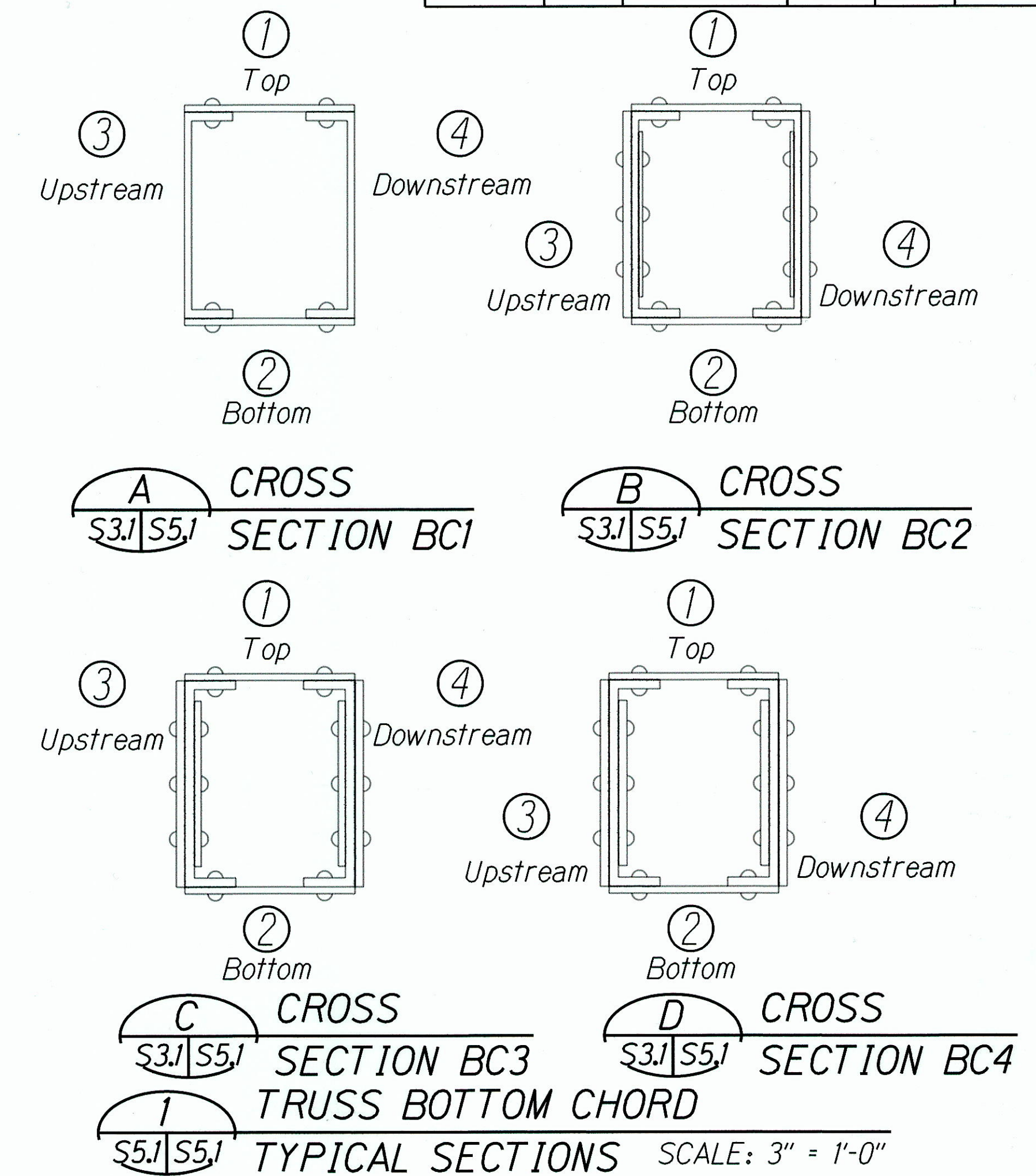


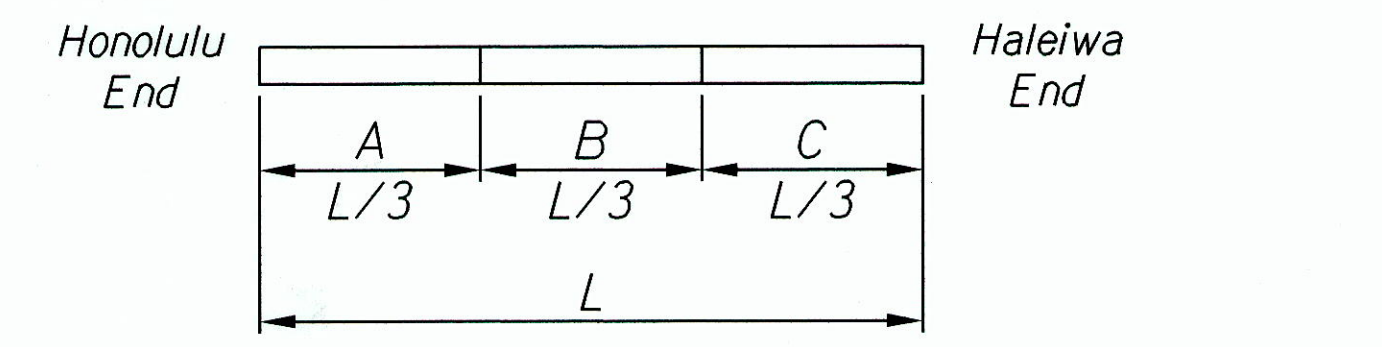
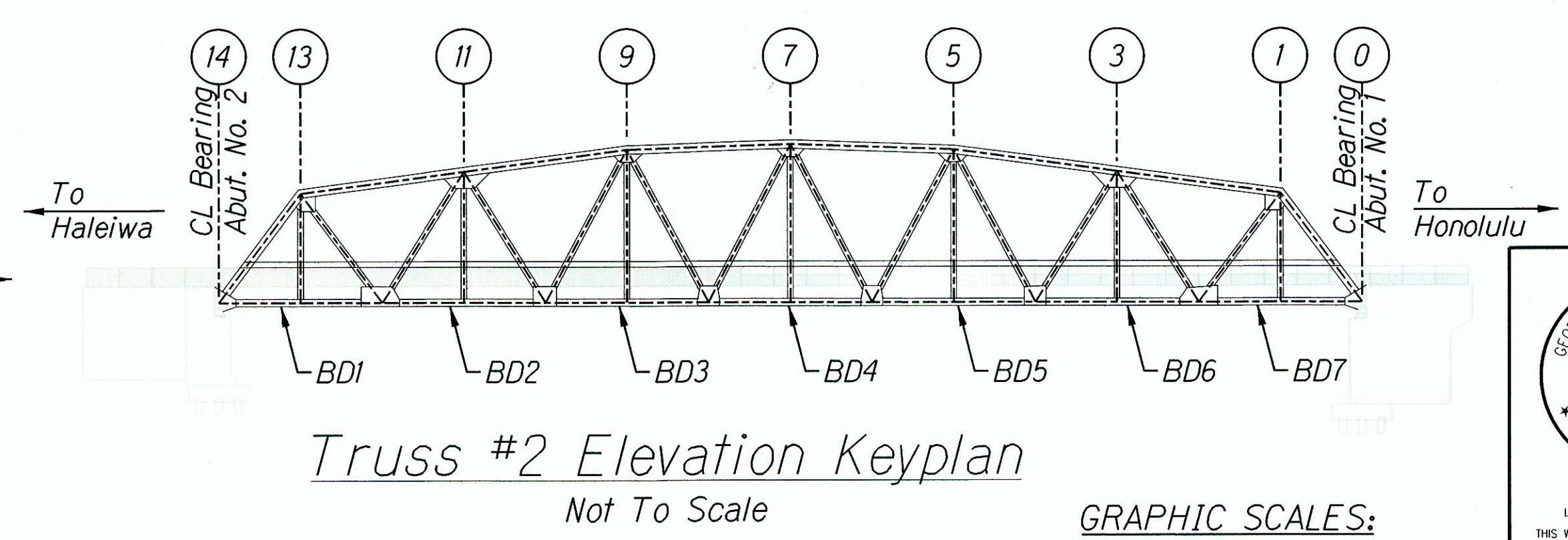
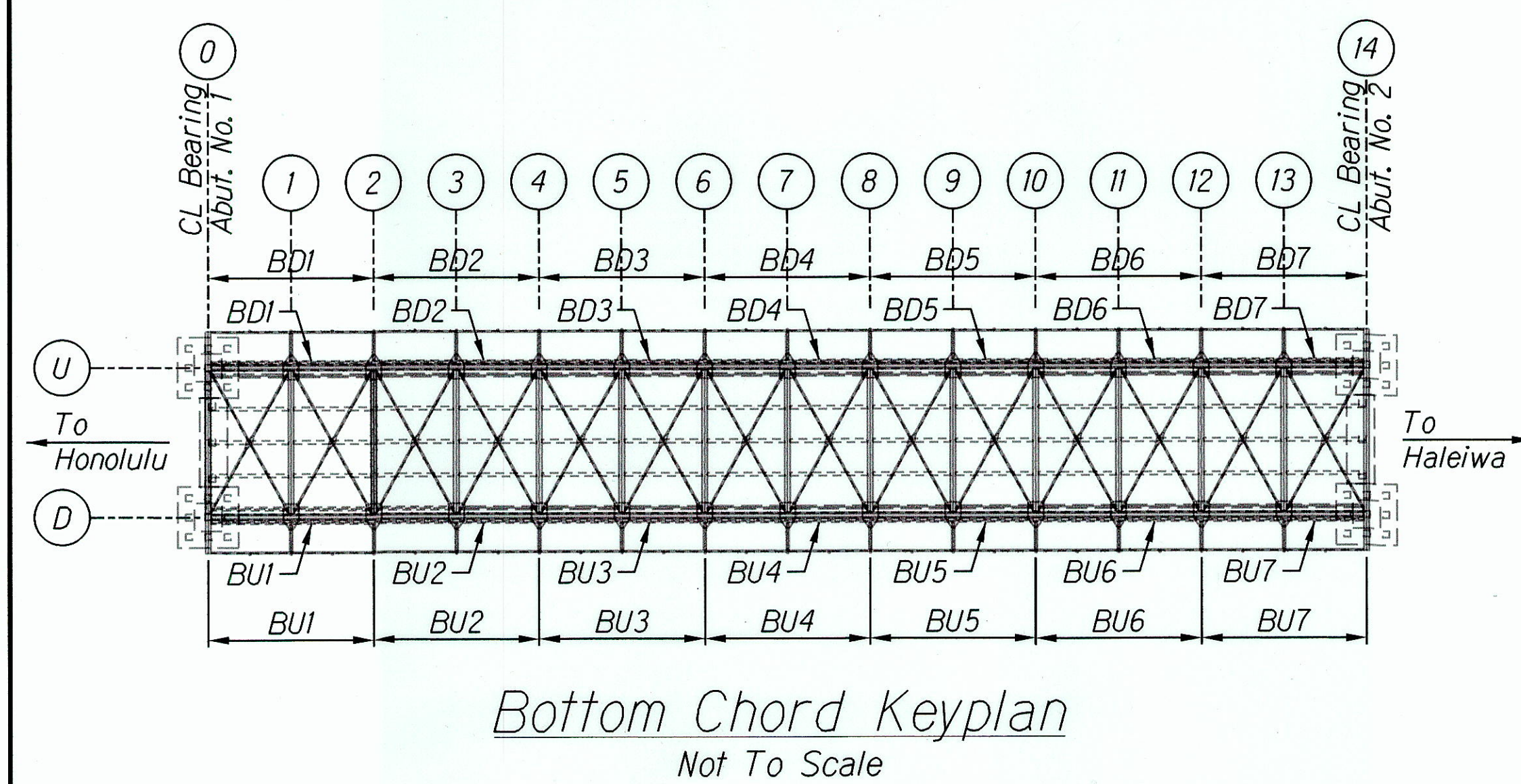
FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	40	82

TRUSS BOTTOM CHORD MEMBERS REPAIR SCHEDULE

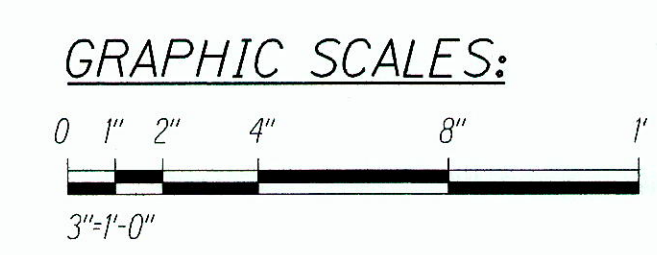
Label	Cross Section Detail	Face	Member Repair Length (Ft)			No. of Rivets to be Replaced			Chord Tie Plates			Repair Detail
			A	B	C	A	B	C	A	B	C	
BD1	BC1	See 1/S5.1										1/S5.18
		1	0	0	0	1 <del>±</del>	0	0	0	0	0	
		2	0	0	0	6 <del>±</del>	0	0	1 <del>±</del>	0	0	
		3	0	0	0	-	-	-	-	-	-	
BD2	BC2	1	0	0	0	0	0	0 <del>±</del>	0	0	0 <del>±</del>	1/S5.18
		2	0	0	0	1 <del>±</del>	0	0	0	0	0	
		3	0	0	0	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	-	-	-	
		4	0	0 <del>±</del>	0	0	0 <del>±</del>	0	-	-	-	
BD3	BC3	1	0	0	0	6 <del>±</del>	6 <del>±</del>	0 <del>±</del>	1 <del>±</del>	1	0	1/S5.18
		2	5'-5" <del>±</del>	0	0	6 <del>±</del>	0 <del>±</del>	0	1 <del>±</del>	0 <del>±</del>	0	
		3	0	0	0	0 <del>±</del>	0 <del>±</del>	0	-	-	-	
		4	0	0 <del>±</del>	0	0 <del>±</del>	0 <del>±</del>	0	-	-	-	
BD4	BC4	1	0	0	0	12 <del>±</del>	0	0 <del>±</del>	2 <del>±</del>	0	0	1/S5.18
		2	5'-5" <del>±</del>	0	7' <del>±</del>	6 <del>±</del>	0	12 <del>±</del>	1 <del>±</del>	0	2	
		3	0	0	0	0	0 <del>±</del>	0 <del>±</del>	-	-	-	
		4	0	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	-	-	-	
BD5	BC5	1	0	0	0	0	0	6 <del>±</del>	0	0	1 <del>±</del>	1/S5.18
		2	0	0	9' <del>±</del>	0	0 <del>±</del>	12 <del>±</del>	0	0	2 <del>±</del>	
		3	0	0	0	0	0 <del>±</del>	0 <del>±</del>	-	-	-	
		4	0	0 <del>±</del>	0	0	0 <del>±</del>	0 <del>±</del>	-	-	-	
BD6	BC6	1	0	0	0	0 <del>±</del>	0	6 <del>±</del>	0	0	1 <del>±</del>	1/S5.18
		2	0	0	0	0	0	0	0	0	0 <del>±</del>	
		3	0	0 <del>±</del>	0	0	0	0 <del>±</del>	-	-	-	
		4	0	0 <del>±</del>	0	0	0 <del>±</del>	0 <del>±</del>	-	-	-	
BD7	BC7	1	0	0	0	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	0	0	0	1/S5.18
		2	0	0	3'-5" <del>±</del>	0 <del>±</del>	0 <del>±</del>	0 <del>±</del>	0	0	0	
		3	0	0	0	-	-	-	-	-	-	
		4	0	0 <del>±</del>	0	-	-	-	-	-	-	



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



DATE: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 TRACED BY: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 NO. \_\_\_\_\_



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**REPAIR TABLES -**  
**TRUSS BOTTOM CHORD MEMBERS**  
 KAMEHAMEHA HIGHWAY  
 Repair and Repaint Karsten Thot Bridge  
 Federal Aid Project No. BR-080-1(012)  
 Scale: As Noted Date: Sept 2014  
 SHEET No. S5.1 OF 22 SHEETS

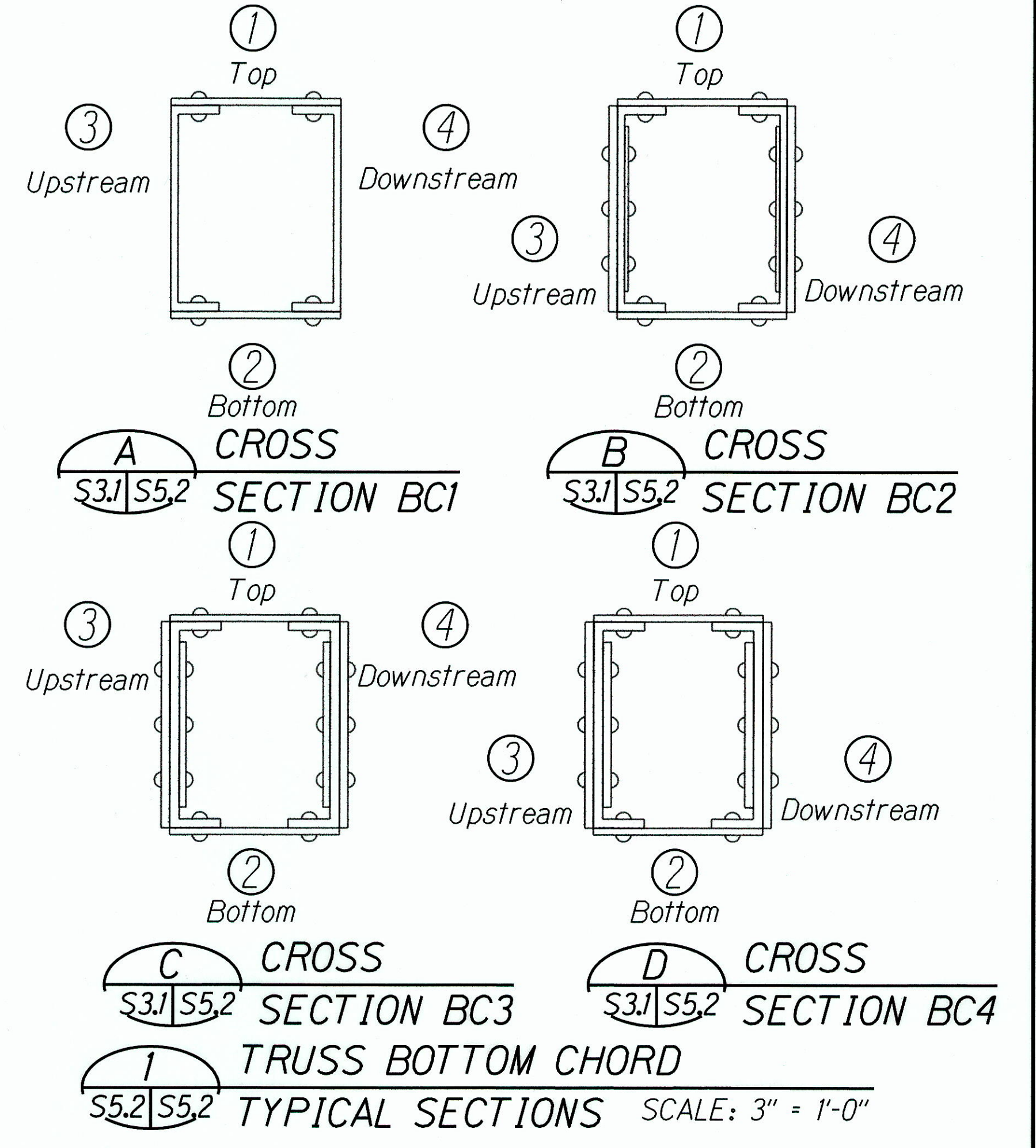
GEORGE O. GUTIERREZ JR.  
 LICENSED PROFESSIONAL ENGINEER  
 NO. 12107-S  
 HAWAII, U.S.A.  
 LICENSE EXPIRES: 4/30/16  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

"AS-BUILT"

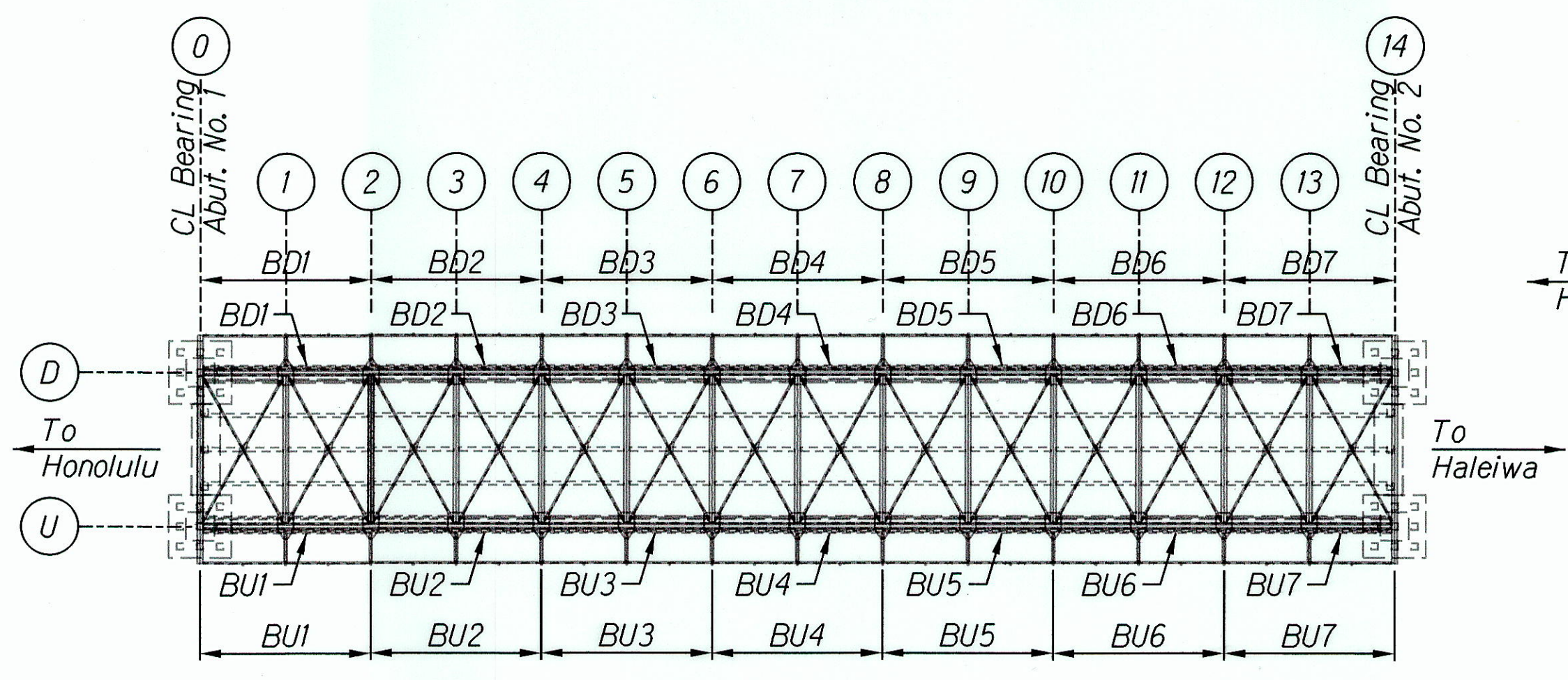
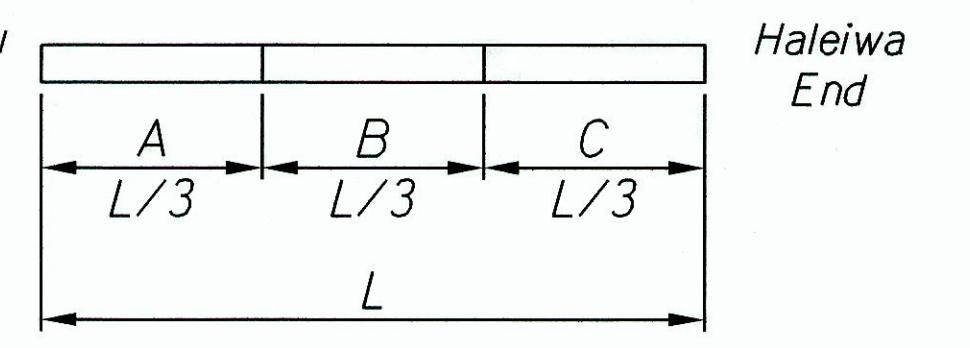
FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	41	82

TRUSS BOTTOM CHORD MEMBERS REPAIR SCHEDULE

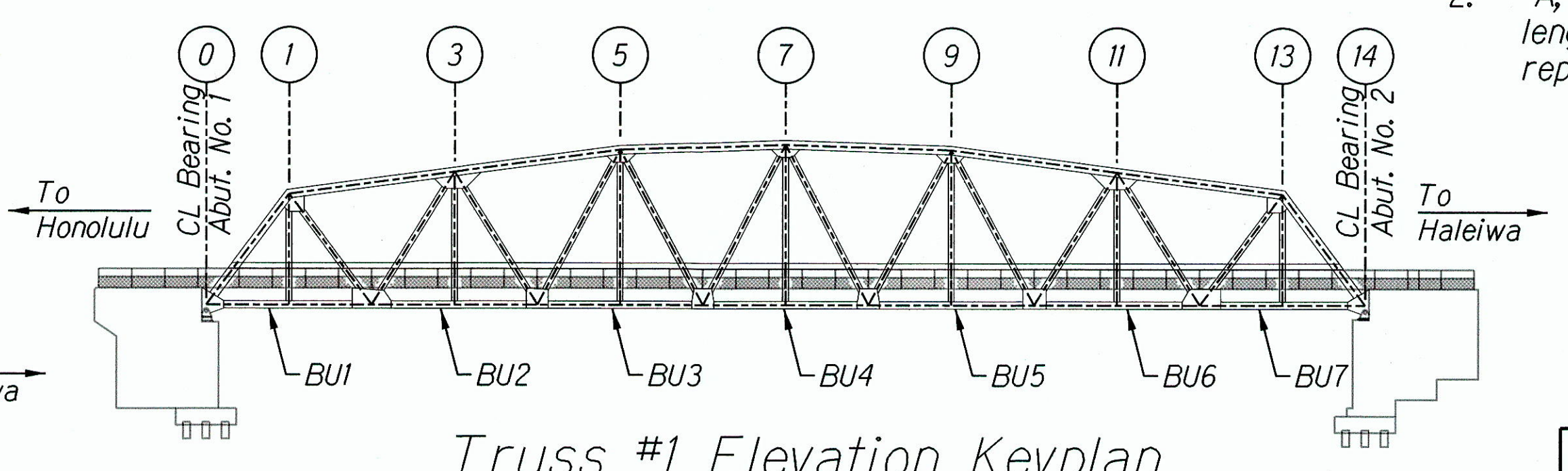
Label	Cross Section Detail	Face	Member Repair Length (Ft)			No. of Rivets to be Replaced			Chord Tie Plates			Repair Detail
			A	B	C	A	B	C	A	B	C	
BU1	BC1	1	0	0	0	0	0	0	0	0	0	1/S5.18
		2	0 <del>2</del>	0	2	0	0	0	0	0	0	
		3	0	0	0	-	-	-	-	-	-	
		4	0	0	0	-	-	-	-	-	-	
BU2	BC2	1	0	0	0	0	0	0	0	0	0	1/S5.18
		2	0	0	0	6 <del>6</del>	0 <del>2</del>	6 <del>6</del>	1 <del>1</del>	0	1 <del>1</del>	
		3	0	0 <del>3</del>	0	0	0	0	-	-	-	
BU3	BC3	1	0	0	0	0	0	0	0	0	0	1/S5.18
		2	7 <del>7</del>	0 <del>2</del>	0	6 <del>6</del>	0	0	1 <del>1</del>	0	0	
		3	0	0 <del>3</del>	0	0	0 <del>6</del>	0	-	-	-	
BU4	BC4	1	0	0	0	0	0	0	0	0	0	1/S5.18
		2	8 <del>8</del>	0	0 <del>3</del>	6 <del>6</del>	0	12 <del>12</del>	1 <del>1</del>	0	2 <del>2</del>	
		3	0	0	0	0	0 <del>5</del>	0	-	-	-	
		4	0	0	0	0	0	0	-	-	-	
BU5	BC3	1	0	0	0	0	0	0	0	0	0	1/S5.18
		2	0	0	0	0	0	0	0	0	0	
		3	0	0 <del>2</del>	0	0	0	0 <del>6</del>	-	-	-	
		4	0	0	0	0	0	0	-	-	-	
BU6	BC2	1	0 <del>1</del>	0	0	0	0	0	0	0	0	1/S5.18
		2	0 <del>1</del>	0	0	0	0	0	0	0	0 <del>1</del>	
		3	0	0	0	0	0	0	-	-	-	
		4	0	0	0	0	0	0	-	-	-	
BU7	BC1	1	0	0	0 <del>2</del>	0	0	0	0	0	0	1/S5.18
		2	0	0	0 <del>2</del>	0	0	0	0	0	0	
		3	0	0	0	-	-	-	-	-	-	
		4	0	0	0	-	-	-	-	-	-	



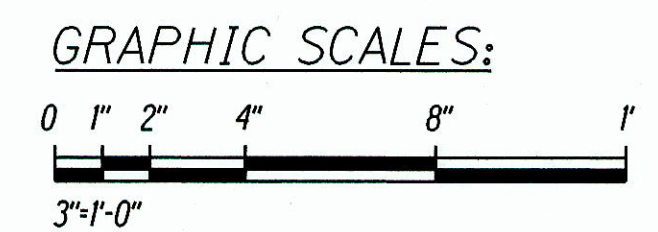
- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



Bottom Chord Keyplan  
Not To Scale



Truss #1 Elevation Keyplan  
Not To Scale



DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NO.	_____

GEORGE O. GUTIERREZ, JR.  
LICENSED PROFESSIONAL ENGINEER  
NO. 12107-S  
HAWAII, U.S.A.

LICENSE EXPIRES: 4/30/16  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**REPAIR TABLES -  
TRUSS BOTTOM CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
Repair and Repaint Karsten Thot Bridge  
Federal Aid Project No. BR-080-1(012)

Scale: As Noted      Date: Sept 2014

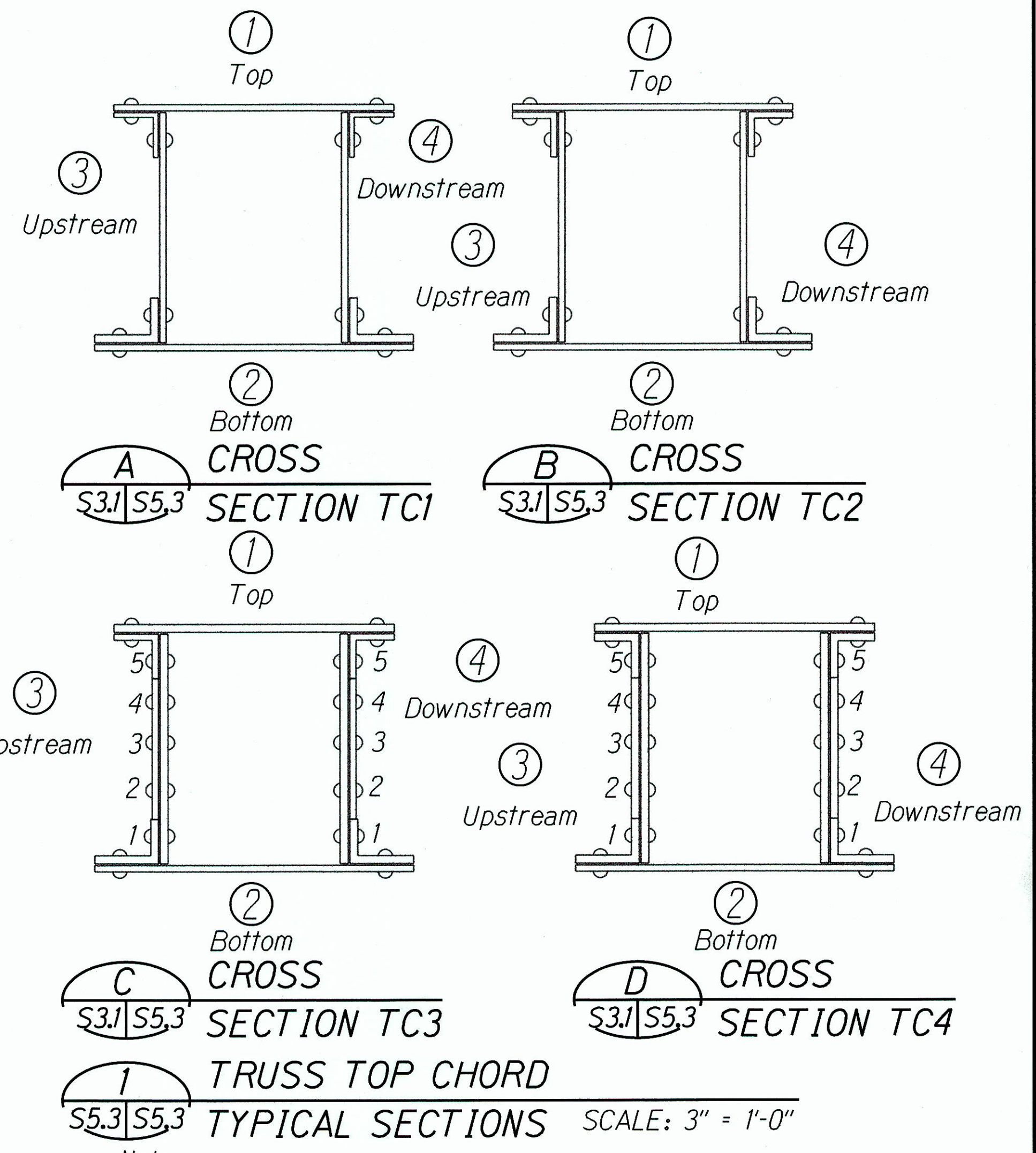
SHEET No. S5.2 OF 22 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	42	82

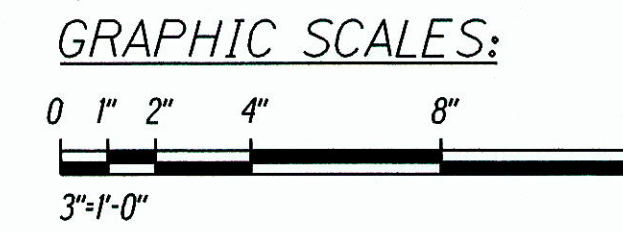
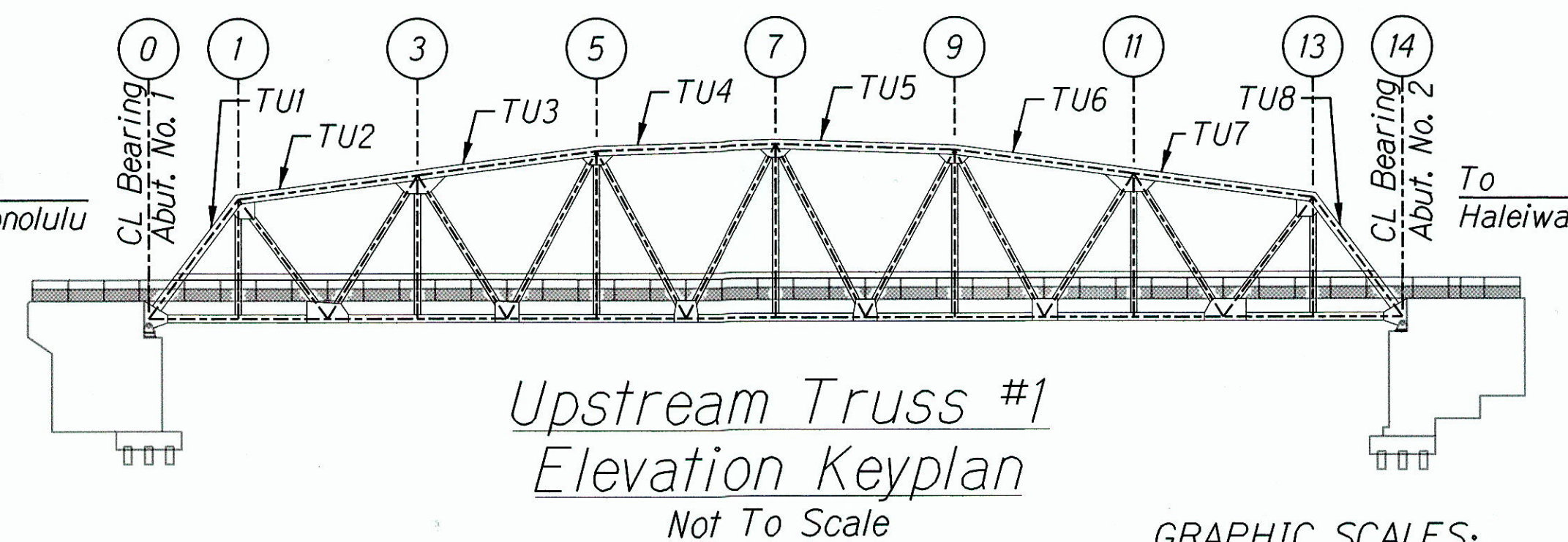
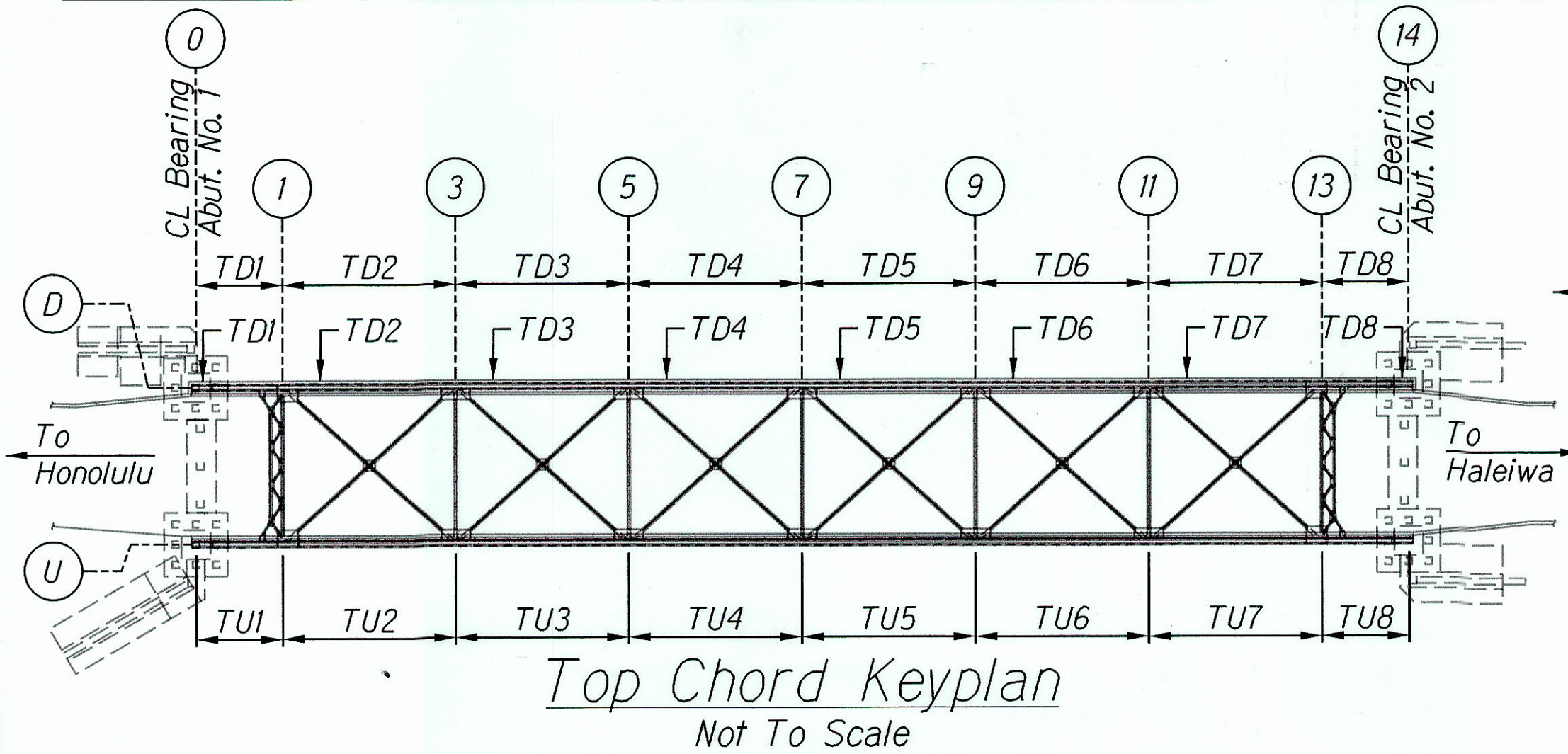
TRUSS TOP CHORD REPAIR SCHEDULE

Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail		
			A	B	C		A	B	C	A	B	C			
TU1	TC1	1	0	0	0	1	0	5	0	5	25	10	1/S5.19		
		2	0	0.1'-0"	0	2	2	35	3	20	2	20		14	22
		3	0.7'-0"	0.6'-0"	0.6'-0"	3	5	10	11	15	7	15			
		4	0	0	0	4	5	12	5	6	10				
TU2	TC2	1	5.4'-0"	3'-0"		5	44	50	44	40	44	75	1/S5.19		
		2	0	0	0	2	3	35	5	35	3	35		22	
		3	0	0	0	3	30	40	42	40	33	40			
		4	0.2	0.2	0.2	4	36	5	40	0	35	0			
TU3	TC3	1	0	0	0	1	42	70	42	40	42	40	1/S5.19		
		2	0	0	0	2	3	35	5	35	3	35		22	
		3	0.3'-0"			3	0	0	0	0					
		4	0.3'-0"			4	0	0	0	0					
		5	0.3'-0"			5	0	0	0	0					
		6	0.3'-0"			6	0	0	0	0					
		7	0.3'-0"			7	0	0	0	0					
		8	0.3'-0"			8	0	0	0	0					
		9	0.3'-0"			9	0	0	0	0					
		10	0.3'-0"			10	39	35	35	30	35				
TU4	TC4	1	0	0	0	1	44	70	46	40	46	40	1/S5.19		
		2	0	0	0	2	3	35	5	35	3	35		22	
		3	0.3'-0"			3	0	0	0	0					
		4	0.3'-0"			4	0	0	0	0					
		5	0.3'-0"			5	0	0	0	0					
		6	0.3'-0"			6	0	0	0	0					
		7	0.3'-0"			7	0	0	0	0					
		8	0.3'-0"			8	0	0	0	0					
		9	0.3'-0"			9	0	0	0	0					
		10	0.3'-0"			10	47	35	45	35	47	35			
		1	0	0	0	1	43	35	38	35	25	35			
		2	0	0	0	2	0	0	0	0					
		3	0	0	0	3	0	0	0	0					
		4	0	0	0	4	0	0	0	0					



- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
- "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 TRACED BY \_\_\_\_\_  
 NOTED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NO. \_\_\_\_\_



GEORGE O. GUTIERREZ, JR.  
 LICENSED PROFESSIONAL ENGINEER  
 NO. 12107-S  
 HAWAII, U.S.A.  
 LICENSE EXPIRES: 4/30/16  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

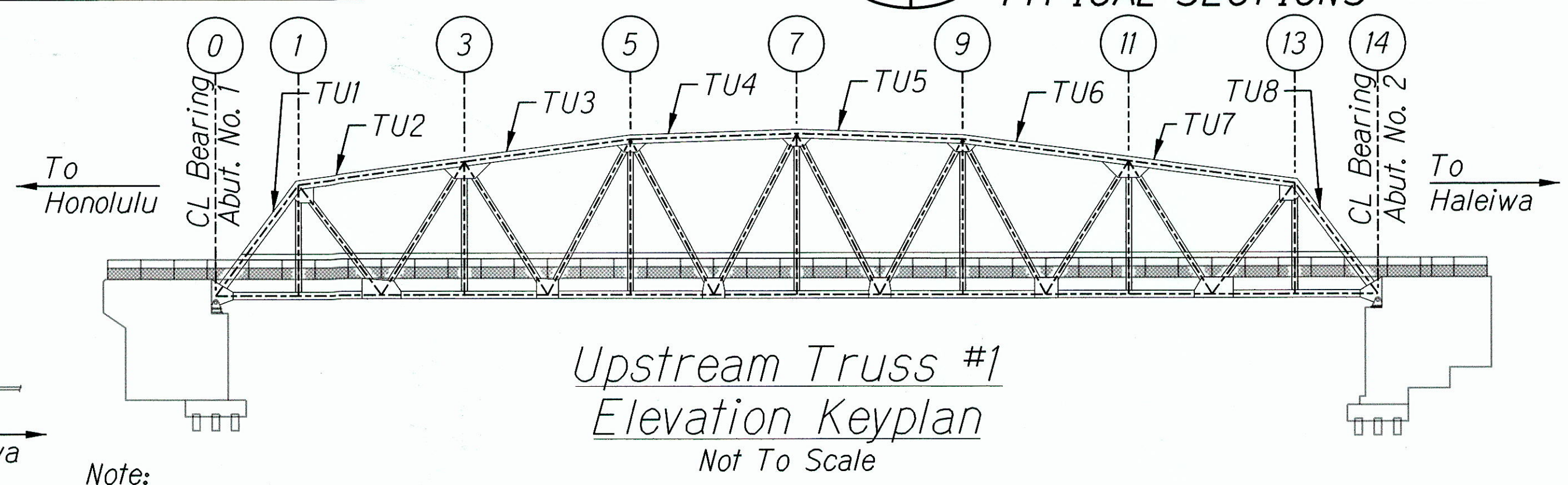
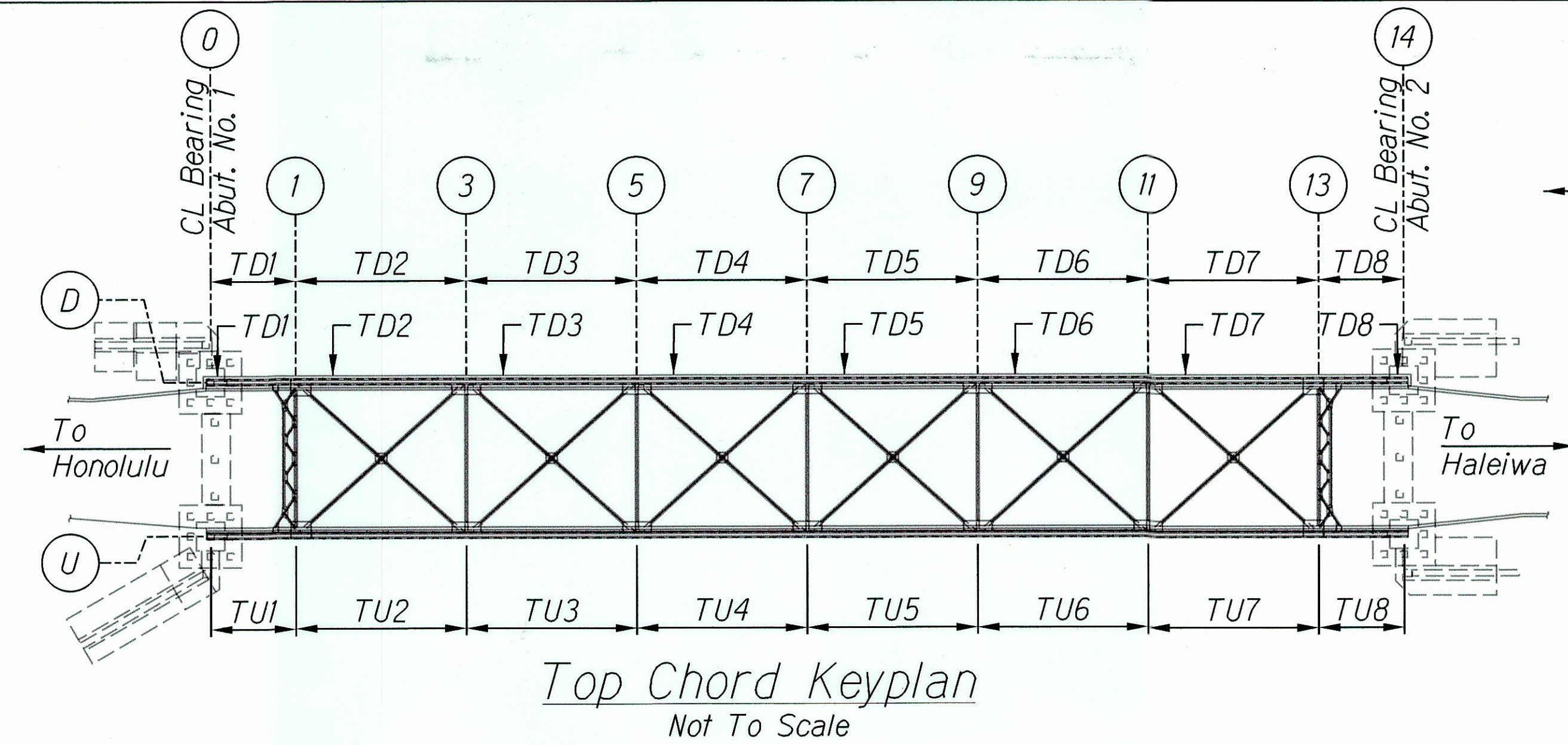
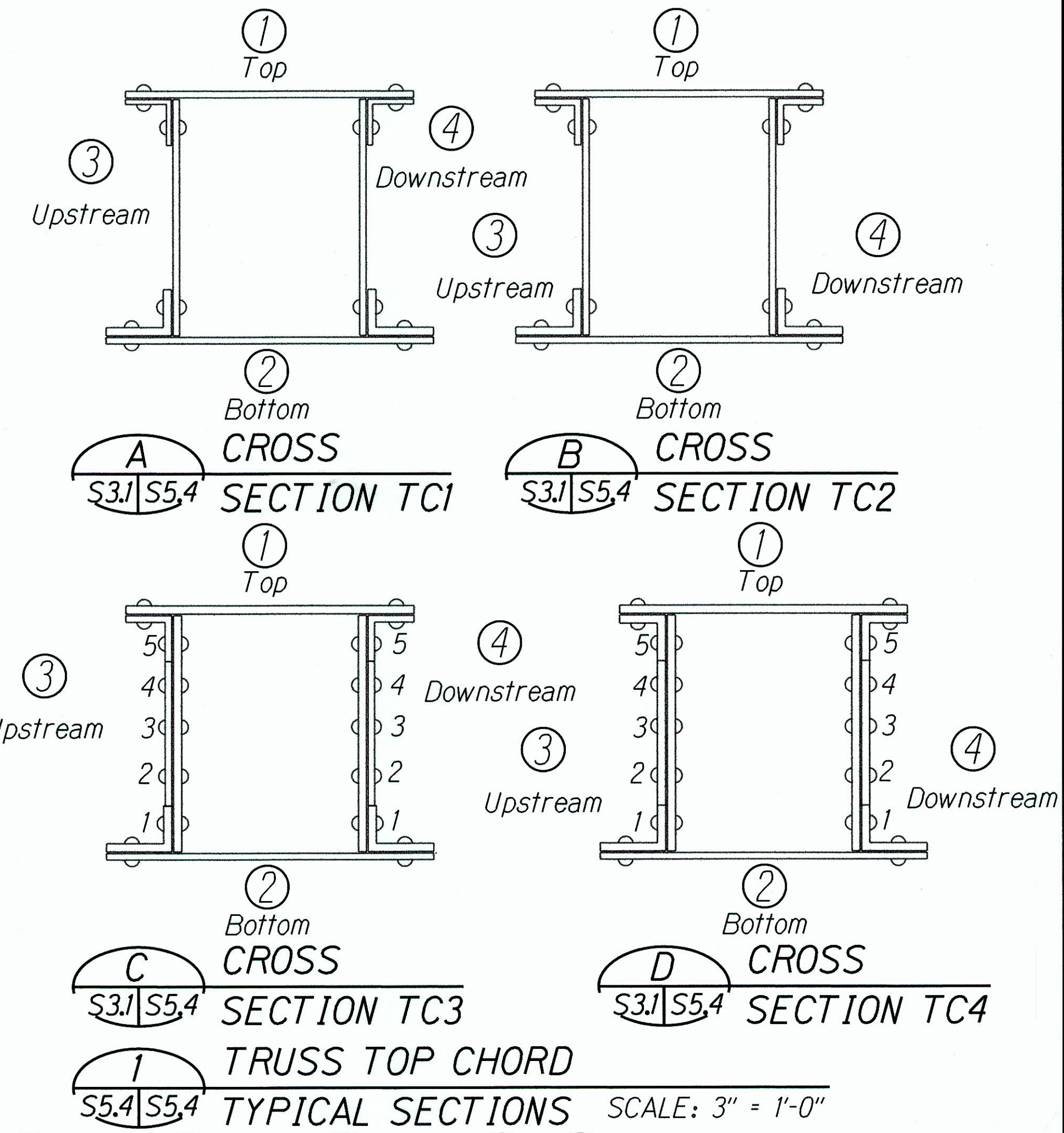
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**REPAIR TABLES -**  
**TRUSS TOP CHORD MEMBERS**  
 KAMEHAMEHA HIGHWAY  
 Repair and Repaint Karsten Hot Bridge  
 Federal Aid Project No. BR-080-1(012)  
 Scale: As Noted Date: Sept 2014  
 SHEET No. S5.3 OF 22 SHEETS

"AS-BUILT"

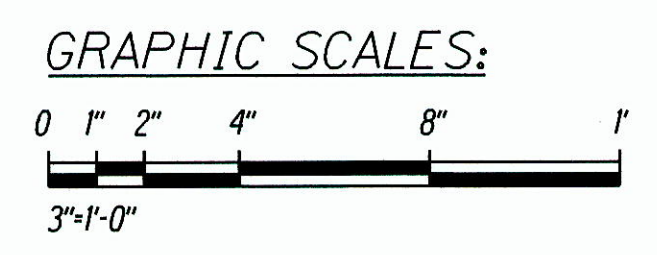
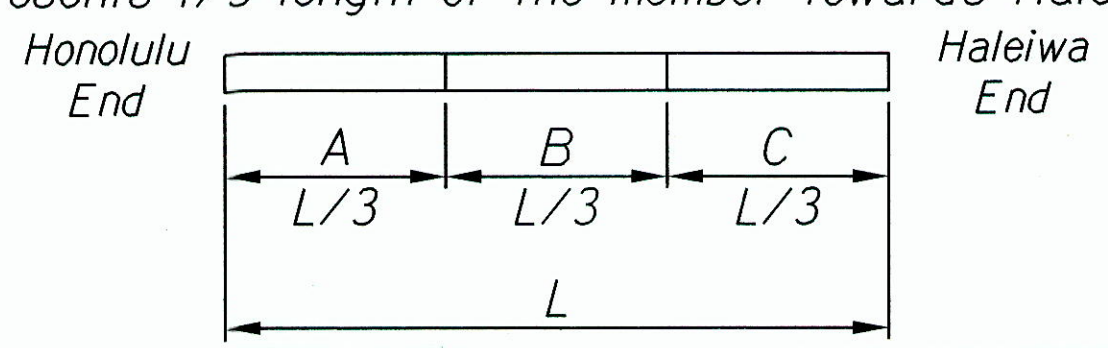
FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	43	82

TRUSS TOP CHORD REPAIR SCHEDULE

Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail
			A	B	C		A	B	C	A	B	C	
TU5	TC4	10'-0"	See 1/S5.4										1/S5.19
			1	0	31'-0"	0	44-70	46-40	46-40	-	-	-	
			2	0	0	0	3-35	5-35	3-30	22			
			3	0	31'-0"	0	0-10	0-5	1-5				
			4	0	0	0	0	0	0				
			5	0	0	0	0	0	0				
			3	0	0	0	0	0	0				
			2	0	0	0	0	0	0				
			1	40-35	44-35	45-35							
			5	0	0	0							
			4	0	0	0							
			3	0	0	0							
2	0	0	0										
1	39-35	42-35	45-35										
TU6	TC3		See 1/S5.4										1/S5.19
			1	34'-10"	31'-0"	0	46-70	46-40	46-40	-	-	-	
			2	0	0	0	3-35	5-35	3-30	22			
			3	0	31'-0"	0	0	0	0				
			4	0	0	0	0	0	0				
			5	0	0	0	0	0	0				
			3	0	0	0	0	0	0				
			2	3-0	1-0	8-0							
			1	42-35	43-35	50-35							
			5	0	0	0							
			4	0	0	0							
			3	0	0	0							
2	0	0	0										
1	43-35	33-35	36-35										



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 TRACED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 No. \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**REPAIR TABLES -  
 TRUSS TOP CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
 Repair and Repaint Karsten Thot Bridge  
 Federal Aid Project No. BR-080-1(012)

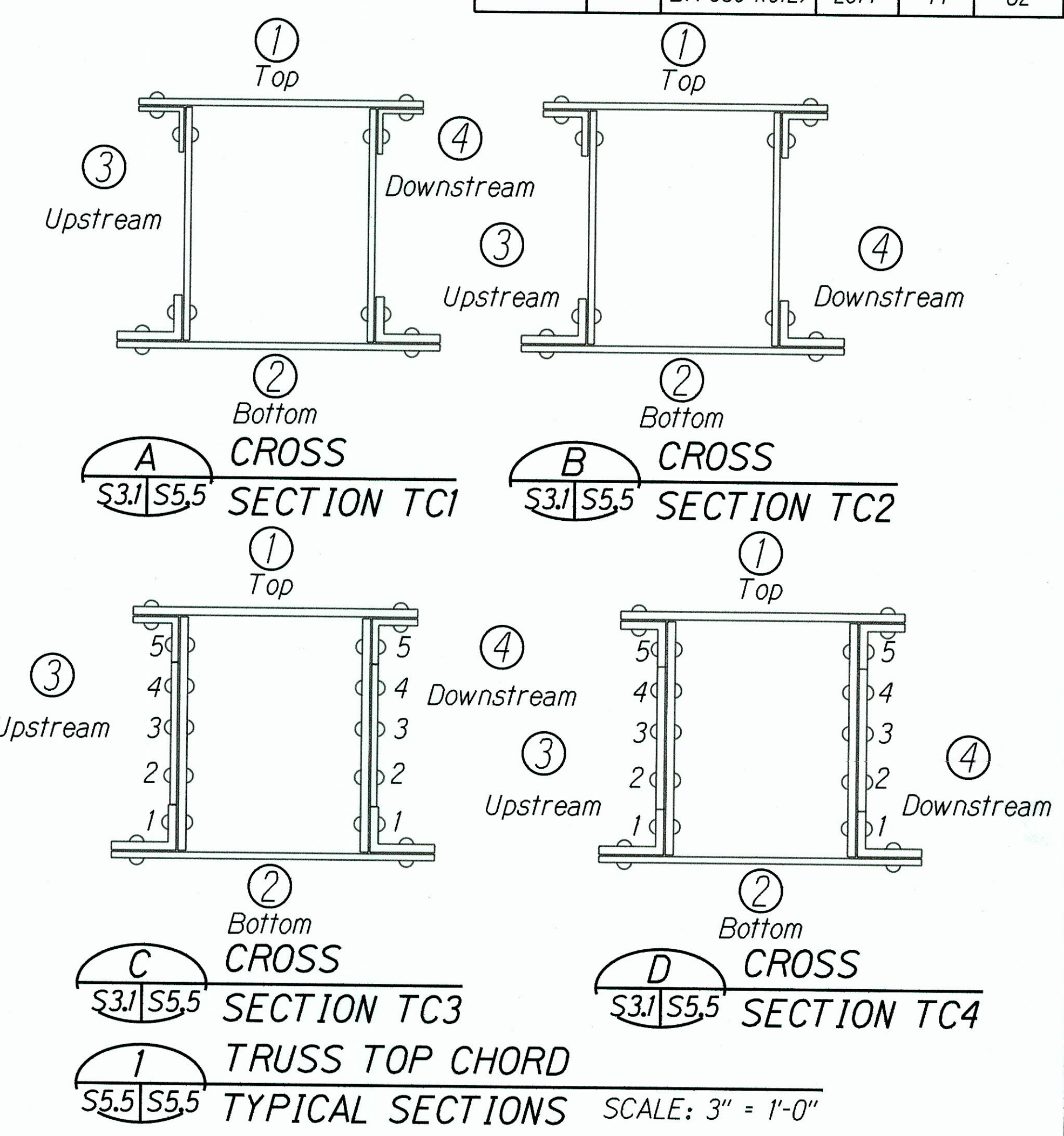
Scale: As Noted Date: Sept 2014

SHEET No. S5.4 OF 22 SHEETS

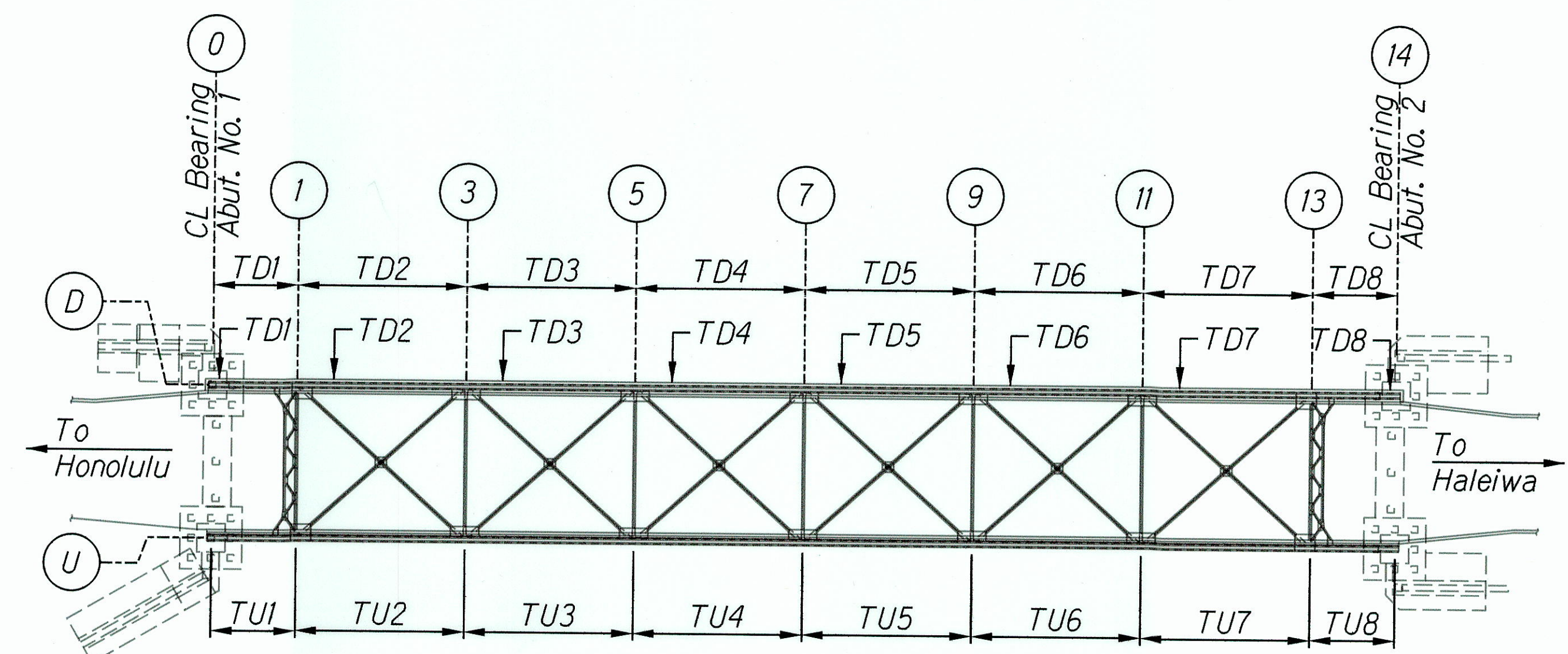
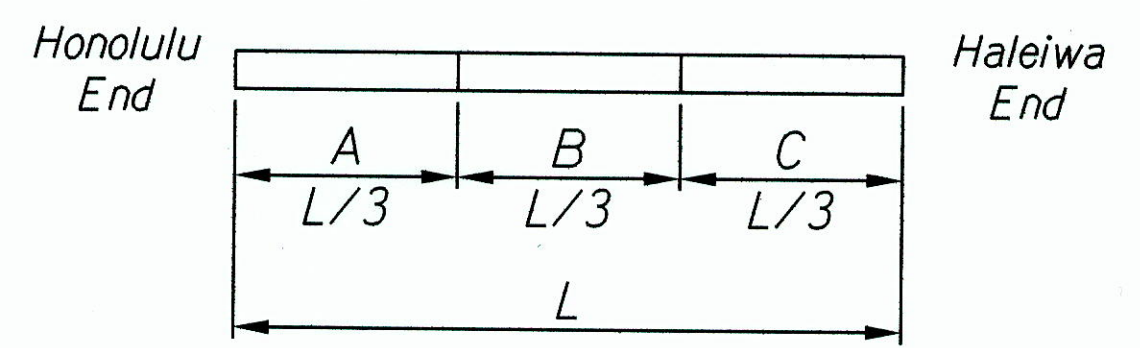
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	44	82

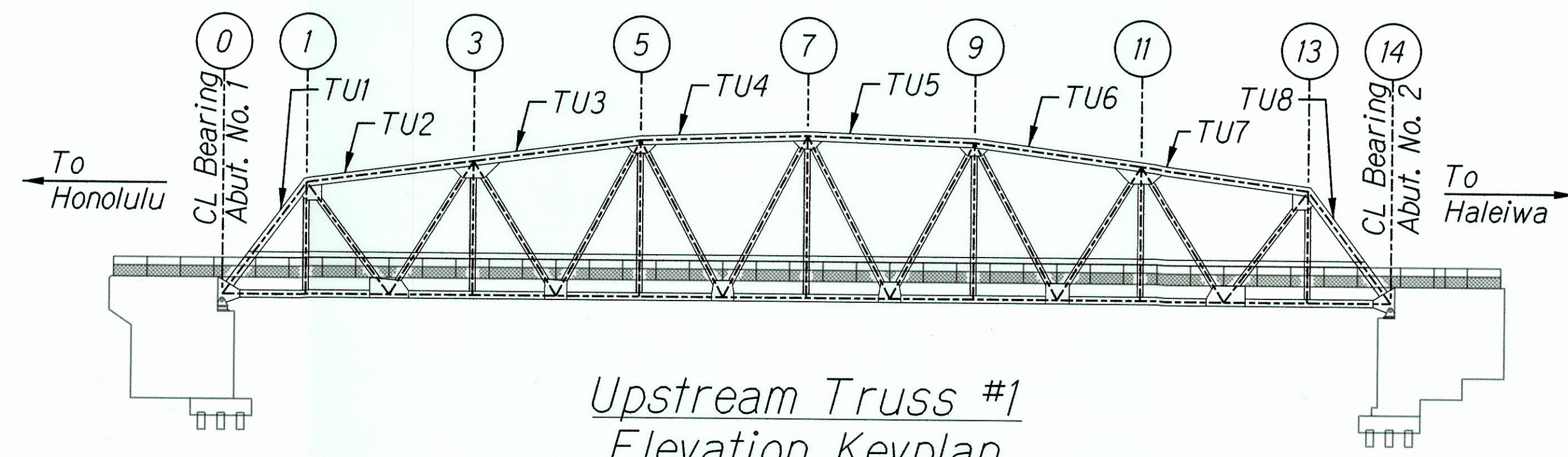
TRUSS TOP CHORD REPAIR SCHEDULE														
Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail	
			A	B	C		A	B	C	A	B	C		
TU7	TC2	1	54'-0"	31'-0"			46-60	46-40	46-70	-	-	-	1/S5.19	
		2	0	0	0		3-35	5-35	3-35	22				
		3	0	31'-0"			45-40	32-40	39-40	-	-	-		
		4	0	0	0		35-10	25-5	25-0	-	-	-		
TU8	TC1	1	0	0	0		29-35	0-20	0-5	14-22			1/S5.19	
		2	0	0	0		2-5	3-20	2-10	-	-	-		
		3	0	4'-0"	0	0		15-10	18-10	2-15	-	-		-
		4	0	0	0	0		8-25	22-15	0	-	-		-



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S41.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.

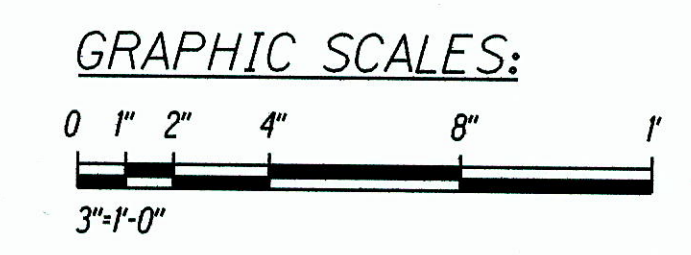


Top Chord Keyplan  
Not To Scale



Upstream Truss #1  
Elevation Keyplan  
Not To Scale

DATE: \_\_\_\_\_  
 SURVEY PLOTTED BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 NOTEBOOK: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 No. \_\_\_\_\_



GEORGE O. GUTIERREZ JR.  
 LICENSED PROFESSIONAL ENGINEER  
 NO. 12107-S  
 HAWAII, U.S.A.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**REPAIR TABLES -  
 TRUSS TOP CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
 Repair and Repair Karsten Thot Bridge  
 Federal Aid Project No. BR-080-1(012)

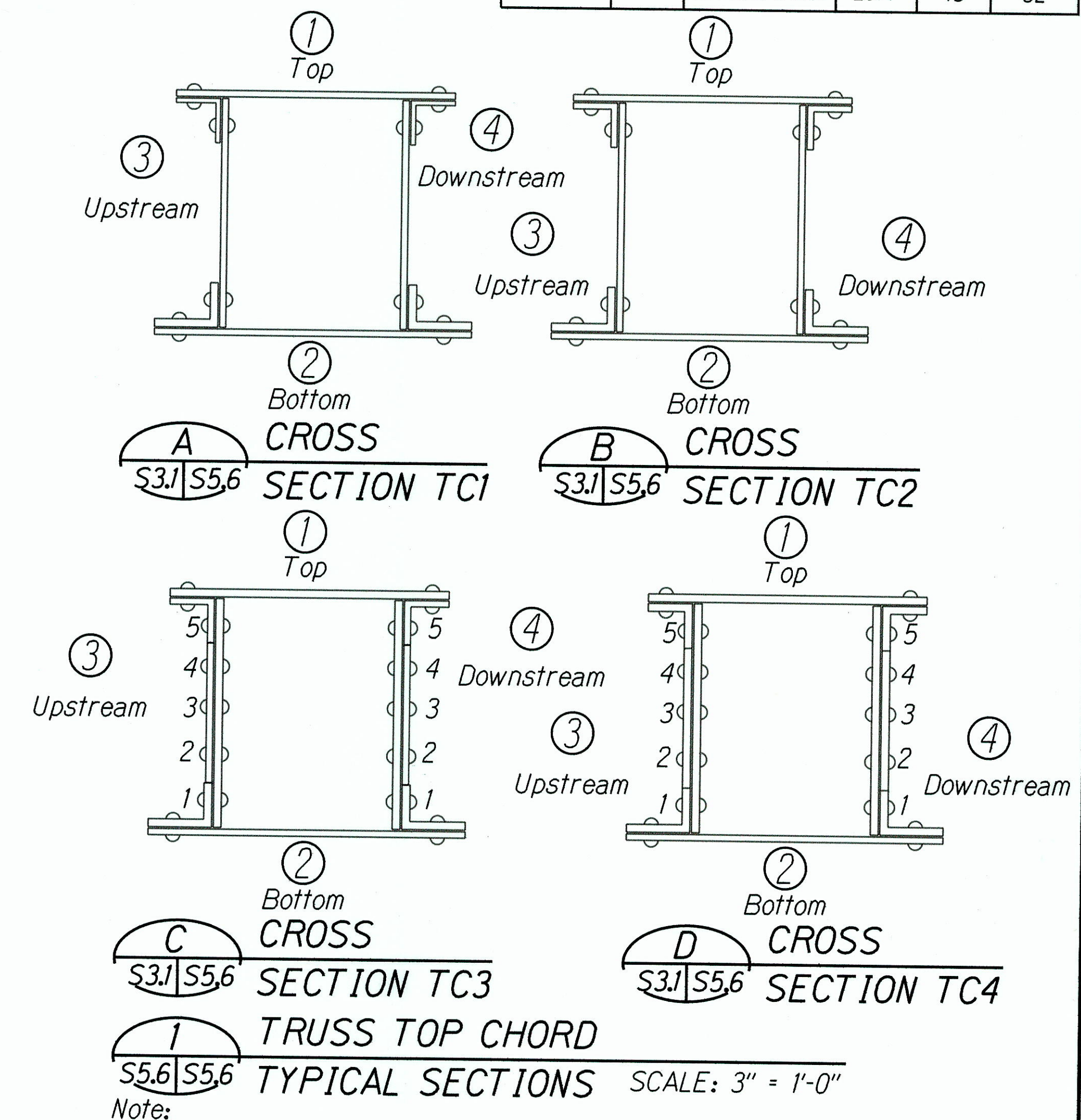
Scale: As Noted      Date: Sept 2014

**"AS-BUILT"**

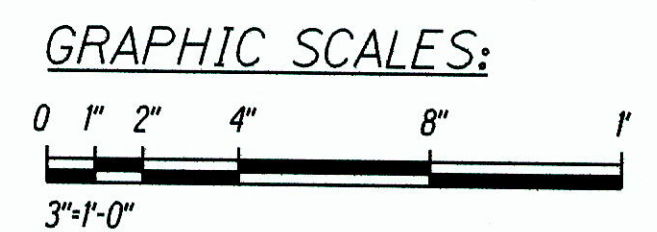
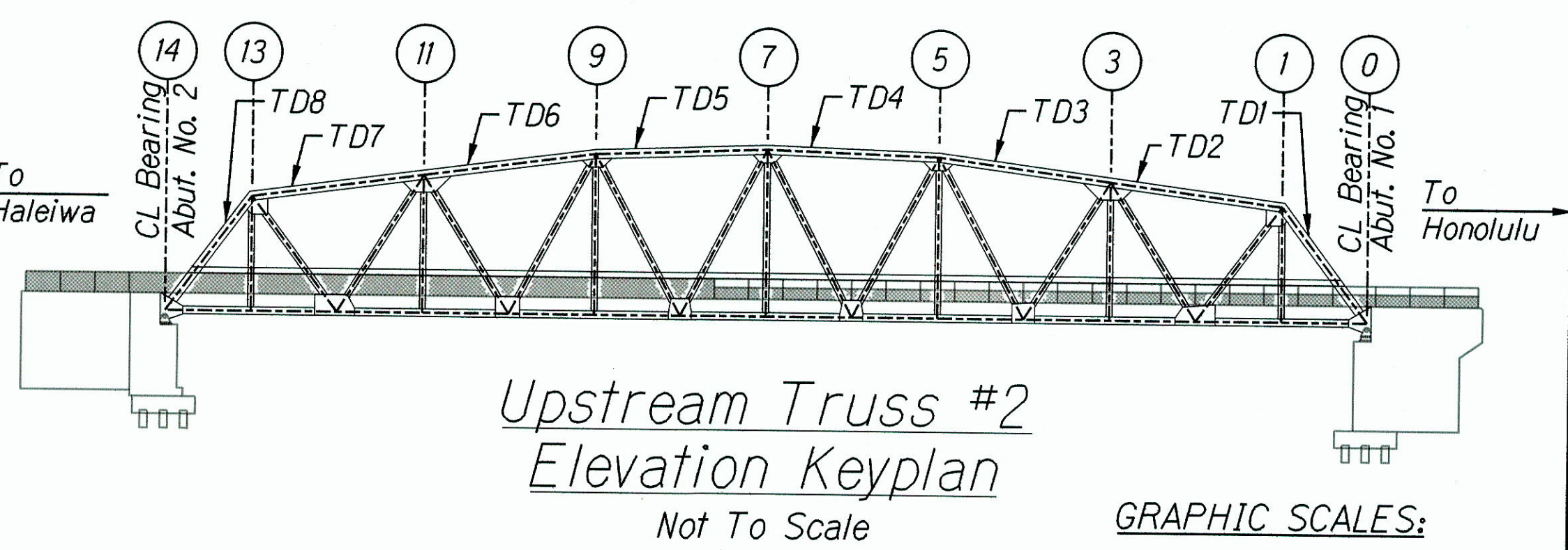
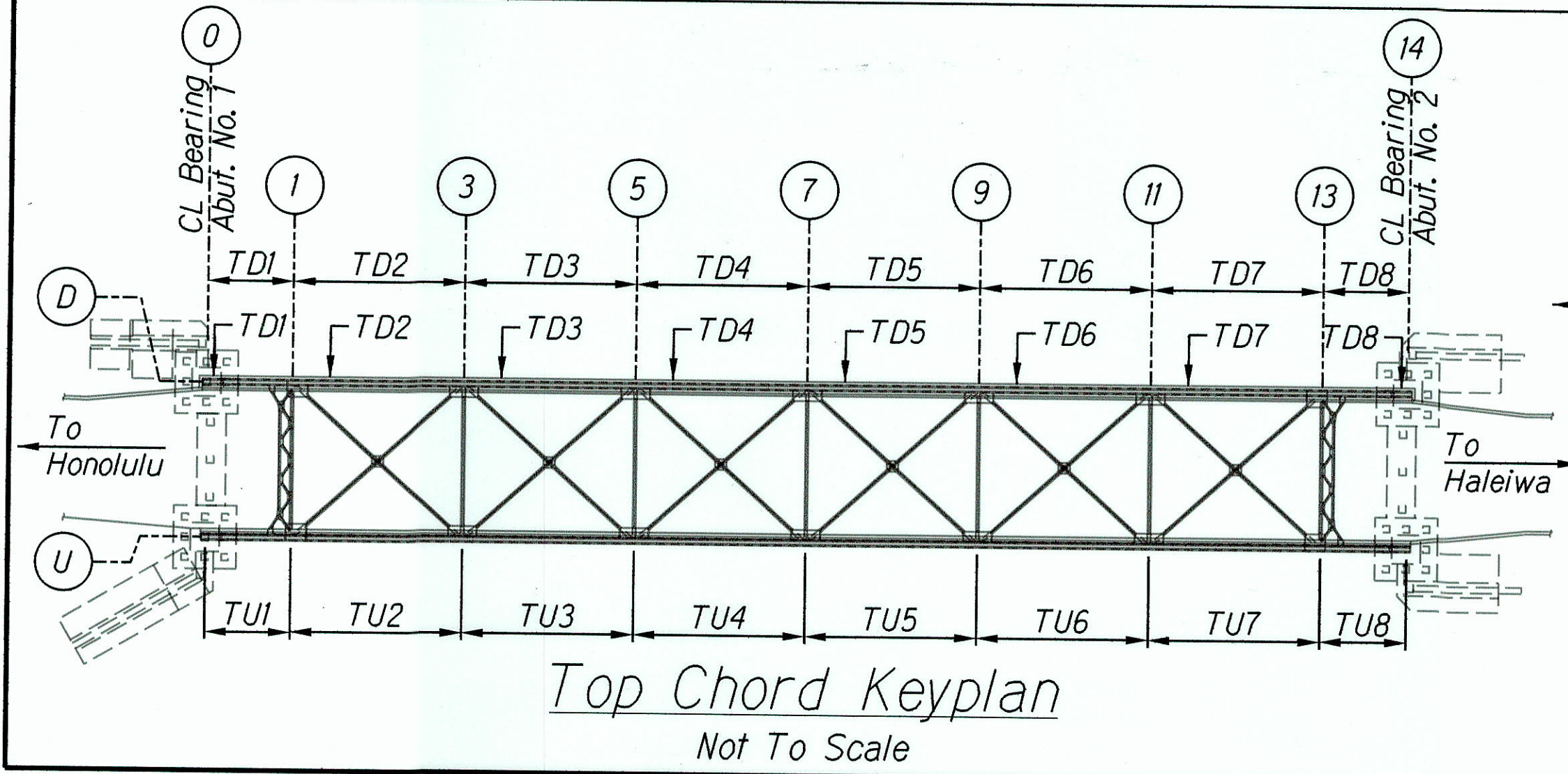
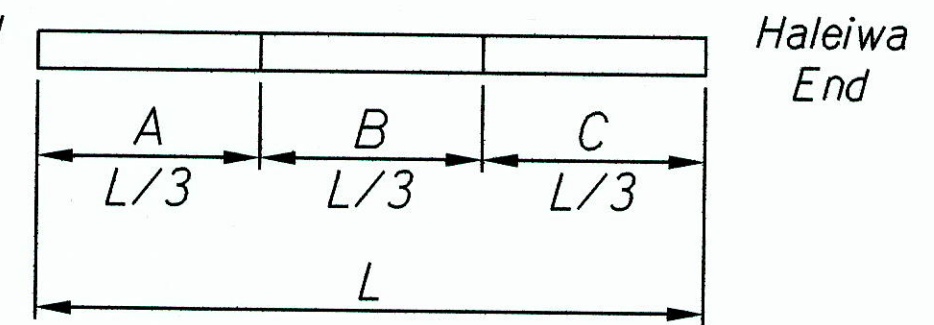
FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	45	82

### TRUSS TOP CHORD REPAIR SCHEDULE

Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail
			A	B	C		A	B	C	A	B	C	
TD1	TC1	1	0	0	0		<del>0 10</del>	<del>0 10</del>	<del>24 30</del>	-	-	-	1/S5.19
		2	0	0	0		<del>2 10</del>	<del>3 15</del>	<del>2 20</del>	<del>2 14.5</del>	<del>3 5</del>		
		3	0	0	0		<del>5</del>	<del>14</del>	<del>8</del>	-	-	-	
		4	0	0	0		<del>7</del>	<del>19</del>	<del>10</del>	-	-	-	
TD2	TC2	1	0	<del>31=0</del>			<del>10 0</del>	0	<del>4 0</del>	-	-	-	1/S5.19
		2	0	0	0		<del>3 35</del>	<del>5 35</del>	<del>3 35</del>	-	-	22	
		3	0	<del>31=0</del>			<del>42 40</del>	40	<del>31 40</del>	-	-	-	
		4	0	<del>31=0</del>			<del>25 40</del>	<del>29 40</del>	<del>25 40</del>	-	-	-	
TD3	TC3	1	<del>14=0</del>	<del>31=0</del>			<del>46 40</del>	<del>46 40</del>	<del>46 40</del>	-	-	-	1/S5.19
		2	0	0	0		<del>3 35</del>	<del>5 35</del>	<del>3 35</del>	-	-	22	
		3	0-6	0-6	0-3	5	0	0	0	-	-	-	
						4	0	0	0	-	-	-	
						3	0	0	0	-	-	-	
						2	0	0	0	-	-	-	
		4	0-3	0-2	0-2	1	<del>24 40</del>	<del>32 40</del>	<del>12 40</del>	-	-	-	
						5	0	0	0	-	-	-	
						4	0	0	0	-	-	-	
						3	0	0	0	-	-	-	
2	0					0	0	-	-	-			
1	<del>18 40</del>					<del>37 40</del>	<del>15 40</del>	-	-	-			
TD4	TC4	1	0	<del>31=0</del>			<del>50 40</del>	<del>50 40</del>	<del>46 40</del>	-	-	-	1/S5.19
		2	0	0	0		<del>3 35</del>	<del>5 35</del>	<del>3 35</del>	-	-	22	
		3	0	31=0	5	0	0	0	-	-	-		
					4	0	0	0	-	-	-		
					3	0	0	0	-	-	-		
					2	0	0	0	-	-	-		
		4	0	31=0	1	<del>42 40</del>	<del>49 40</del>	<del>38 40</del>	-	-	-		
					5	2	0	0	-	-	-		
					4	0	0	0	-	-	-		
					3	0	0	0	-	-	-		
2	0				0	0	-	-	-				
1	<del>25 40</del>				<del>25 40</del>	<del>24 40</del>	-	-	-				



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



DATE \_\_\_\_\_

SYNOPSIS PLOTTED BY \_\_\_\_\_

ORIGINAL PLAN \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

TRACED BY \_\_\_\_\_

QUANTITIES BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

NO. \_\_\_\_\_

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**REPAIR TABLES -  
TRUSS TOP CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
Repair and Repair Karsten Thot Bridge  
Federal Aid Project No. BR-080-1(012)

Scale: As Noted Date: Sept 2014

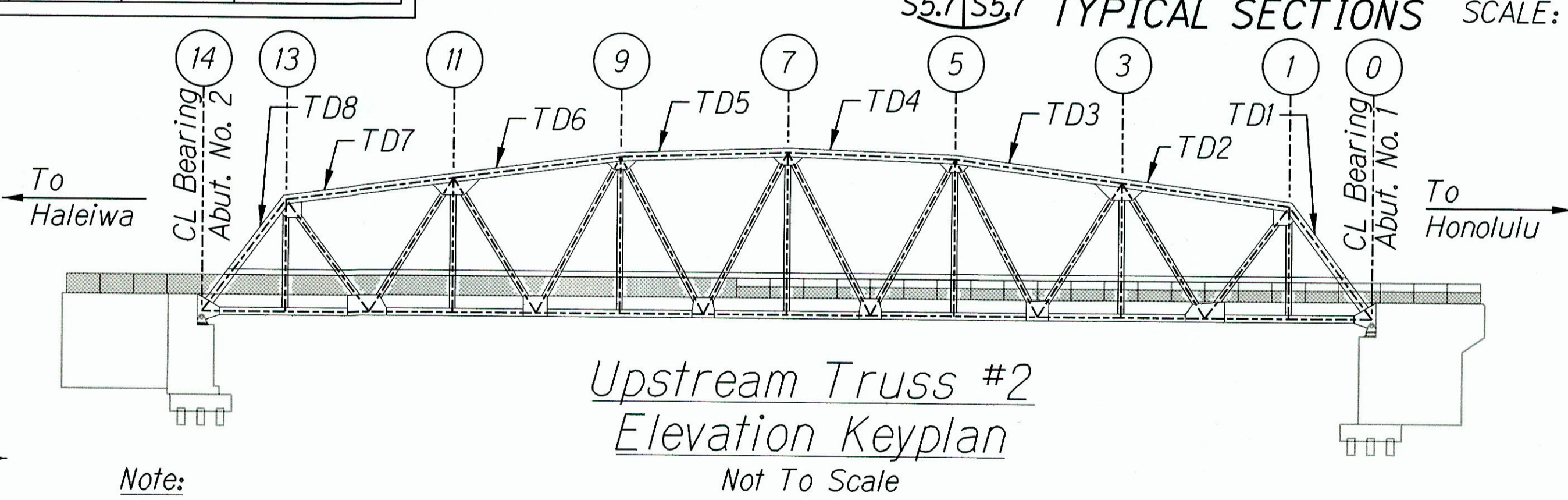
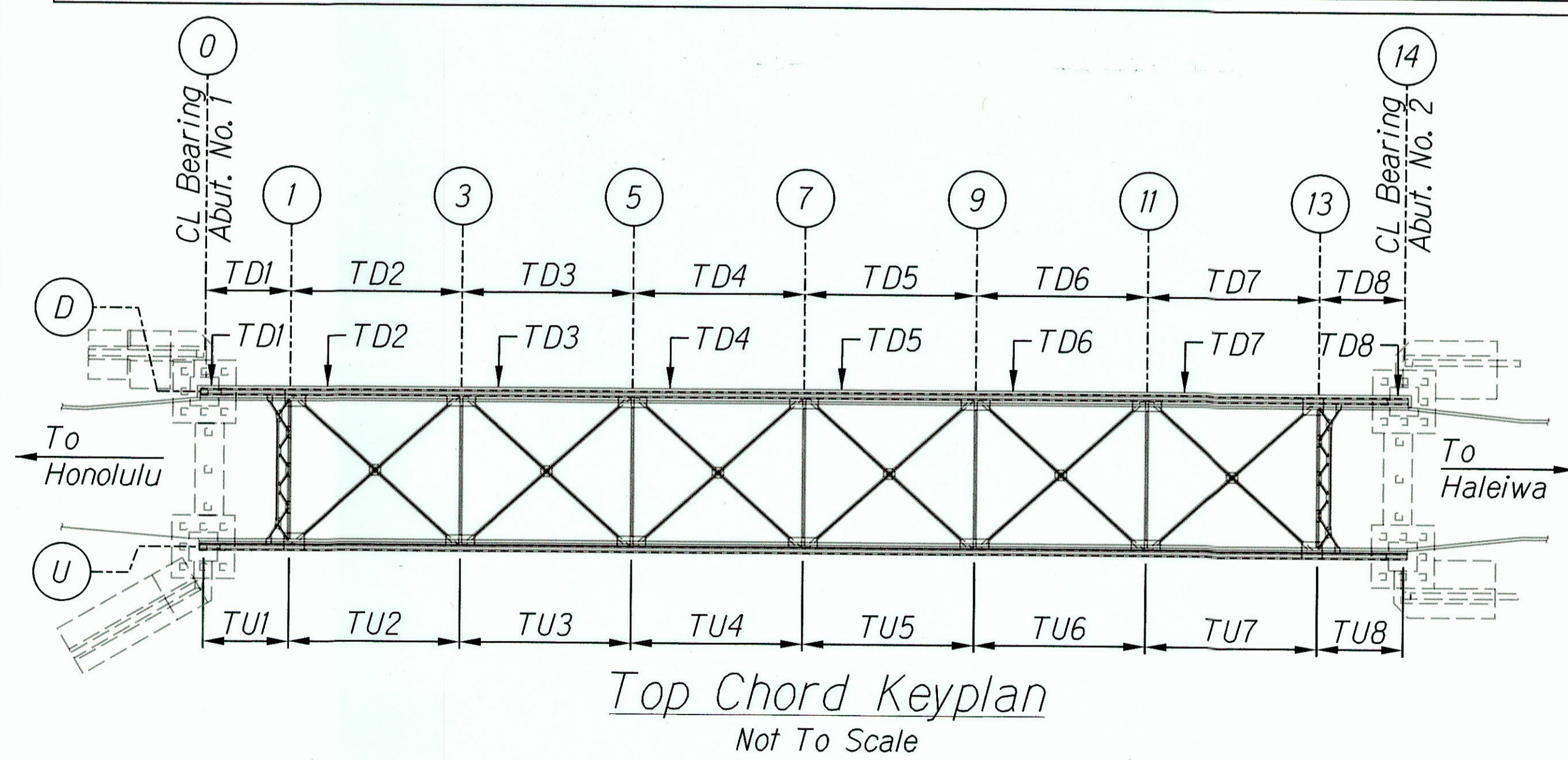
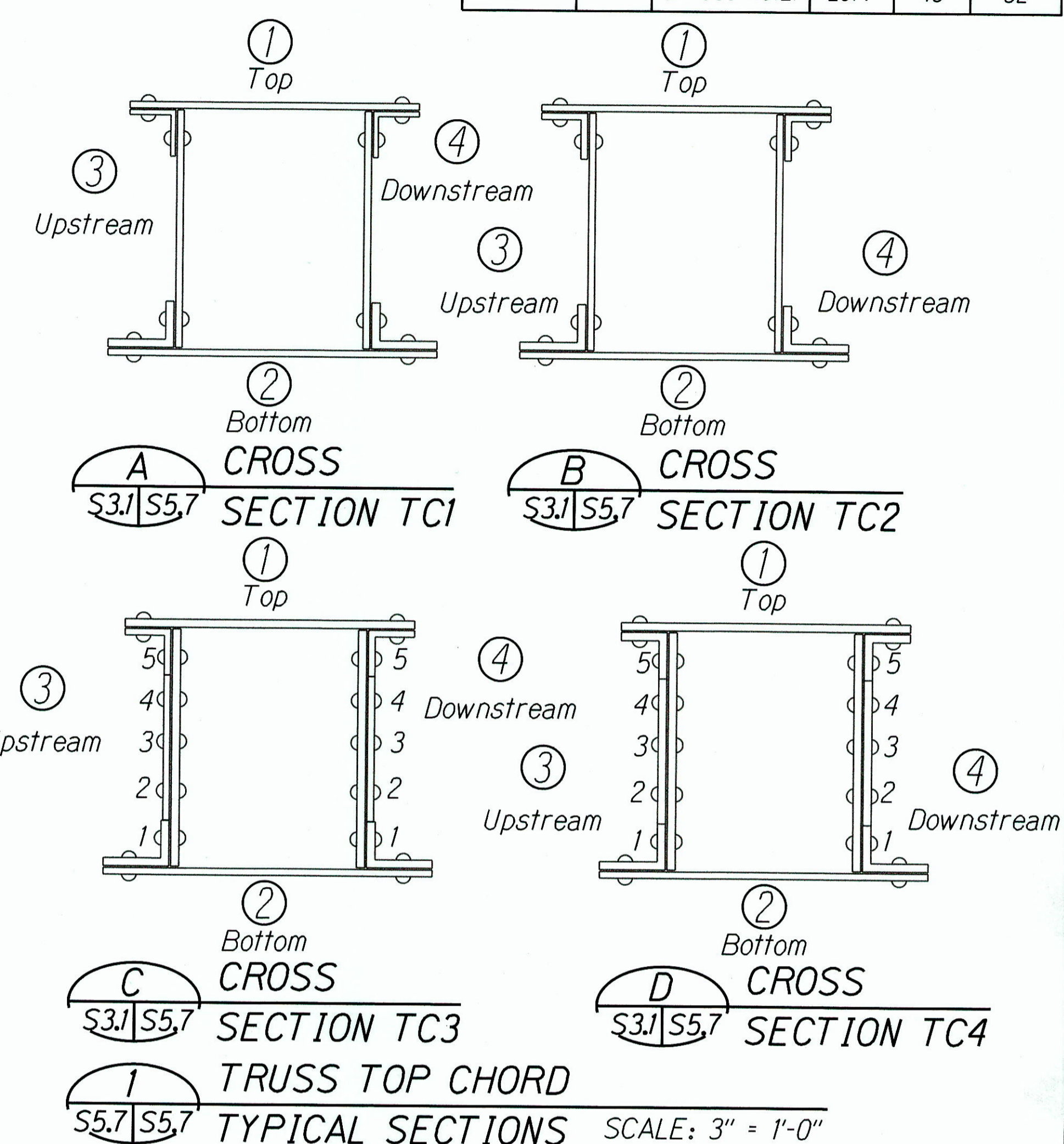
SHEET No. S5.6 OF 22 SHEETS

**"AS-BUILT"**

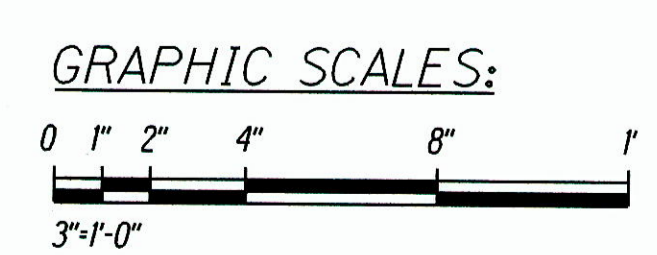
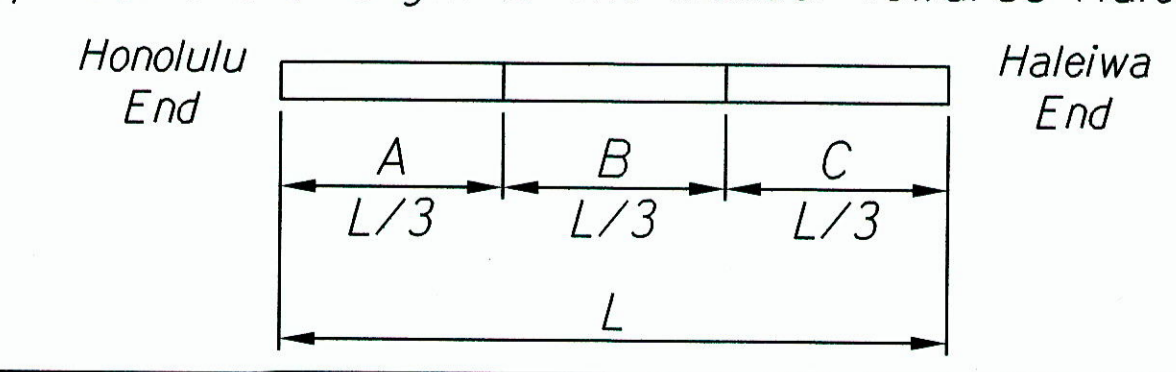
FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	46	82

### TRUSS TOP CHORD REPAIR SCHEDULE

Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail		
			A	B	C		A	B	C	A	B	C			
TD5	TC4	1	54'-10"	<del>31'-0"</del>			<del>44-40</del>	<del>44-40</del>	<del>44-40</del>	-	-	-	1/S5.19		
			2	0	0	0		<del>3-35</del>	<del>5-35</del>	<del>3-35</del>		22			
		3	0	<del>31'-0"</del>	5	0	0	0	0	0	0	-		-	-
					4	0	0	0	0	0	0	-		-	-
					3	0	0	0	0	0	0	-		-	-
					2	0	0	0	0	0	0	-		-	-
					1	<del>50-40</del>	<del>45-40</del>	<del>38-40</del>							
		4	0	<del>31'-0"</del>	5	0	0	0	0	0	0	-		-	-
					4	0	0	0	0	0	0	-		-	-
					3	0	0	0	0	0	0	-		-	-
					2	0	0	0	0	0	0	-		-	-
					1	<del>24-40</del>	<del>38-40</del>	<del>35-40</del>							
TD6	TC3	1	54'-10"	<del>31'-0"</del>			<del>44-40</del>	<del>46-40</del>	<del>46-40</del>	-	-	-	1/S5.19		
			2	0	0	0		<del>3-35</del>	<del>5-35</del>	<del>3-35</del>		22			
		3	0	<del>31'-0"</del>	5	0	0	0	0	0	0	-		-	-
					4	0	0	0	0	0	0	-		-	-
					3	0	0	0	0	0	0	-		-	-
					2	0	0	0	0	0	0	-		-	-
					1	<del>14-15</del>	<del>34-10</del>	<del>12-15</del>							
		4	0	<del>31'-0"</del>	5	0	0	0	0	0	0	-		-	-
					4	0	0	0	0	0	0	-		-	-
					3	0	0	0	0	0	0	-		-	-
					2	0	0	0	0	0	0	-		-	-
					1	<del>12-15</del>	<del>23-15</del>	<del>16-15</del>							



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



DATE \_\_\_\_\_  
 SURVEY PLOTTED BY \_\_\_\_\_  
 ORIGINAL PLAN DRAWN BY \_\_\_\_\_  
 NOTEBOOK DESIGNED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

GEORGE D. GUTIERREZ, JR.  
 LICENSED PROFESSIONAL ENGINEER  
 NO. 12107-S  
 HAWAII, U.S.A.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**REPAIR TABLES -  
 TRUSS TOP CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
 Repair and Repaint Karsten Thot Bridge  
 Federal Aid Project No. BR-080-1(012)

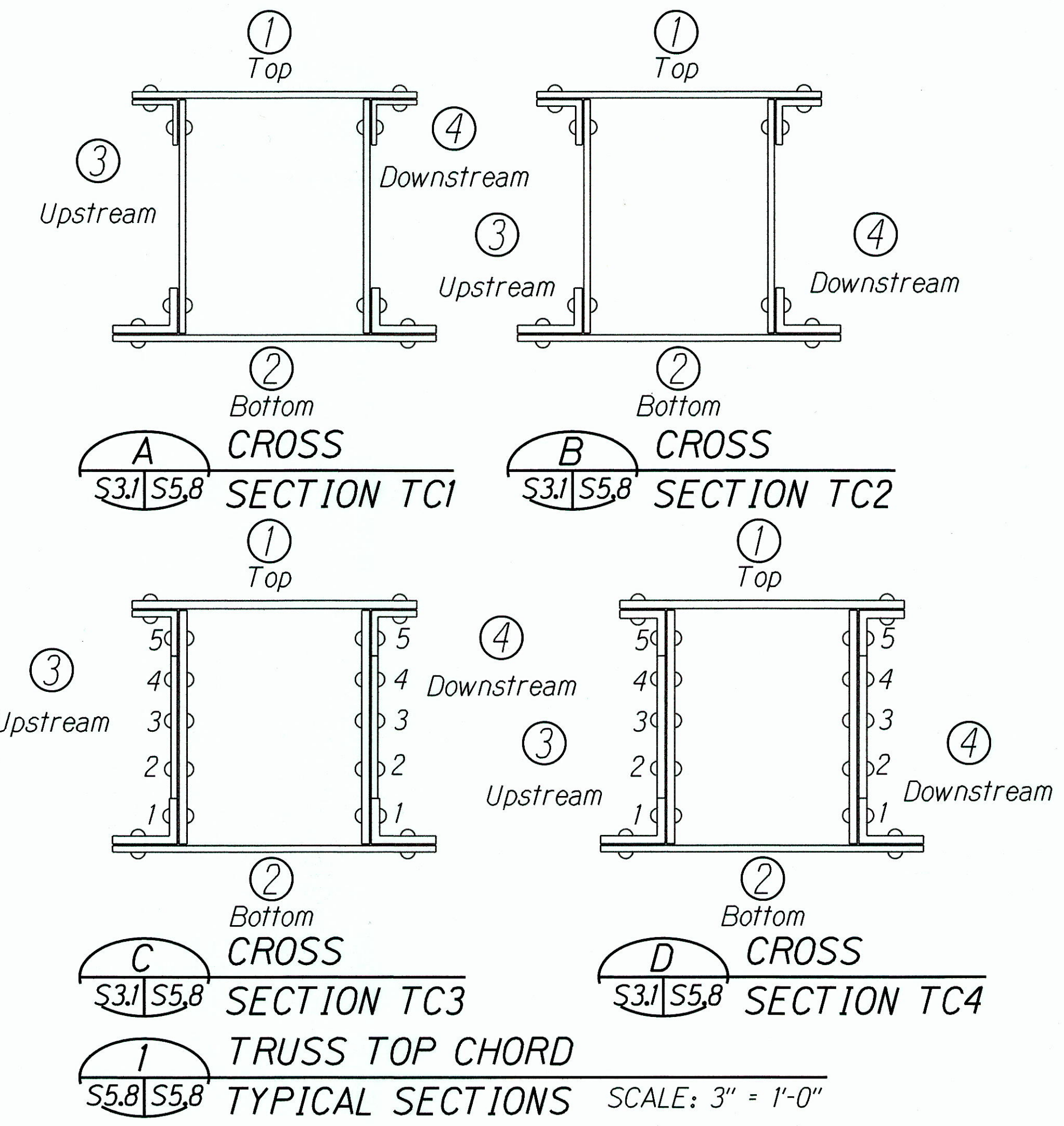
Scale: As Noted Date: Sept 2014

SHEET No. S5.7 OF 22 SHEETS

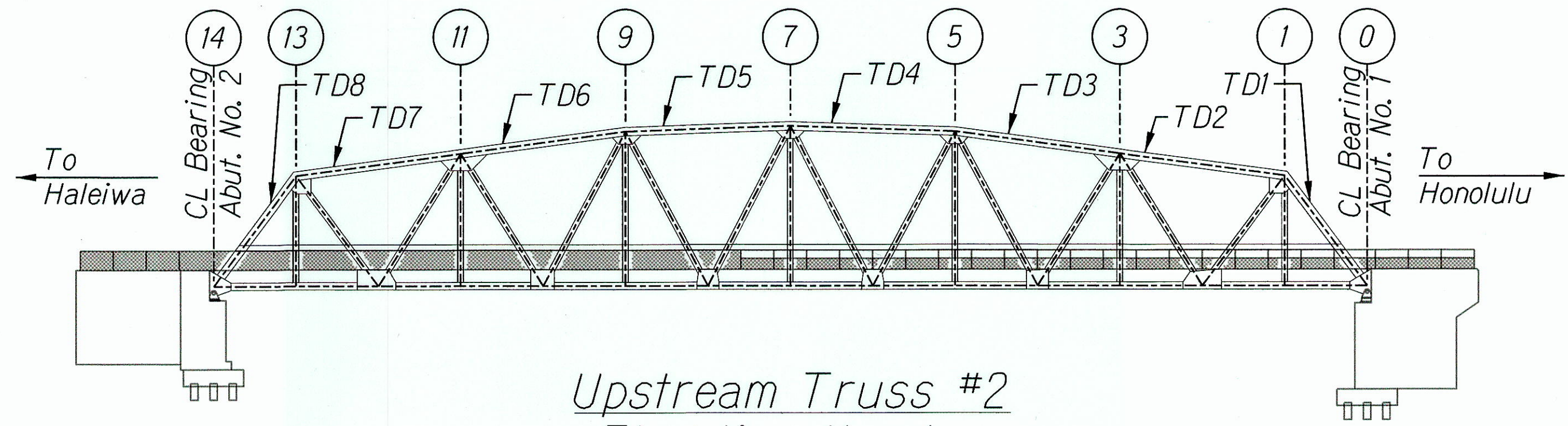
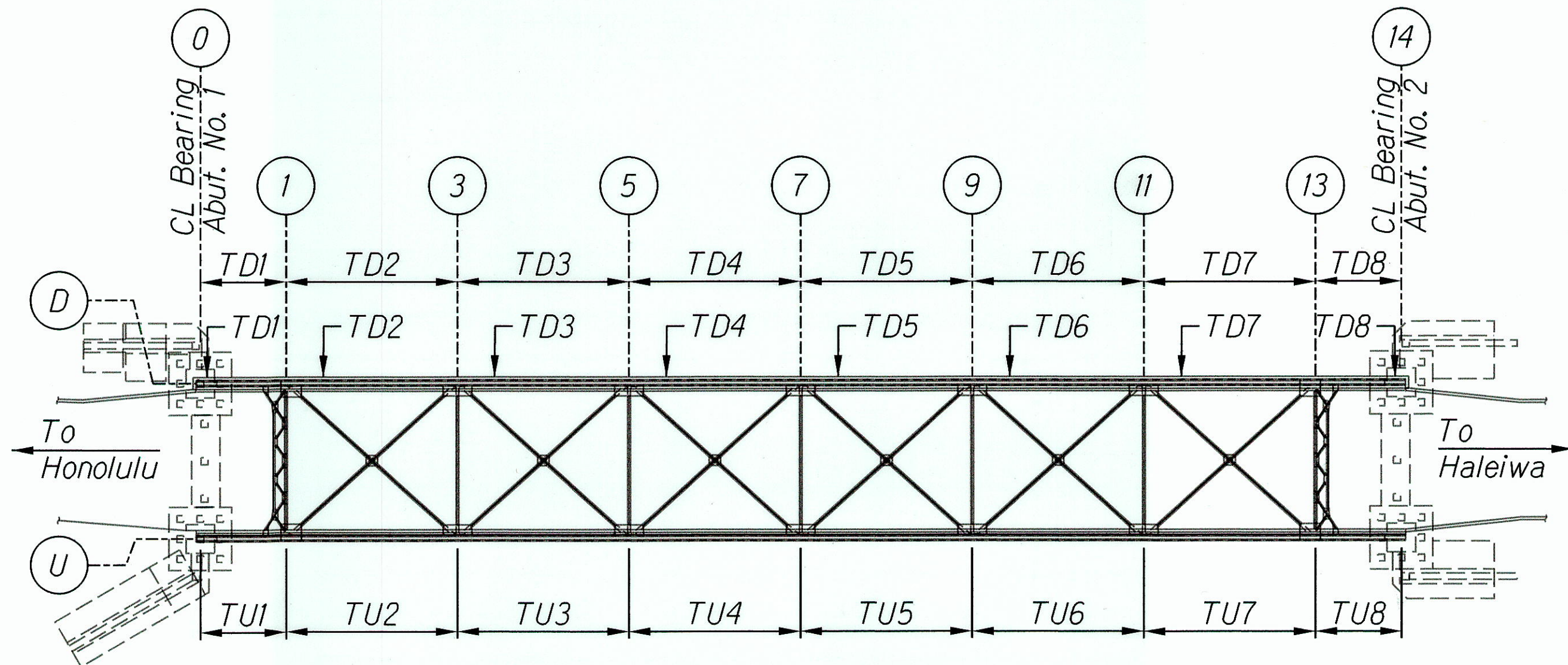
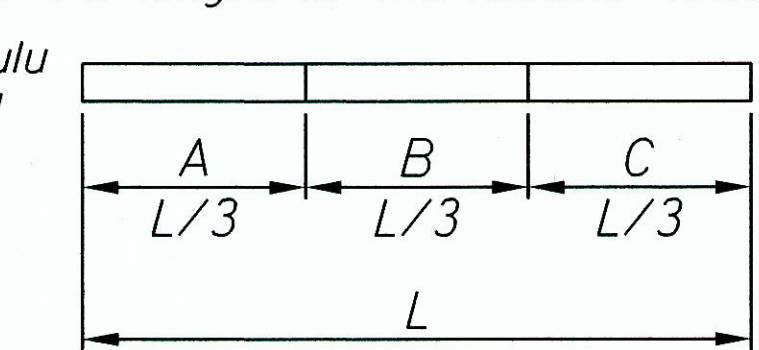
**"AS-BUILT"**

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-080-1(012)	2014	47	82

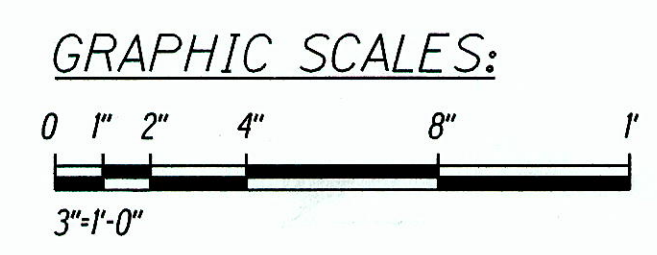
TRUSS TOP CHORD REPAIR SCHEDULE													
Label	Cross Section Detail	Face	Member Repair Length (Ft)			Row	No. of Rivets to be Replaced			No. of Lacing Bars to Replace			Repair Detail
			A	B	C		A	B	C	A	B	C	
TD7	TC2	1	0	0	0		7	16	10	-	-	-	1/S5.19
		2	0	0	0		3	5	3	22			
		3	0	0	0		26	37	24	-	-	-	
		4	0	0	0		19	25	13	-	-	-	
TD8	TC1	1	0	0	0		15	0	-	0	0	-	1/S5.19
		2	0	0	0		2	3	2	14			
		3	0	0	0		5	22	0	-	-	-	
		4	0	0	0		6	15	6	-	-	-	



- Note:
- The exact amount and location of rivet replacement and new bolt installation shall be confirmed based on actual field conditions. For rivet repair information and details, see sheet S4.1.
  - "A, B, C" refer to 1/3 length of member. "A" represents 1/3 length of the member towards Honolulu end and "C" represents 1/3 length of the member towards Haleiwa end.



SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 TRACED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 No. \_\_\_\_\_



LICENSE EXPIRES: 4/30/16  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**REPAIR TABLES -  
TRUSS TOP CHORD MEMBERS**

KAMEHAMEHA HIGHWAY  
Repair and Repaint Karsten Thot Bridge  
Federal Aid Project No. BR-080-1(012)

Scale: As Noted Date: Sept 2014

SHEET No. S5.8 OF 22 SHEETS

**"AS-BUILT"**