

## ADDENDUM NO. 3

To the Plans and Specifications for the

### TOWER ROAD BRIDGE AT ROCK CREEK PROJECT

Project No. 1801

For the Department of Public Works, Cowlitz County, Washington

Bid Opening Date: **March 9, 2026, at 1:30 p.m.** (unchanged)

**THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS TO THE SAME EXTENT AS THOUGH IT WAS ORIGINALLY INCLUDED THEREIN.**

#### SPECIAL PROVISIONS

##### BID ITEM 8: REMOVAL OF STRUCTURES AND OBSTRUCTIONS

##### BID ITEM 9: REMOVING EXISTING BRIDGE – TEMPORARY TOWER ROAD

The Special Provisions Section 2-02.3(3) are revised with the following:

##### **2-02.3(3) Removal of Bridges, Box Culverts, and Other Drainage Structures**

Section 2-02.3(2) is supplemented with the following:

(\*\*\*\*\*)

The existing steel bridge superstructure will remain the property of the Contracting Agency and shall be disassembled for salvage within the limits of the project site to the extent required for lawful transfer to the County-designated storage site. All steel members and hardware shall be disassembled in accordance with the manufacturer's recommendations; steel members and hardware shall be match-marked. The Contractor shall be responsible for shipment of the disassembled bridge to the County-designated storage site at 111 Gassman Road, Castle Rock, WA 98611, and offloading at the storage site.

The Contractor shall protect the existing concrete abutments from damage.

The Contractor shall remove the steel bridge superstructure in accordance with manufacturer's recommendations. This will be the reverse operation of the launch that was accomplished for the bridge installation in 2022. The Contractor shall provide and construct all support/roller structures required for the launch.

The Contractor shall carefully disassemble the steel bridge superstructure, inventory all components, and load all components on trucks in accordance with manufacturer's recommendations.

The Contractor is responsible for providing all labor, materials, and equipment necessary to complete the removal, disassembly, loading, transportation, and offloading of the bridge components. The Contracting Agency will provide up to 10 days of onsite technical assistance by the manufacturer.

Attached to this addendum are the following reference materials from the manufacturer:

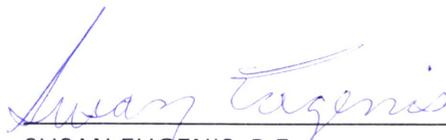
- Acrow Bridge Plans
- Acrow Bridge Component List
- Acrow Component Packing and Shipping Instructions
- Acrow Launching Alternatives
- Acrow Crane Reaction for Crane Assisted Launch
- Acrow Launch Plan for Tower Road Bridge Installation

#### **ATTACHMENTS TO THIS ADDENDUM**

- Acrow Bridge Plans
- Acrow Bridge Component List
- Acrow Component Packing and Shipping Instructions
- Acrow Launching Alternatives
- Acrow Crane Reaction for Crane Assisted Launch
- Acrow Launch Plan for Tower Road Bridge Installation

***Acknowledgment of this addendum is required under ADDENDA on Page 11 of the Contract Documents.***

ISSUED THIS 3<sup>RD</sup> DAY OF MARCH, 2026.



SUSAN EUGENIS, P.E.

County Engineer

Cowlitz County Public Works

1600 13<sup>th</sup> Avenue South

Kelso, WA 98626

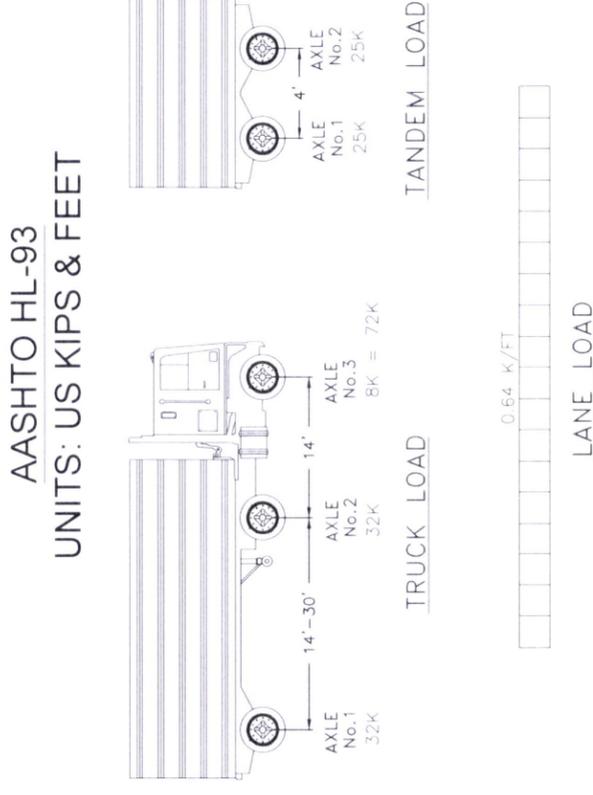
# ACROW 700XS PANEL BRIDGE

## GENERAL NOTES AND SPECIFICATIONS

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- SHEET**      **DRAWING TITLE**
- GENERAL NOTES AND SPECIFICATIONS
  - BRIDGE ISOMETRIC VIEW
  - PLAN, ELEVATION & SECTION
  - TYPICAL BRIDGE CONNECTION DETAILS
  - GUARDRAIL LAYOUT & DETAILS
  - BEARING LAYOUT & DETAILS

### DIAGRAM OF PERMISSIBLE LIVE LOADS



**NOTE:**  
PERMIT VEHICLES ARE NOT TO USE THE BRIDGE UNLESS WRITTEN APPROVAL FROM ACROW HAS BEEN GIVEN. THE BRIDGE SHALL HAVE AT EACH END SIGNS INDICATING DIAGRAMMATICALLY THE PERMISSIBLE LIVE LOADS SHOWN ABOVE. IT SHOULD ALSO INDICATE THAT PERMIT VEHICLES ARE NOT ALLOWED.

### GENERAL NOTES AND SPECIFICATIONS

**DESIGN SPECIFICATION**  
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9th EDITION, 2020

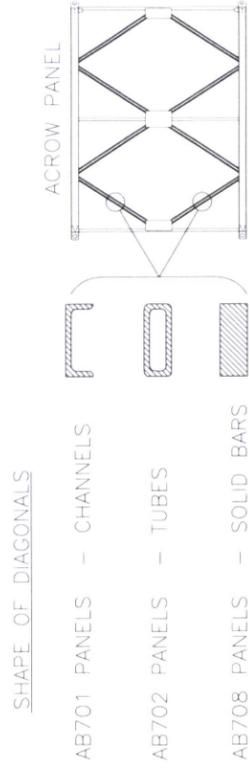
**LIVE LOAD**  
1 LANE OF HL-93  
TL-2 GUARDRAIL LOAD

**DEAD LOAD**  
TL-2 GUARDRAIL SYSTEM  
EPOXY AGGREGATE ANTI-SKID COATING

**BRIDGE SPECIFICATIONS**  
(a) PANEL CHORDS, DIAGONALS & VERTICALS, PANEL REINFORCING CHORDS AND RAKERS  
AASHTO M223 Gd. 65  
(b) DECKING, RAKER BRACE, TRANSOM, DIAGONAL BRACE, CHORD BRACE, SWAYBRACE, TRANSOM BRACE  
AASHTO M223 Gd. 50  
(c) PANEL PINS  
ASTM A193 Gd. B7  
(d) BOLTS  
AASHTO M164M-A325

**FINISH**  
ALL MAJOR COMPONENTS GALVANIZED TO AASHTO M111-ASTM A123. ALL BOLTS ARE HOT DIPPED GALVANIZED. PINS ARE ELECTRO GALVANIZED.

### TRUSS PANEL TYPES



### BRIDGE BOLT TORQUE VALUES

BOLT	NAME	DIA Ø	UNDER HEAD LENGTH ±1/8"	TORQUE (FT/LBS)
AB549A	SHORT BRACE BOLT	1"	2 3/4"	450
AB548A	LONG RAKER BOLT	1"	4"	450
AB547AS	TRANSOM SHEAR BOLT	1"	5 1/2"	450
AB547A	TRANSOM BOLT	1"	4 1/4"	450
AB546	DECK T BOLT	3/4"	N/A	110
AB536A	BRACE BOLT	1"	3 1/2"	450
AB584	CHORD BOLT	1 1/4"	3 1/2"	650

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**ACROW**  
B R I D G E

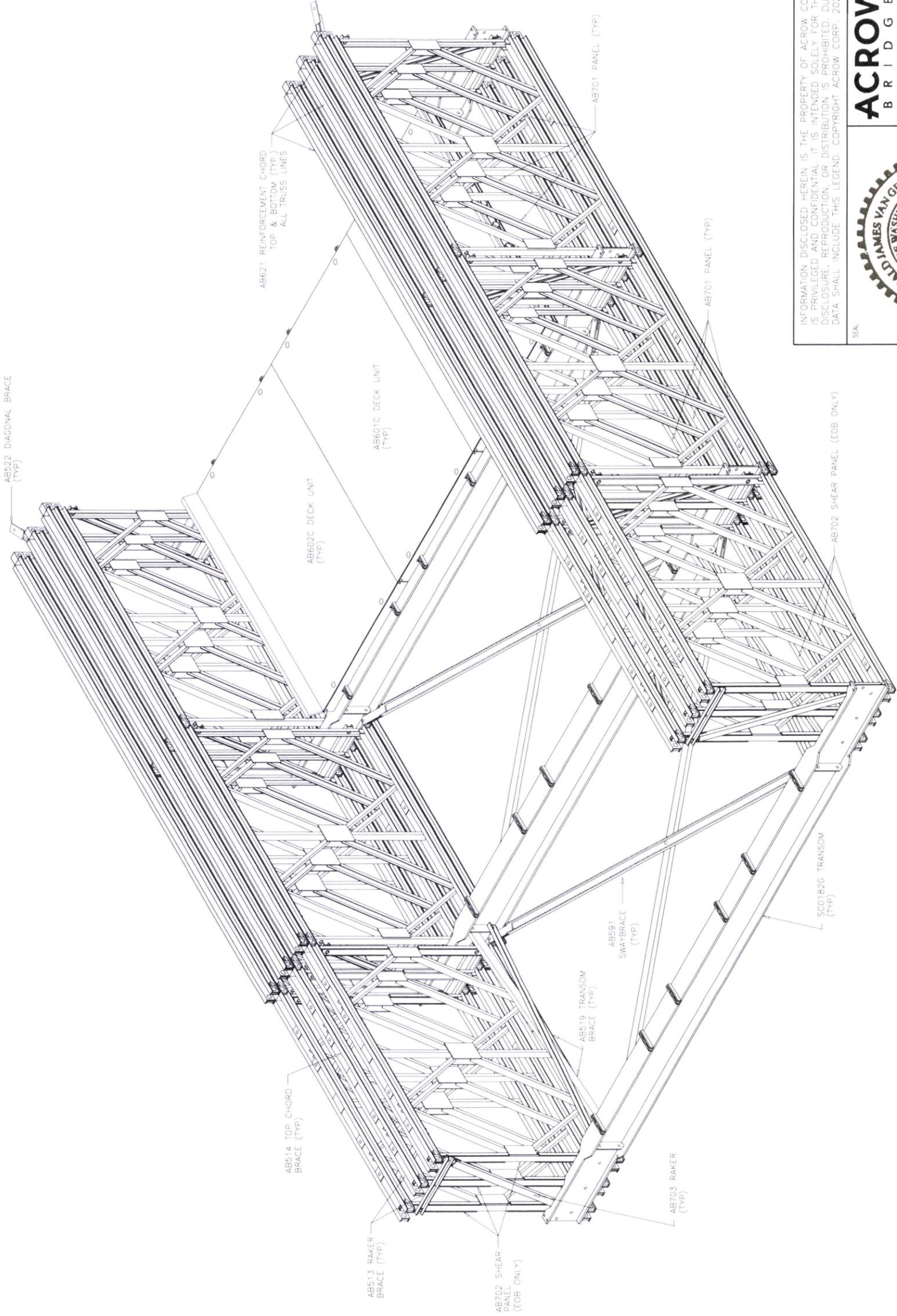
Building Bridges.  
Connecting People.  
Acrow Corporation of America  
181 New Road, Parsippany, NJ 07054

GENERAL NOTES AND SPECIFICATIONS  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

DRAWN BY: SJD      DATE: JUNE 28, 2022      PROJECT NO.  
CHECKED BY: MAD  
APPROVED BY: EJP      SCALE: NTS      22-02-3002

COWLITZ COUNTY PUBLIC WORKS  
KELSO, WA

DRAWING NO. AB2411  
REV. SHT 1 OF 6



ISOMETRIC VIEW OF FEMALE END OF BRIDGE  
 (GUARDRAIL NOT SHOWN FOR CLARITY)

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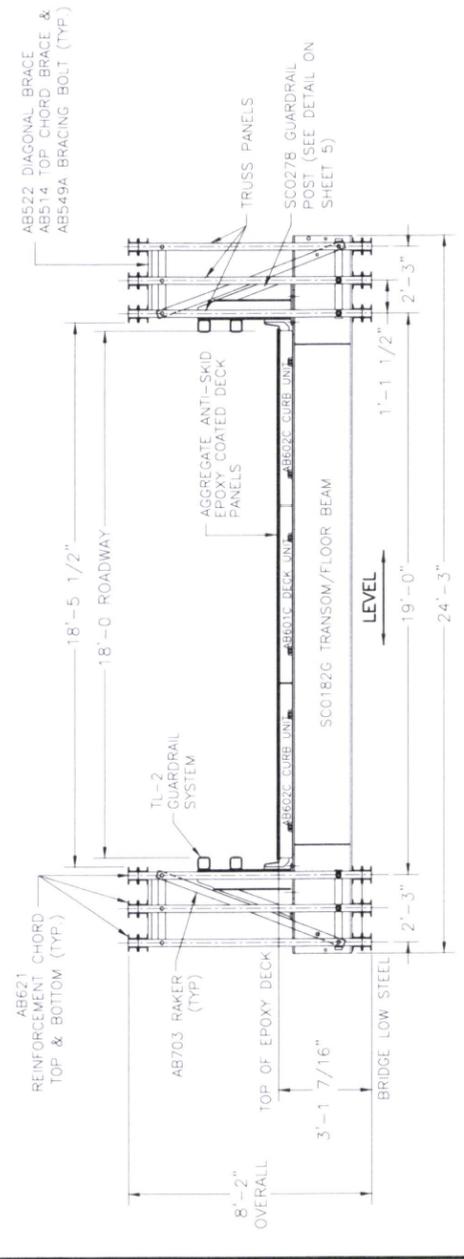
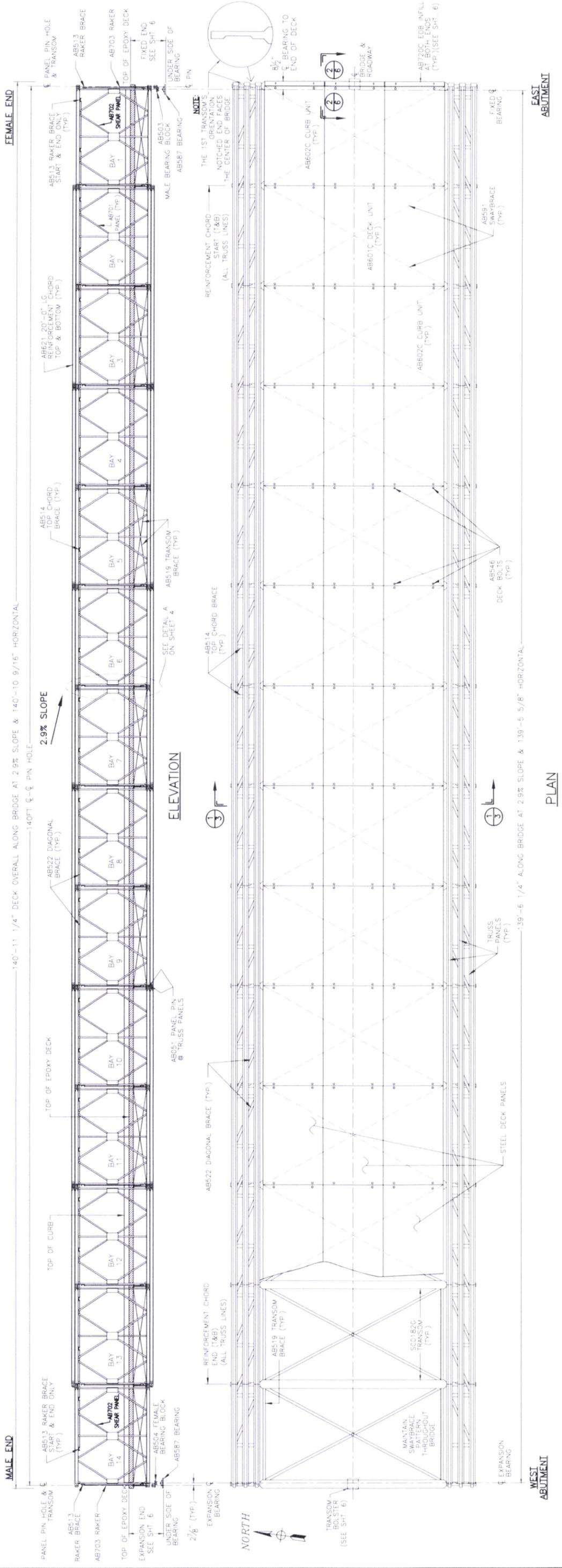
SEA  
**ACROW** Building Bridges. Connecting People.  
 BRIDGE Acrow Corporation of America  
 181 New Road, Parsippany, NJ 07054

BRIDGE ISOMETRIC VIEW  
 140FT x EW18 x TSR3 BRIDGE  
 TOWER ROAD OVER ROCK CREEK  
 CASTLE ROCK, WA

DRAWN BY	SJD	DATE	JUNE 25, 2022	PROJECT NO.
CHECKED BY	MAD			
APPROVED BY	EJP			SCALE: NTS
				22-02-3002
				REV:
				DRAWING NO. AB2411
				SHT 2 OF 6



REV	DATE	DESCRIPTION	BY	CHK	APPR



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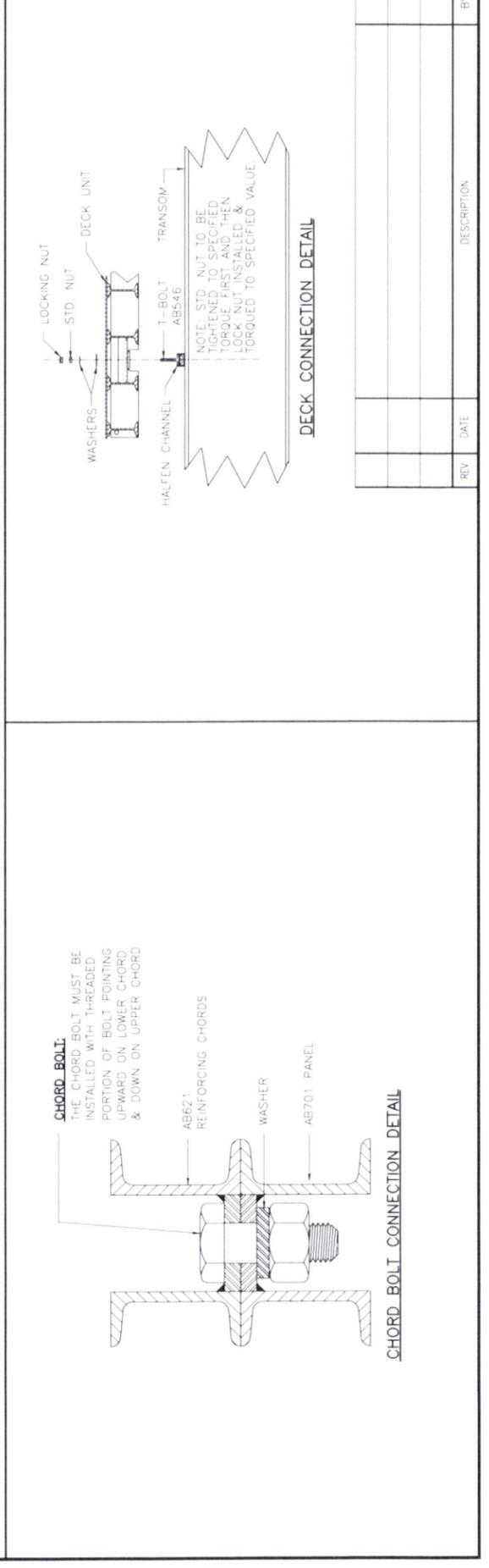
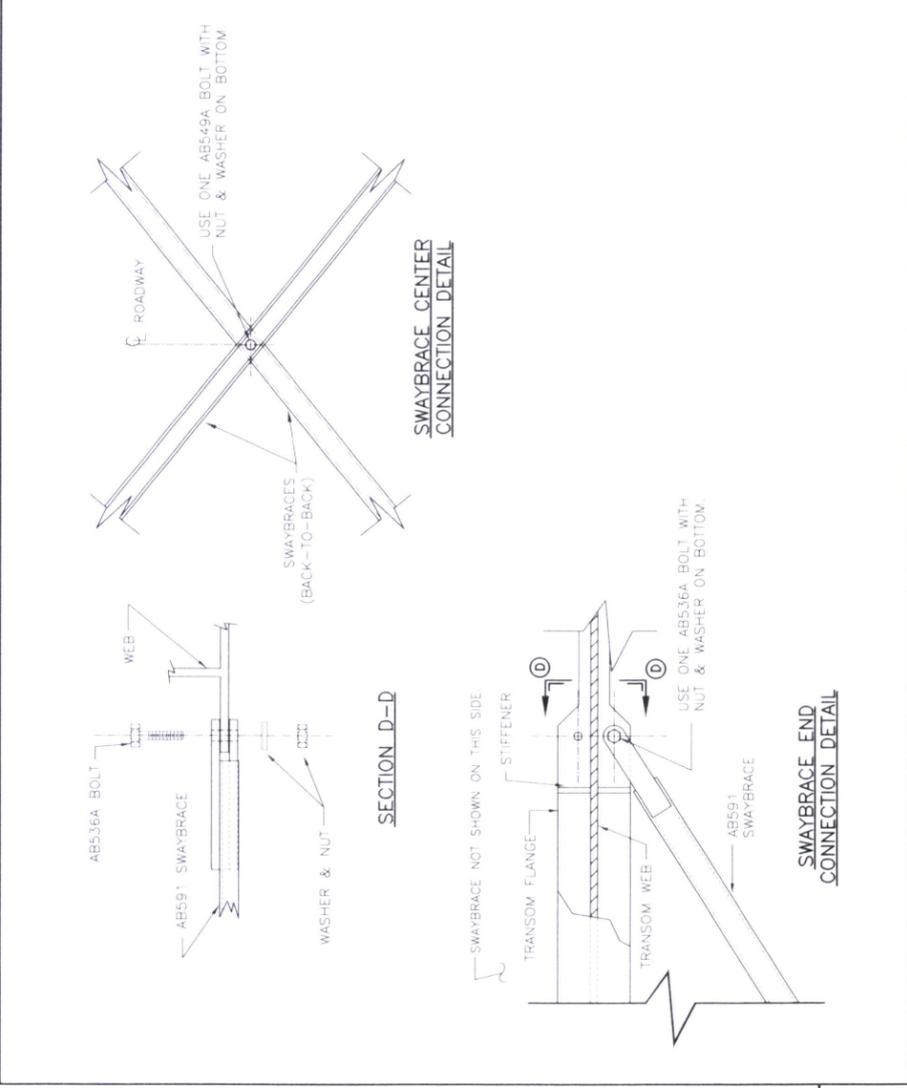
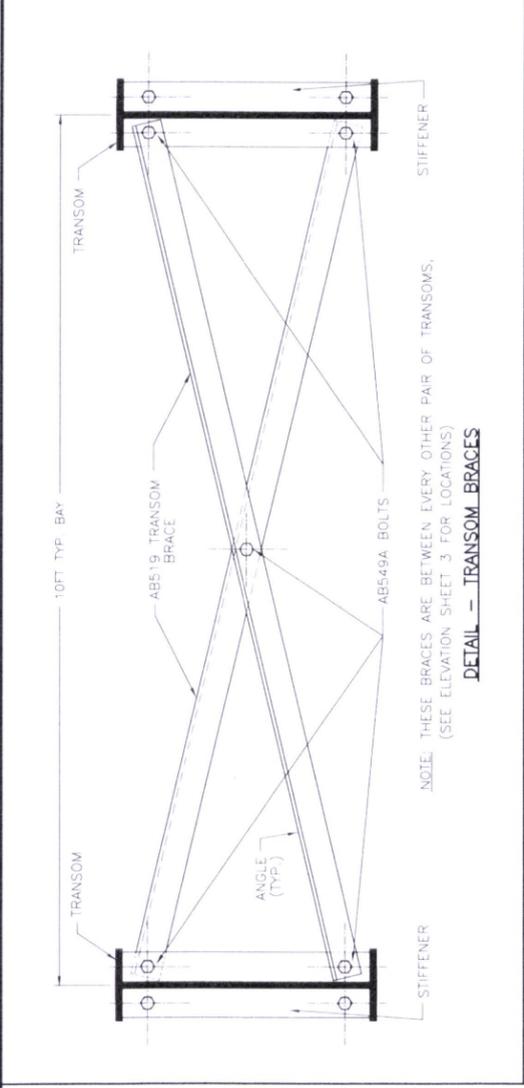
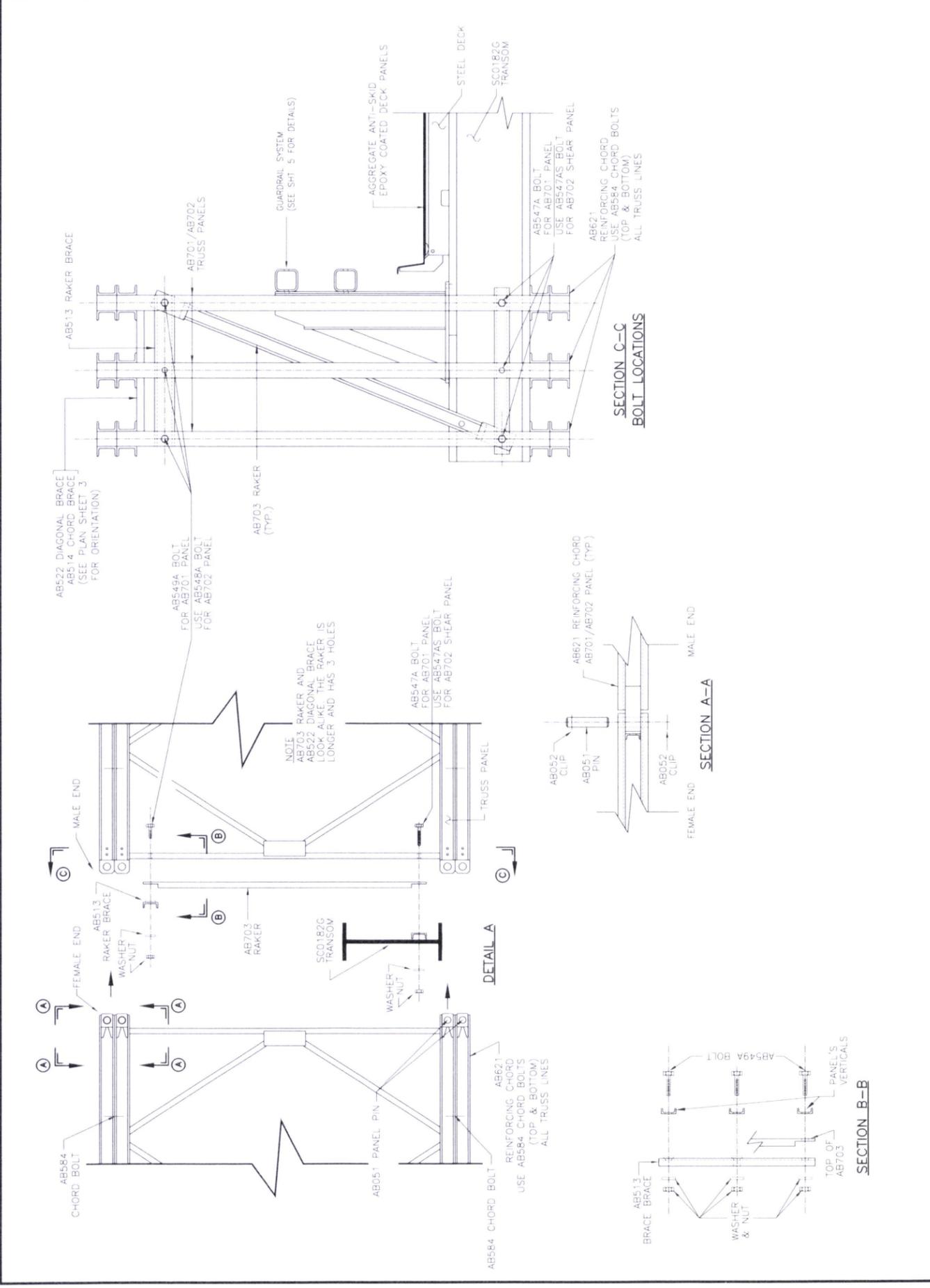


**ACROW BRIDGE**  
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PLAN, ELEVATION & SECTION  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

DRAWN BY	SJD	DATE	JUNE 28, 2022	PROJECT NO.	
CHECKED BY	MAD	SCALE	NTS		22-02-3002
APPROVED BY	EJP				
				DRAWING NO.	AB2411
				REV.	1
				COWLITZ COUNTY PUBLIC WORKS	
				KELSO, WA	SHT 3 OF 6

REV.	DATE	DESCRIPTION	BY	CHK	APPR
1	8/24/22	SLOPE REVISED AND NORTH ARROW ADJUSTED	GS	MAD	EJP



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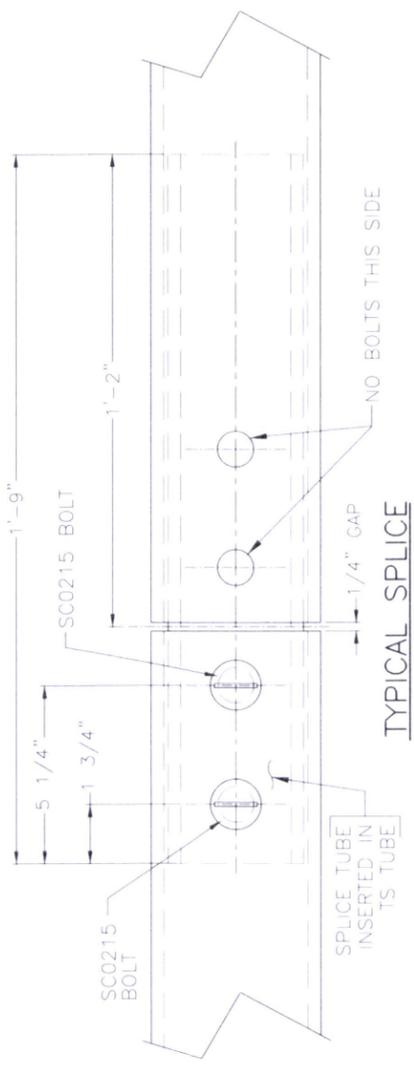
TYPICAL BRIDGE CONNECTION DETAILS  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

SEA

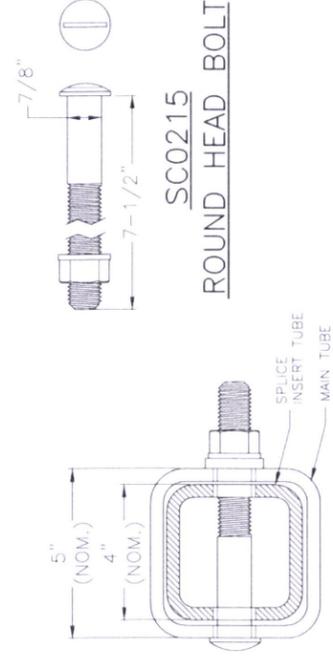
DATE: JUNE 28, 2022  
PROJECT NO.:  
SCALE: NTS  
DRAWING NO.: AB2411  
SHT 4 OF 6

REV. DATE DESCRIPTION  
BY CHK APPR

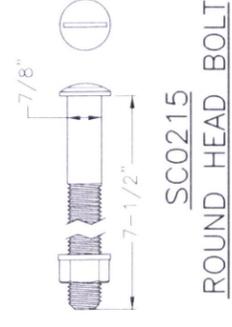
8/25/22  
EXPIRES 5/28/23



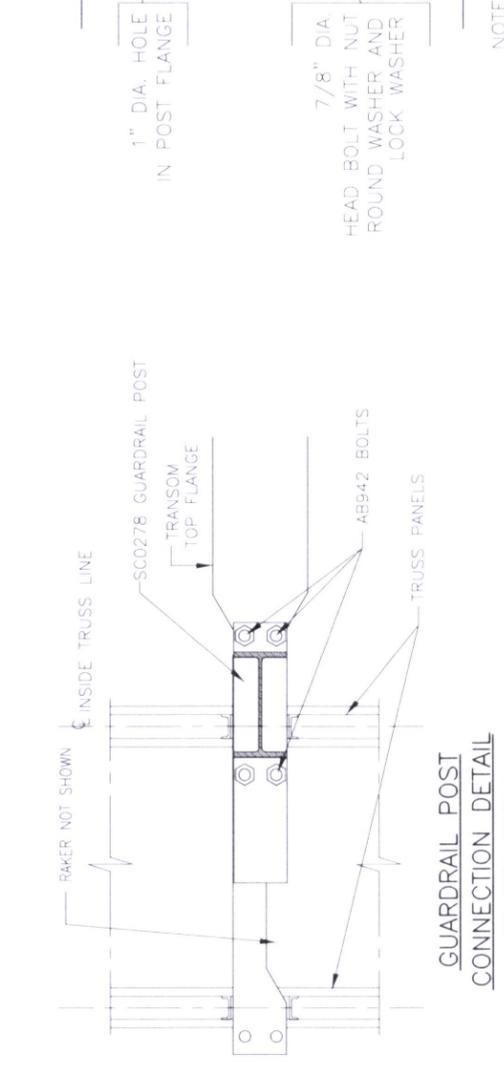
TYPICAL SPLICE



SPLICE TUBE DETAILS

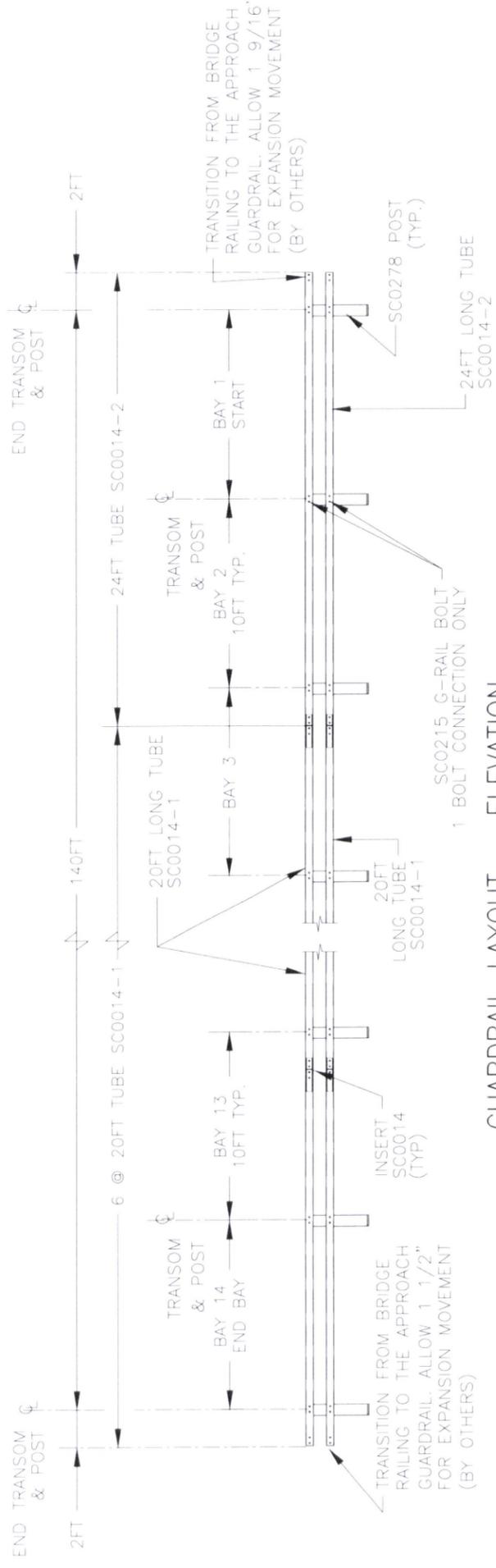


SC0215 ROUND HEAD BOLT

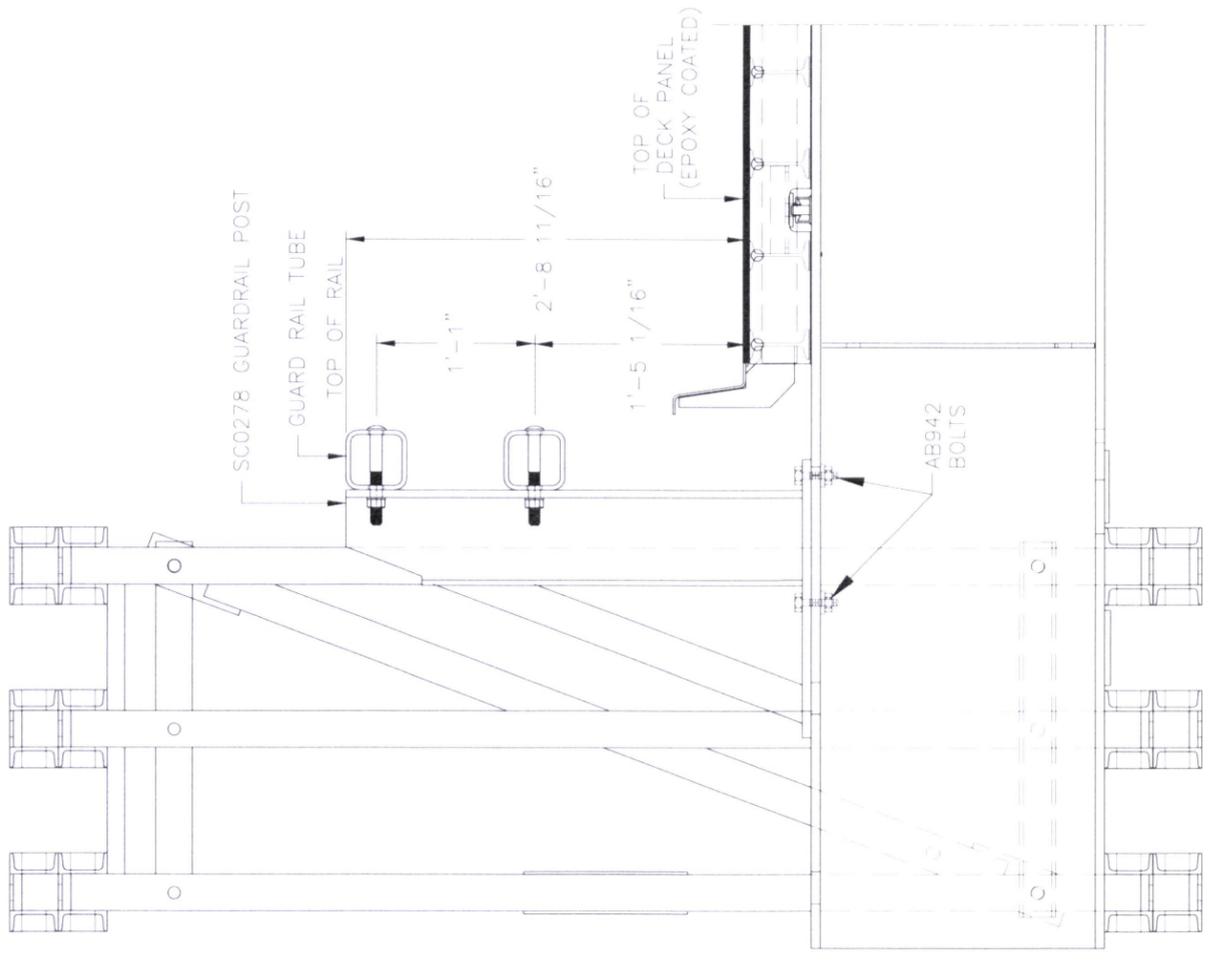


GUARDRAIL POST CONNECTION DETAIL AT TRANSOM

TYPICAL RAIL-TO-POST CONNECTIONS



GUARDRAIL LAYOUT - ELEVATION



TYPICAL POST CONNECTION DETAIL

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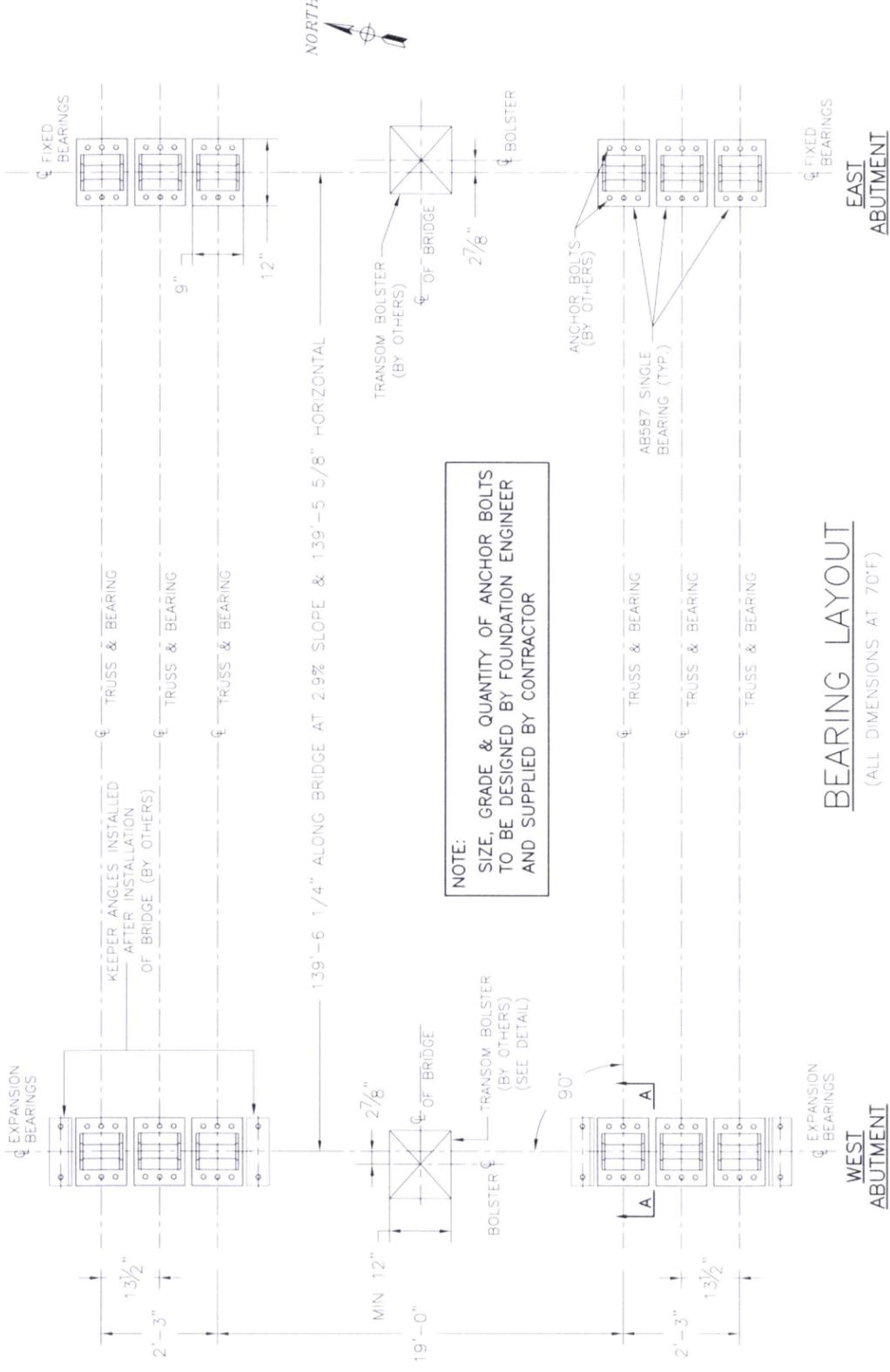


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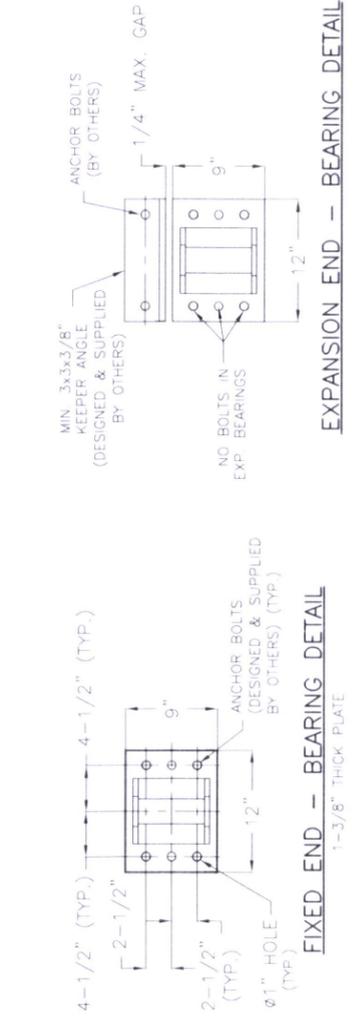
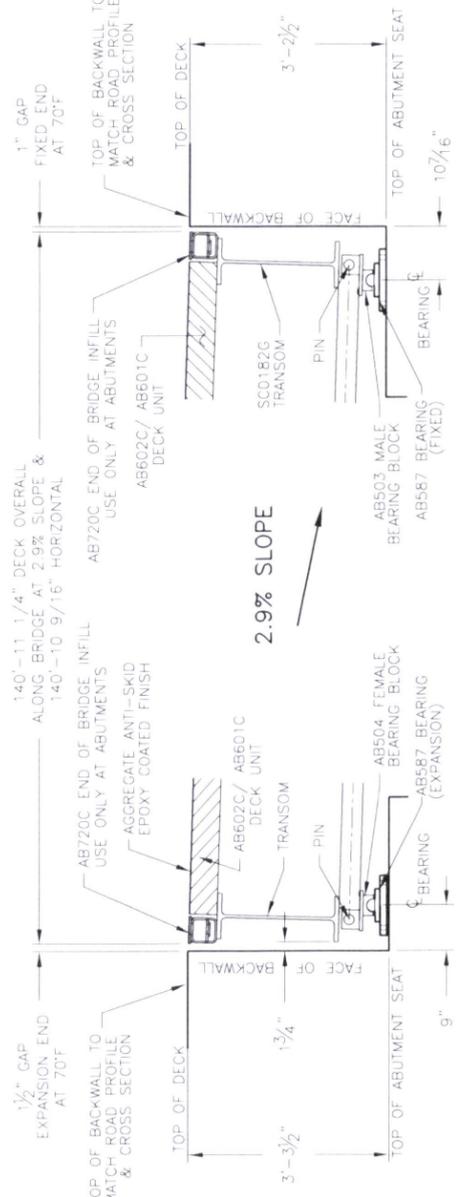
GUARDRAIL LAYOUT & DETAILS  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

DRAWN BY	SJD	DATE	JUNE 28, 2022	PROJECT NO.	
CHECKED BY	MAD	SCALE	NTS	22-02-3002	REV
APPROVED BY	EJP				
COWLITZ COUNTY PUBLIC WORKS KELSO, WA				DRAWING NO.	AB2411
				SHT	5 OF 6

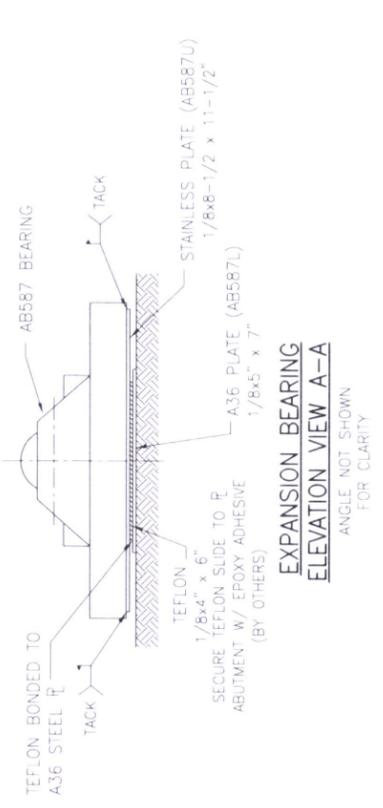
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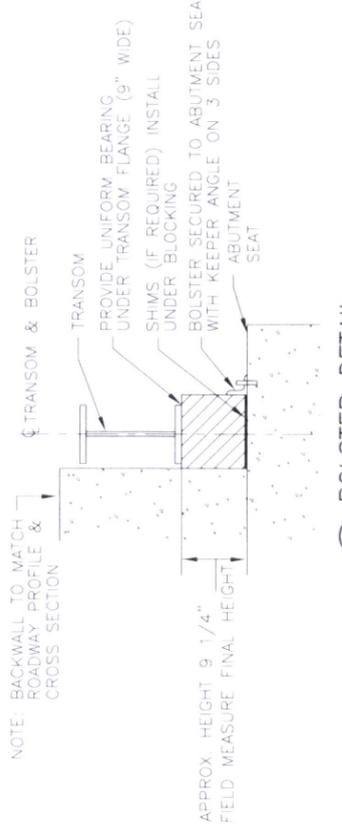
**BEARING LAYOUT**  
(ALL DIMENSIONS AT 70°F)



**FIXED END - BEARING DETAIL**



**EXPANSION BEARING ELEVATION VIEW A-A**



**BOLSTER DETAIL**

- NOTE:**
- HARDWOOD BLOCKING IS RECOMMENDED; FINAL BOLSTER DESIGN IS BY OTHERS
  - BOLSTER HEIGHT WILL VARY BASED ON TRANSOM TYPE/DEAD LOADS
  - BOLSTER TO MATCH SLOPE OF TRANSOM FLANGE
  - INSTALL BOLSTER TO A TIGHT FIT AFTER BRIDGE & DECK ARE IN PLACE
  - SHIM PLATES USED FOR TIGHT FIT ARE TO BE INSTALLED UNDER BLOCKING
  - BOLSTER TO BE SECURED FROM MOVEMENT AFTER INSTALLATION

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**ACROW**  
BRIDGE

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STATE OF WASHINGTON  
DONALD JAMES VAN GERVE  
REGISTERED PROFESSIONAL ENGINEER  
44919  
8/25/22  
EXPIRES 5/28/23

**EXPANSION END - WEST ABUTMENT**

**FIXED END - EAST ABUTMENT**

**END OF DECK UNIT DETAIL PLAN VIEW**

REV.	DATE	DESCRIPTION	BY	CHK.	APP.
1	8/24/22	SLOPE REVISED AND NORTH ARROW ADJUSTED	GS	MAO	EJP

DRAWN BY	SJD	DATE	JUNE 28, 2022	PROJECT NO.	
CHECKED BY	MAD	SCALE:	NTS	22-02-3002	
APPROVED BY	EJP				
COWLITZ COUNTY PUBLIC WORKS KELSO, WA				DRAWING NO.	AB2411
				SHT.	6 OF 6
				REV.	1

<b>Project No. :</b> <u>22-02-3002</u>	<b>Bridge</b>	<b>FINAL</b>
	<b>Launch</b>	<b>N/A</b>
<b>Contractor:</b> <u>Cowlitz County Public Works</u>	<b>Take Off By:</b> <u>MAD</u>	<b>Shipping Address:</b>
<b>Terms:</b> <u>Sale</u>	<b>Checked By:</b> <u>EJP/MJP 8/23</u>	
<b>Location:</b> <u>Castle Rock, WA</u>	<b>Version:</b> <u>0</u>	Tower Road
<b>Bridge Length (ft):</b> <u>140</u>	<b>Take Off Date:</b> <u>7/21/2022</u>	Castle Rock, WA
<b>Bridge Width:</b> <u>EW18</u>		
<b>Truss Construction:</b> <u>TSR3</u>	<b>Launch Details</b>	<b>Site Contact:</b>
<b>Deck Type:</b> <u>Steel</u>	<b>Method:</b> <u>Crane-Assist.</u>	
<b>Sidewalk:</b> <u>None</u>	<b>Nose:</b> <u>None</u>	Jack Eckland
<b>Guardrail:</b> <u>TL-2 Tubes</u>	<b>Tail:</b> <u>10' DS</u>	360-507-0659
<b>Specials:</b> <u>None</u>	<b>Delivery Date</b> <u>11/8/2022</u>	(Note that launch equipment is a separate job number)

PART NO.	DESCRIPTION	BRIDGE	LAUNCH	EXTRAS	TOTAL
AB051	PANEL PIN	228		12	240
AB052	SAFETY CLIP	456		24	480
AB503	MALE BRG BLK	6			6
AB504	FEMALE BRG BLK	6			6
AB513	RAKER BRACE	34			34
AB514	CHORD BRACE	52			52
AB519	TL TRANSOM BRACE	32			32
AB522	DIAGONAL BRACE	54			54
AB536A	AMER BRACE BOLT	56		14	70
AB546	DECK BOLT	180		20	200
AB547A	AMER TRANSOM BOLT	72		8	80
AB547AS	AMER TRAN BOLT SHEAR	18		2	20
AB548A	AMER RAKER BOLT	18		7	25
AB549A	AMER SHT BRAC BOLT	334		21	355
AB584	CHORD BOLT	576		24	600
AB587	BEARING	12			12
AB587L	LOWER BRG. ELEMENT	6			6
AB587U	UPPER BRG ELEMENT	6			6
AB591	EW SWAYBRACE	28			28
AB601C	COATED DECK UNIT	14			14
AB602C	COATED CURB UNIT	28			28
AB621	20FT CHORD	72			72
AB701	PANEL	72			72
AB702	SHEAR PANEL	12			12
AB703	RAKER	30			30
AB720C	EOB INFILL COATED	6			6
AB942	GUARDRAIL POST BOLT	120		10	130
SC0014	PL2 RAIL INSERT	24			24
SC0014-1	20 FT PL2 RAIL	24			24
SC0014-2	24 FT PL2 RAIL	4			4
SC0182G	EW18 TRANSOM w/ Guardrail	15			15
SC0215	GUARDRAIL BOLT	108		7	115
SC0278	SINGLE LANE GUARDRAIL POST	30			30

## Component Packing for Return Shipment

This document provides the basic packing knowledge for anyone shipping Acrow bridge components.

*Note: Photos of truckloads should be taken upon arrival to project site to use as a reference guide when returning the bridge at the end of the project.*

### PACKING

#### **Bolts**

- **DO NOT RETURN THE CRATES UNTIL THE END OF THE PROJECT.** This will allow you to use the same crate the bolts and smaller items were shipped in.
- Bolts and smaller components can be shipped in crates.

#### **Small Components**

- Small components will be bundled and banded to pallets in stacks of **no more than 50**.
- These pieces interlock to provide added stability.

Photo: AB513, AB513Q, AB514, AB514Q

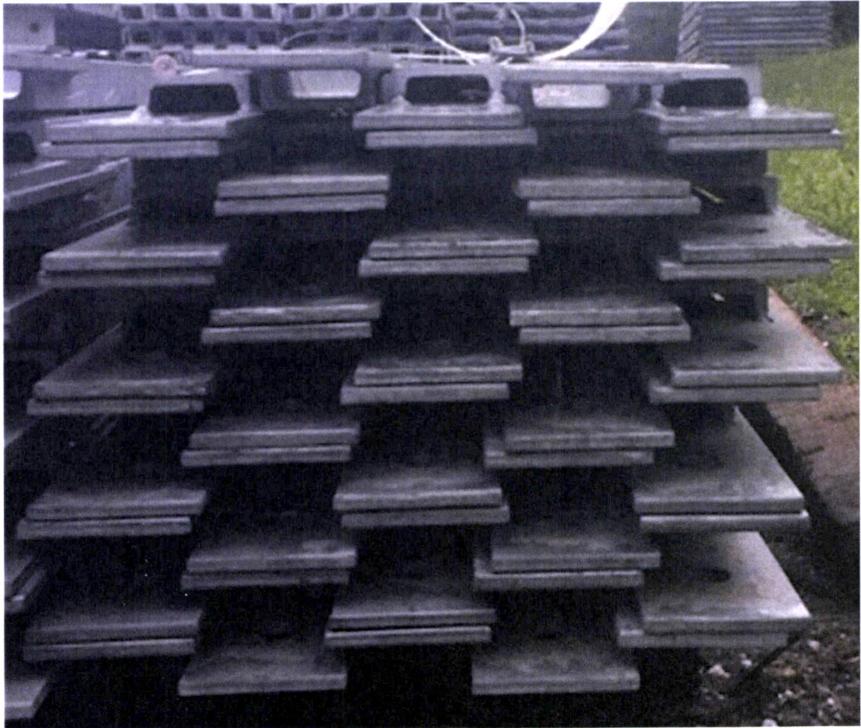


Small Components Continued...

Photo: AB522



Photo: AB703



Small Components Continued...

Photo: AB513, AB513Q, AB514, AB514Q



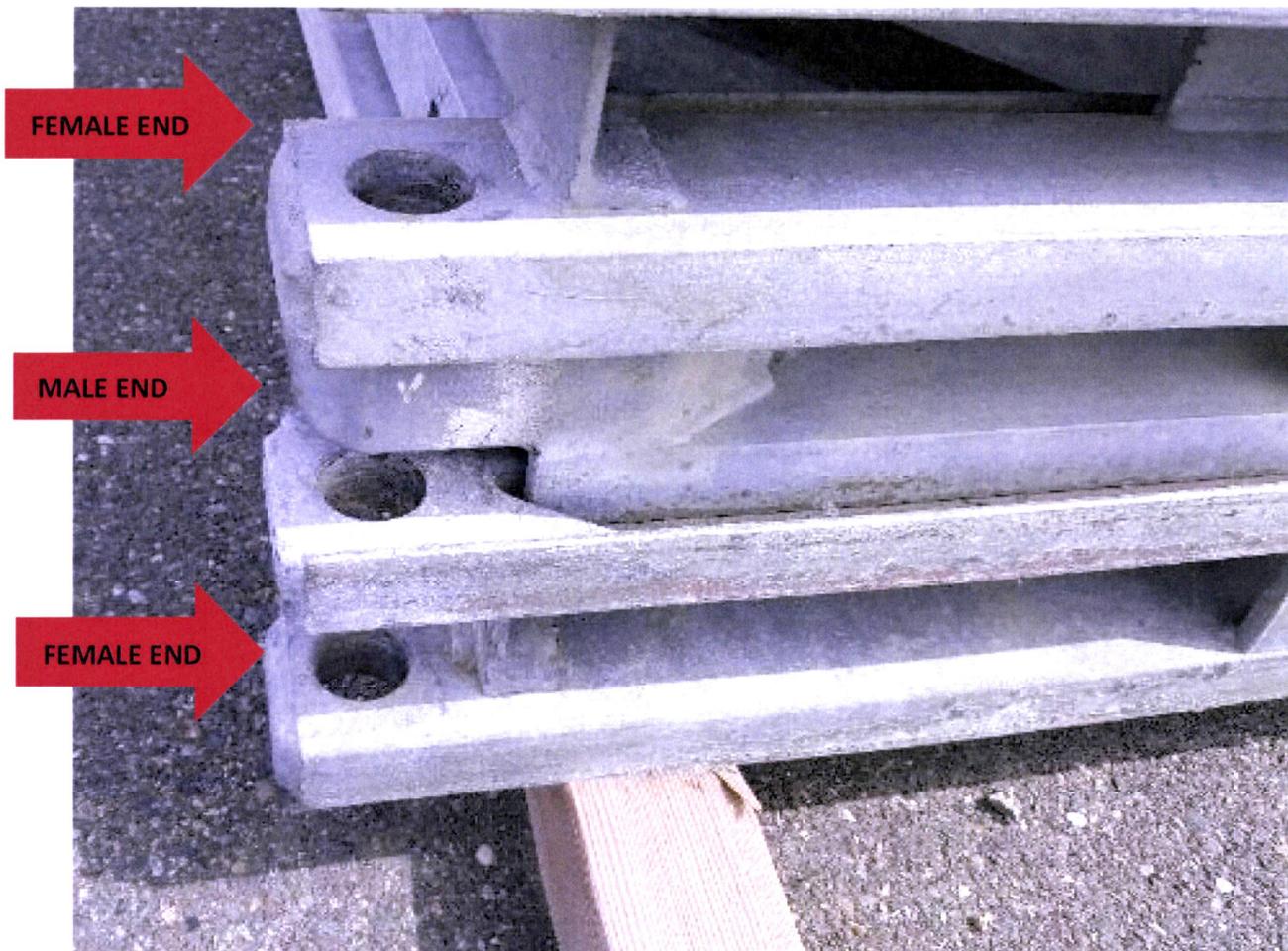
**Sway Braces**

- Sway braces will be bundled and banded in groups of **25 or less**.
- These can be done one of two ways, either on their side or stacked.



## Truss Panels

- Panels will be interlocked to provide added stability.
- Panels will be stacked with the male and female ends alternating in the following quantities:
  - **AB701** – Stacks of **8**
  - **AB702** – Stacks of **6**
  - **AB708** – Stacks of **4**
- Ensure you keep the panels separated by part number. Stack all AB701s, then AB702s, etc. They can be stacked on top of each other but, ensure they are not intermingled (i.e. AB701, AB702, AB701).



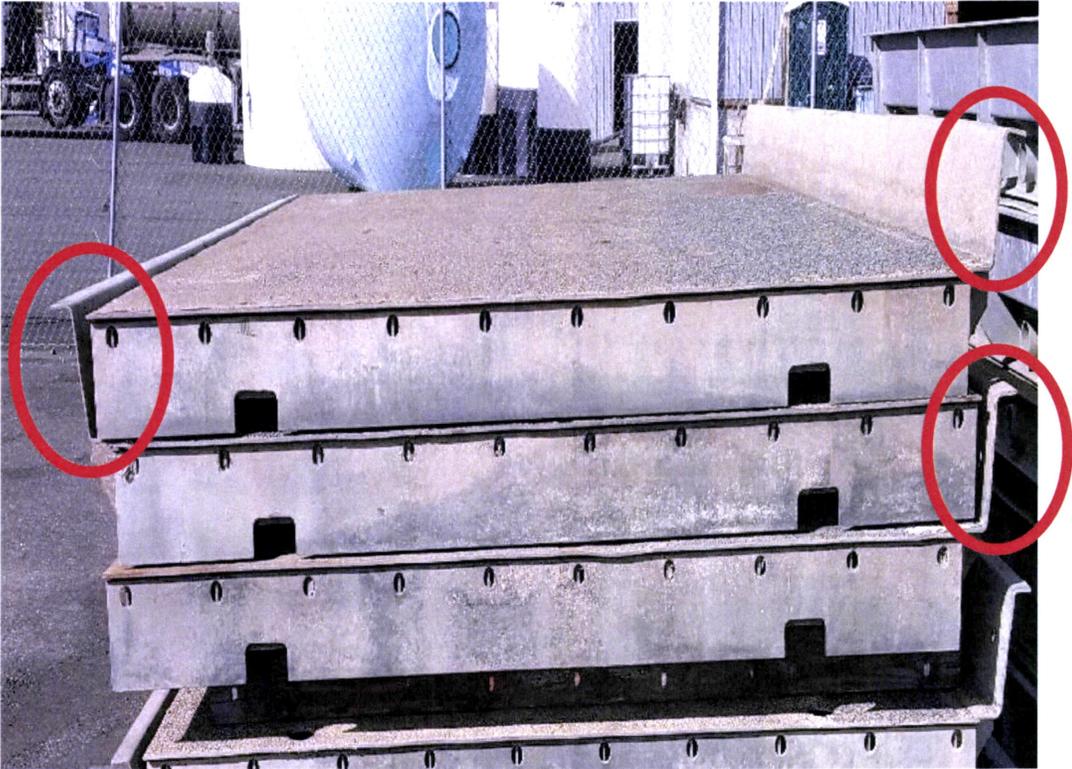
Truss Panels Continued...



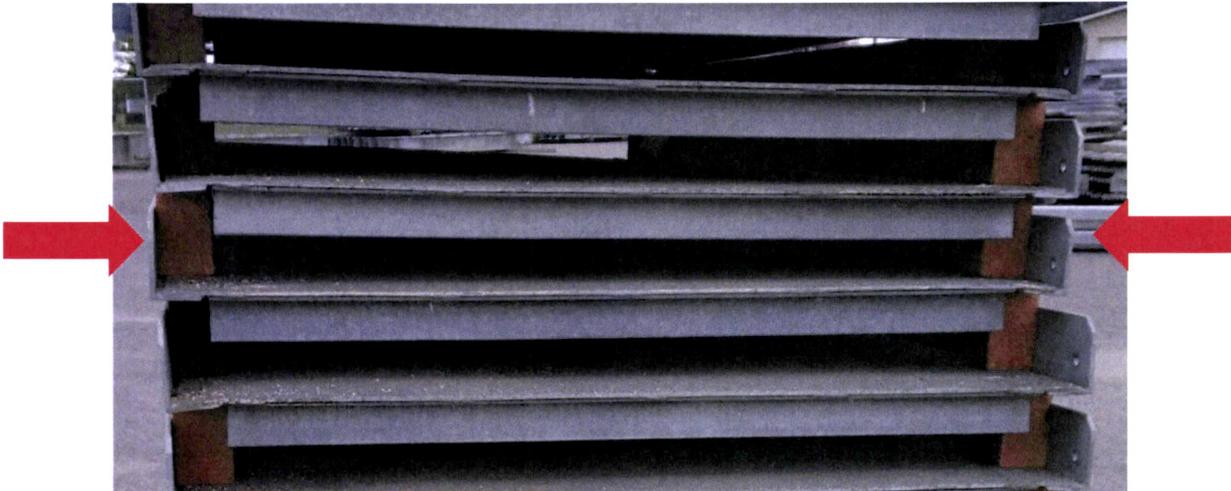
**Deck Units**

- Deck units will be stacked in groups of 5.
- Curb units will be stacked with the curb edge alternating.
- Footwalk deck will be stacked with sufficient blocking (min. 4"x6"x6" block) inbetween each unit.

**Curb Units**



**Footwalk Deck Units**



## Transoms

- Transoms will be grouped together standing upright.
- **TRANSOMS ARE THE ONLY ITEM THAT CAN BE LIFTED WITH CHAINS.**
- To ensure the transoms are not damaged or bent, **DO NOT LAY DOWN ON THEIR SIDES.**



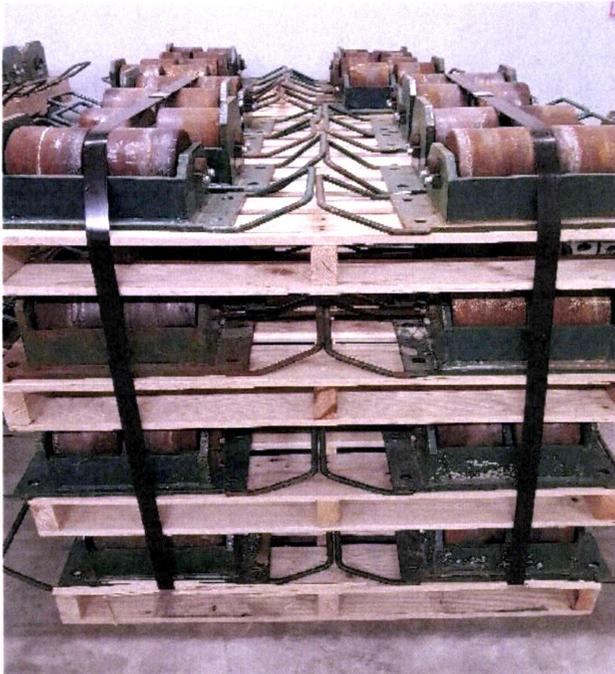
## Rollers

- Rollers will be placed on a pallet and banded.
- Both types of rollers (AB043 and AB042) will be loaded no more than **8** per pallet.
- Do not stack AB042 plain rollers on top of each other as this is very unstable.
- AB043 rocking rollers can be placed next to each other utilizing the guide rollers to offset them.

Photo: AB043



Photo: AB042



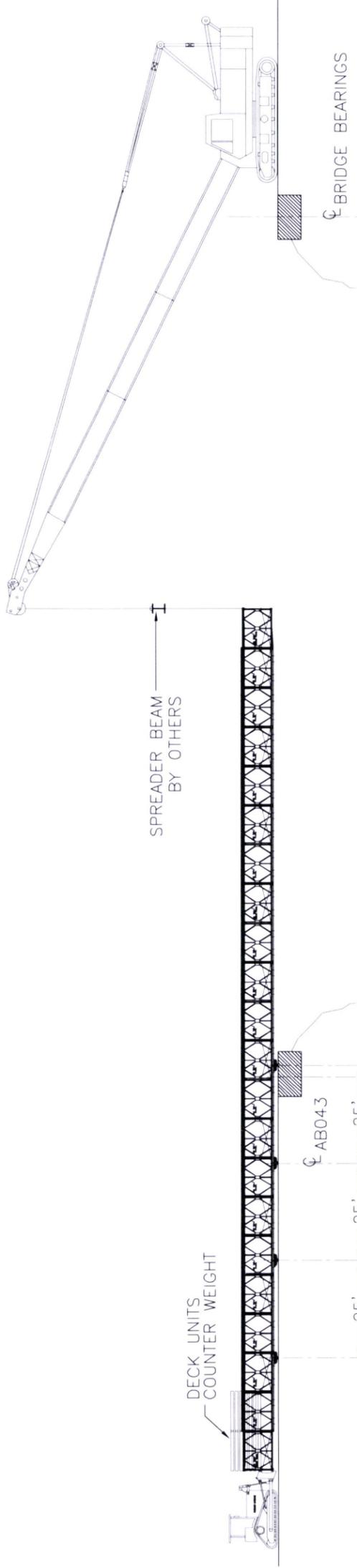
## SHIPPING

It is valuable to speak with the truck driver before loading the truck. He/she will better inform you of where each component should go. Below is a short list of how to load a truck.

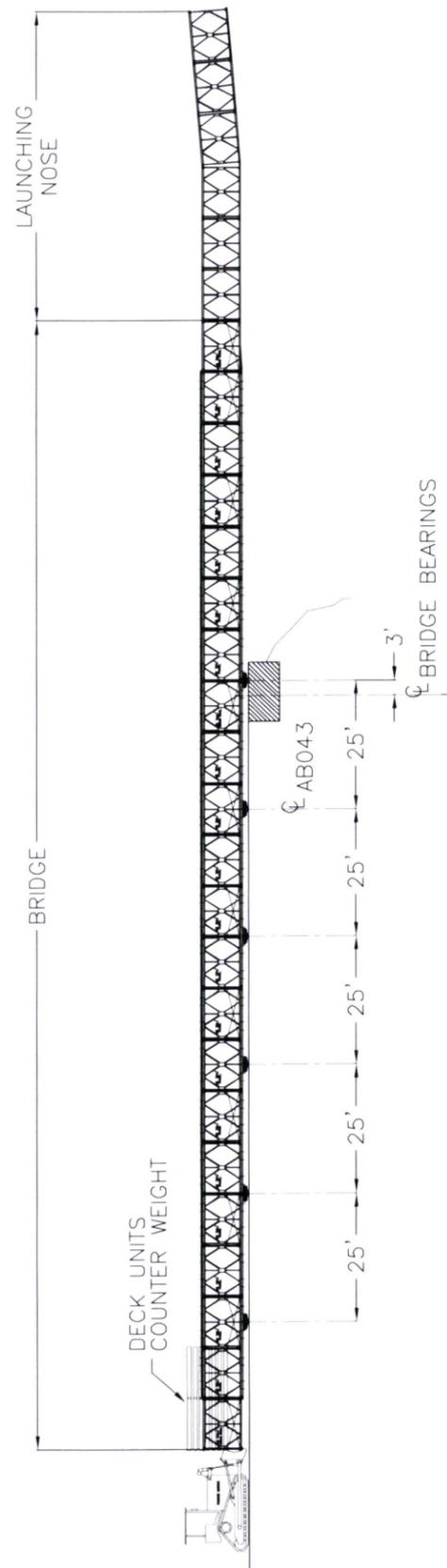
1. If shipping in enclosed ocean freight containers, **SECURE THE EQUIPMENT WITHIN THE CONTAINER WITH STRAPS.**
2. Heavier items will be loaded toward the middle to rear of the trailer. Be sure you speak to the driver.
3. Ensure you use dunnage for each large item going on the trailer.
4. Truss panels will be loaded no more than **16** high. **DO NOT PLACE SMALLER COMPONENTS IN OR ON THE PANELS.**
5. Decking will be loaded no more than **10** high with **no additional components on top.** Smaller, lightweight items can be placed on the decking if stacks are **less than 10.**
6. Transoms will be loaded directly onto dunnage on the trailer. **Do not place anything under the transoms.** Smaller, lightweight items can be placed on top of the transoms. **ENSURE YOU USE DUNNAGE ON TOP OF THE TRANSOMS TO PREVENT DAMAGE.**
7. Crates and pallets will be loaded in the same area on the trailer.







**CRANE ASSIST LAUNCH**



**CONVENTIONAL LAUNCH**

**ACROW**  
CREATING ENGINEERED SOLUTIONS WORLDWIDE™  
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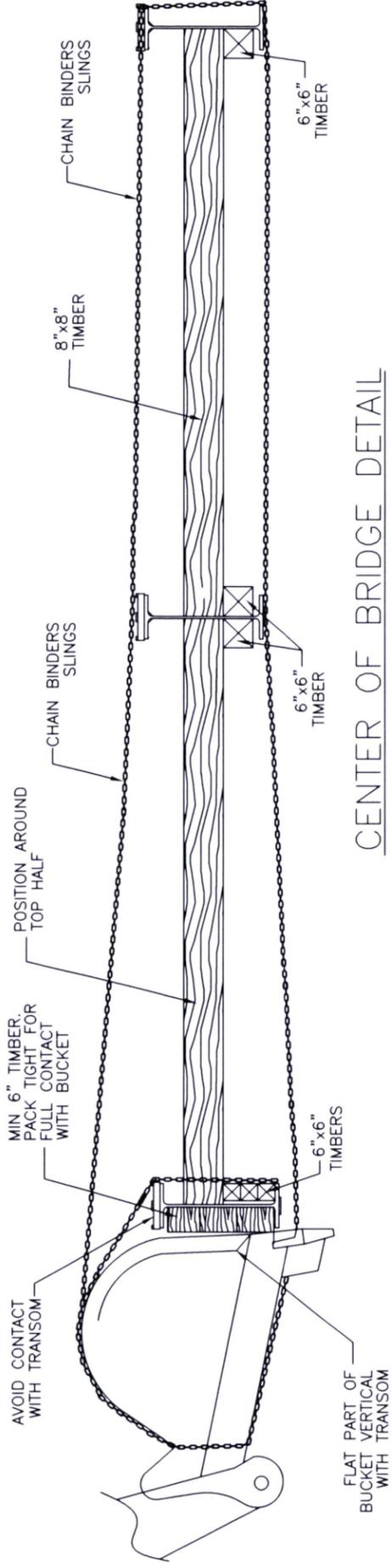
ACROW 700XS PANEL BRIDGE  
 CRANE ASSIST & CONVENTIONAL LAUNCH  
 FOR INFORMATION PURPOSES ONLY

DRAWN BY: RJ	DATE: JANUARY 28, 2005	CONTRACT NO.:	
CHECKED BY: MH	SCALE: AS SHOWN	DRAWING NO.:	REV.:
APPROVED BY:		PROPOSAL	SHT 1 OF 1

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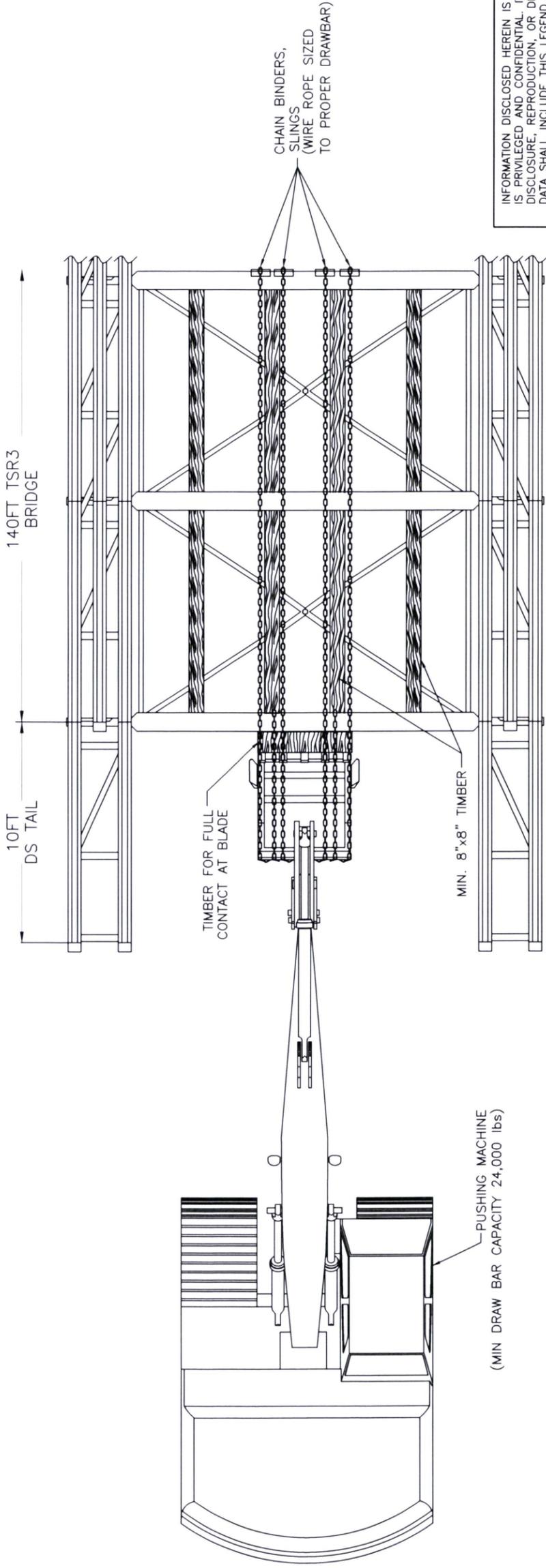






**CENTER OF BRIDGE DETAIL**

BRACES NOT SHOWN FOR CLARITY



**PLAN**

**NOTE:**

1. INSTALL PUSH/PULL BLOCKING & BRACING FOR ALL PUSHING SEQUENCES
2. FOR INTERMEDIATE PUSHES, ONE BAY OF BLOCKING CAN BE SUFFICIENT DEPENDING ON SIZE OF BRIDGE. REFER TO LAUNCH SEQUENCE FOR ACTUAL NUMBER OF REQUIRED BAYS OR CONSULT WITH ACROWFIELD REPRESENTATIVE FOR GUIDANCE
3. REMOVE PUSH BLOCKING AFTER PUSH

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SEA

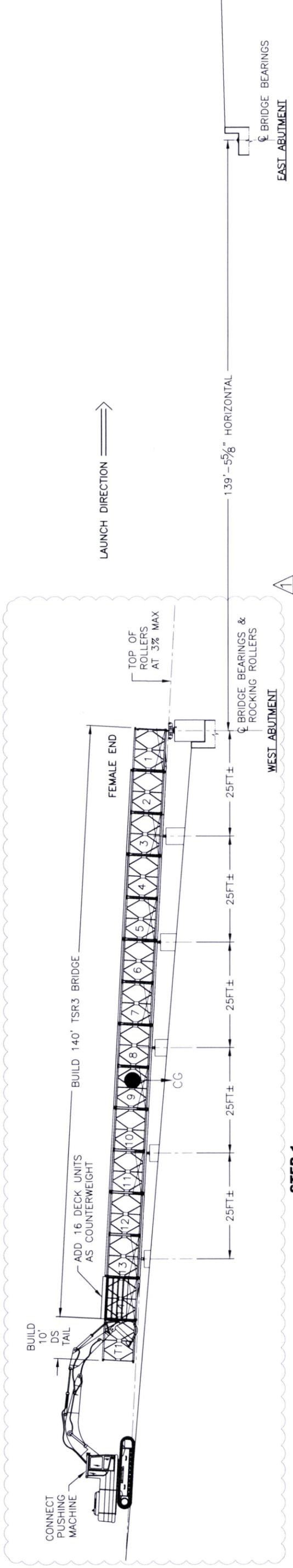
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BLOCKING AND PUSHING DETAIL  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

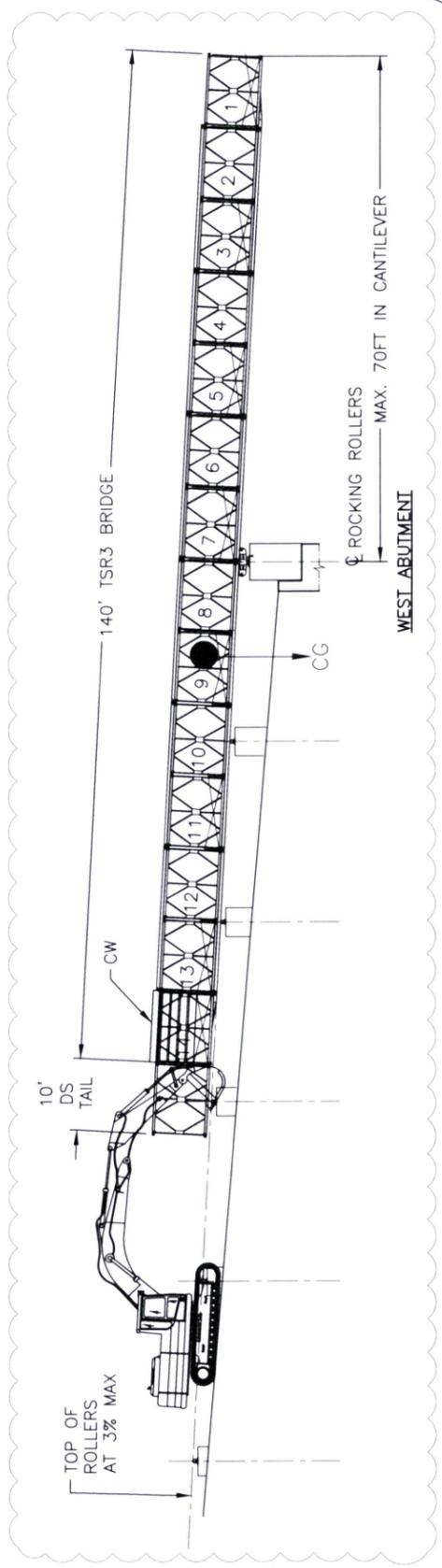
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CHECKED BY	MAD	SCALE	NTS	22-02-3002
APPROVED BY	MJP			
COWLITZ COUNTY PUBLIC WORKS KELSO, WA				DRAWING NO. AB2411-LP
				REV. SHT 3 OF 7

REV.	DATE	DESCRIPTION	BY	CHK.	APPR.



**STEP 1**

- SET UP ROLLERS IN THE BUILD AREA (SEE ROLLER LAYOUT, SHEET 1)
- BUILD 140 FT TSR3 BRIDGE INCLUDING GUARDRAIL POSTS BUT WITHOUT DECK AND GUARDRAILS.
- BUILD 10FT DS TAIL.
- INSTALL TEMPORARY BLOCKING IN THE END BAYS (SEE PUSHING DETAIL ON SHEET 3).
- ADD 16 DECK UNITS TO THE LAST BAY OF BRIDGE AS COUNTERWEIGHT AND SECURE FROM INADVERTENT MOVEMENT.
- CONNECT A PUSHING MACHINE CAPABLE OF PUSHING 24,000 LBS. TO THE LAST TRANSOM.



**STEP 2**

- PUSH THE BRIDGE FORWARD 70FT (MAX. 70FT IN CANTILEVER).
- SECURE THE BRIDGE IN TWO DIRECTIONS TO A FIXED OBJECT OR CONTRACTOR'S EQUIPMENT TO PREVENT INADVERTENT MOVEMENT.

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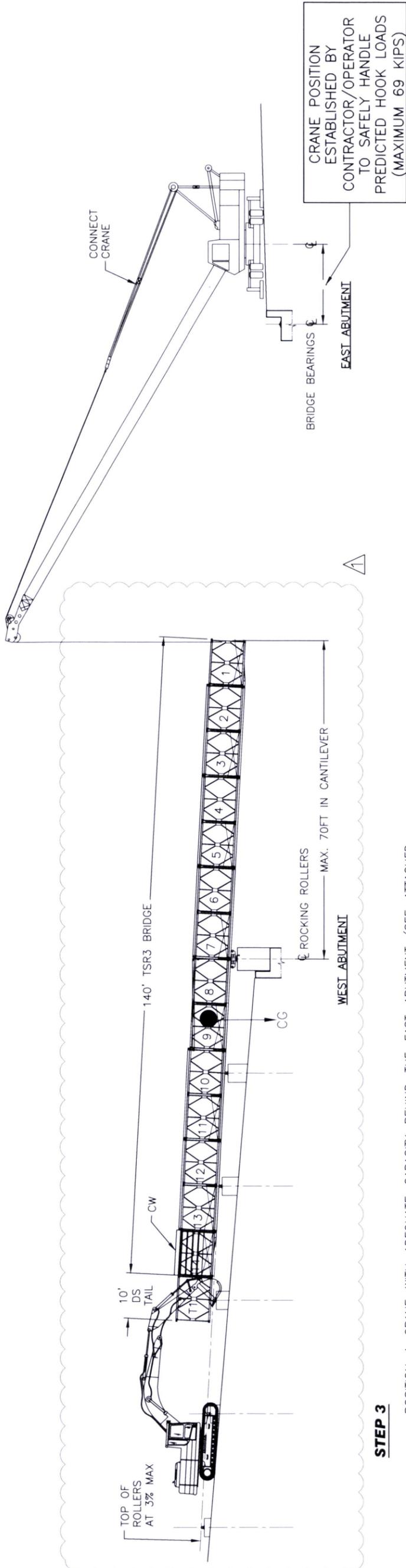
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LAUNCH SEQUENCE  
 140FT x EW18 x TSR3 BRIDGE  
 TOWER ROAD OVER ROCK CREEK  
 CASTLE ROCK, WA

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CHECKED BY	MAD			SCALE:	NTS
APPROVED BY	EJP				22-02-3002

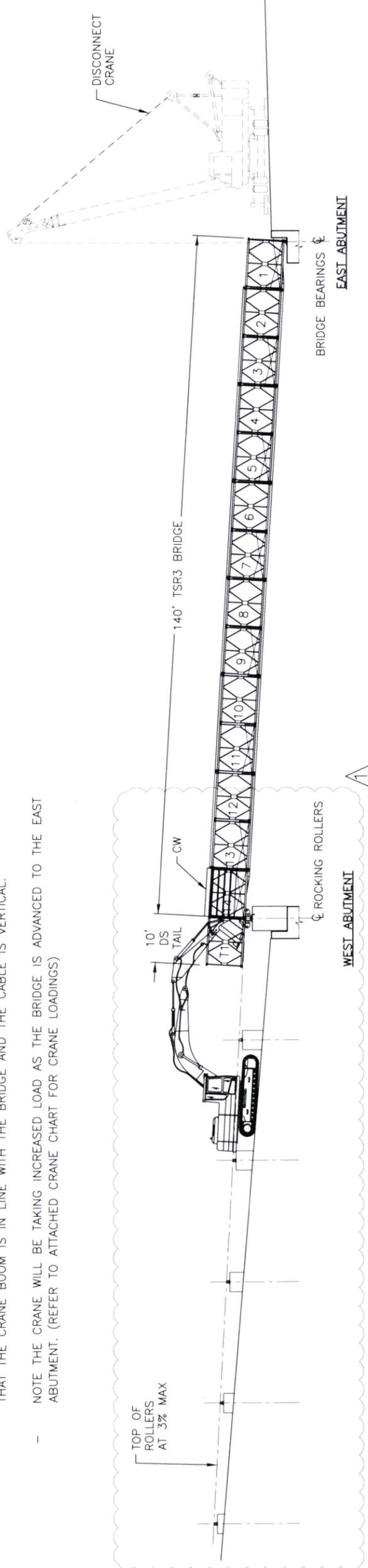
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		SHT	4 OF 7

REV.	DATE	DESCRIPTION	BY	CHK.	APPR.
1	10/12/22	3% MAX SLOPING LAUNCH	MAD	MAD	MJP



**STEP 3**

- POSITION A CRANE WITH ADEQUATE CAPACITY BEHIND THE EAST ABUTMENT (SEE ATTACHED CRANE CHART).
- RIG CRANE TO THE CANTILEVERED END OF BRIDGE (REFER TO RIGGING DETAILS) AND ENSURE THAT THE CRANE BOOM IS IN LINE WITH THE BRIDGE AND THE CABLE IS VERTICAL.
- NOTE THE CRANE WILL BE TAKING INCREASED LOAD AS THE BRIDGE IS ADVANCED TO THE EAST ABUTMENT. (REFER TO ATTACHED CRANE CHART FOR CRANE LOADINGS)



**STEP 4**

- RELEASE BRIDGE RESTRAINTS AND PUSH THE BRIDGE FORWARD 70 FT OR UNTIL THE BRIDGE IS OVER THE BEARINGS AT THE EAST ABUTMENT (USE THE CRANE TO KEEP THE BRIDGE LEVEL).
- LOWER THE BRIDGE ONTO THE BEARINGS AT THE EAST ABUTMENT.
- SECURE THE BRIDGE TO A FIXED OBJECT OR CONTRACTOR'S EQUIPMENT TO RESTRAIN BRIDGE FROM INADVERTENT MOVEMENT DURING JACKING/LIFTING SEQUENCE.
- DISCONNECT THE CRANE.

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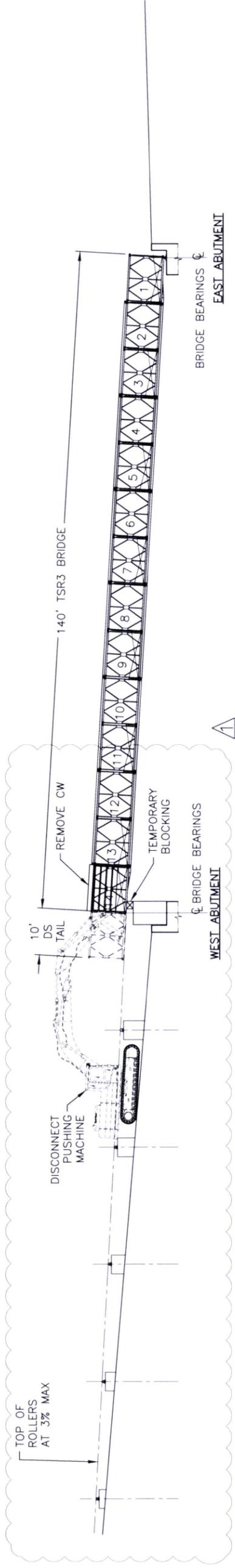
LAUNCH SEQUENCE  
 140FT x EW18 x TSR3 BRIDGE  
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COWLITZ COUNTY PUBLIC WORKS  
 KELSO, WA

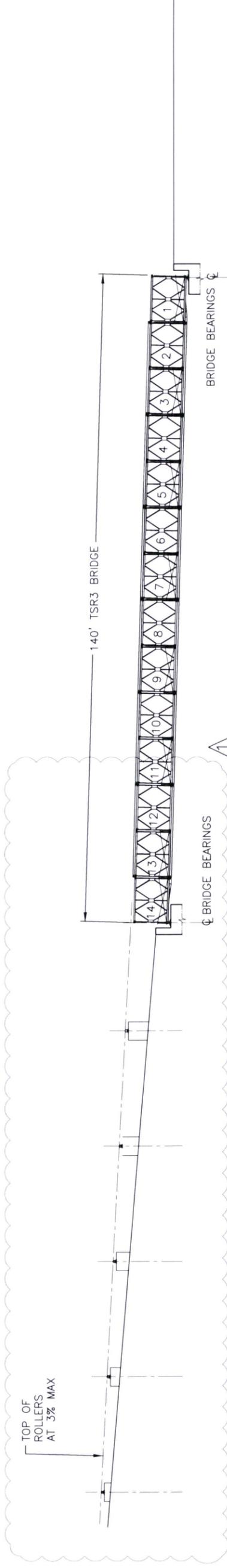
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 SHT 5 OF 7

REV	DATE	DESCRIPTION	BY	CHK	APPR
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**STEP 5**

- REMOVE ALL COUNTERWEIGHT AND TEMPORARY BLOCKING FROM THE BRIDGE AND DETACH THE PUSHING MACHINE.
- LIFT/JACK THE BRIDGE AT THE WEST ABUTMENT HIGH ENOUGH TO REMOVE THE ROCKING ROLLERS AND PLACE IT ON TEMPORARY BLOCKING. (SEE JACKING DETAILS ON SHEET 7)
- REMOVE THE ROCKING ROLLERS, DISASSEMBLE THE 10 FT DS TAIL, AND INSTALL BEARINGS.



**STEP 6**

- LIFT/JACK THE BRIDGE SLIGHTLY AT THE WEST ABUTMENT, REMOVE TEMPORARY BLOCKING AND LOWER THE BRIDGE ONTO THE BEARINGS.
- REMOVE TAPER CHORDS.
- INSTALL DECK, AND GUARDRAILS.

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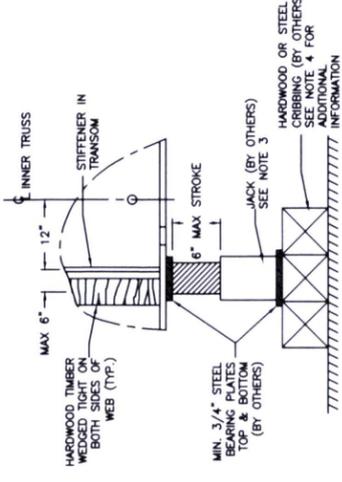
LAUNCH SEQUENCE  
 140FT x EW18 x TSR3 BRIDGE  
 TOWER ROAD OVER ROCK CREEK  
 CASTLE ROCK, WA

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COWLITZ COUNTY PUBLIC WORKS	KELSO, WA	SHT	6 OF 7

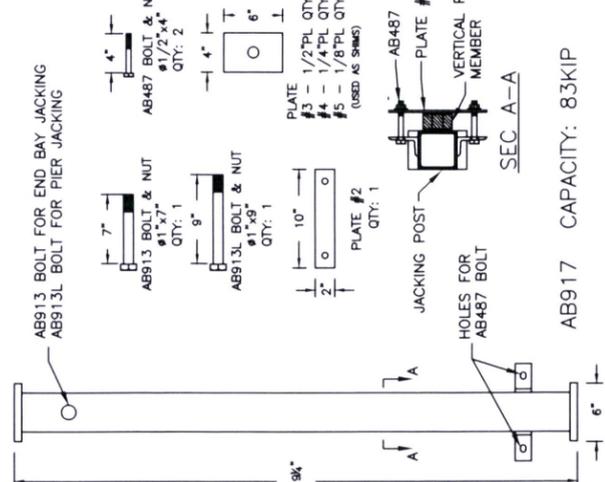
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1	10/12/22	3% MAX SLOPING LAUNCH	MAD	MAD	MJP

# TYPICAL JACK DETAIL



- NOTES**
- JACK STROKE NOT TO EXCEED 6"
  - JACKS TO HAVE SWIVEL TYPE HEADS TO ALLOW EVEN LOADING ON THE JACK
  - JACKS TO HAVE THE MINIMUM LIFTING CAPACITY AS INDICATED ON THE DRAWINGS
  - ALL HARDWOOD OR STEEL CRIBBING USED AS PART OF THE JACKING PROCEDURE IS TO BE DESIGNED & PROVIDED BY OTHERS. CRIBBING MUST BE SECURED TO THE CAP BEAM OR ABUTMENT TO PREVENT INADVERTENT MOVEMENT DURING JACKING.

# JACKING POST DETAIL

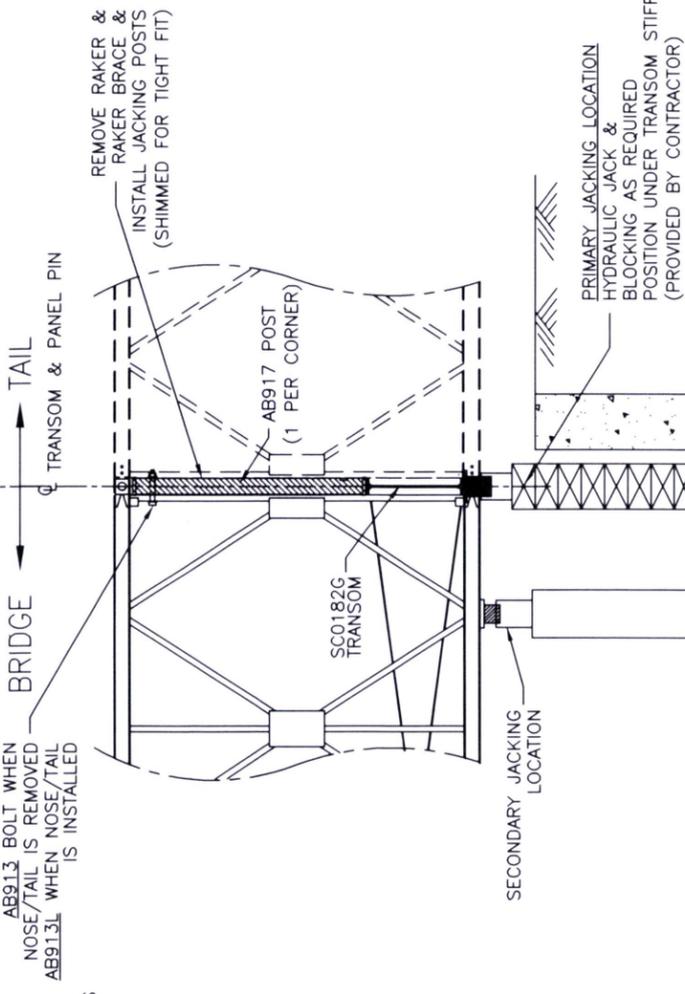


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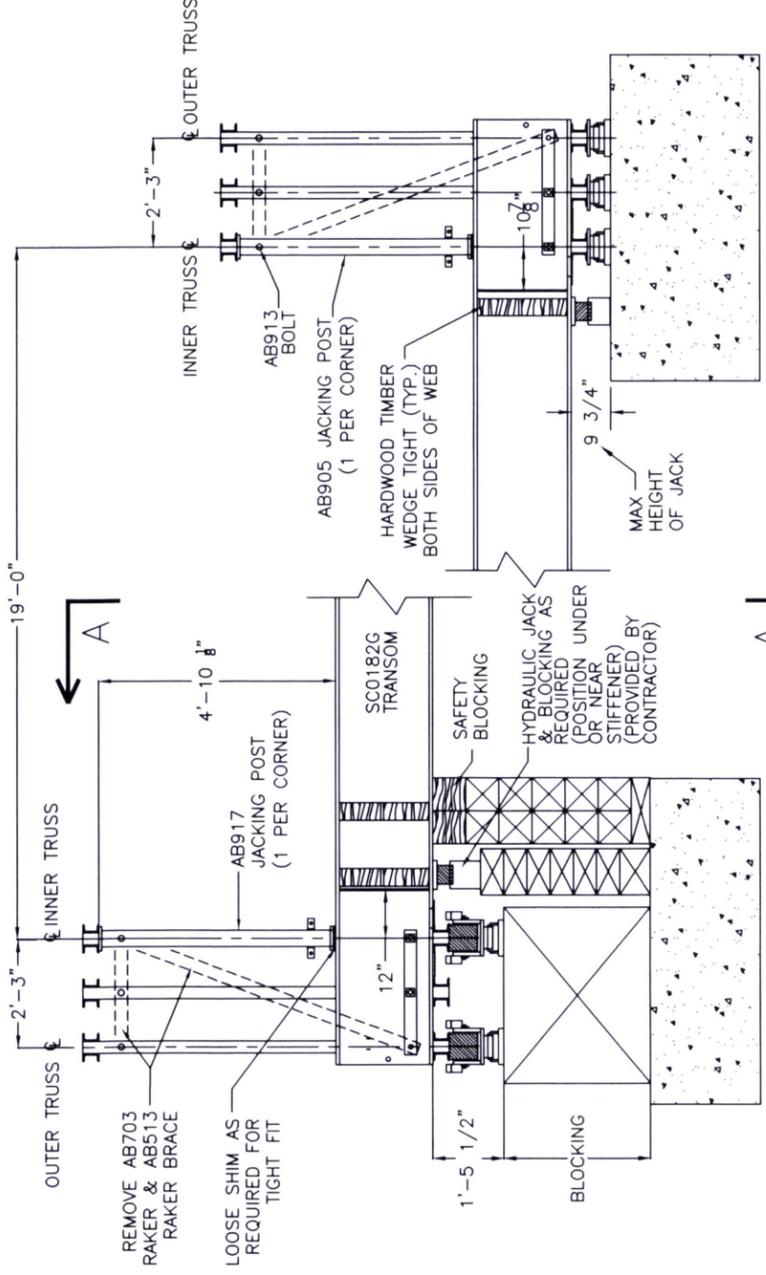
JACKING DETAILS  
140FT x EW18 x TSR3 BRIDGE  
TOWER ROAD OVER ROCK CREEK  
CASTLE ROCK, WA

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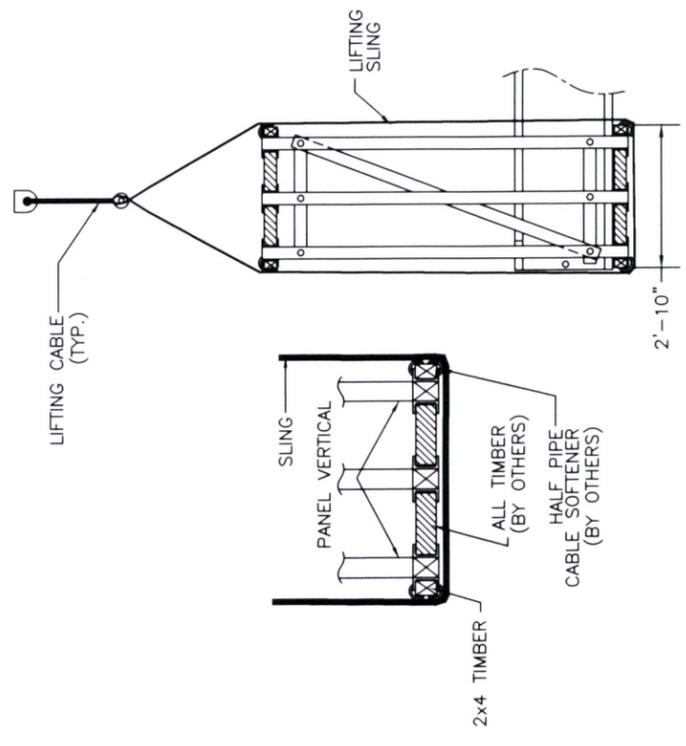
SECTION AT JACK DOWN

# TYPICAL JACKING SETUP AT WEST ABUTMENT

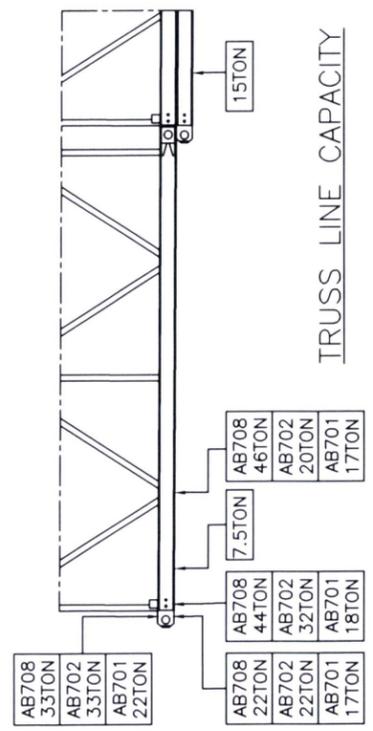


SECTION AT ROLL-OUT

ROCKING ROLLERS NOT SHOWN SECTION A-A



OPTIONAL LIFTING DETAIL



TRUSS LINE CAPACITY

# JACKING LOAD ~32 KIPS PER CORNER

REV.	DATE	DESCRIPTION	BY	CHK.	APPR.