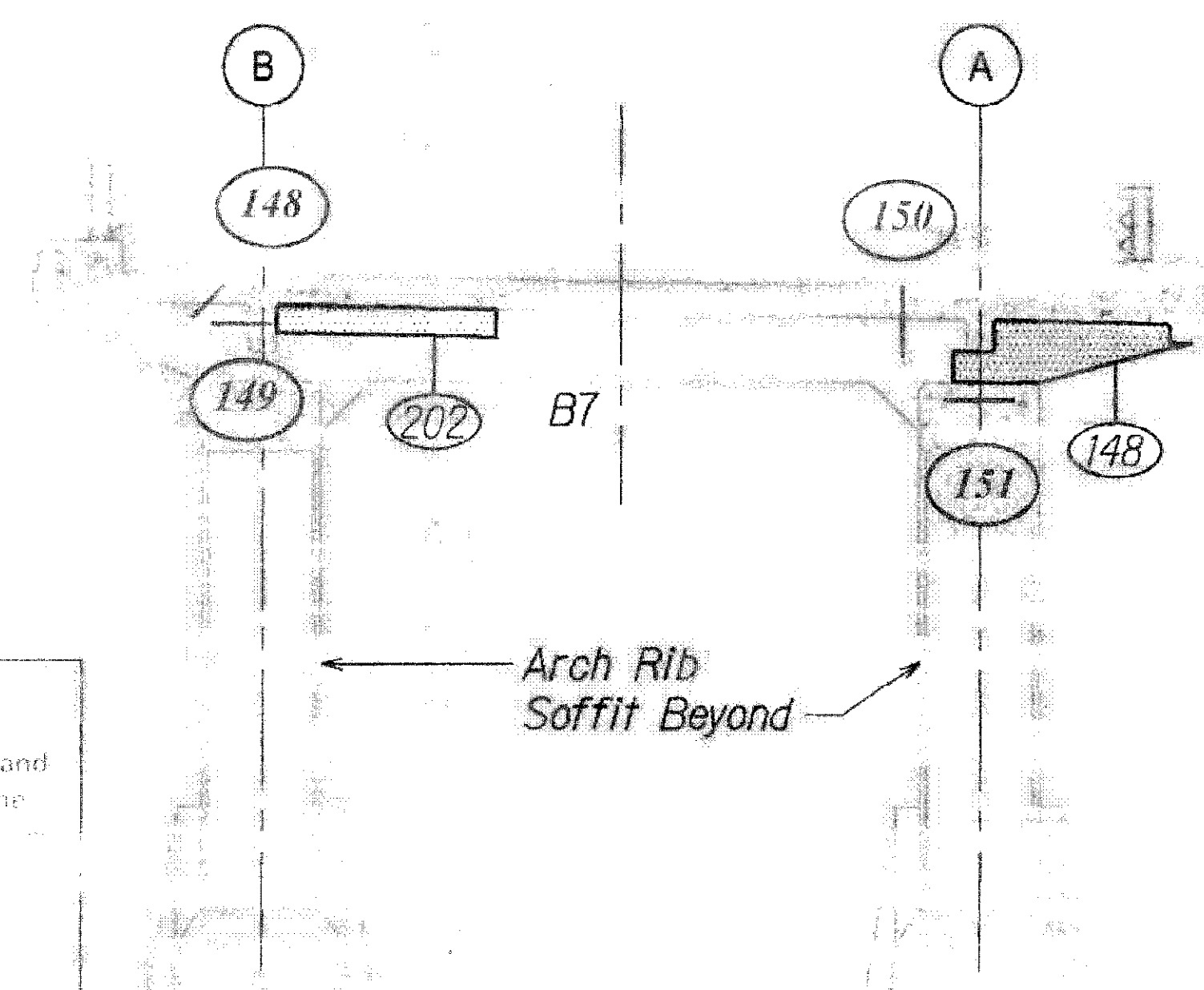
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 72B-01-13M | 2013        | 155-1     | 34           |

**AS-BUILT DRAWINGS**

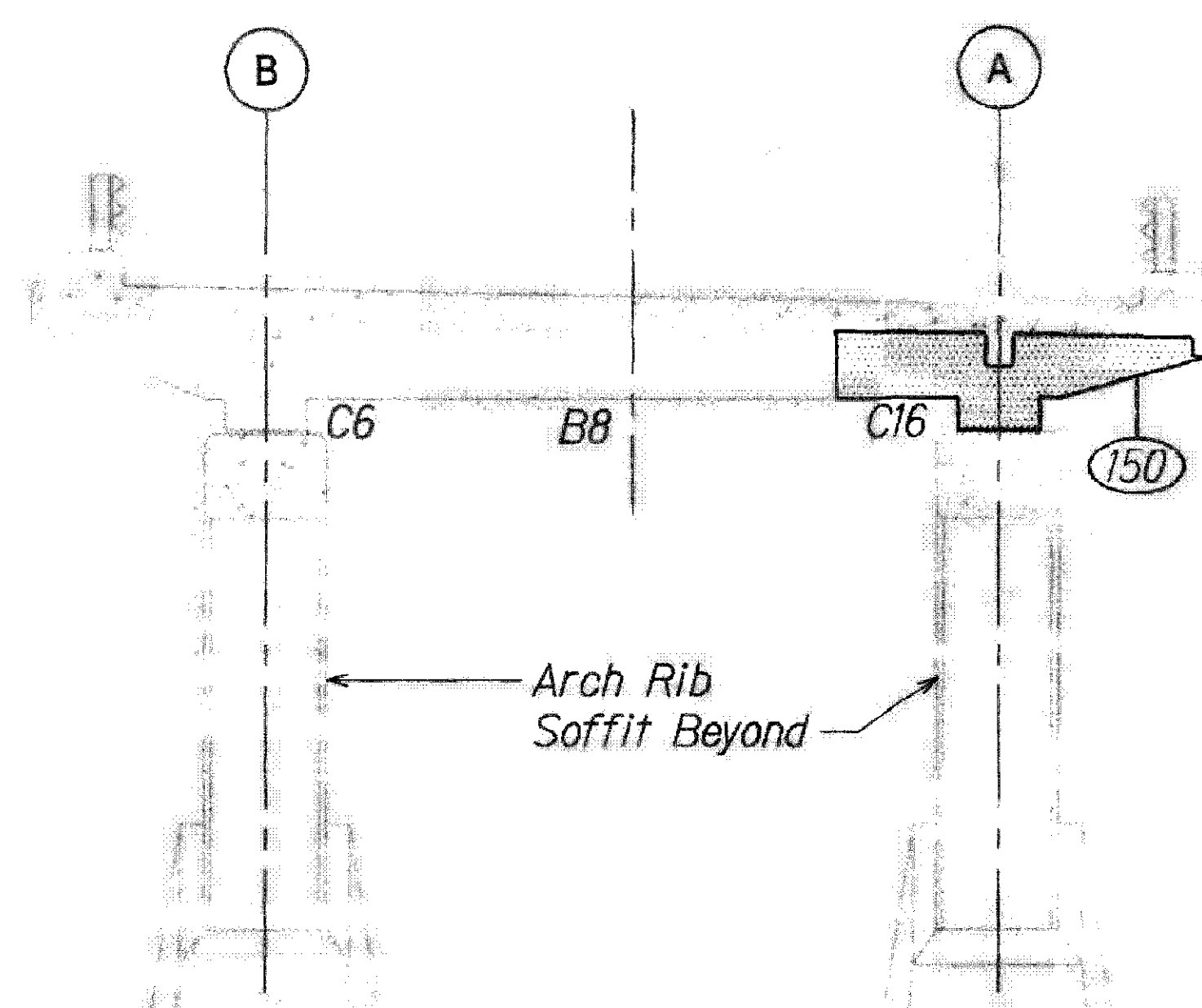
This certifies that the dimensions and details on these sheets reflect the dimensions, details and quantities of the work as actually constructed.

Certified by: *Shawn Lynn*  
Ideal Construction, Inc.

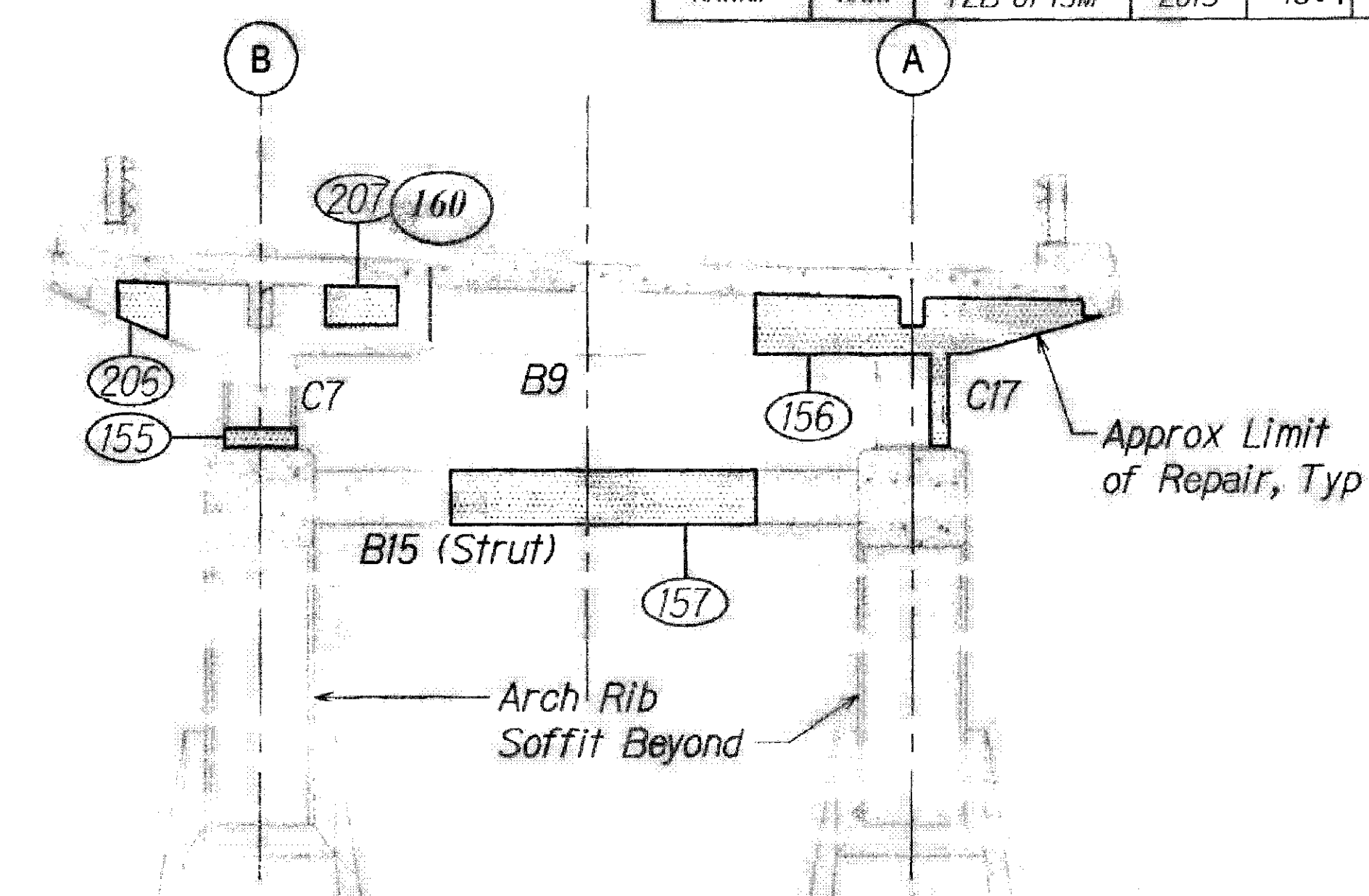
Signature: *Shawn Lynn*  
Date:



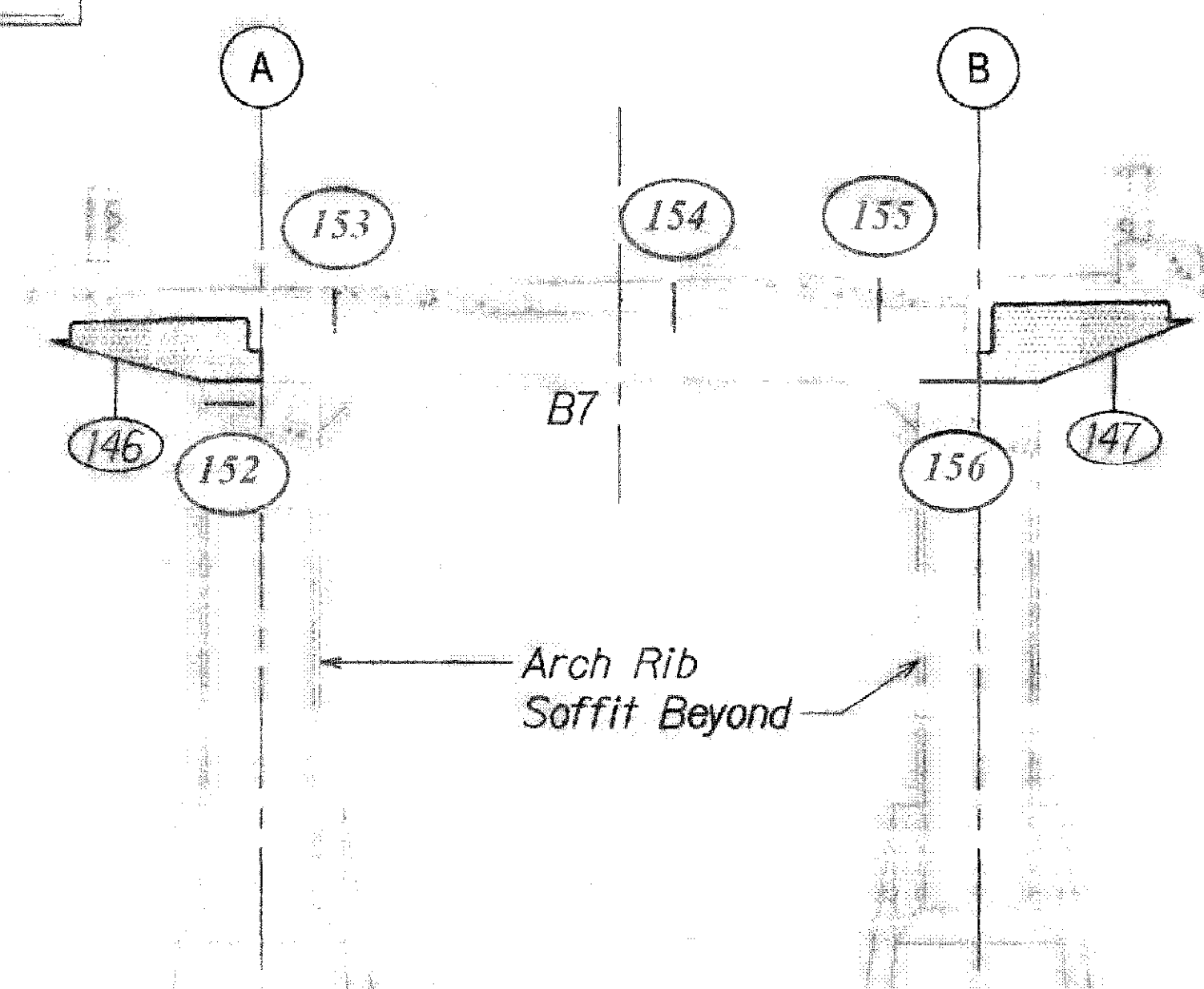
**WAIMANALO FACE**



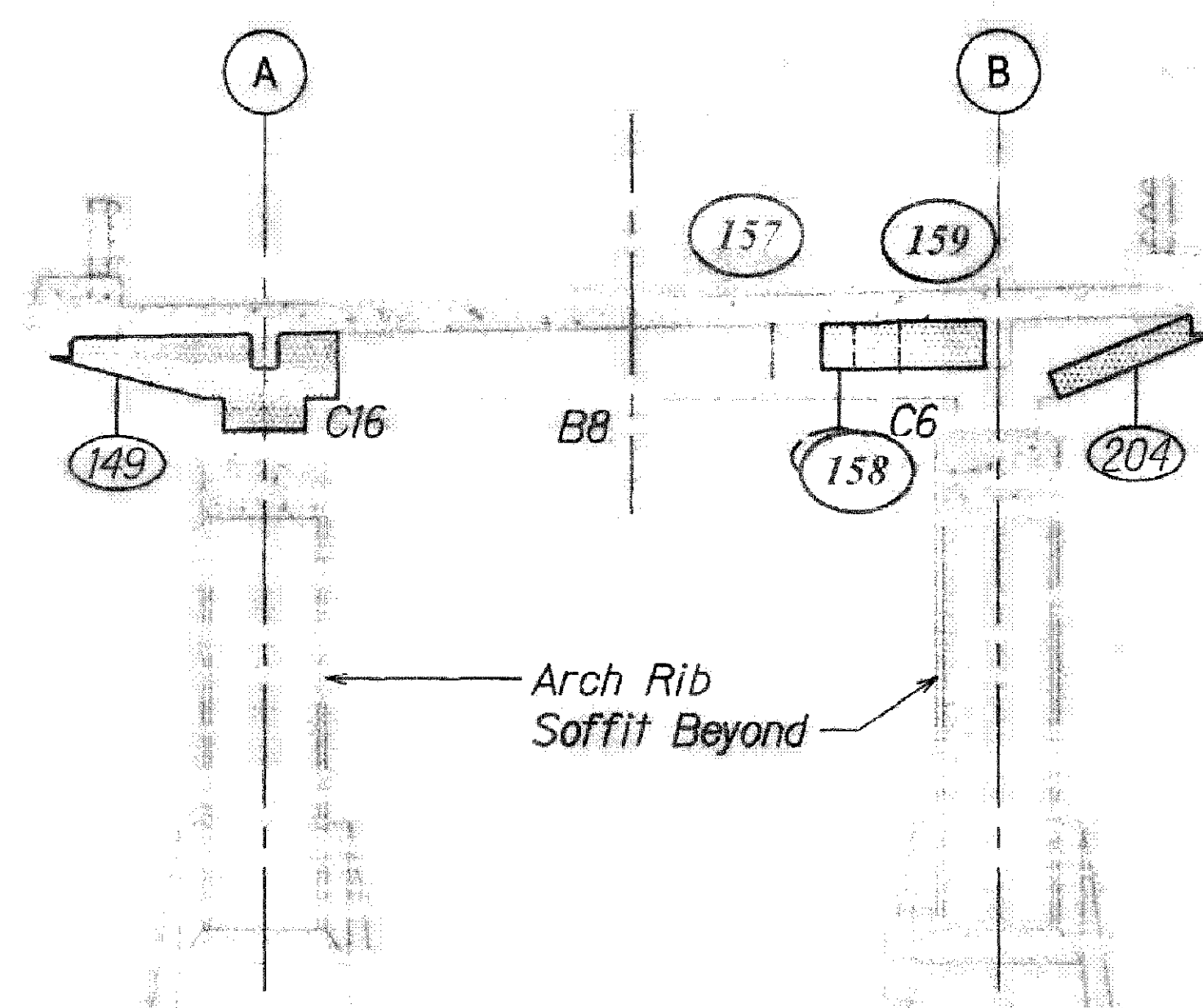
**WAIMANALO FACE**



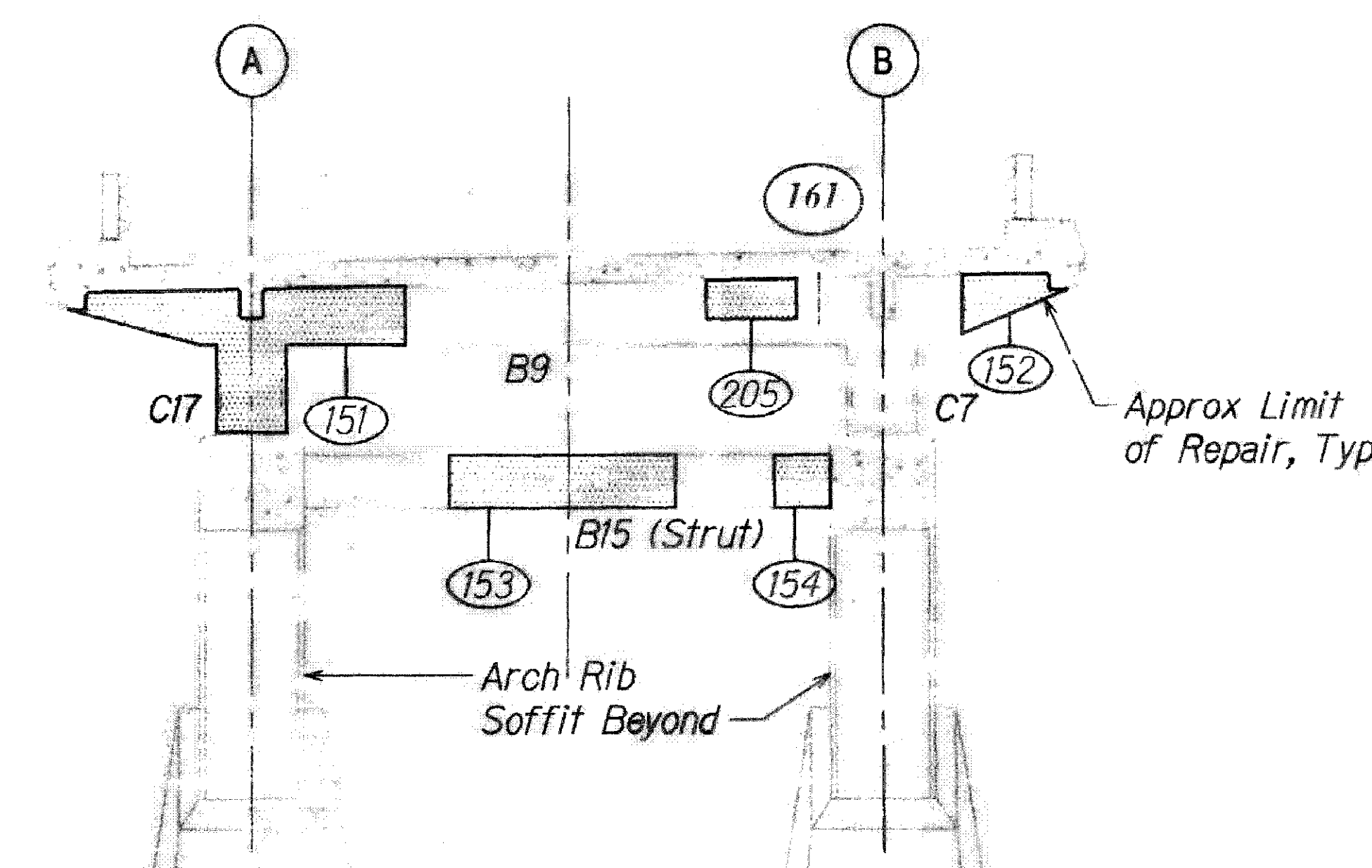
**WAIMANALO FACE**



**HONOLULU FACE**



**HONOLULU FACE**



**HONOLULU FACE**

**1 ELEVATIONS - BENT 7**  
S-12 S-12 Scale: 1/4" = 1'-0"

**2 ELEVATIONS - BENT 8**  
S-12 S-12 Scale: 1/4" = 1'-0"

**3 ELEVATIONS - BENT 9**  
S-12 S-12 Scale: 1/4" = 1'-0"

**NOTES:**

- Existing utility pipe along makai side of bridge not shown. See sheet S-8.

**REFERENCE DRAWINGS:**

- Bridge Elevations, see sheet S-8.
- Bridge Longitudinal Section, see sheet S-9.

**LEGEND**

- Extent of Repair
- Repair Number, See Schedule on Sheet S-14

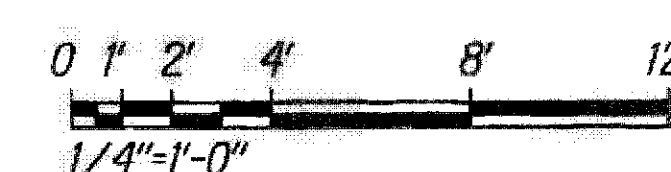
**LEGEND FOR AS-BUILT POSTINGS**

~~~~~ Squiggly line for as-built deletion

==00== Double line for as-built deletion

Roadway Text for as-built posting

GRAPHIC SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT ELEVATIONS

KALANIANA'OLE HIGHWAY
Emergency Repairs of Ihithilauakea Bridge
Project No. 72B-01-13M

Scale: As Shown Date: Jan. 16, 2013

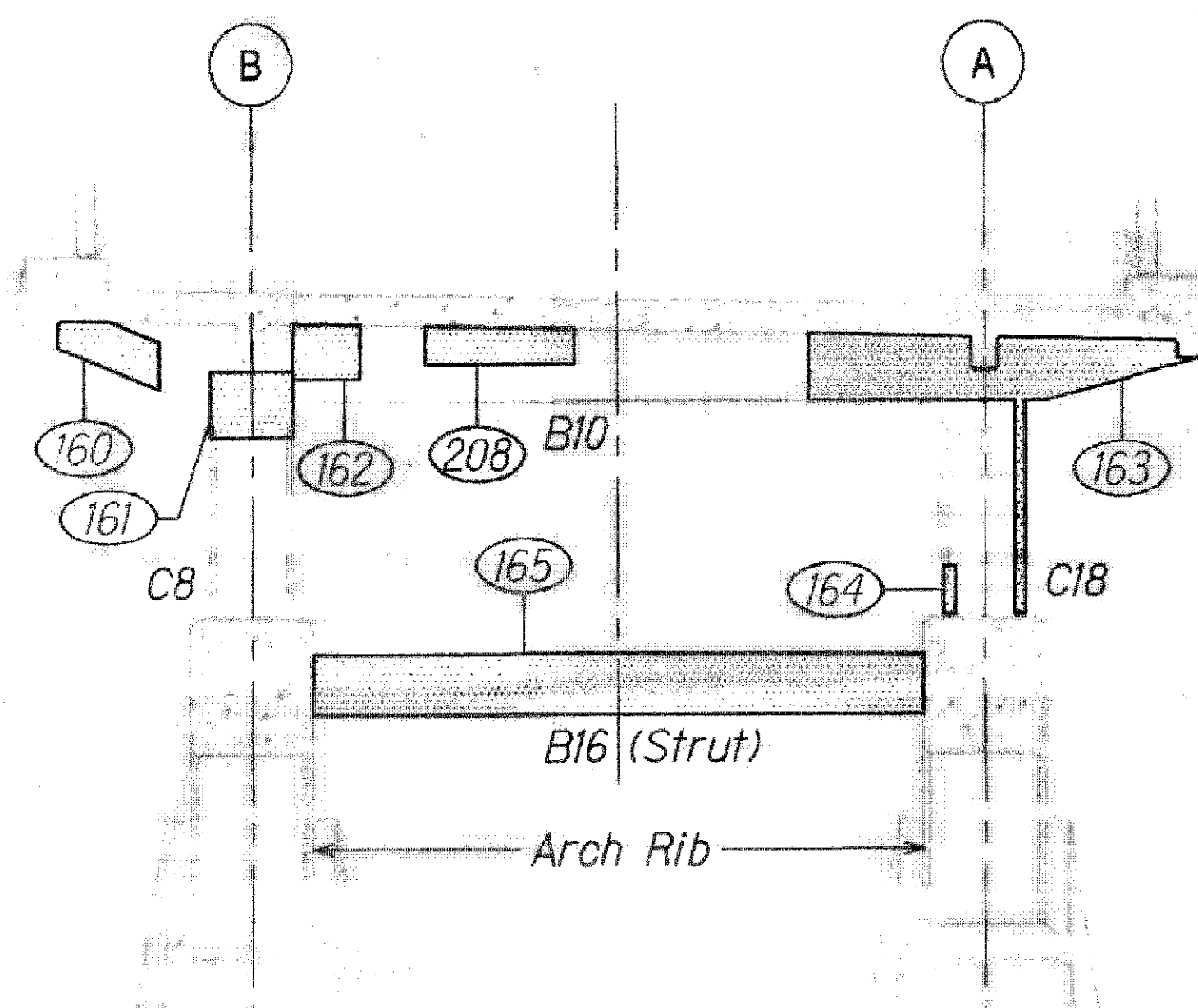
SHEET No. S-12 OF 26 SHEETS

"AS-BUILT"

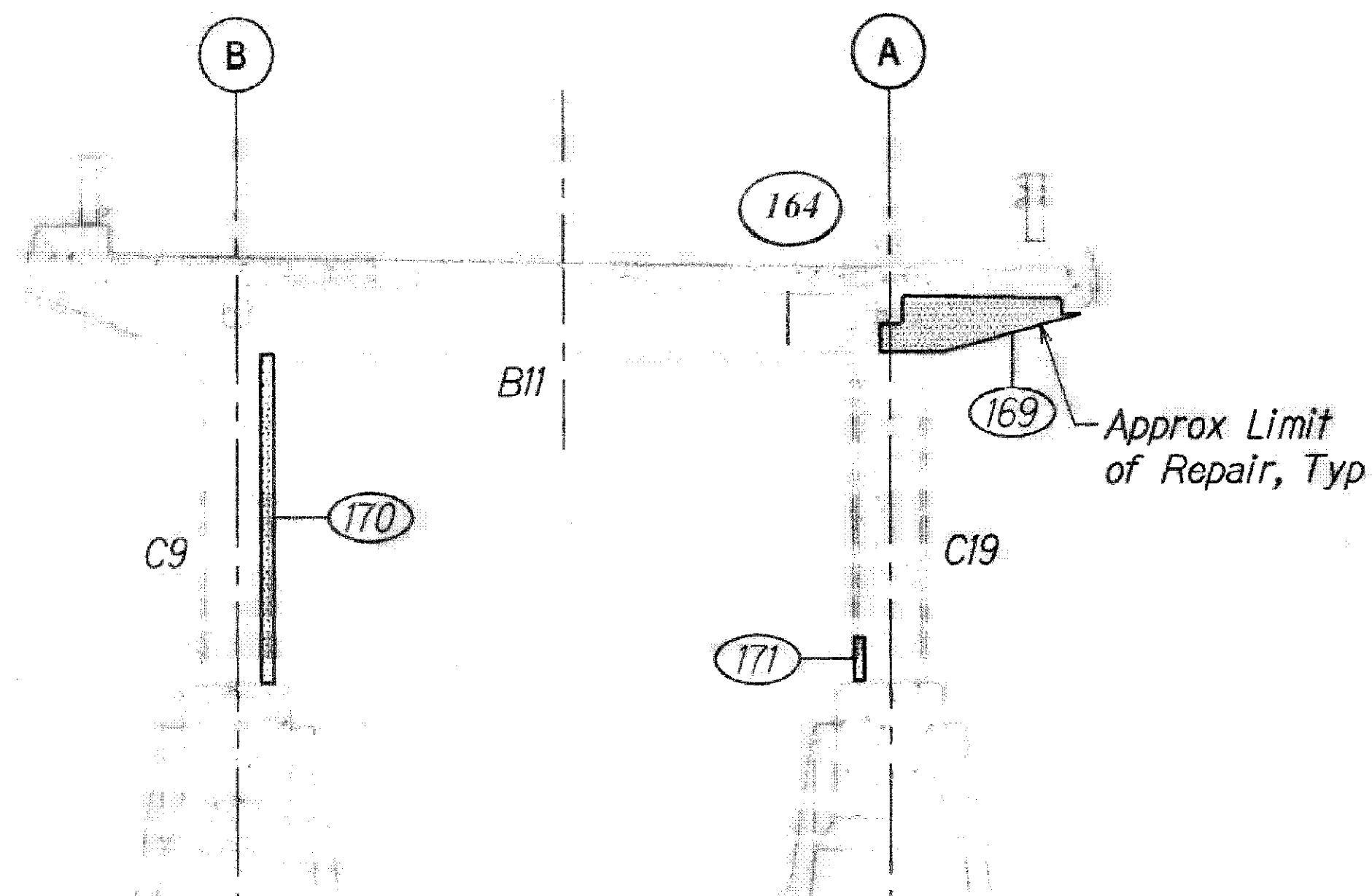
S-12B

155-1

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII | HAW. | 72B-01-13M | 2013 | 16S-1 | 34 |



WAIMANALO FACE



WAIMANALO FACE

