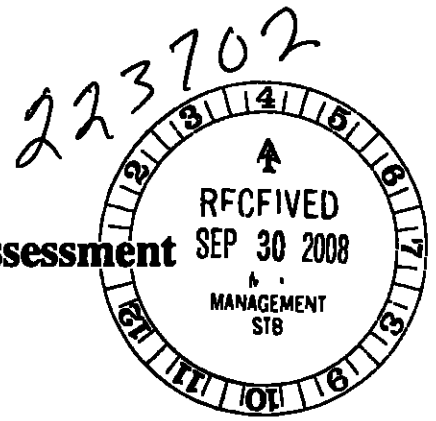


OCT - 1 2008

Part of
Public Record



Coos Bay Rail Link Bridge Condition Assessment

Draft Report – Volume 3 of 3



Prepared For:



Oregon International Port of Coos Bay

September 24, 2008



DAVID EVANS
& ASSOCIATES, INC.

**OREGON DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
CORP BRIDGE 716.4**

FLORENCE, OREGON

INSPECTION REPORT

DRAFT

Prepared for
**OREGON DEPARTMENT OF TRANSPORTATION RAIL DIVISION
555 13th Street N.E., Suite 3
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September 2008

Summary

Bridge Inspection Summary Report			
Bridge.	716.4	Inspected on	9/13/08 – 9/16/08
Owner	Central Oregon and Pacific Rail	Inspector	Tom Whiteman, PE
Location	Cushman, OR		
Route	Coos Bay Line		Inspector's Signature

OVERALL NBI RATINGS

2	Steel Superstructure	6	Steel Substructure
5	Timber Superstructure	4	Timber Substructure
6	Concrete Substructure		

BMS ELEMENTS AND CONDITION RATING								
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4	State 5
107	Painted Steel Open Girder/Beam	108	LF	0%	0%	100%	0%	0%
111	Timber Open Girder/Beam	21,216	LF	98%	1%	1%	0%	--
113	Painted Steel Stringer	1,488	LF	0%	0%	0%	2%	98%
121	Painted Steel Thru Truss (Bottom Chord)	1,372	LF	0%	0%	0%	20%	80%
126	Painted Steel Thru Truss (Excl Bottom Chord)	1,372	LF	0%	0%	2%	8%	90%
152	Painted Steel Floorbeam	868	LF	0%	0%	0%	2%	98%
161	Painted Steel Pin	48	EA	0%	0%	5%	20%	75%
202	Steel Column or Pile Extension	2	EA	0%	0%	100%	0%	0%
206	Timber Column or Pile Extension	940	EA	83%	10%	2%	5%	--
210	Reinforced Concrete Pier Wall	5	EA	0%	100%	0%	0%	--
215	Reinforced Concrete Abutment	1	EA	100%	0%	0%	0%	--
216	Timber Abutment	1	EA	100%	0%	0%	0%	--
231	Steel Cap	1	EA	0%	0%	100%	0%	0%
235	Timber Cap	180	EA	30%	45%	20%	5%	--
311	Movable Bearings (roller, slider, etc)	8	EA	0%	25%	75%	--	--
313	Fixed Bearings	4	EA	0%	25%	75%	--	--
390	Paint System - Alkyds (incl Red Leads)	150,000	SF	0%	0%	0%	40%	60%

NBI CONDITION RATING AND BMS CONDITION STATE GUIDE

TABLE 1: NBI GENERAL CONDITION RATINGS

Code	General Description
N	Not Applicable
9	Excellent Condition
8	Very Good Condition - no problems noted
7	Good Condition - some minor problems
6	Satisfactory Condition - structural elements show some minor deterioration
5	Fair Condition - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour
4	Poor Condition - advanced section loss, deterioration, spalling or scour
3	Serious Condition - loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.
2	Critical Condition - advanced deterioration of primary structural elements. Fatigue cracks in steel or shear in concrete may be present or scour may have removed substructure support. Unless closely monitored it may be necessary to close the bridge until corrective action is taken.
1	"Imminent" Failure Condition - major deterioration or section loss present in critical structural components or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put back in light service.
0	Failed Condition - out of service - beyond corrective action.

TABLE 2: PAINTED STEEL BMS CONDITION STATES

Condition State Descriptions	
1.	There is no evidence of corrosion and any paint systems are sound and functioning as intended to protect the metal surface.
2.	There is little or no active corrosion. Surface or freckled rust may have formed or is forming. The paint system may be chalking, peeling, curling, or showing other early evidence of paint system distress, but there is no exposure of metal.
3.	Surface or freckled rust is moderate to heavy. There may be exposed metal, but there is no measurable loss of section.
4.	The paint system has failed. Corrosion may be present but any section loss due to active corrosion does not yet warrant a structural analysis of the element or the bridge.
5.	Corrosion has caused section loss and is sufficient to warrant structural analysis to ascertain the impact on the ultimate strength and/or serviceability of either the element or the bridge.

TABLE 3: CONCRETE BMS CONDITION STATES

Condition State Descriptions	
1	The element shows little or no deterioration. There may be discoloration, efflorescence, and/or superficial cracking but without effect on strength or serviceability.
2	Minor structural cracks and spalls may be present but there is no exposed reinforcing or surface evidence of rebar corrosion.
3	Some delaminations and/or spalls are present and some reinforcing may be exposed. Corrosion of rebar may be present but loss of section is incidental and does not significantly affect the strength and/or serviceability of either the element or the bridge.
4	Advanced deterioration. Corrosion of reinforcement and/or loss of concrete section is sufficient to warrant an analysis to ascertain the impact on the strength and/or serviceability of either the element or the bridge.

TABLE 4: TIMBER BMS CONDITION STATES

Condition State Descriptions	
1.	Investigation indicates no decay. There may be superficial cracks, splits, and checks having no effect on the strength or serviceability.
2	Decay, insect/marine borer infestation, abrasion, splitting, cracking, checking, or crushing may exist but none is sufficiently advanced to affect the strength or serviceability of the element.
3.	Decay, insect/marine borer infestation, abrasion, splitting, cracking, or crushing has produced loss of strength or deflection of the element but not of a sufficient magnitude to affect the serviceability of the bridge.
4	Advanced deterioration. Decay, insect/marine borer infestation, abrasion, splits cracks, or crushing has produced loss of strength or deflection that affects the serviceability of the bridge.

TABLE 5: BEARING BMS CONDITION STATES

Condition State Descriptions	
1.	The element shows little or no deterioration. If a paint system is present, it is sound and functioning as intended to protect the metal. The bearing has minimal debris and corrosion. Vertical and Horizontal alignment are within limits. Bearing support member is sound. Any lubrication system is functioning properly.
2.	The paint system, if present, may show moderate to heavy corrosion with some pitting but still functioning as intended. The assemblies may have moved enough to cause minor cracking in the supporting concrete. Debris buildup is affecting bearing movement. Bearing alignment is still tolerable.
3.	Advanced corrosion with section loss. There may be loss of section of the supporting member sufficient to warrant supplemental supports or load restrictions. Bearing alignment may be beyond tolerable limits. Shear keys may have failed. The lubrication system, if any, may have failed.

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INTRODUCTION

DEA bridge engineers from the Salem and Olympia bridge office were retained by ODOT Rail Division to provide an immediate inspection of CORP Bridge No. 716.4 (mile post). This bridge supports a single rail road line.

The bridge is located 2 miles east of Florence, Oregon along the coast and about 50 miles north of Coos Bay. It passes over highway 126 immediately prior to crossing the Siuslaw River. The bridge is part of the Eugene to Coos Bay Corp rail road line. Currently the line is closed to rail traffic.

Bridge 716.4 consists of four bridge sections – total bridge length is 3,400 ft.

1. Bridge Section 1 is a 54 ft. long, single span, riveted steel thru-girder bridge. Steel stringers and steel floorbeams support standard timber ties and the steel rails. The bridge spans state road 126.
2. Bridge Section 2 is 112.5 ft. long timber trestle bridge consisting of seven 5-pile bents, one 11 pile bent, 8 timber stringers, and a single cap-beam per bent. The bents are spaced approximately 15 ft. apart. The bridge spans a small section of land between the HW 126 and the Siuslaw River.
3. Bridge Section 3 is steel thru-truss bridge consisting of three separate trusses. The first and third trusses are identical pin jointed trusses and measure 200 ft. long each. The middle truss is a swing bridge with a large circular center pier. It is 285 ft. long from end to end and uses gusset plates at the joints. All trusses have similar stringer and floorbeam framing plans supporting timber ties and the steel rails. Each truss bay is 28.5 ft. for all trusses. The three trusses span the Siuslaw River.
4. Bridge Section 4 is a 2,550 ft. long timber trestle bridge consisting of 169 timber bents and one timber abutment. Five pile bents comprise the predominate straight portion of the timber section spanning wet grass lands, and seven pile bents are used for the southern curved section of the bridge over the Siuslaw Slough. There are about 880 piles in this timber section.

Inspection Approach:

Each bridge section was evaluated and rated member by member. Field notes were taken to record the specific rating given to every bridge member during the course of the inspection (see Appendix B). Photo documentation was performed to provide a comprehensive sense of the bridge's condition (see Appendix C).

This report discusses our methodology for inspecting the steel and timber bridge sections, reviews the key findings, and provides an overall or average rating of the bridge considering both its worst members and best members (see Bridge Inspection Summary). We also provide conclusions and recommendations.

Steel Sections:

For the steel bridges a serious effort was made to perform hands on, close up inspection of every element. However, it was not always possible to access the entire top-chord of the truss, or the entire bottom flange of the floorbeam. In these cases a visual inspection was made from as close up as possible.

All steel elements on both the girder and truss bridges were rated using two methods. The first method, *NBI system*, attempts to provide a general overview of the condition and structural integrity assuming most elements are more or less similar in their rate of deterioration. Bridge elements are rated from 1 (imminent failure) to 8 (good condition). It also provides opportunity to rate an entire bridge based on the condition of its worst member if in the judgment of the engineer this would provide the best and most prudent assessment. This is in keeping with an inspection approach known as the "weak link". The idea being that a bridge structure is only as good as its weakest member, in particular if the element is non-redundant (failure of the element would lead to collapse of the bridge), or directly provides capacity to the load path (failures are local and cause an interruption of train traffic until the repair is performed, but could also lead to significant disruption of traffic or injury). Thus, in the NBI approach a bridge which is predominately in good shape could be downgraded by one bad member which if repaired would result in a much higher overall bridge rating. This method, however, also provides a means to give a general overall statement regarding the bridge's structural integrity.

When using the weak link approach it makes sense then to quantify the areas controlling the deterioration rating to be sure that the percent of good or bad condition is clearly known. For this reason a second methodology is introduced into the rating system known as *Condition State Evaluation (CSE)*. This method identifies all the elements that comprise a bridge and rates both the *amount and rate of deterioration to each bridge component*. It also provides additional descriptive language that helps clients better understand the bridge's condition.

Timber Sections:

For the timber trestles we used a slightly different approach compared to the steel sections. The timber sections have been inspected numerous times in the past. These inspections appear to be comprehensive both in the field effort and report documentation. The previous inspectors performed a great deal of drilling to each pile in order to assess its condition. We decided to reduce the drilling into the piles and rely primarily on sounding the piles with a pick hammer in order to make a determination if the pile contained a significant level of rot. If a pile has a thin shell (less than about 4 to 5 inches) it will upon impact with a pick hammer cause a sound which is very different than a pile that is solid timber. If a pile sounded hollow it implies that it contains rot in the interior surrounded by a shell of solid wood. For all piles which were identified in previous reports to have a thin shell of good wood surrounding rotted wood, we made an effort to confirm this result - first by sounding and second by drilling. If a pile sounded solid we did not drill it.

Individual piles with excessive interior rot are rated low. As a single pile their condition is therefore critical, serious or poor. However, because there are many piles the demise of one will cause the load path to shift somewhat but will not cause collapse of the bridge, especially if there is only one rotted pile in a 5 or 7 pile bent. This is a redundant system and in this case we do not rate the entire bridge based on the individual rotted piles but rather we rate the bridge based on the collective, overall, average condition found during the inspection. However, if in a single pile bent 2 or 3 fully rotted piles are identified, we would have to consider that local bent failure is possible, and therefore, this one bent would affect the overall rating of the entire timber section.

For the timber bridges we performed hands-on inspection of every pile from the ground, to a height of approximately 7 feet. In general, piles are more likely to experience rot in the areas subjected to the wet grassy environment, variations in water level from the tide, or near the

lower end of the cross-brace connections. We sounded every pile at each of the bents (169 bents total) to test for solid or hollow conditions. We confirmed deterioration or rot by drilling as necessary. We recorded the shell thickness following the drilling. We also, worked with previous inspection reports to confirm the results of those inspections and to double check those piles which were found to be in poor condition in the past. We also performed hands-on close up inspection, including sounding, of every cap beam. We used a boat to access bents in the slough at the south end of the bridge. We used hip-boots and chest waders to access piles in the wet lands. As mentioned already, every bent was visited, and every pile was sounded.

INSPECTION FINDINGS

BRIDGE SECTION 1: STEEL THRU-GIRDER

The painted steel stringers, floorbeams, and girders exhibit some deterioration of the paint system which results in exposed steel. Areas of exposed steel reveal surface corrosion, however, little to no measurable loss of material. Girder A (east face) contains notable impact damage to the bottom flange. We found no significant deterioration to the north concrete abutment. Bent 2 is a two column pile bent – some notable corrosion was found on the web of column 1, but did not result in measurable section loss.

BRIDGE SECTION 2: NORTH TIMBER APPROACH TRESTLE

Our findings regarding rot in piles or cap beams were in agreement with previous reports 80% of the time. 4% of the piles determined to contain rot which were not identified in previous reports.

In general 9% of the piles contain thin shells with rotted interiors. All cap-beams sounded solid. The bracing was intact. The stringers sounded solid and no defects were noted.

BRIDGE SECTION 3: STEEL TRUSS

(SPAN 1 (FIXED SPAN), SPAN 2 (SWING SPAN), AND SPAN 3 (FIXED SPAN))

The paint system for the steel trusses has failed and no longer functions as a protection system.

The steel truss elements contain significant, serious, and critical levels of material deterioration from corrosion. Material losses are measurable for all essential members, all non-redundant fracture critical members, and secondary members (cross bracing). In numerous locations the rust has created large holes in primary load carrying members. In many other areas there the remaining steel section is paper thin. For many members the loss of material from corrosion has reduced plate thickness as much as 75%. On average, however, plate thickness is reduced by 25%. For a few members the material loss is low relative to the average condition found on the trusses.

Steel deterioration from corrosion is wide spread. Pins joining truss elements are corroded but not failing. Floorbeams spanning between the left and right truss reveal very high levels of corrosion to the top flange and web areas near the trusses – material losses are measurable at almost all floorbeams. Stringers spanning between floorbeams reveal very high levels of corrosion to the top flange, web, and bottom flange.

There are no failed truss elements, stringers, or floorbeams.

BRIDGE SECTION 4: SOUTH TIMBER APPROACH TRESTLE

The majority of the piles (83%) are in good condition. Some interior rot was found in 65 piles. Significant rot with shells of 2 inches or less was identified in 47 piles. The remaining 18 piles with rot had shells larger than 2 inches. 95 piles without rot had significant splits or cracks (3/8 inch wide opening or greater that extended over most of the length).

The bottom 2 feet of the piles located in the slough appeared to be heavily split but the material sound solid, and soft on the perimeter.

Nearly all *cap-beams* sounded solid with the exception of a few. 57% of the cap-beams contain evidence of splits, cracks, or softness. At a few locations the stringers appear to be slightly crushing into the cap-beam. 18 cap-beams sounded hollow. Three caps were drilled to confirm rot. Only one cap beam (bent 122) was in the process of failing due to crushing. Caps at bents 115 and 163 were found to be in poor condition. The timber was split, sounded hollow, and drilling revealed rot below a 1 inch shell.

The longitudinal and transverse timber X-braces contained some rotted members, and some members which had come loose from the piles. Overall the bracing was in satisfactory condition.

The stringers sounded solid and only minor defects were noted at a few locations. No broken stringers were found.

CONCLUSIONS

BRIDGE SECTION 1: STEEL THRU-GIRDER

This section of bridge 716.4 is structurally sound. Using the NBI rating system we rate the bridge a 6. This means we found the bridge overall to be in *satisfactory condition*. Most structural members show minor levels of deterioration and at a few non-critical areas some initial section loss in the form of minor pitting and corrosion.

The damaged bottom flange on the longitudinal thru-girder reduces the capacity of the element at this location.

The paint system should be evaluated by an expert to render a comprehensive evaluation of the remaining life of the current paint system.

BRIDGE SECTION 2: NORTH TIMBER APPROACH TRESTLE

This section of bridge 716.4 is structurally sound. Using the NBI rating system we rate the timber stringers and cap-beams a 7 and the substructure a 5. This means we found the stringers and cap-beam overall to be in *good condition*, and the pile bents to be in *fair condition*.

The stringers and cap-beams thus contained insignificant levels of decay. The bent piles have many piles with moderate decay, cracking, and splitting resulting in some loss of capacity.

BRIDGE SECTION 3: STEEL TRUSS

(SPAN 1 (FIXED SPAN), SPAN 2 (SWING SPAN), AND SPAN 3 (FIXED SPAN))

This section of bridge 716.4 is not structurally sound. The loss of steel from the corrosion process has significantly weakened the structural capacity of this bridge. Nearly every primary member contains measurable to complete material loss to the thickness of the steel plates that comprise the element. This causes a loss in the section properties resulting in reduced compression force capacity, reduced tension force capacity and irregular stiffness relationships between connected elements causing torsional distribution of forces into the truss load path which introduces forces into the structure which were most likely not considered during the engineer's original analysis. Based on our visual and hands-on inspection we conclude that the degree of section loss to the truss elements is of such a severe nature that unless proven otherwise by analysis, the deterioration currently renders this bridge in a critical condition and, perhaps, in state of imminent local failure. Based on the condition of the truss we strongly urge that this bridge be closed to all rail traffic.

Every component of each truss including the two fixed spans and the swing span are affected by the corrosion of the steel. This includes stringers and floorbeams. There is one stringer below each rail line connected to a floorbeam at each end of the stringer. Each floorbeam supports four stringer connections, and in turn is supported by its own connections to the left and right trusses. While there is a good deal of redundancy in the floorbeam stringer system and failure of a single stringer or floorbeam would not directly lead to a bridge collapse, the failure could result in derailment causing the train to impact the truss rendering it extremely vulnerable to failure. The stringers and floorbeams vary in their level of deterioration along the

bridge length. In the worst cases, however, the section loss is very significant leaving the elements sufficiently deficient for further use, unless analysis calculations prove otherwise.

In areas of the truss with some corrosion (less than 15% of material thickness) we suspect the combination of fatigue and general wear caused by repetitive loading and excessive corrosion may qualitatively affect the elastic and yield stress quality of the composition of remaining pure steel and corroded steel relative to its original design assumptions.

Based on the level of corrosion we feel these truss bridges cannot be repaired or at least cannot be repaired in a manner that is cost effective when compared to replacement cost. There are too many truss elements which require total replacement and there is an insufficient amount of good steel on the truss to connect to. In addition each stringer and floorbeam would require replacement.

BRIDGE SECTION 4: SOUTH TIMBER APPROACH TRESTLE

This section of bridge 716.4 is not structurally sound, however with minimal effort it could be rendered structurally sound. Currently the rating of the bridge is reduced due to the condition of three bents, and one cap beam.

Timber bents No.'s 28, 64, 114 have a 40% reduction in pile capacity. Each rejected pile contains a thin shell of good wood surrounding a fully rotted core. Because of the bracing system of bents No. 28 and 114, there is a structural system in place to possibly assist in redistributing the loads to adjacent bents in the event of pile failure, although the primary purpose of the bracing system is to provide stability to the trestle during breaking of the train. Bent No. 64 is not braced and would not have a means of redistributing the load in the event of failure. Also, there is some relief in that the rotted piles are piles 1 and 5 at each bent. These piles are the outside piles and under normal loading conditions carry the least load. These bents and piles were identified on previous inspection reports by Osmose and were confirmed during this inspection. On a few piles the rot was noted to have increased since the last inspection.

The cap beam at bent No. 122 is in the process of failing. It is crushed, swelling and contains rot. This cap beam identified on previous inspection reports by Osmose and was confirmed during this inspection.

RECOMMENDATIONS

BRIDGE SECTION 1: STEEL THRU-GIRDER

1. Repair the bottom flange of the thru girder using common heat straightening techniques.
2. Temporary Repair of the paint system: Repair the paint system on the girders, floorbeams, and stringers where damaged by cleaning the steel to bare metal, applying a primer, and a new overcoat. Damaged areas include all areas of freckled rust, rust staining, flaking paint, chalking, or exposed metal.
3. Permanent Repair of the paint system: Retain an expert to evaluate the long term integrity of the paint system where it does not appear damaged, and the repairs suggested in "2" above, and make the appropriate recommendations based on budget and capital planning.

BRIDGE SECTION 2: NORTH TIMBER APPROACH TRESTLE

1. Replace all piles with shells less than 5 inches.
2. Replace all piles in this section of the bridge which are shown rejected by the Osmose reports.

BRIDGE SECTION 3: STEEL TRUSS

(SPAN 1 (FIXED SPAN), SPAN 2 (SWING SPAN), AND SPAN 3 (FIXED SPAN))

1. Keep bridge closed to rail traffic until items 2 and 3, below, have occurred
2. Replace both fixed span trusses in their entirety.
3. Replace the swing span truss in its entirety.

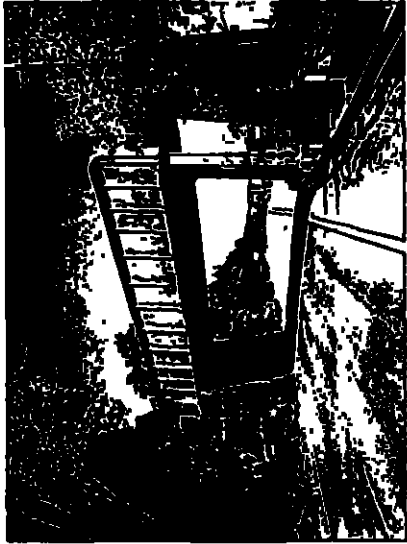
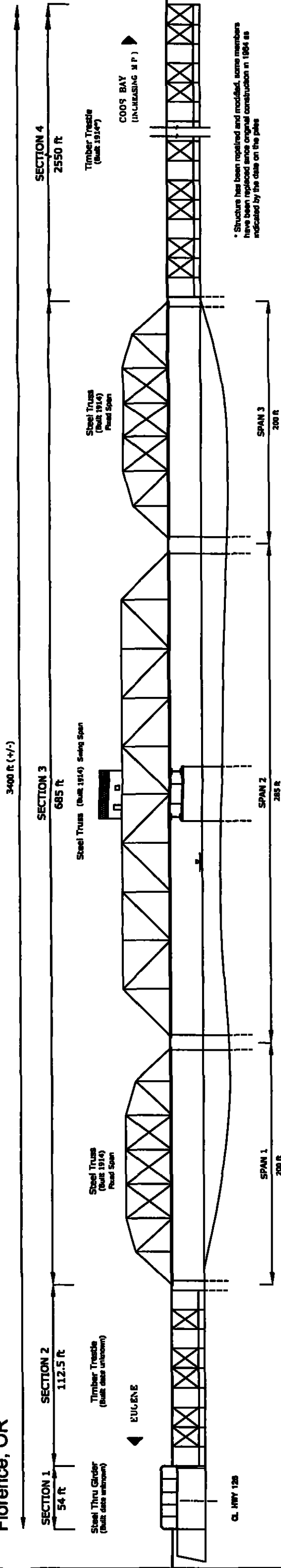
BRIDGE SECTION 4: SOUTH TIMBER APPROACH TRESTLE

1. Keep bridge closed to rail traffic until item 2 and 3, below, has occurred.
2. Replace capbeam at bent 122 (top priority), 115, and 163.
3. Replace rotted (rejected) piles 1 and 5, at bents 28, 64, 114
4. Replace all piles with shells less than 5 inches.
5. Replace all piles on this section which are shown rejected by the Osmose report.

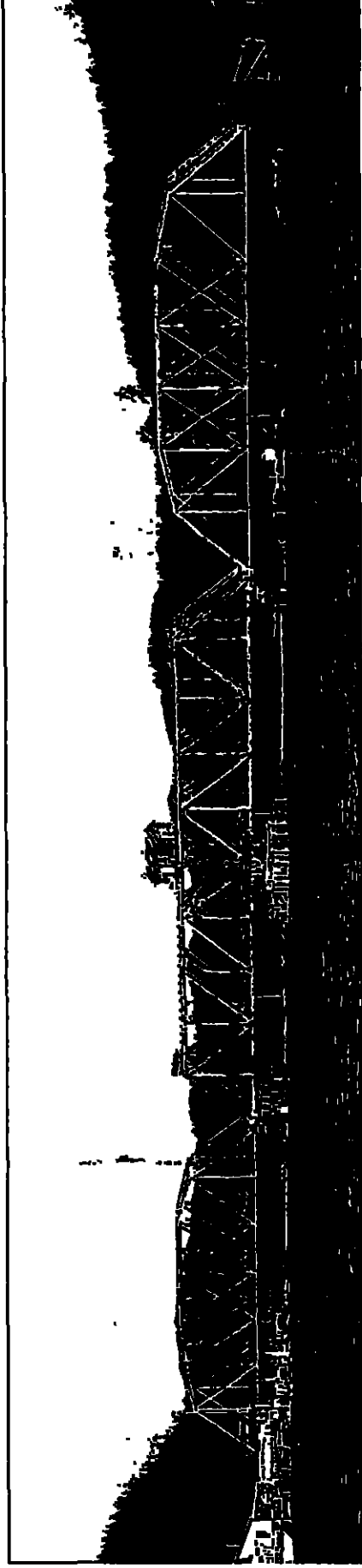
APPENDIX A: BRIDGE LAYOUT SKETCH

BRIDGE LAYOUT

CORP Bridge No. 716.4,
Florence, OR



SECTION 1



SECTION 3



SECTION 2



SECTION 4

APPENDIX B: INSPECTION FIELD NOTES



Florence, OR -Siuslaw River.

LOCATION Section 2 Timber Bents

. 1 OF 1

Bents No. From N , Piles No. From E

[illegible]

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

- Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

'SR - Surface Rot

Notes:

1. All piles were sounded from ground level to cap. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.





Periodic Inspection

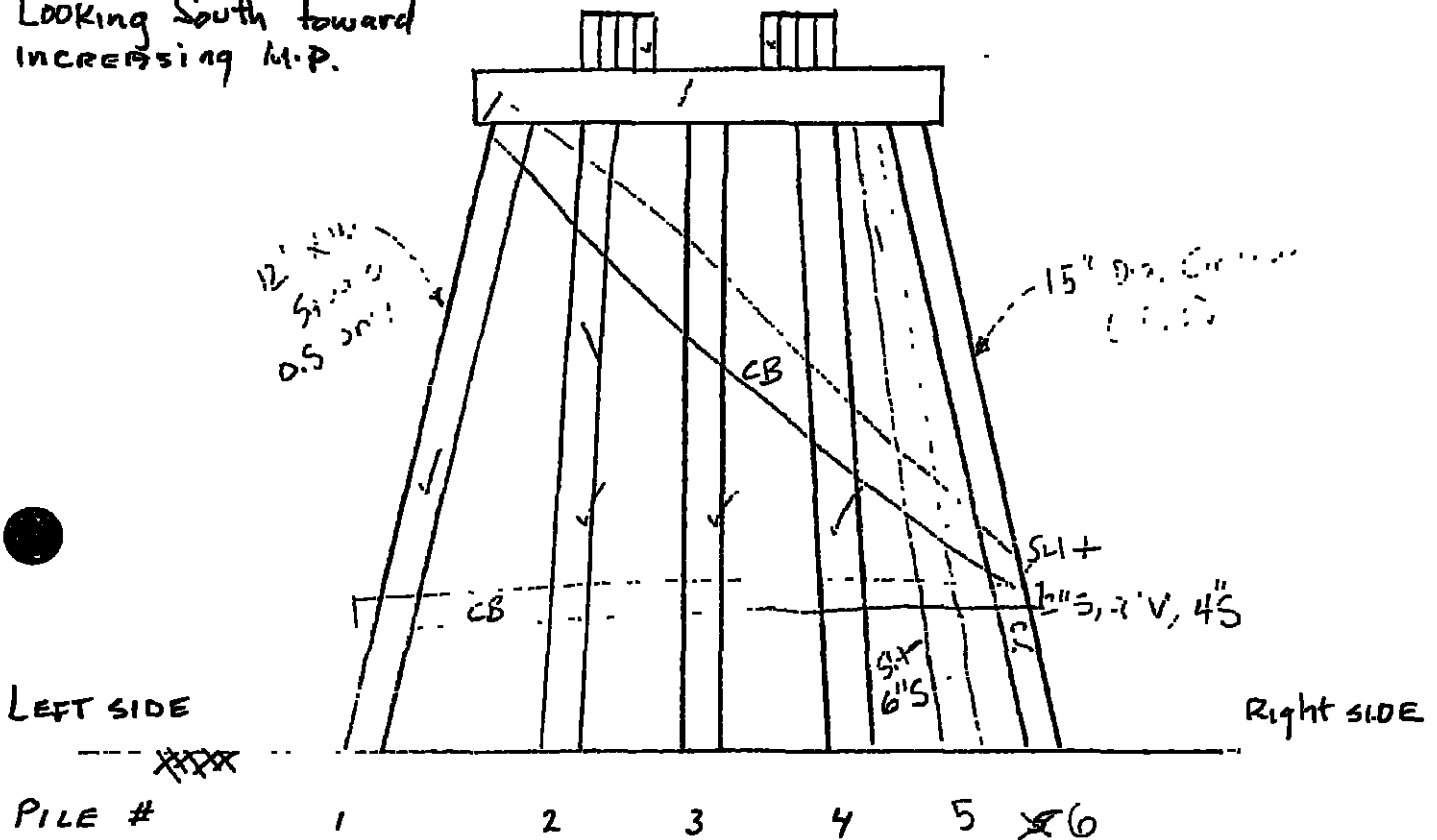
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP C.O Line MP 716.4

JN. _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 1A

Looking South toward
Increasing M.P.



CB ✓

• gend. } = split w/ width
R = Rot.

SH = Sounds Hollow.

✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC.

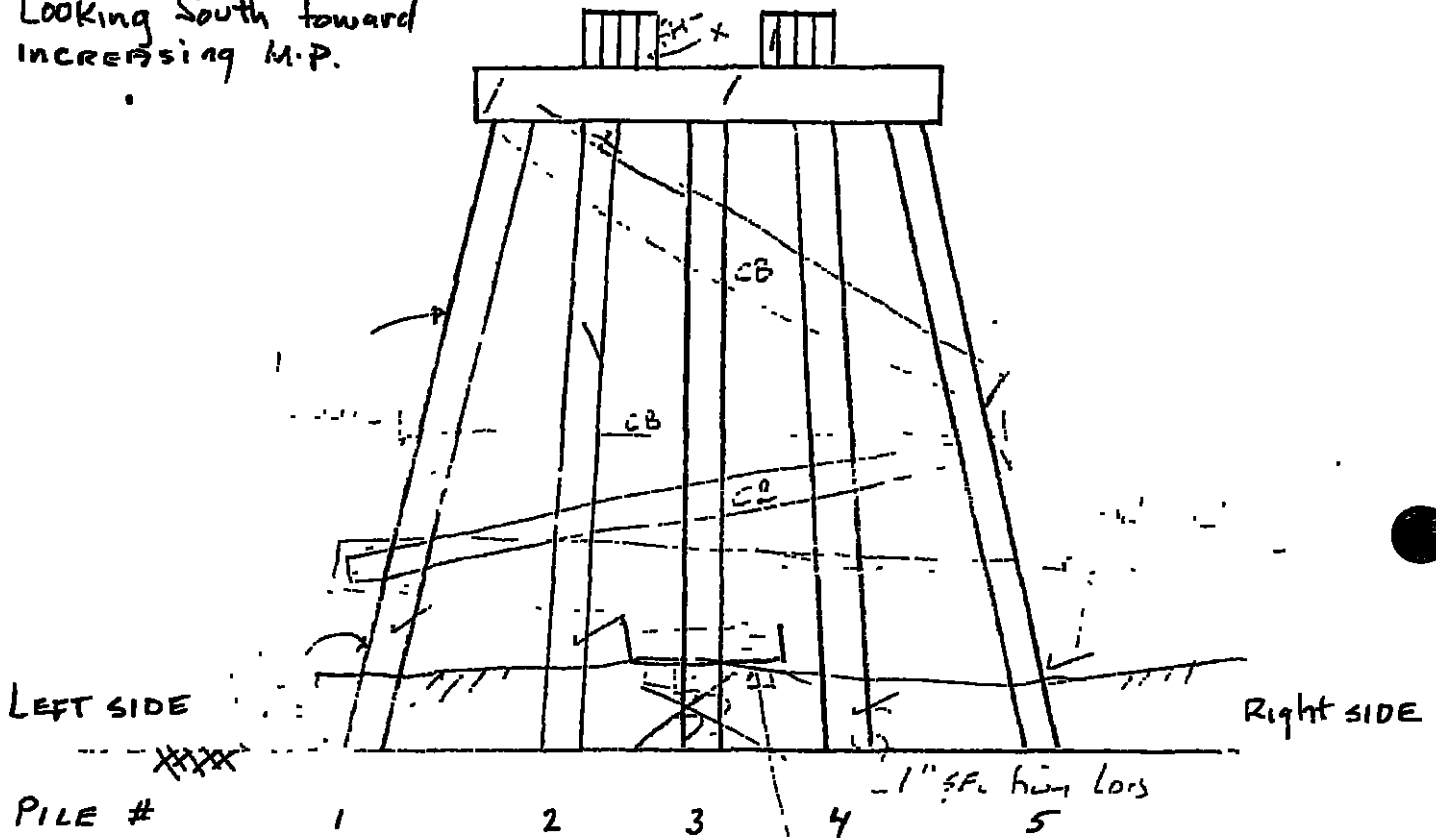
Periodic Inspection

JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN. _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2
BENT B

Looking South toward
Increasing M.P.



- 12" x 12" (fill on gravel)
5.1.1.1

CB-✓

9END. } = split w/ width.

R = Rot

SH = Sounds Hollow - - - - -

✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC

Periodic Inspection

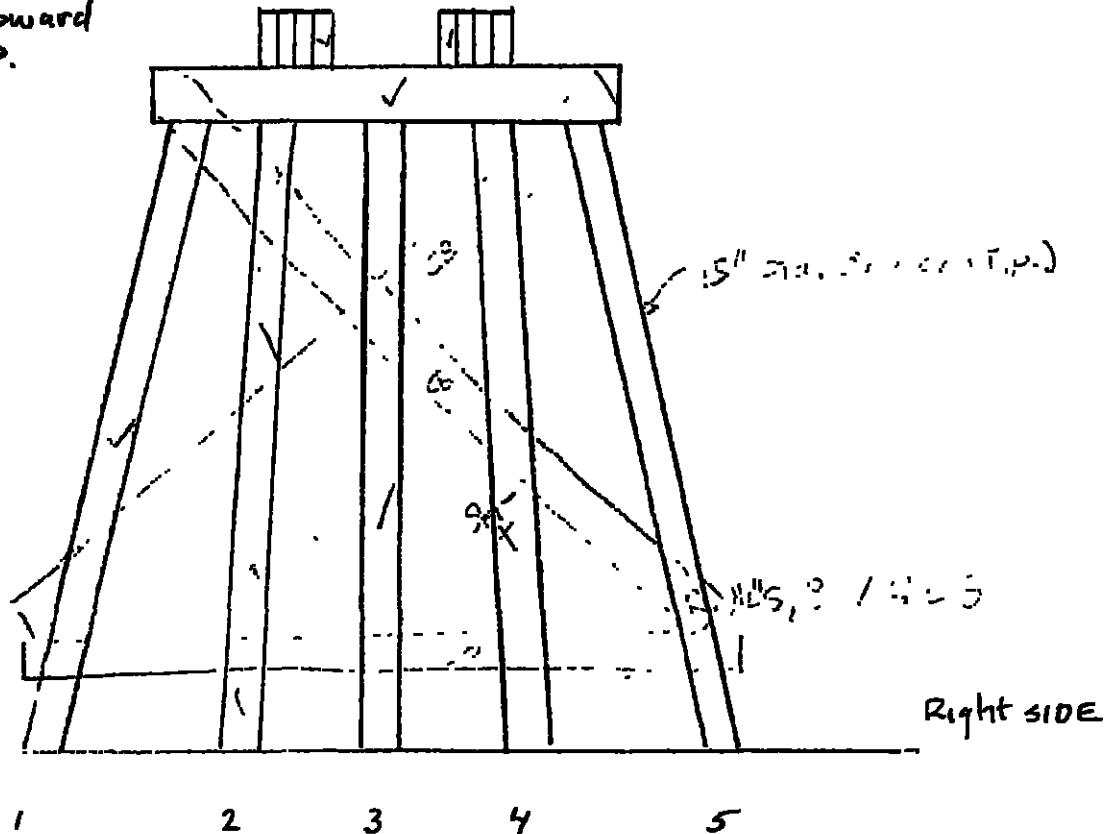
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN. _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 2

Looking South toward
Increasing M.P.



LEFT SIDE

Right side

PILE #

1 2 3 4 5

CB ✓

• gEND. } = split w/ width
R = Rot.

SH = Sounds Hollow.

✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC

Periodic Inspection

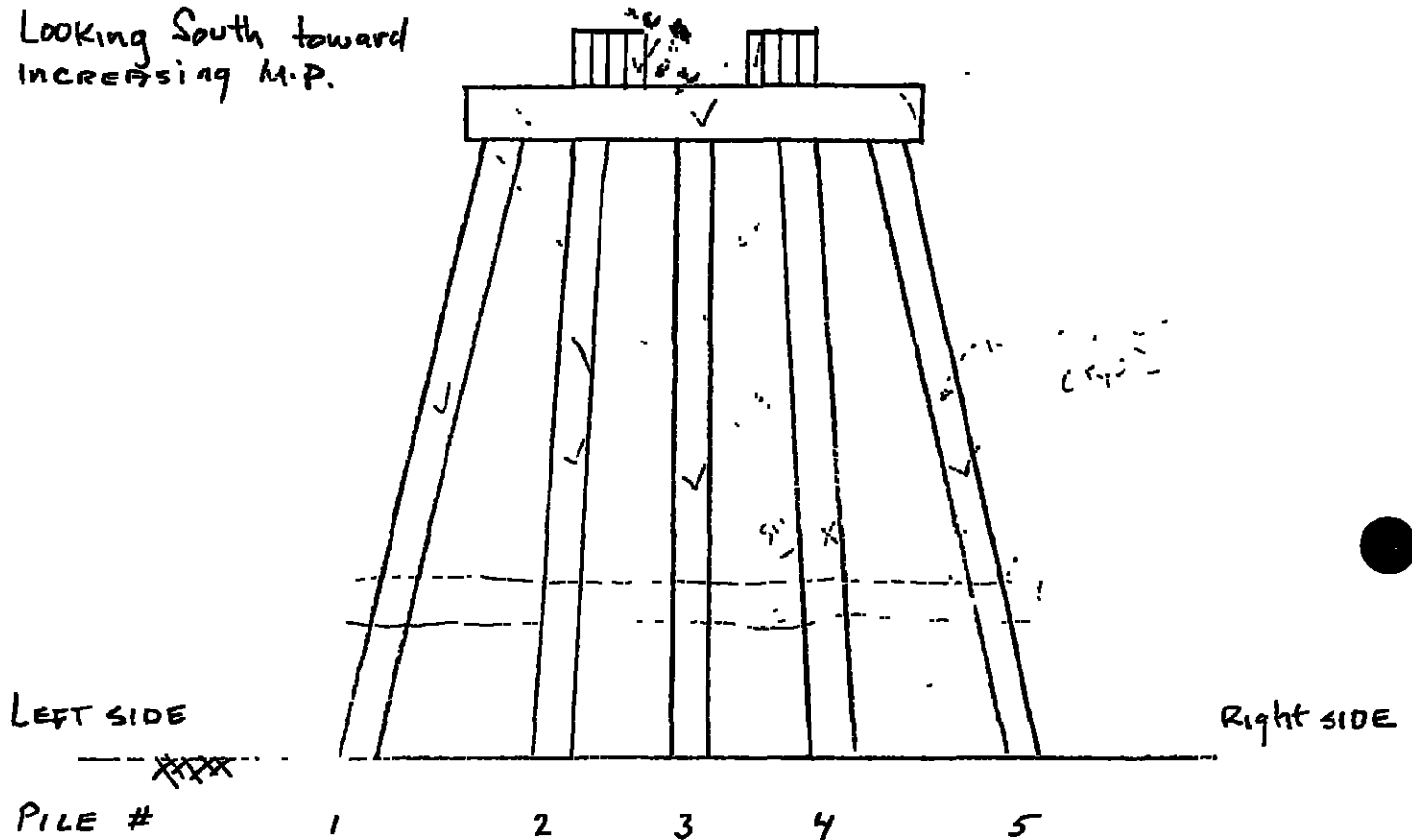
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CDRP CO Line MP 716.4

JN _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 3

Looking South toward
Increasing M.P.



cb /

- 9END. } = split w/ width
- R = Rot.
- SH = Sounds Hollow
- ✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC.

Periodic Inspection

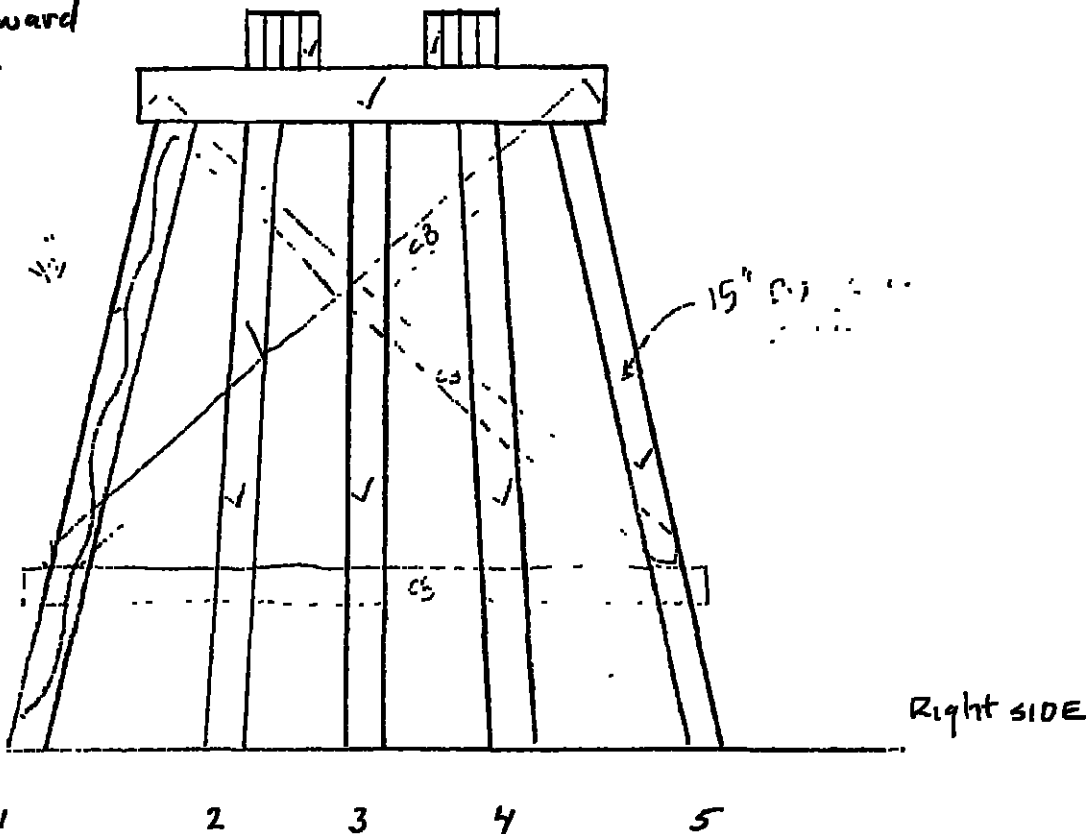
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CDRP CO Line MP 716.4

JN _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 1.1

Looking South toward
Increasing M.P.



LEFT SIDE

Right side

PILE #

1 2 3 4 5

CD✓

• gend. } = split w/ width
• R = Rot.

SH = Sounds Hollow.

✓ = NO PROBLEMS NOTED

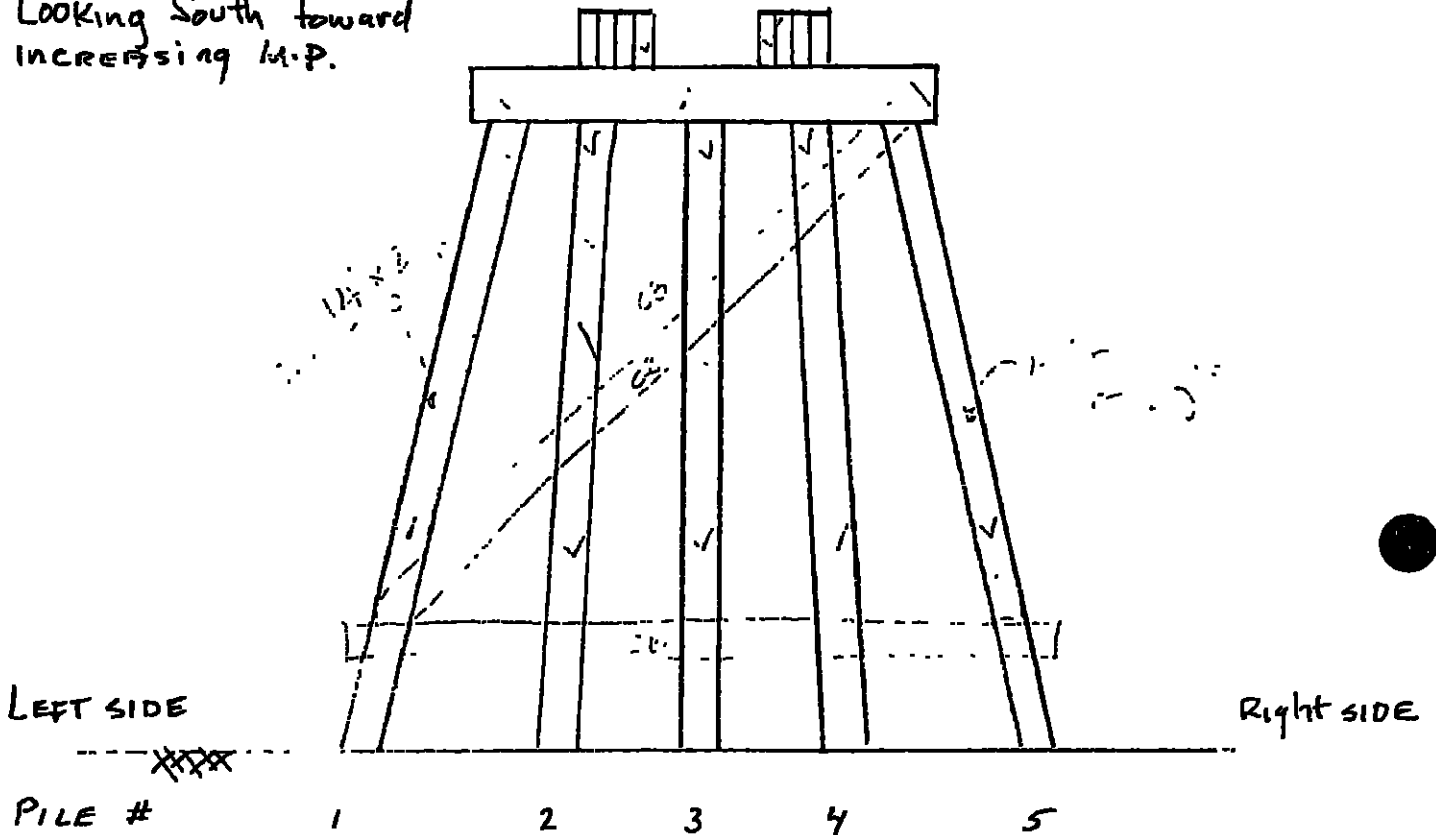


JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

BENT 5

Looking South toward
increasing M.P.



c.

gEND. } = split w/ width

$$R = Rot.$$

SH = Sounds Hollow.

✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC

Periodic Inspection

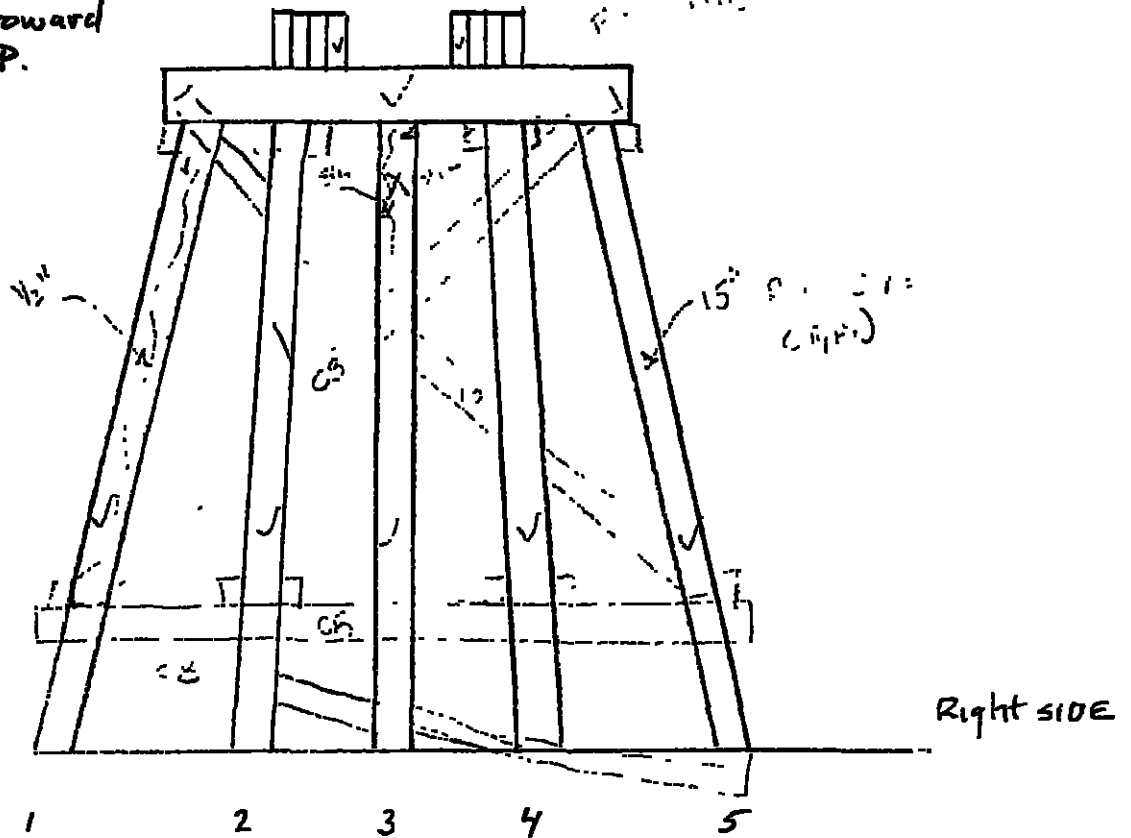
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN. _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 6

Looking South toward
increasing M.P.



LEFT SIDE

Right side

PILE #

1

2

3

4

5

(1/2)

• 10 in. x 12 in. x 12 in. x 12 in.

gEND. } = split w/ width
R = Rot.
SH = Sounds Hollow.
✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC

Periodic Inspection

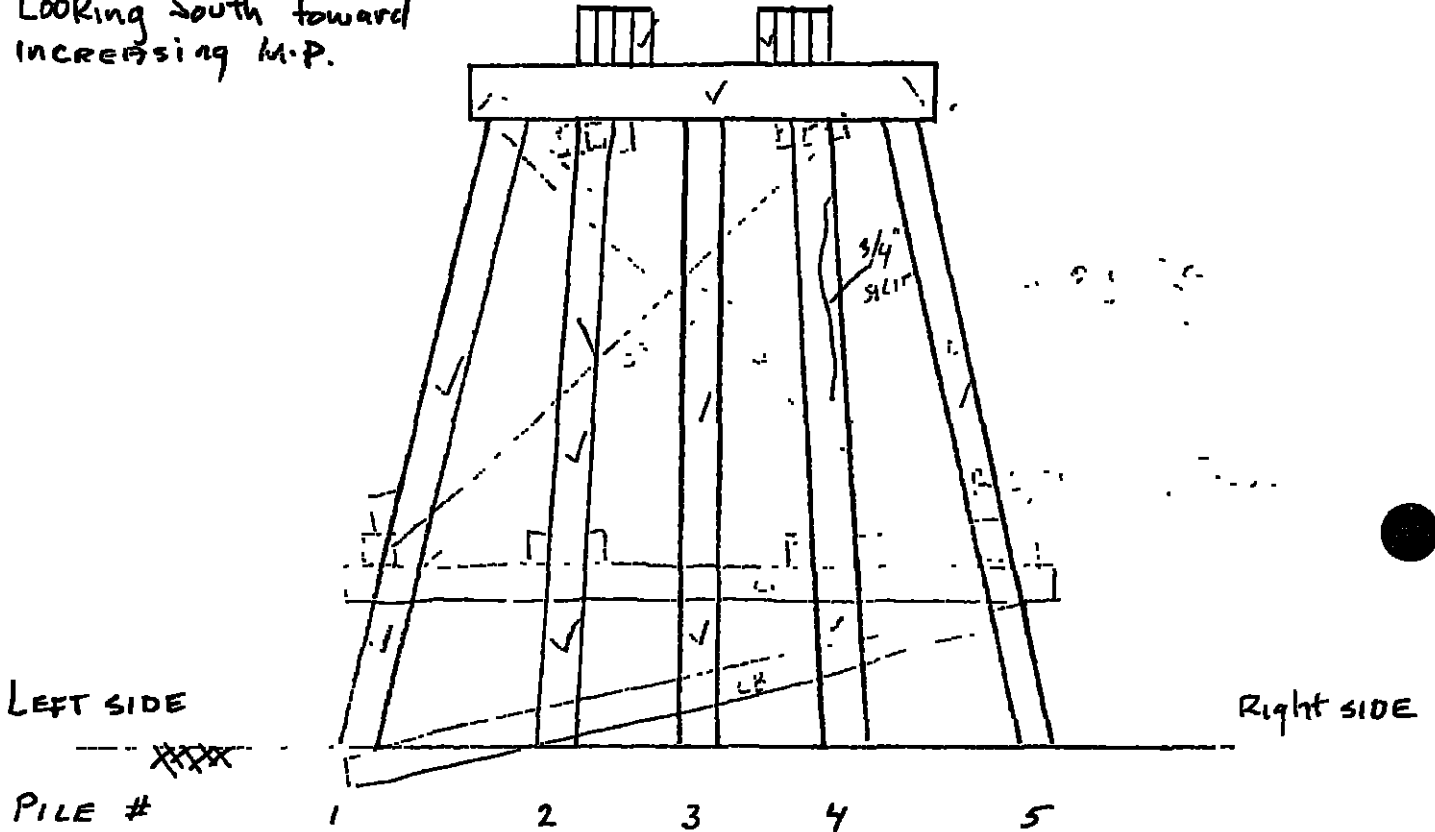
JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2

BENT 7

Looking South toward
increasing M.P.



gend. } = split w/ width

R = Rot

SH = Sounds Hollow

✓ = NO PROBLEMS NOTED



DAVID EVANS
AND ASSOCIATES INC

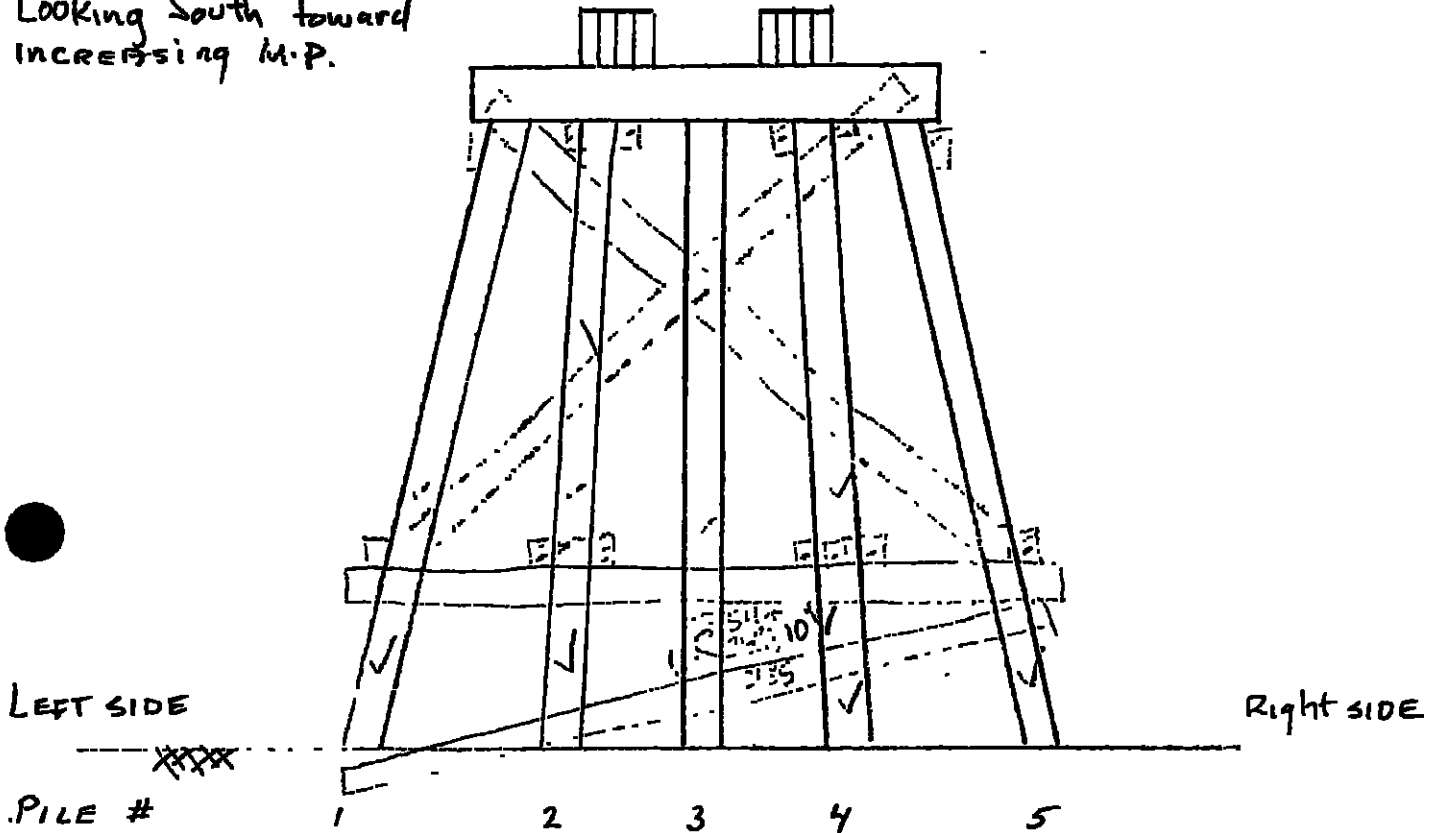
Periodic Inspection

JOB DESCRIPTION Oregon Rail Assessment
CALCULATION FOR CORP CO Line MP 716.4

JN _____
BY TW (DEA) DATE _____
SHEET _____ OF _____ SHEETS
CHECKED BY _____ DATE _____

SECTION 2
BENT 3

Looking South toward
Increasing M.P.



C.B.

9 END. } = split w/ width

R = Rot.

SH = Sounds Hollow.

✓ = NO PROBLEMS NOTED

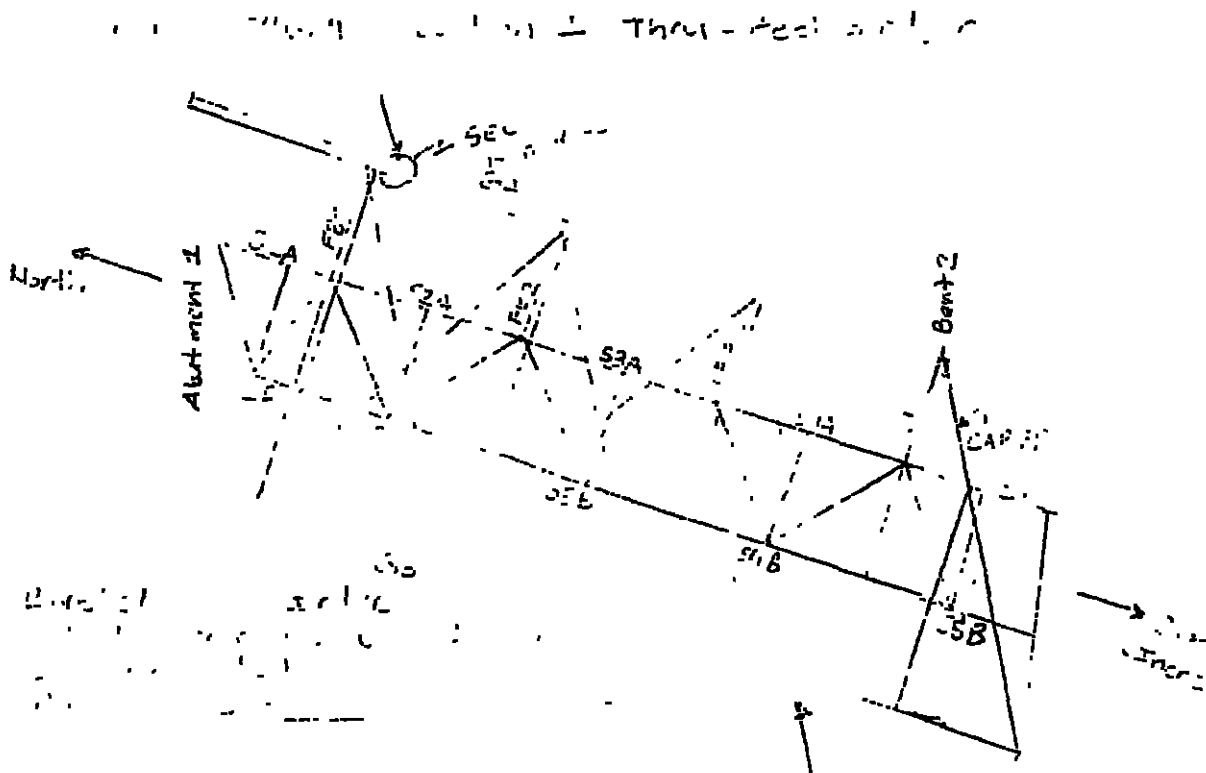
BRIDGE SECTION 3: STEEL TRUSS



DAVID EVANS
AND ASSOCIATES INC

JOB DESCRIPTION Crescent Hill
CALCULATION FOR PS 71-2-2001/1/2/3/4/5/6/7/8/9/10/11/12

JN
BY TWICK DATE 7-1-21
SHEET 1 OF 1 SHEETS
CHECKED BY TW DATE 7-12-21



	1451	2012	7512	2012
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1452	5	3	41	1
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FE 2	6	3	0	0
FE 3	6	2	0	0
FE 4	6	2	0	0
FE 5	5	3	0	0
FE 6	5	4	2	0
FE 7	5	3	0	0
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FE 9	6	3	0	0
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FE 98	6	3	0	0
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FE 100	6	3	0	0

BRIDGE SECTION 1: STEEL THRU-GIRDER



BRIDGE SECTION 2: NORTH TIMBER APPROACH TRESTLE

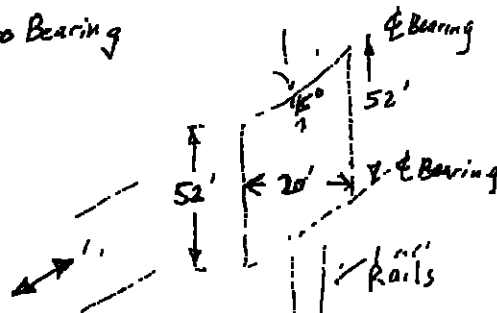




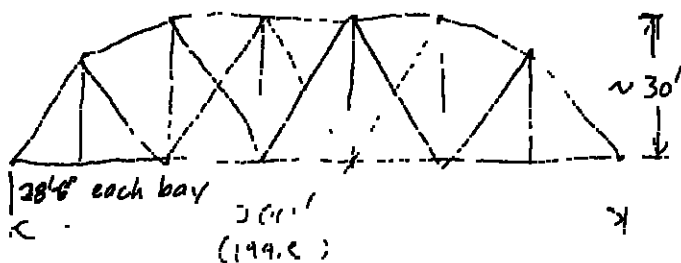
JOB DESCRIPTION CORP CO Line MP 716.4
 CALCULATION FOR

IN 000T-0620
 BY ALIST DATE 9/18/08
 SHEET OF SHEETS
 CHECKED BY DATE

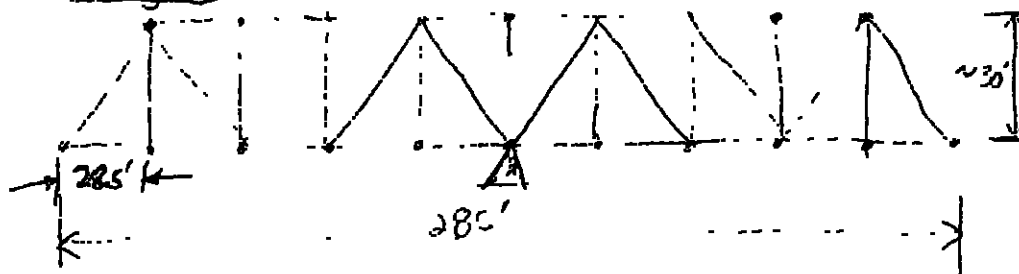
Steel Truss 52' Bearing to Bearing
 Thru Girder



Steel Pinned Thru Trusses (2)



Center
 Swing Spans, Riveted Thru Trusses



North Timber approach truss

Spans = 12 1/2' - 14.25' - 14.25' - 14.25' - 15' - 15' - 14.25' - 13'

Steel Truss

Span lengths

Steel Truss

South Timber approach

14' - 15.5' - 15' - 15' - 15' - 15'

Steel Truss

BEARING SHEETS





DAVID EVANS
ASSOCIATES

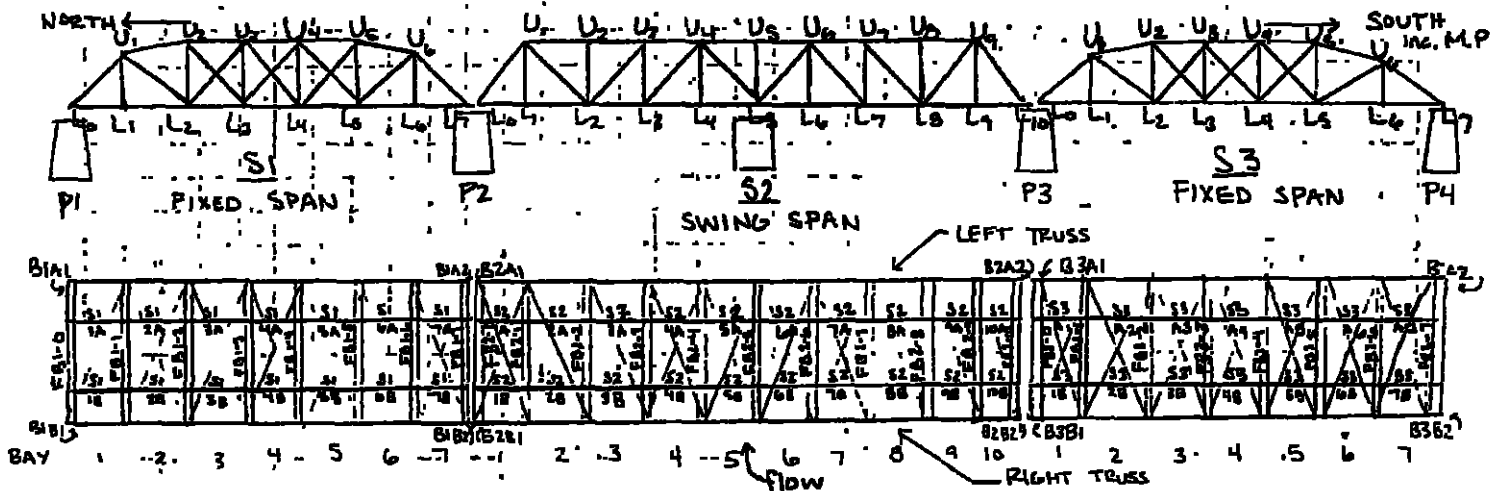
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Amst haci

DATE 9/13/08

WEATHER windy sunny

Location: Span (1) 2 3 Truss L (R) Member TC BC MC Bay: _____



Inspection Notes:

BEARING SHEET

Bearing: B1B1 Slide bearing
NB1: 2 Condition: 3 Material Loss (%): 75
Remarks: [one anchor bolt is 100% gone 2nd is 95% gone] the bearing is expanded all the way to the concrete abutment. Soil call mark. Soil is frozen and expanded at the max position the 2 anchor bolt

Bearing: B1B2 on the inside are good
NB1: 2 Condition: 3 Material Loss (%): _____
Remarks: 2 bolts gone, pin is okay but nut has 20% material loss

Bearing: B2B1 slide bearing
NB1: 5 Condition: 3 Material Loss (%): 3
Remarks: Movable bearing, 5% loss of anchor bolts, minor pitting of bottom plate (3% section loss), upper bearing assembly is the same.

Bearing: B2B2
NB1: 6 Condition: 3 Material Loss (%): _____
Remarks: one loose anchor bolt

Bearing: B3B1 fixed connection
NB1: 4 Condition: 3 Material Loss (%): 10
Remarks: three anchor bolts are 75% gone, one bolt has 50% loss, park nut at bearing plates

Bearing: B3B2
NB1: 4 Condition: 3 Material Loss (%): 10
Remarks: all anchor bolts have 75% loss, plates have severe section loss

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

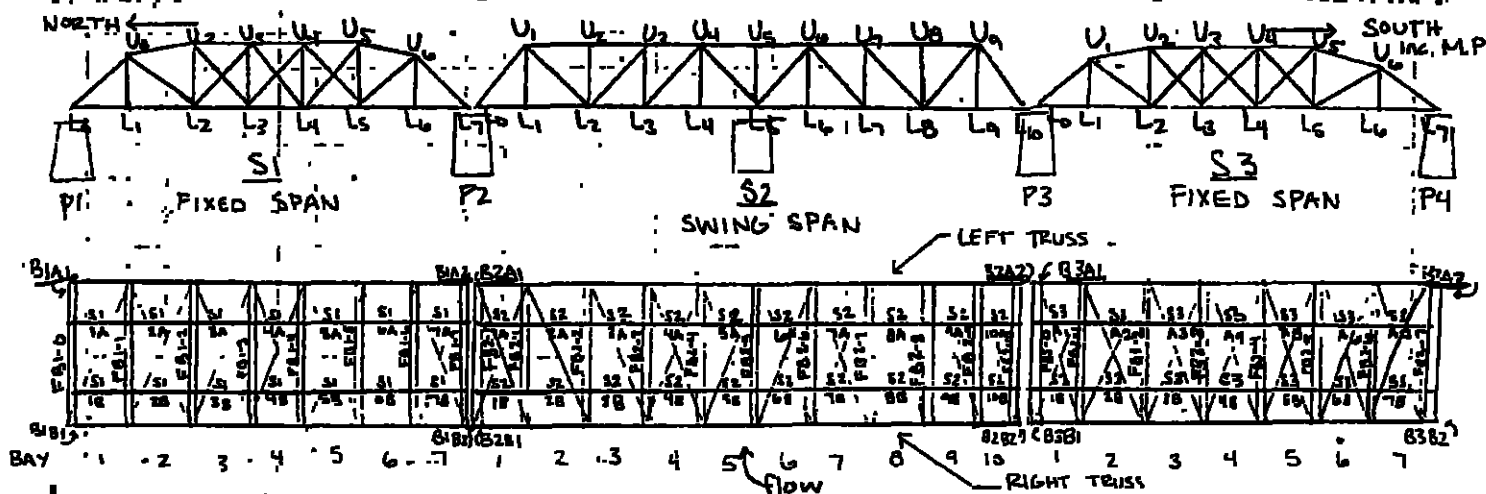
FOR Oregon Rail Assessments

INSPECTED BY JM/BL

DATE 9/15/04

WEATHER 57°F

Location: Span (1)(2)(3) Truss (L) R Member TC BC MC Bay:



Inspection Notes:

BEARING SHEET

Bearing: B1A1

NBI: 2

Condition: 3

Material Loss (%):

Movable

Remarks: pin has been turning, plates section loss, part rust pushing plates out, inside surface bolt 100% loss, 1/2" gap between inside and outside plates

Bearing: B1A2

NBI: 2

Condition: 3

Material Loss (%):

Fixed

Remarks: inside bolts 100% + 60% gone, outside bolts 60% loss, 5" gap of vertical plate

Bearing: B2A1

NBI: 5

Condition: 2

Material Loss (%): 10

Movable swing span

Remarks: laminar rust, gap, rust on bolt head = 1/2" wide, 1/2" deep, 1/2" wide, 1/2" deep

Bearing: B2A2

NBI: 4

Condition: 2

Material Loss (%): heavy

Movable swing span

Remarks: heavy laminar rust on bearing plates, pin and plates rusted, laminar rust on plates

Bearing: B3A1

NBI: 2

Condition: 3

Material Loss (%): 25

heavy laminar rust part rust

Remarks: anchor bolts missing, concrete spalling on girders, 1/2" gap between girders, 25% loss

Bearing: B3A2

NBI: 2

Condition: 3

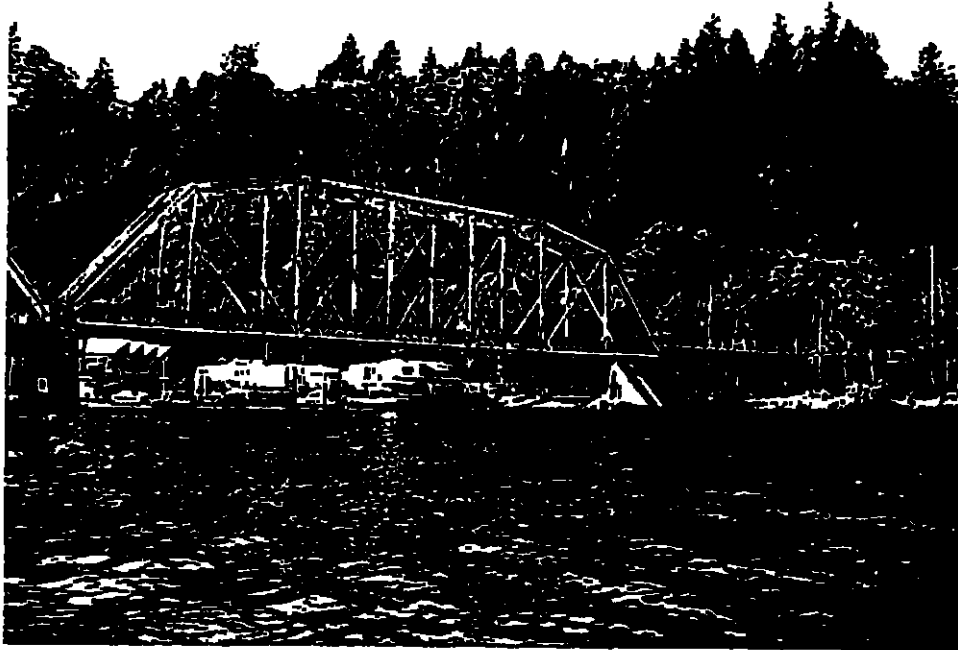
Material Loss (%): 25

fixed

Remarks: anchor bolts are gone, heavy laminar rust with HL throughout, bearing assembly

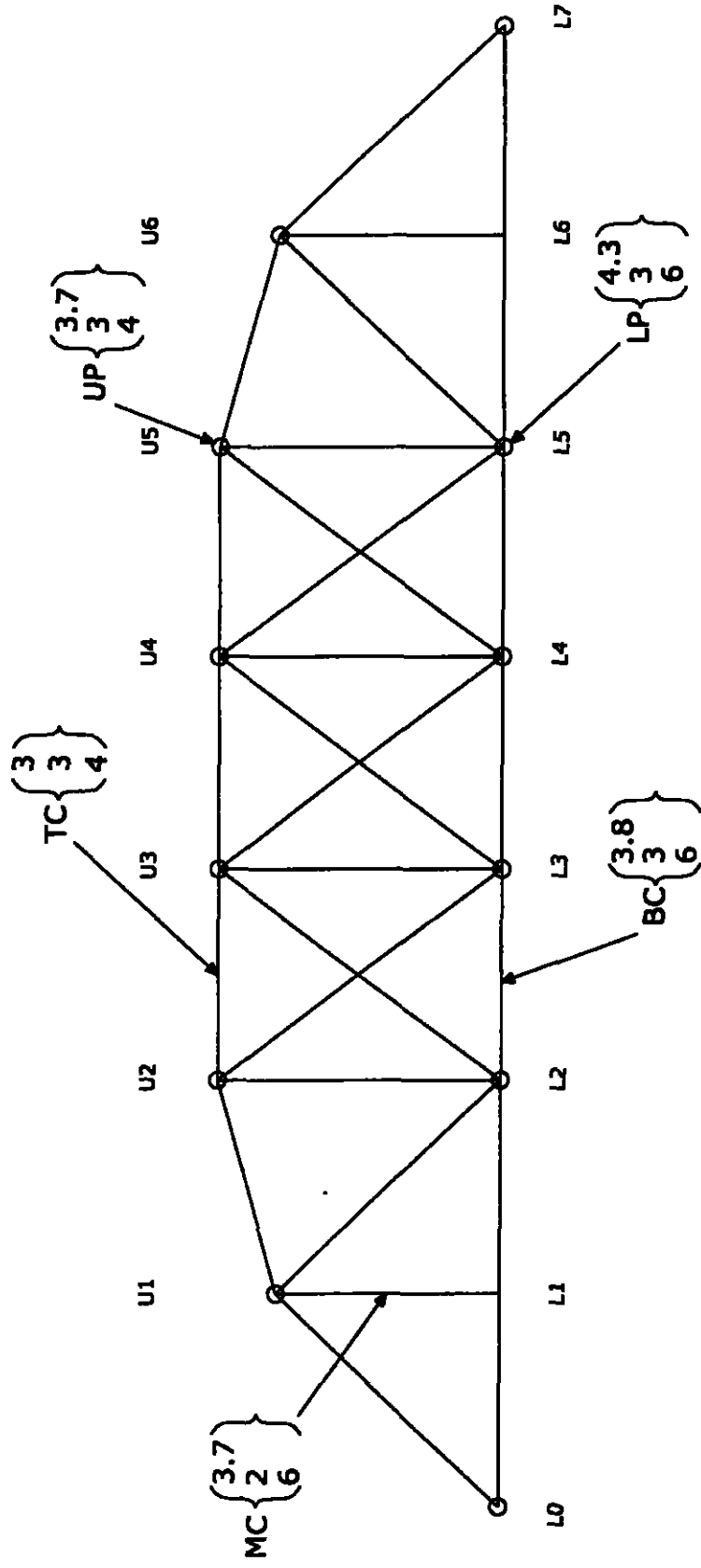
General Comments/Recommendations:

SPAN 1 (FIXED SPAN)



RIGHT SPAN 1

NBI Rating { AVERAGE
LOW HIGH }



Legend:

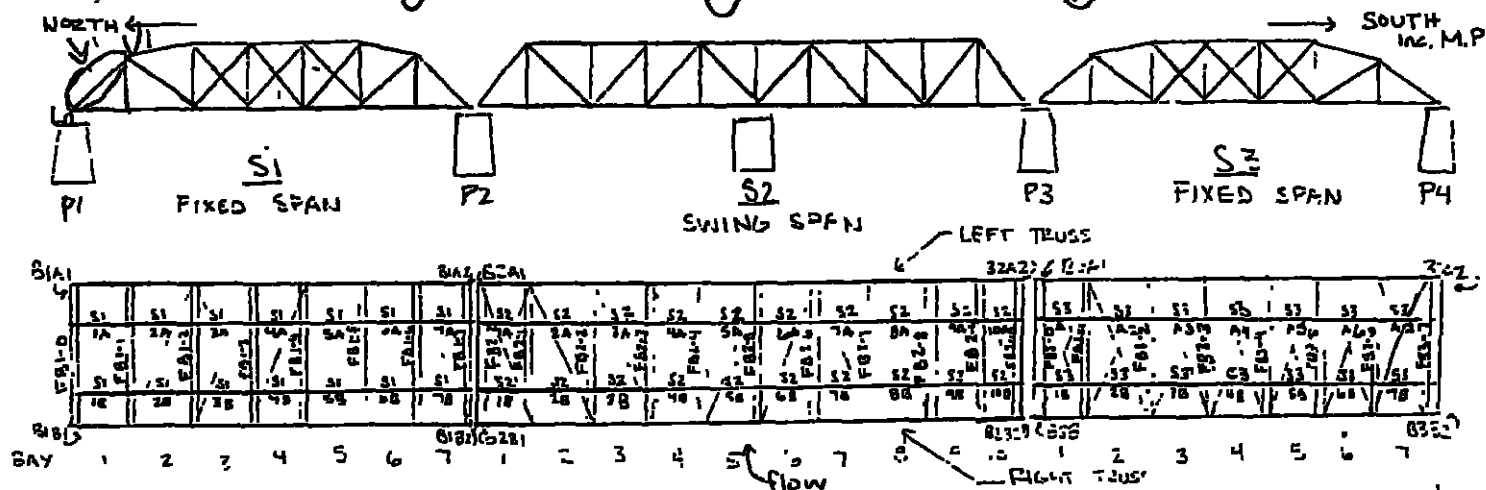
- TC Top Chord
- MC Middle Chord
- BC Bottom Chord
- UP Upper Pin
- LP Lower Pin



JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Amst Naci
DATE 9/13/08
WEATHER 75° Sunny

Location: Span 1 2 3 Truss L (R) Member TC BC (MC) Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	4	4	5	Siuslaw River
Condition Rating:	5	5	5	50% of the joints have some det. laminar rust
Material Loss (%):	30%	50%	25%	

Cross Brace: <u>Vertical</u>			
NBI: <u>4</u>	Condition: <u>5</u>	Material Loss (%): <u>80%</u>	
Remarks:			

Floor Beam: <u>FB1-D</u>			
NBI: <u>4</u>	Condition: <u>5</u>	Material Loss (%): <u>→ PIC</u>	<u>100%</u>
Remarks: <u>SWELL</u>	<u>pack</u>	<u>rust</u>	<u>30-40%</u>

Stringer:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Upper Ply: <u>AD1 1/2x1</u>			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Lower Ply: <u>10</u>			
BI: <u>60</u>	Condition: <u>3</u>	Material Loss (%): <u>41</u>	
Remarks: <u>the 100</u>	<u>works good</u>	<u>with</u>	<u>exp. sell</u>

General Comments/Recommendations:			



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Suslaw River

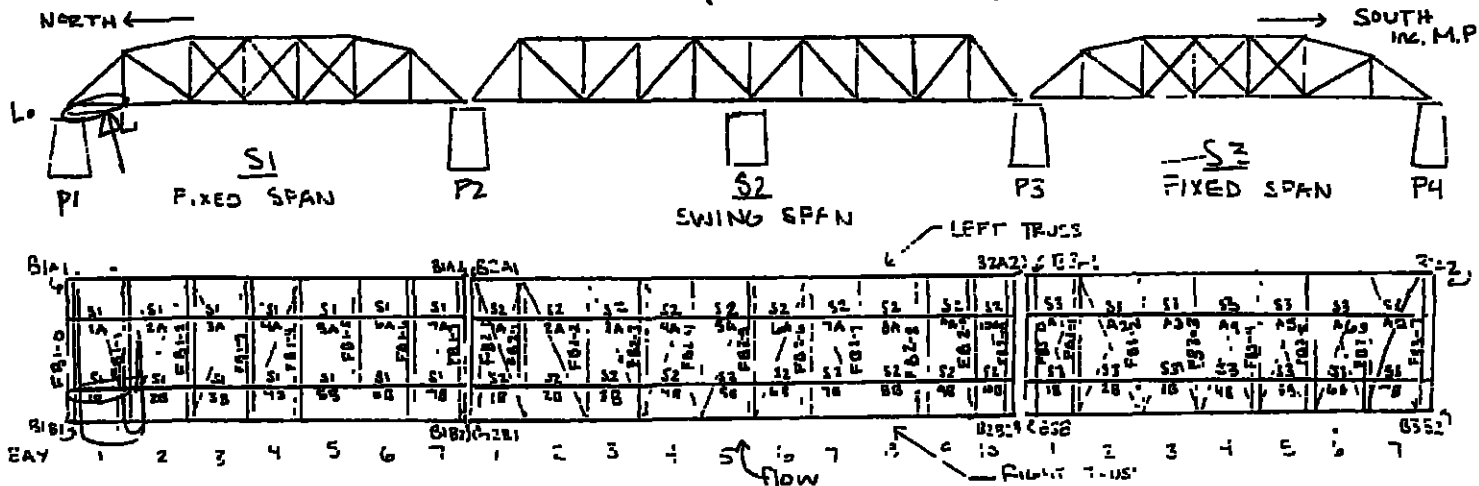
FOR Oregon Rail Assessments

INSPECTED BY AMST/HAC

DATE 9/13/08

WEATHER 75° Sunny

Location: Span: 1 2 3 Truss L (R) Member TC (BC) MC Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L		L	Member det. of bearing (Range 25-10)
NBI Rating:	4	4	1	Severe pitting
Condition Rating:	5	5	5	1/2 of the rivets for the
Material Loss (%):				being are gone
				Member the material loss
				from rivets gone in the web
				at Joint L
Cross Brace: Cb1 -1				
NBI: 4	Condition: 4		Material Loss (%): 10%	
Remarks:	thick laminar rust, severe pitting, rivets. Rivets. (30% gone)			
Floor Beam: FB1-1				
NBI: 5	Condition: 5		Material Loss (%): 25%	
Remarks:	Peel rust at Btm chord/corad connection @ Stringer connection, laminar rust			
	25% loss for web. 50% loss at Flg. knee brace 100% loss			
Stringer: S1 1b				
NBI: 4	Condition: 5		Material Loss (%): 25%	
Remarks:	thick laminar rust		50% Flange	
Upper Pin:				
NBI:	Condition:		Material Loss (%):	
Remarks:				
Lower Pin:				
NBI:	Condition:		Material Loss (%):	
Remarks:				

General Comments/Recommendations:



D

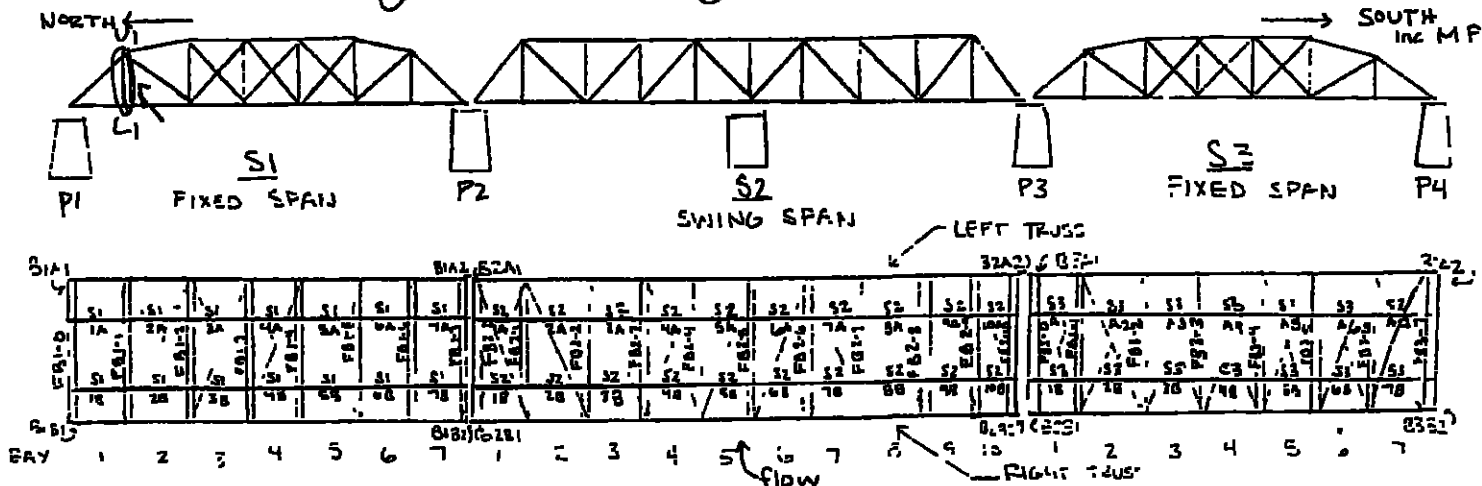
JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY Amst 34CDATE 9/13/98WEATHER 75° Sunny

Location:

Span 1 2 3Truss L RMember TC BC MCBay: 1

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	5	5	5	Welds in truss, bottom chord rust 15% low
Condition Rating:	5	5	5	Large spalls at joint 25% low
Material Loss (%):	75%	50%	25	Web has severe section loss (A/E) 30% low

Cross Braces:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:


 JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Suslaw River

 FOR Oregon Rail Assessments

 INSPECTED BY HC B. AUST

 DATE 9/13/08

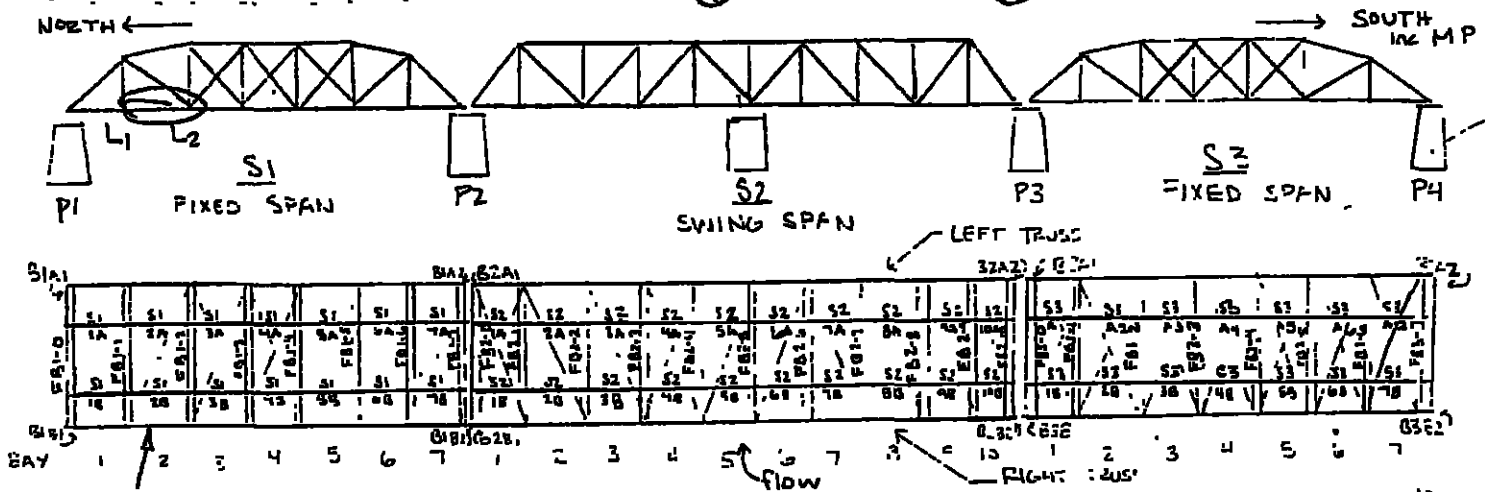
WEATHER _____

Location:

 Span (1) 2 3

 Truss L (R)

 Member TC (BC) MC

 Bay: 2


Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L1	L2	L2	Lattice is rusted
NBI Rating:	5	5	4	Severe pitting
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	60%	Paint rust w L1
Cross Brace: CB-2-1				Spalling rust at L2 pin
NBI: 5	Condition: 5	Material Loss (%): 60%		
Remarks: 3 rivets gone				
Floor Beam: FB-1-1				
NBI: 4	Condition: 5	Material Loss (%): See remarks		
Remarks: Severe rust at rivet hole, severe laminar rust in severe pack rust in stringer connection 30% loss in web, 50% in flange, knee brace 100% loss				
Stringer: S1-7B				
NBI: 5	Condition: 5	Material Loss (%): 75%		
Remarks: 80% loss in flange, rivets severely corroded				
Upper Pin:				
NBI: _____	Condition: _____	Material Loss (%): _____		
Remarks:				
Lower Pin:				
NBI: _____	Condition: _____	Material Loss (%): _____		
Remarks:				

General Comments/Recommendations:

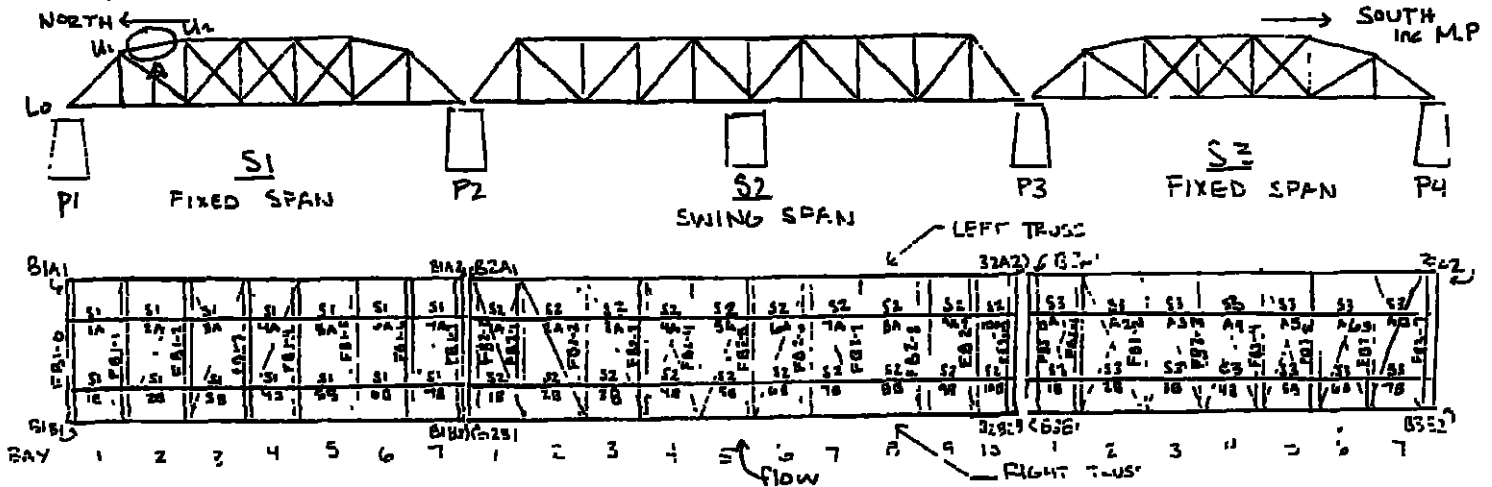

 JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River

 FOR Oregon Rail Assessments

 INSPECTED BY AMST/HAC

 DATE 9/13/08

 WEATHER 73° Sunny

 Location: Span (1) 2 3 Truss L (R) Member (TC) BC MC Bay: _____


Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U1	U1	U2	U2	
BI Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%):	25% Purl rest	25% in flgs. 25% in webs	25%	Sever section loss at lacing connections

Cross-Brace:			
NBI:	3	Condition:	5
Material Loss (%):	75%		
Remarks:			

Floor Beam:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

Stringer:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

Upper Pin:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

Lower Pin:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

General Comments/Recommendations:			



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

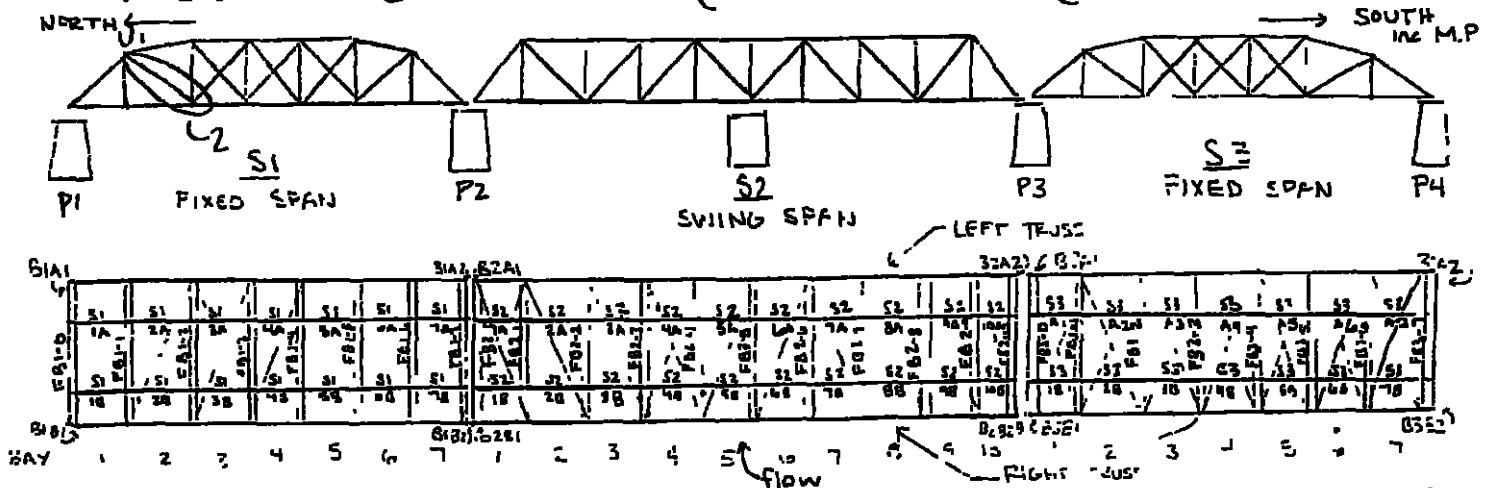
FOR Oregon Rail Assessments

INSPECTED BY AUST, HC

DATE 9/13/08

WEATHER 73°F Sunny

Location: Span 1 2 3 Truss L (R) Member TC BC MC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
IBI Rating:	4	6	5	Moderate pitting
Condition Rating:	5	3	4	
Material Loss (%):	50%	37	29%	Pitting at L2

Gross Bridge

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

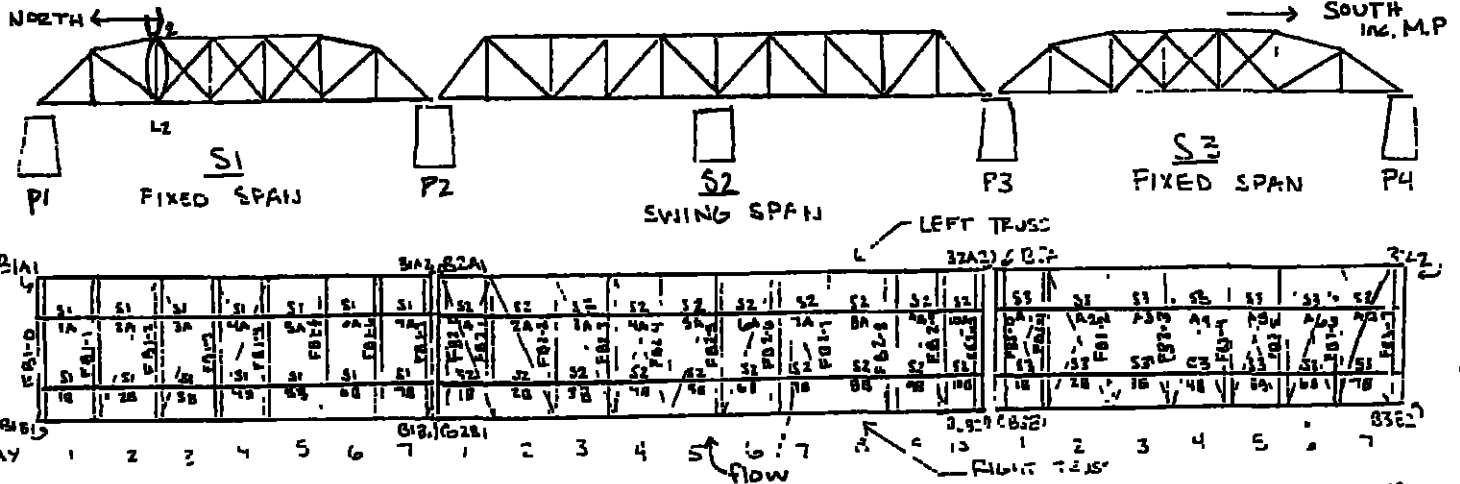


D

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY HW, RMST, INCDATE 9/13/08WEATHER 75% SunLocation: Span 1 2 3 Truss L (R) Member TC BC (MC) Bay: 1

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L2		V2	Severe pitting, heavily rusted, lacking rivets completely.
BI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	75%	50%	50%	Holes in web at L2

Cross Brace:

NBI: 3 Condition: 5 Material Loss (%): 75%

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: 4 Condition: 5 Material Loss (%): 10% nut has material loss 10%

Remarks: spline plates, bay pin has highly pitted nut

Lower Pin:

NBI: 4 Condition: 5 Material Loss (%): 10% nut 25% pin

Remarks: no nut

General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

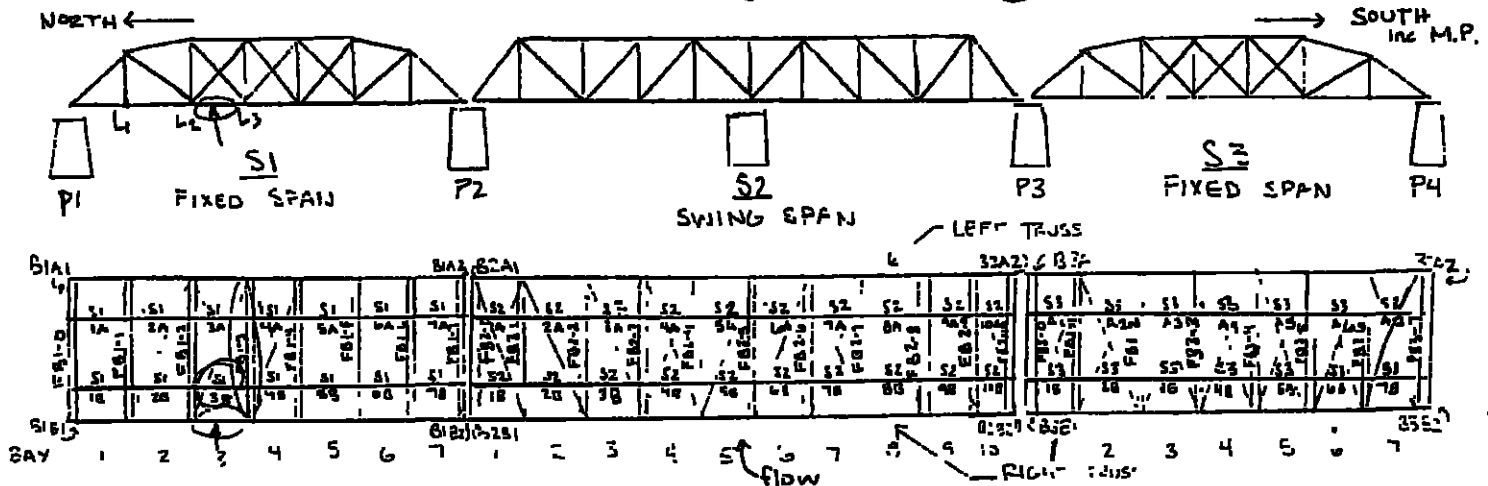
FOR Oregon Rail Assessments

INSPECTED BY AMST, H

DATE 9/13/08

WEATHER 73°

Location: Span (1) 2 3 Truss L (R) Member TC (BC) MC Bay: -3



Inspection Notes:

Member Name:	Joint L2	Element	Joint L3	Remarks:
NBI Rating:	5	6	5	Severe pitting on element # L2
Condition Rating:	5	4	4	
Material Loss (%)	100%	49%	100%	

Cross Brace: CB 2-1

NBI: 2 Condition: 5 Material Loss (%): 80%

Remarks: Large holes in "flanges", Severe back rust btwn. "webs" (2")

Floor Beam: FB 1-5

NBI: 3 Condition: 5 Material Loss (%): 15%

Remarks: rust at the Stringer connection
rivets 50% or more are rusted out

Stringer: S1 50

NBI: 4 Condition: 5 Material Loss (%): See remarks

Remarks: Pack rust @ FB connection, large spalls @ fly, Pack rust @ angle connections
80% loss in flange, 50% loss in web

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

D



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Suslaw River

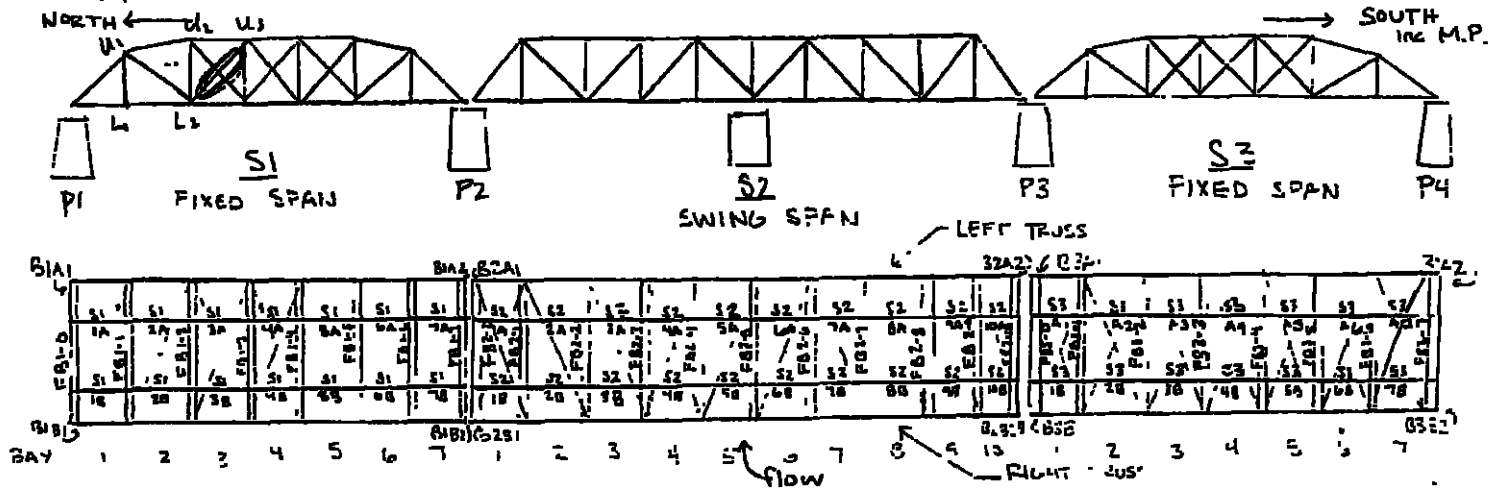
FOR Oregon Rail Assessments

INSPECTED BY AMST & HAC

DATE 9/13/08

WEATHER 75 70 Sunny

Location: Span ① 2 3 Truss L (R) Member TC BC (MC) Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L2		U3	Peak must at L2
NBI Rating:	5	4	5	
Condition Rating:	4	5	5	
Material Loss (%):	5%	10%	20%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



D

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

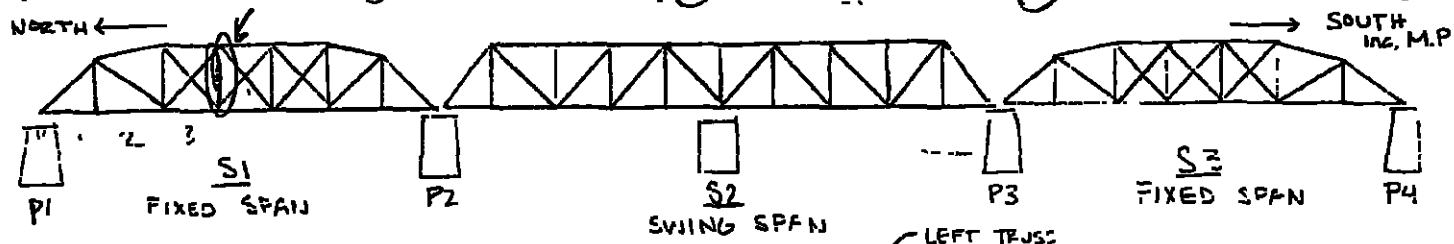
FOR Oregon Rail Assessments

INSPECTED BY hc ams

DATE 9/13/83

WEATHER Sunny

Location: Span (1) 2 3 Truss L (R) Member TC BC (MC) Bay: 3



BAY											
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
L3	U3			
NBI Rating:	4	2	4	Severe pitting at joint L3
Condition Rating:	5	5	5	Severe pitting & section loss
Material Loss (%)	25%	50%	20%	

Top View

Cross Brace:			
NBI:	2	Condition:	5
Material Loss (%):	75		
Remarks:	holes where rust penetrated the flanges		

Floor Beam:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

Stringer:			
NBI:		Condition:	
Material Loss (%):			
Remarks:			

Upper Pin:	U3		
NBI:	3	Condition:	5
Material Loss (%):	nut 10%	pin 5%	
Remarks:	inside vertical pin has severe pitting		

Lower Pin:	L3		
NBI:	4	Condition:	2
Material Loss (%):	pin 5%	nut 10%	
Remarks:	3/4-1" loss 1/4 radius see plans to confirm type of connection (spacer?)		

General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY W. AUST

DATE 9/13/18

WEATHER Sunny 70

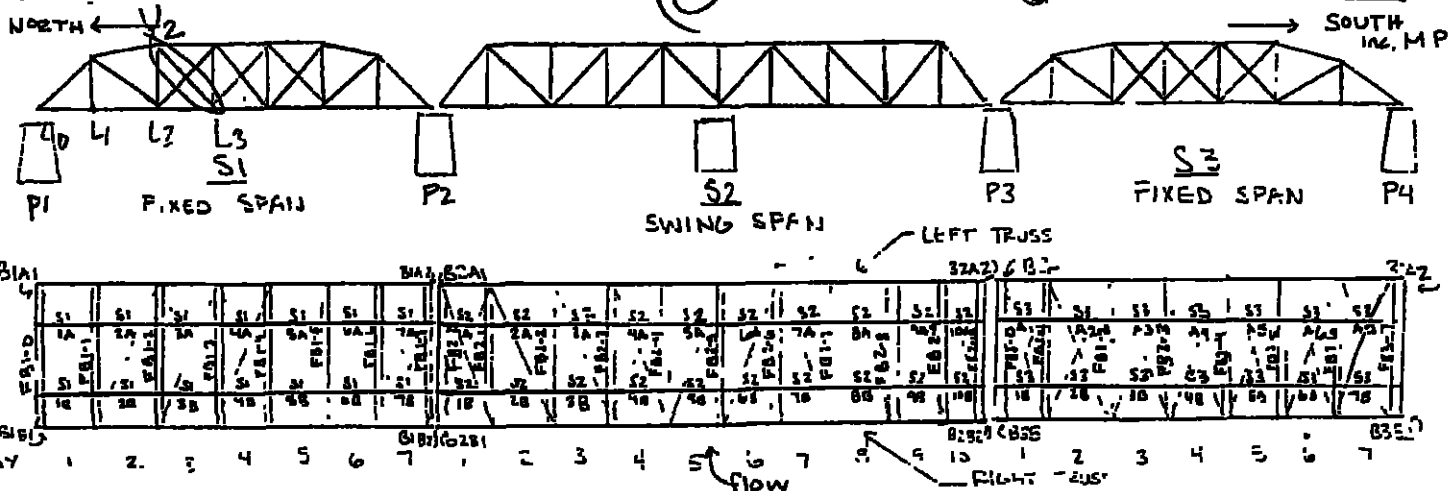
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L3		12	
BI Rating:	4	4	5	
Condition Rating:	5	5	5	
Material Loss (%):	10%	20%	20%	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

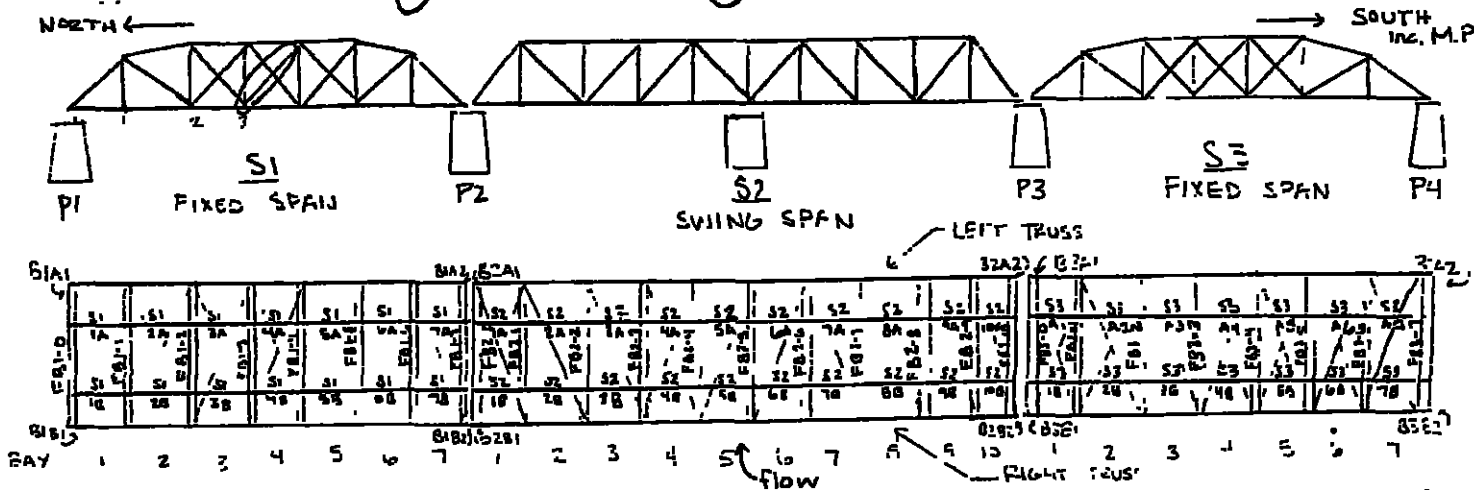
General Comments/Recommendations:

JOB DESCRIPTION Periodic Inspection for Bridge 716.4Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hc amstDATE 9/13/08WEATHER Sunny 70

Location:

Span (1) 2 3Truss L (R)Member TC BC (MC)Bay: 4

Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L3</u>		<u>U4</u>	
NBI Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10%</u>	<u>25%</u>	<u>10%</u>	<u>more pitting exposed metal</u> <u>severe section loss where</u> <u>diagonals are touching</u>

Cross-Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Plr:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Plr:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

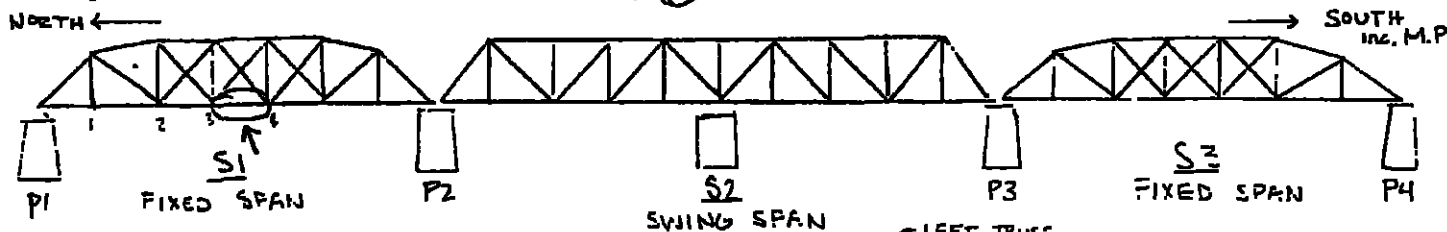
FOR Oregon Rail Assessments

INSPECTED BY W. L. Alvest

DATE 11/14/08

WEATHER Sunny 70

Location: Span (1) 2 3 Truss L (R) Member TC (BG) MC Bay: 4



LEFT TRUSS											
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3	1	L4	L4 - Minor section loss
BI Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%):	10%	20%	50%	

Cross Brace: CB4-1	Bay: 4	Condition: 5	Material Loss (%): 75%
Remarks: holes in flanges of cross brace; severe pack rust between the angles			

Floor Beam: FB1-4	Condition: 5	Material Loss (%): 100%
Remarks: pack rust at stringer connection		

Stringer: S14B	Condition: 5	Material Loss (%): 100%
Remarks: laminar rust, severe pitting, pack rust at bottom flange connections		

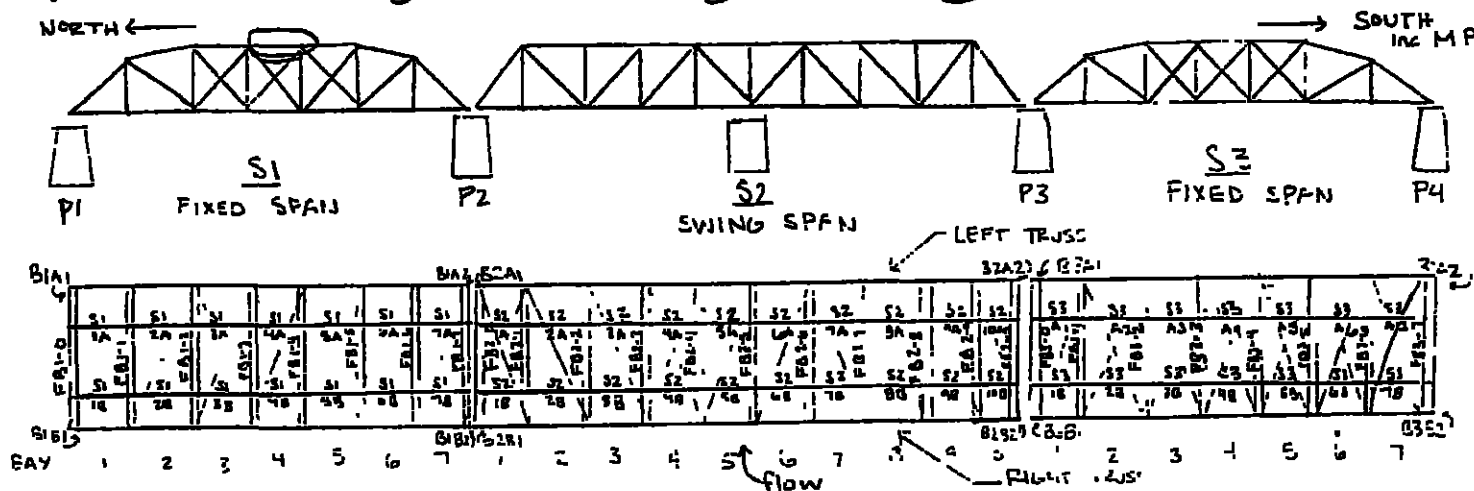
Upper Pin:	Condition:	Material Loss (%):
NBI:	Condition:	Material Loss (%):
Remarks:		

Lower Pin:	Condition:	Material Loss (%):
NBI:	Condition:	Material Loss (%):
Remarks:		

General Comments/Recommendations:



Location: Span (1) 2 3 Truss L (R) Member (TC) BC MC Bay 4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	V ₃		V ₄	
NBI Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%)	25%	30%	25%	

Cross Brace:

NBI: 2 Condition: S Material Loss (%): 75

Remarks: holes in the elements, -lacings

TYPICAL FOR ALL SPANS.

Fiber Beam:

NBI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Stinger.

NBI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Unter-Pir:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Leuz-Prod.

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

Top Horizontal is typical for the entire bridge



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hac amst

DATE 1/13/09

WEATHER

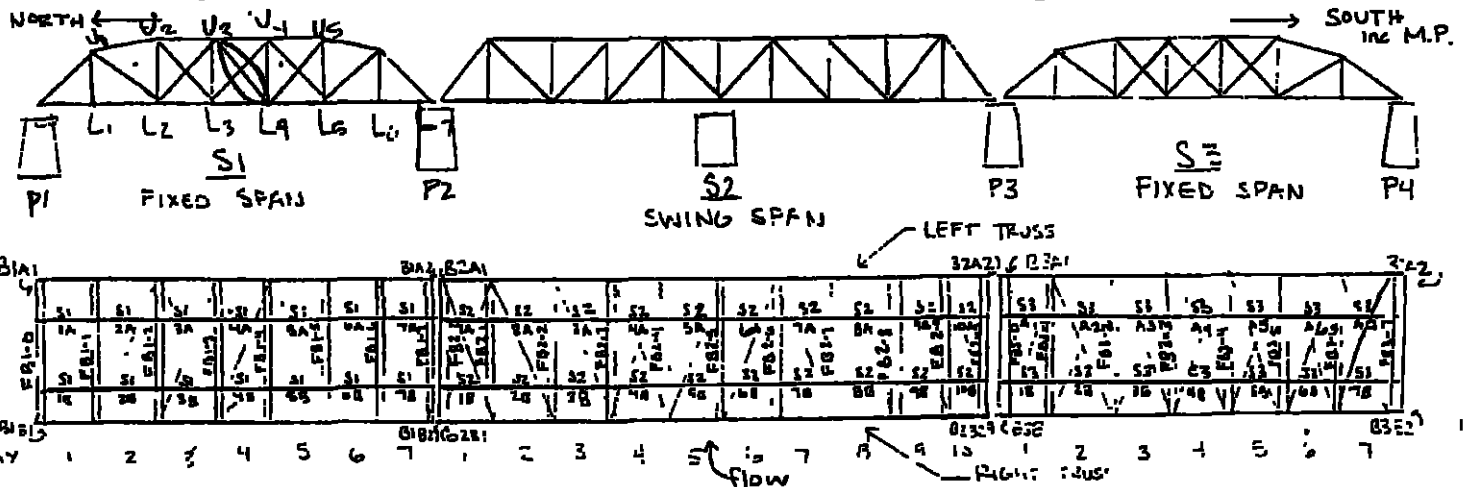
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	L4	3	U2	Severe pitting where diagonals touch
Condition Rating:	3	3	3	L4 - 3/4" laminar rust rack not silver at
Material Loss (%):	40%	40%	40%	bottom fixtures dia. with vertical connection.

Cross-Brace:
NBI: 2 Condition: 5 Material Loss (%): 75%
Remarks: holes in elements

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:
Top Vert is typical for entire bridge.



JOB DESCRIPTION Periodic Inspection for Bridge 7164

Cushman, OR - Siuslaw River

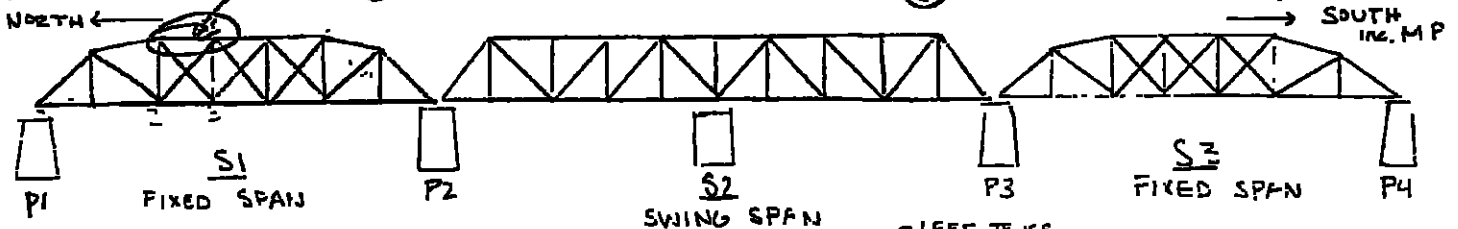
FOR Oregon Rail Assessments

INSPECTED BY HAL, amot

DATE 9/13/08

WEATHER 70° Sunny

Location: Span (1/2) 3 Truss L (R) Member (TC) BC MC Bay. 3



LEFT TRUSS							RIGHT TRUSS						
BA1	BA2	BA3	BA4	BA5	BA6	BA7	BA8	BA9	BA10	BA11	BA12	BA13	BA14
EA1	EA2	EA3	EA4	EA5	EA6	EA7	EA8	EA9	EA10	EA11	EA12	EA13	EA14
SA1	SA2	SA3	SA4	SA5	SA6	SA7	SA8	SA9	SA10	SA11	SA12	SA13	SA14
TA1	TA2	TA3	TA4	TA5	TA6	TA7	TA8	TA9	TA10	TA11	TA12	TA13	TA14
BA1	BA2	BA3	BA4	BA5	BA6	BA7	BA8	BA9	BA10	BA11	BA12	BA13	BA14
EA1	EA2	EA3	EA4	EA5	EA6	EA7	EA8	EA9	EA10	EA11	EA12	EA13	EA14
SA1	SA2	SA3	SA4	SA5	SA6	SA7	SA8	SA9	SA10	SA11	SA12	SA13	SA14
TA1	TA2	TA3	TA4	TA5	TA6	TA7	TA8	TA9	TA10	TA11	TA12	TA13	TA14
BA1	BA2	BA3	BA4	BA5	BA6	BA7	BA8	BA9	BA10	BA11	BA12	BA13	BA14
EA1	EA2	EA3	EA4	EA5	EA6	EA7	EA8	EA9	EA10	EA11	EA12	EA13	EA14
SA1	SA2	SA3	SA4	SA5	SA6	SA7	SA8	SA9	SA10	SA11	SA12	SA13	SA14
TA1	TA2	TA3	TA4	TA5	TA6	TA7	TA8	TA9	TA10	TA11	TA12	TA13	TA14

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	U ₁	4	U ₂	*
NBI Rating:	4	4	4	divine section loss m. lining
Condition Rating:	5	5	5	
Material Loss (%):	75%	75%	75%	

Bridge Frame			
NBI:	5	Condition:	5
Remarks:		Material Loss (%):	75% *

Floor Beam			
NBI:		Condition:	
Remarks:		Material Loss (%):	

Stringer			
NBI:		Condition:	
Remarks:		Material Loss (%):	

Upper Pin			
NBI:		Condition:	
Remarks:		Material Loss (%):	

Lower Pin			
NBI:		Condition:	
Remarks:		Material Loss (%):	

General Comments/Recommendations:

*TYPICAL FOR ENTIRE SPAN



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

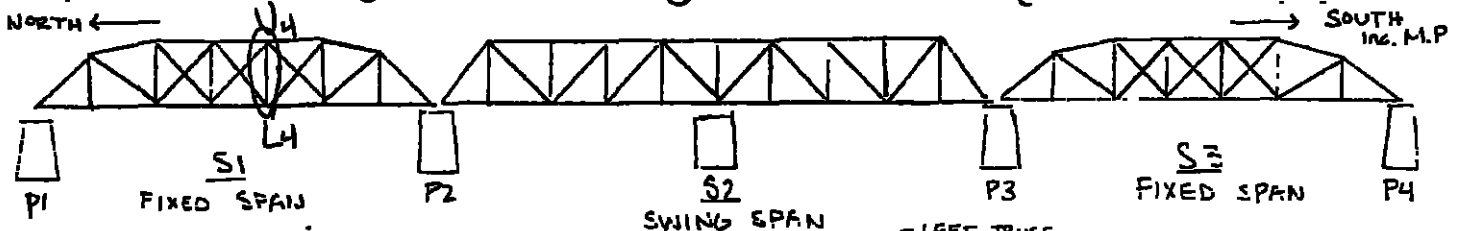
FOR Oregon Rail Assessments

INSPECTED BY hadi amot

DATE 9/13/08

WEATHER Sunny 70°

Location: Span (1) 2 3 Truss L (R) Member TC BC (MC) Bay:



Bay	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Left Truss	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Right Truss	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L4	2	V4	severe holes throughout the web & flanges of the element
BI Rating:	3	5	3	pack nut at railing
Condition Rating:	3	5	5	
Material Loss (%):	40%	62%	56%	

Cross Brace:				
NBI:	5	Condition:	5	Material Loss (%): 75%*
Remarks:	holes in element			

Roof Beam:				
NBI:		Condition:		Material Loss (%):
Remarks:				

Stringer:				
NBI:		Condition:		Material Loss (%):
Remarks:				

Upper Pin:	V4			
NBI:	4	Condition:	5	Material Loss (%): 10%
Remarks:				

Lower Pin:	L4			
NBI:	5	Condition:	4	Material Loss (%): pin 5% nut 10%
Remarks:				

General Comments/Recommendations:

*TYPICAL FOR ENTIRE BRIDGE



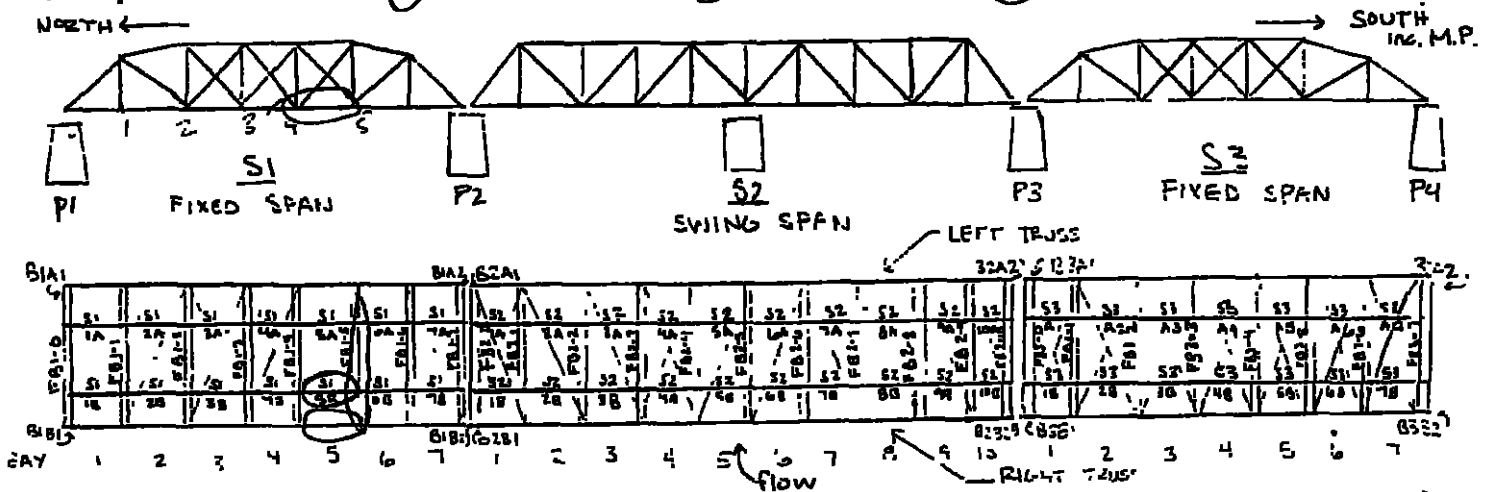
INSPECTED BY hard rust
DATE 9/13/03
WEATHER Sunny 70

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

Location: Span (1) 2 3 Truss L (R) Member TC (BC) MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L4		L5	
NBI Rating:	4	4		
Condition Rating:	5	5		
Material Loss (%):	10%	10%		

Cross Brace (B5-1)

NBI: <u>2</u>	Condition: <u>5</u>	Material Loss (%): <u>75%</u>
Remarks: <u>holes in flanges visible pack rivet rivets at connection etc. 75% gone.</u>		

Floor Beam: FB1-5

NBI: <u>4</u>	Condition: <u>5</u>	Material Loss (%): <u>40%</u>
Remarks: <u>delong. action loss of rivets etc. missing</u>		
Remarks: <u>PAK NOT AT STRINGER CONNECTION</u>		

Stringer: S15B

NBI: <u>3</u>	Condition: <u>5</u>	Material Loss (%): <u>see picture.</u>
Remarks: <u>PAK NOT AT floor beam connection</u>		

Upper Pin:		
NBI:	Condition:	Material Loss (%):
Remarks:		

Lower Pin:		
NBI:	Condition:	Material Loss (%):
Remarks:		

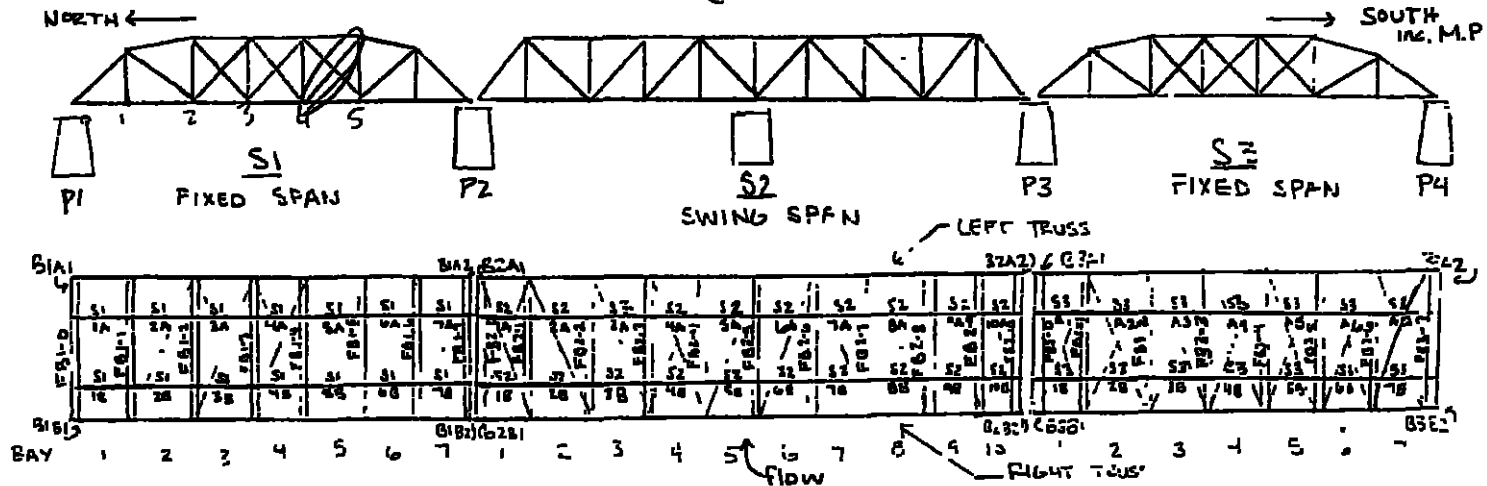
General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR -Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/MC
DATE 0/13/06
WEATHER 70° S

Location: Span (1) 2 3 Truss L (R) Member TC BC (MC) Bay: S



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L4		V5	pitting moderate
BI Rating:	4	4	4	
Condition Rating:	5	4	5	
Material Loss (%):	10%	5%	10%	

Cross-Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor-Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

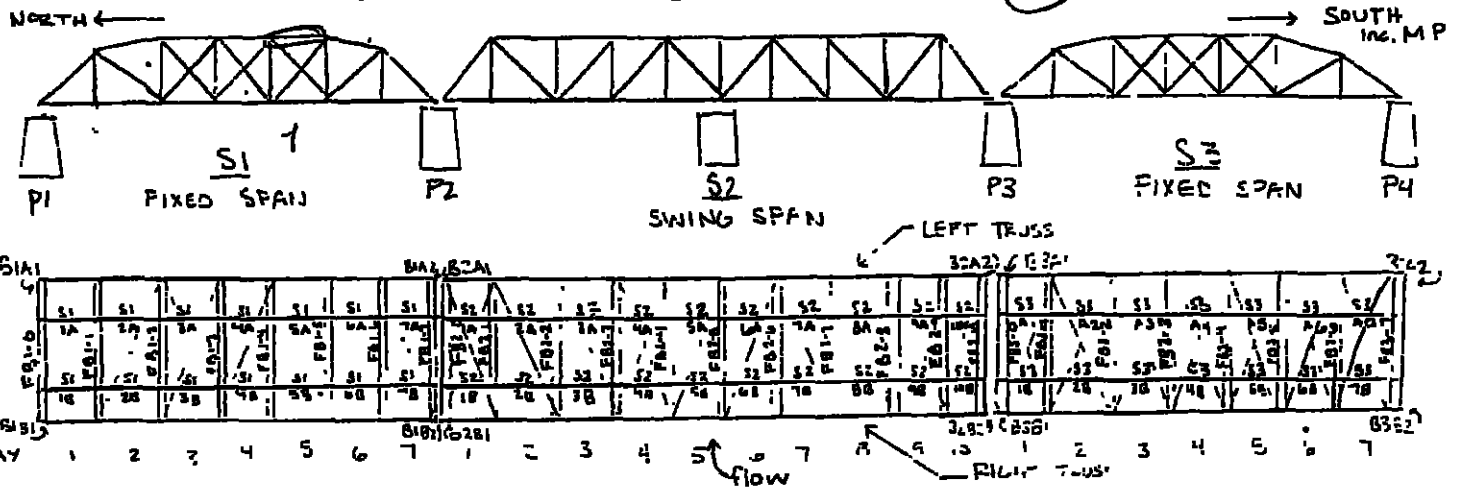
General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY haci Austl
DATE 7/23/03
WEATHER 70° Sunny

Location: Span (1) 2 3 Truss L R Member TC BC MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>U4</u>	<u>4</u>	<u>V5</u>	
NBI Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25%</u>	<u>25</u>	<u>25%</u>	

Cross Brace:				
NBI:	<u>2</u>	Condition:	<u>5</u>	Material Loss (%): <u>75% *</u>
Remarks:				

Floor Beam:				
NBI:		Condition:		Material Loss (%):
Remarks:				

Stringer:				
NBI:		Condition:		Material Loss (%):
Remarks:				

Upper Pin:				
NBI:		Condition:		Material Loss (%):
Remarks:				

Lower Pin:				
NBI:		Condition:		Material Loss (%):
Remarks:				

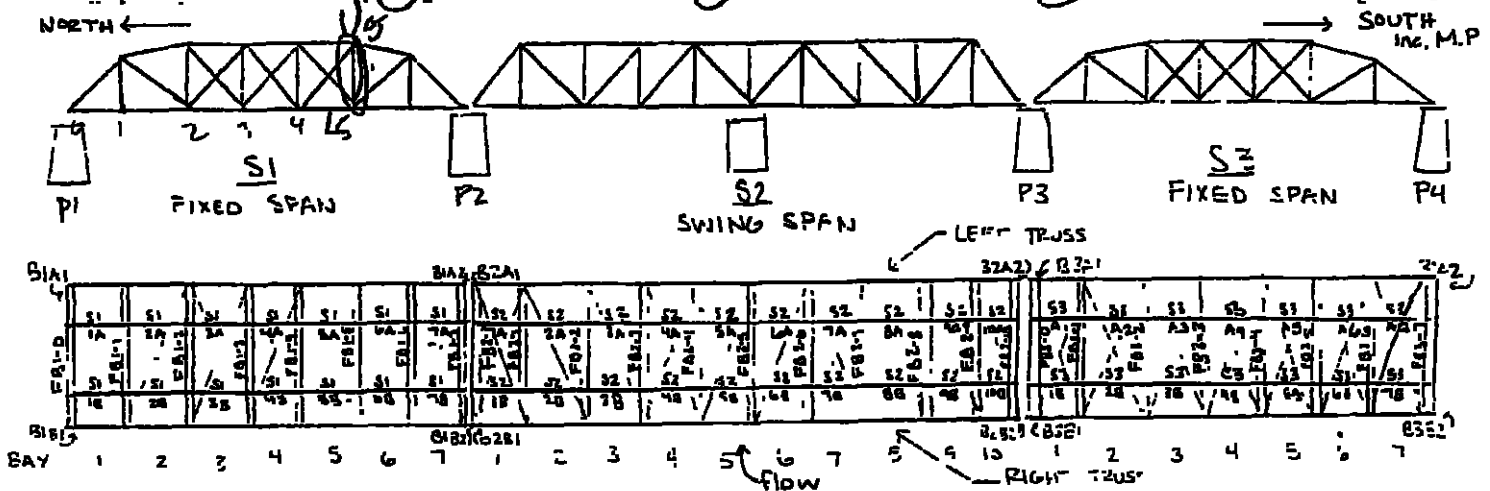
General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY *Walt Arndt*DATE *9/13/08*WEATHER *70° Sunny*Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 1

Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	<u>3</u>	<u>2</u>	<u>3</u>	<i>Laundry gone</i>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	<i>- holes in lower portion of element</i>
Material Loss (%):	<u>40%</u>	<u>60%</u>	<u>50%</u>	

Cross Braces:	Condition:	Material Loss (%):	Remarks:
NBI: <u>2</u>	<u>5</u>	<u>75</u>	<i>* Typical for entire structure.</i>
Remarks:	<i>holes in elements</i>		

Floor Beams:	Condition:	Material Loss (%):	Remarks:
NBI: <u> </u>	<u> </u>	<u> </u>	
Remarks:			

Stringer:	Condition:	Material Loss (%):	Remarks:
NBI: <u> </u>	<u> </u>	<u> </u>	
Remarks:			

Upper Pin:	Condition:	Material Loss (%):	Remarks:
NBI: <u>3</u>	<u>5</u>	<u>25%</u>	
Remarks:			

Lower Pin:	Condition:	Material Loss (%):	Remarks:
NBI: <u>3</u>	<u>5</u>	<u>15% - 20%</u>	
Remarks:			

4. And also use used there are different crit. 14% - 20% section loss of girder spacer

General Comments/Recommendations:



JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY Wickham

DATE 9/13/79

WEATHER 70° Sunny

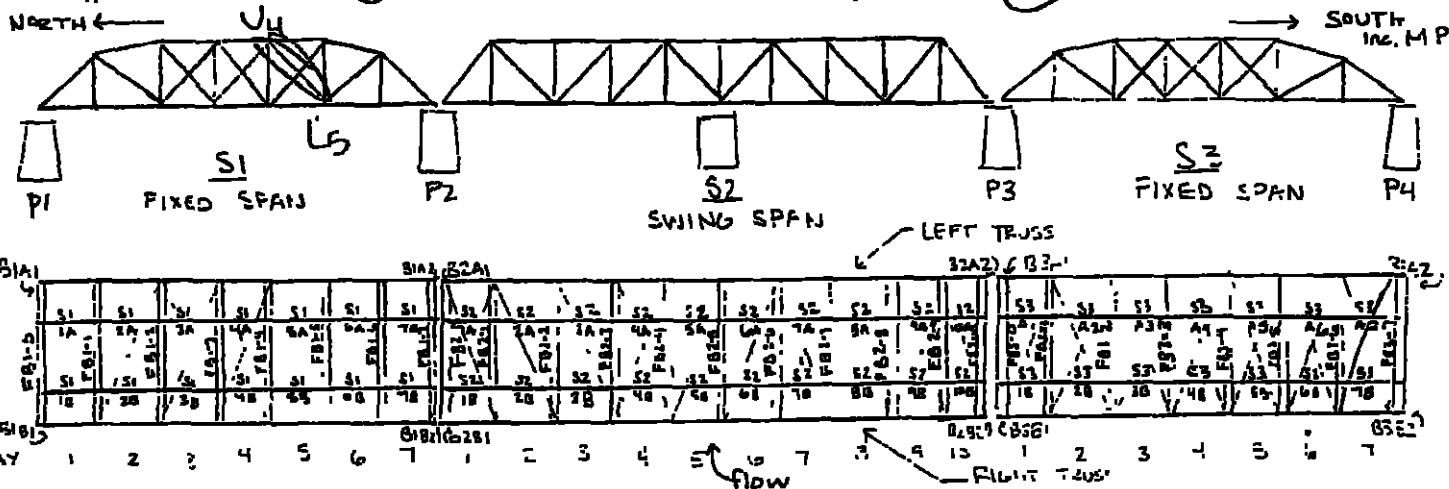
Location:

Span (1) 2 3

Truss L (R)

Member TC BC (MC)

Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	LS		U1	pitting, hammer (severe) at coupling
NBI Rating:	3	4	4	connection
Condition Rating:	3	4	5	
Material Loss (%):	40	30%	25%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:





JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

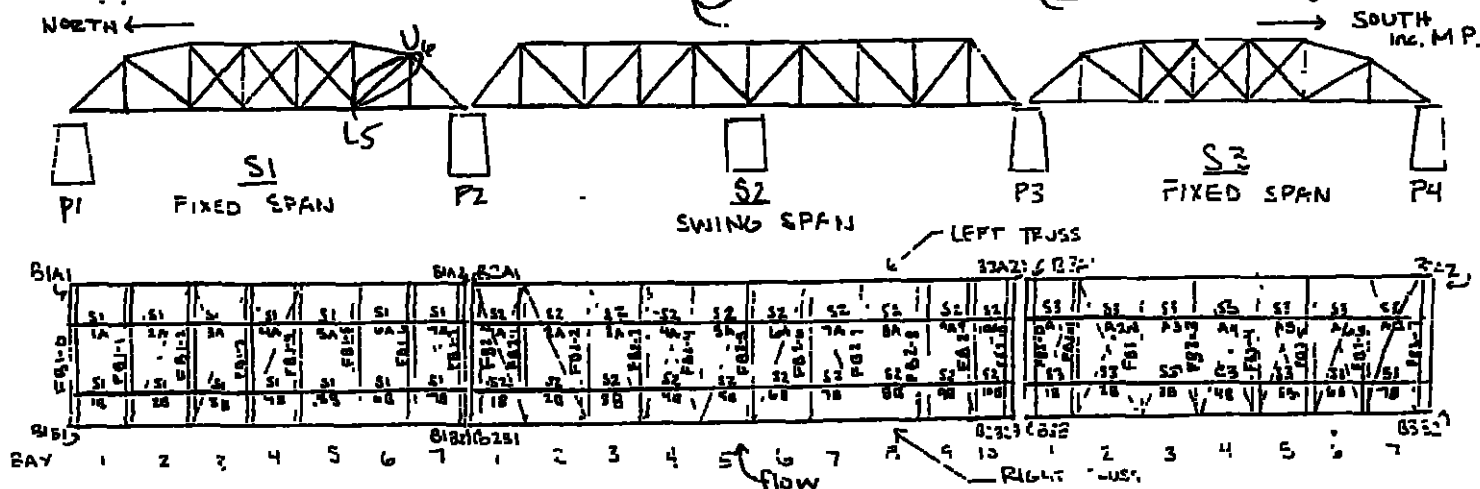
FOR Oregon Rail Assessments

INSPECTED BY Ward Aust

DATE 9/13/08

WEATHER 70° Sunny

Location: Span (1) 2 3 Truss L (R) Member TC BC (MC) Bay: 6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L6	5	U6	moderate pack rust at L5
NBI Rating:	4	4	4	element - minor pitting
Condition Rating:	4	4	4	
Material Loss (%):	5%	3%	25%	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



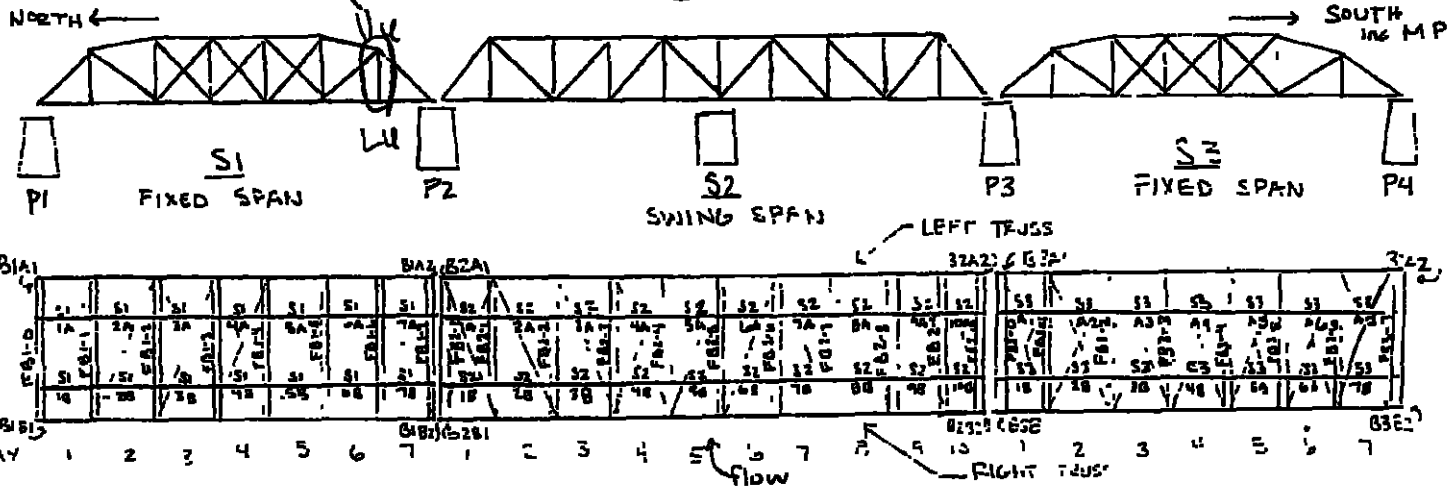
JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY Harold ArnoldDATE 9/13/88WEATHER 6th Sunny

Location:

Span (1) 2 3Truss L (R)Member TC BC (MC)Bay: 

Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>U6</u>	<u>U6</u>	<u>U6</u>	<u>Laminar Rust</u>
NBI Rating	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25</u>	<u>25%</u>	<u>25%</u>	

Cross Brace:

NBI: 2 Condition: 5 Material Loss (%): 75
Remarks: holes in elements

Floor Beam:

NBI: 3 Condition: 5 Material Loss (%): 25%
Remarks:

Stringer:

NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:

NBI: 4 Condition: 5 Material Loss (%):
Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hach

DATE 9/13/09

WEATHER 70° Sunny

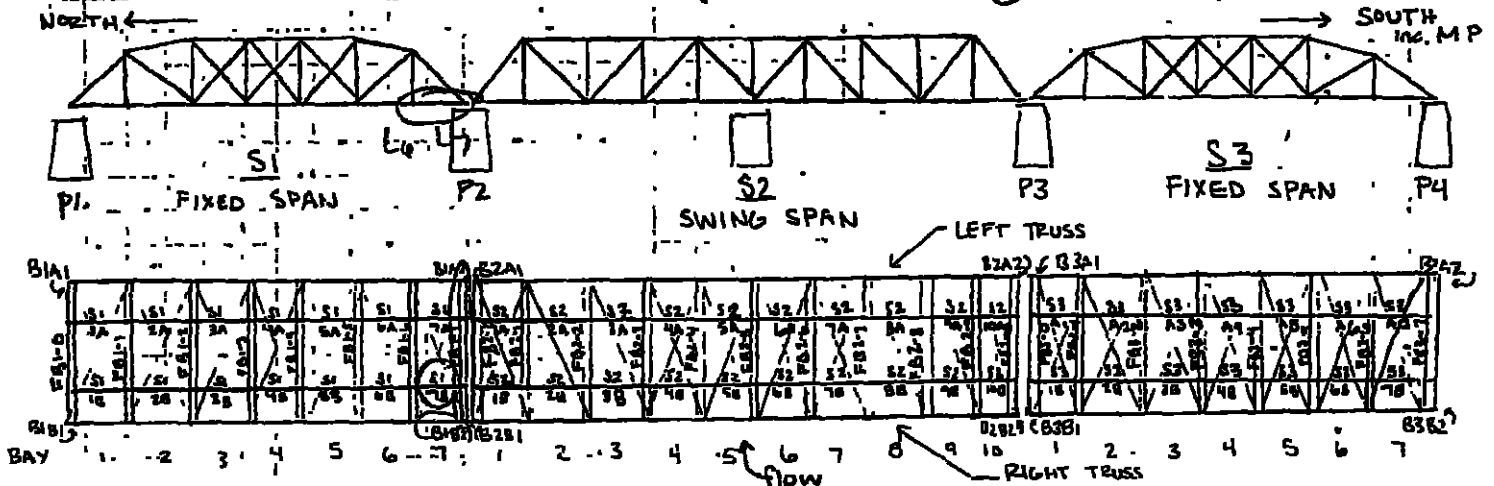
Location:

Span 1 2 3

Truss L

Member TC BC MC

Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L6	L7	L7	Weld section loss on flange 75%
NBI Rating:	3	3	3	with 30% sp. webs
Condition Rating:	5	5	5	
Material Loss (%):	40%	40%	40%	

Cross Brace: CB 1-1

NBI: 3

Condition: 5

Material Loss (%): 75%

Remarks: Weld section at connection

Floor Beam: FB 1-7

NBI: 3

Condition: 5

Material Loss (%): 10%

Remarks: Flange's not system was pulled

Stringer: S1 7B

NBI: 3

Condition: 5

Material Loss (%): 10%

Remarks: pack nut at FB connection, pack nut at str. connection

Upper Flg:

NBI:

Condition:

Material Loss (%):

Remarks:

Lower Flg:

NBI:

Condition:

Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

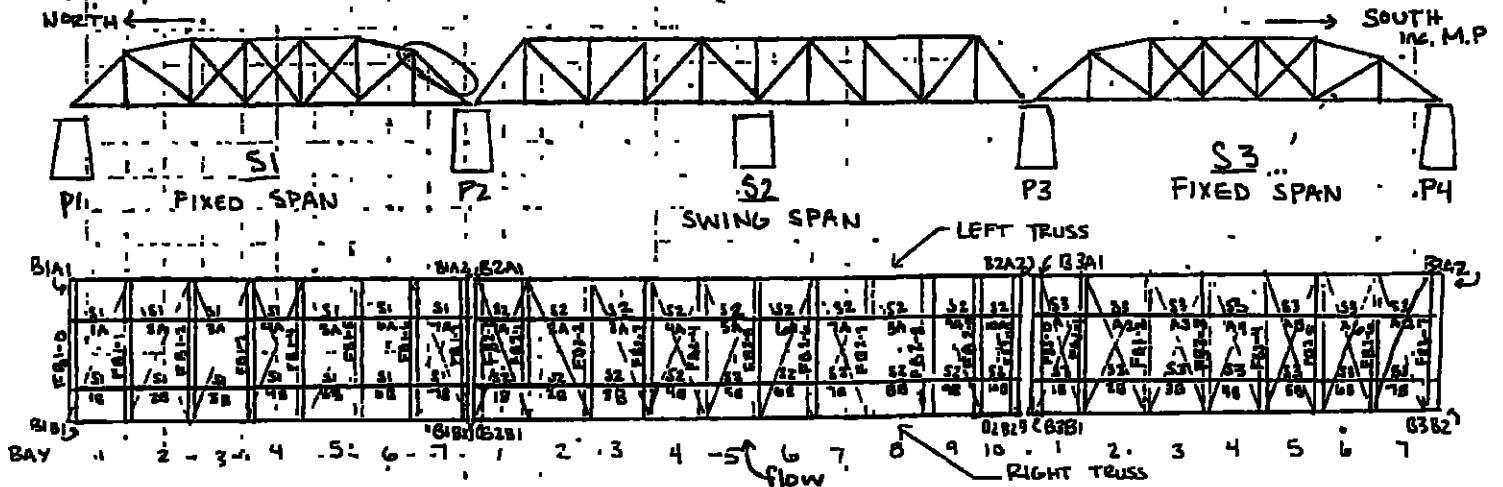
FOR Oregon Rail Assessments

INSPECTED BY Harold Gust

DATE 9/13/08

WEATHER Sunny 70

Location: Span (1) 2 3 Truss L (R) Member TC BC (MC) Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	4	4	4	10 of rivets are loose
Condition Rating:	5	5	5	LT pack nut
Material Loss (%):	30%	30%	25%	

Gross Brace:
NBI: 2 Condition: 5 Material Loss (%): 75 *
Remarks: holes in plate

Floor Beam:
NBI: 2 Condition: 5 Material Loss (%): 75 *
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

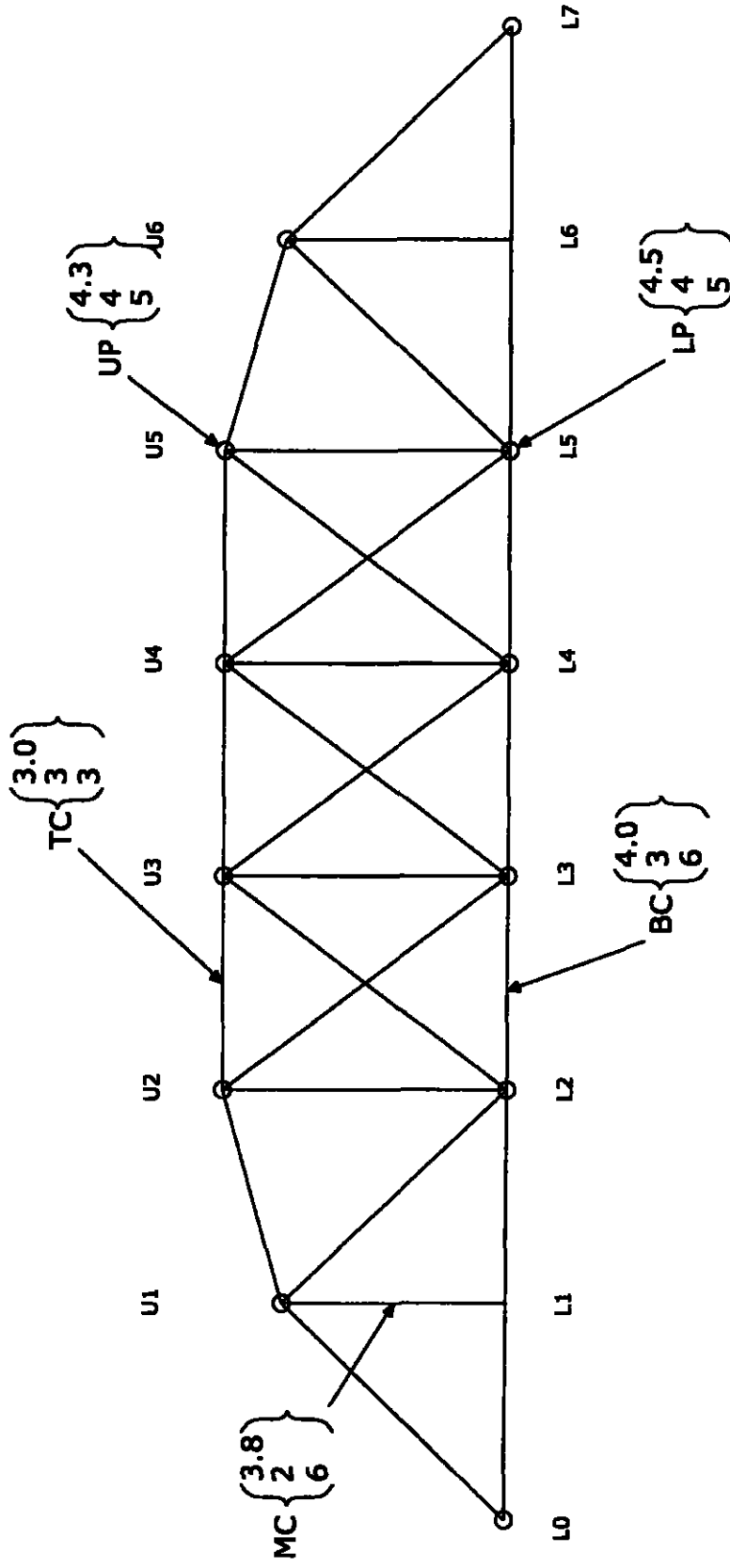
Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:

*Typical for m.h.v. span

LEFT SPAN 1

NBI Rating { AVERAGE
LOW HIGH }



Legend:

- TC Top Chord
- MC Middle Chord
- BC Bottom Chord
- UP Upper Pin
- LP Lower Pin



DAVID EVANS
ASSOCIATES

INSPECTED BY JA/KL

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

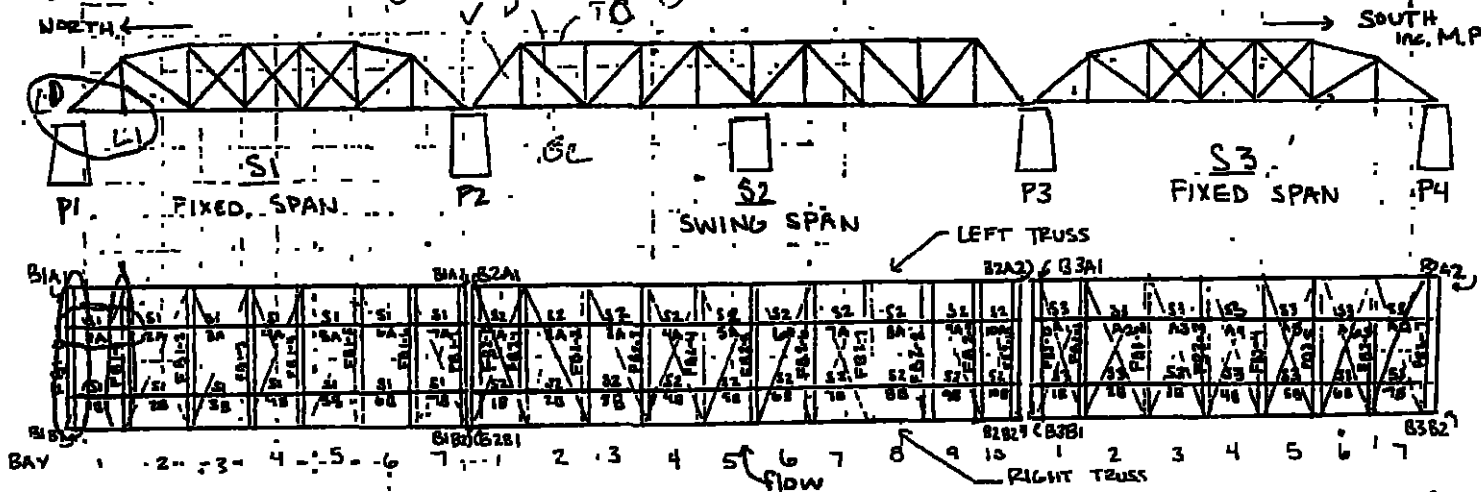
DATE 7/15/88

Cushman, OR - Suslaw River

WEATHER 75

FOR Oregon Rail Assessments

Location: Span 1/2 3 Truss (L) R Member TC/BG MC Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L 1</u>		<u>L 1</u>	
Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>10</u>	

Cross Brace: L 1 - L 1 R

NBI: 6 Condition: 3 Material Loss (%): 0

Remarks:

Floor Beam: L 1 - 0

NBI: 3 Condition: 5 Material Loss (%): 10

Remarks: TOP FL. 100% CORROSION, 20% SL 5% TO 60% LIFE, PAPER USE BRIDGE. DO NOT STAY TO FB.

Stringer: S 1 - 1A

NBI: 5 Condition: 4 Material Loss (%): 20

Remarks: 5% SL TOP FL. 1% SL BF

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

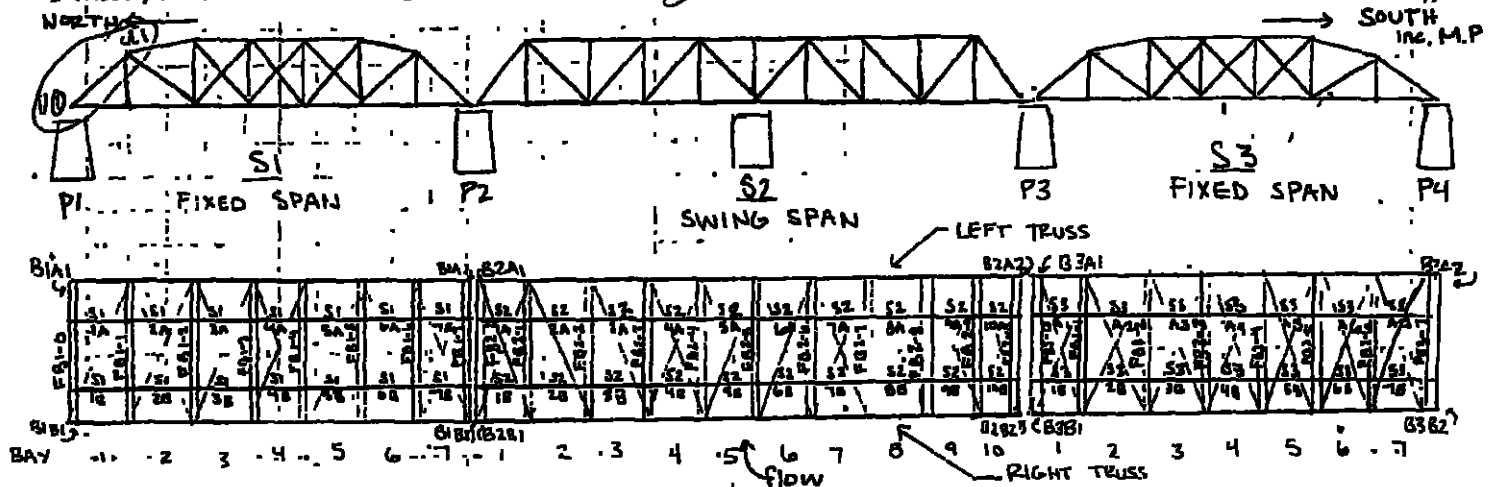
FOR Oregon Rail Assessments

INSPECTED BY JH/KL

DATE 9/15/08

WEATHER 70 S

Location: Span 1 2 3 Truss TC R. Member TC BC MC Bay:



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>U0</u>		<u>U1</u>	
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25</u>	<u>25</u>	<u>25</u>	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

partial bracing is consistent with the rating from RIGHT hand

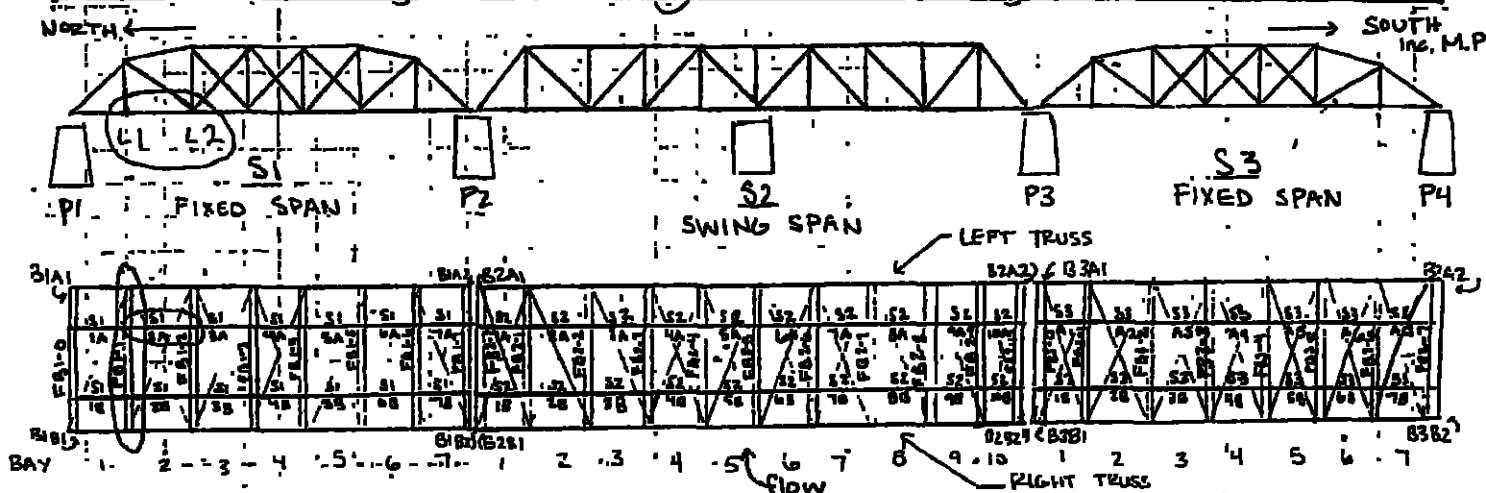


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY JM/RL
DATE 9/13/08
WEATHER 70S

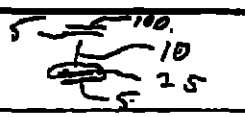
Location: Span/(1) 2 3 Truss (L) R Member TC /BC/ MC Bay: 2

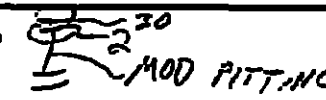


Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L1		L2	5
NBI Rating:	4	4	4	10
Condition Rating:	5	5	5	
Material Loss (%):	10	10	10	

Cross Brace: _____
NBI: 6 Condition: 3 (TYP.) Material Loss (%): _____
Remarks: _____

Floor Beam: FBI-1
NBI: 3 Condition: 5 Material Loss (%): _____
Remarks: Heavy LAM RUST AT L1 CORN. 

Stringer: S1-2A
NBI: 4 Condition: 5 Material Loss (%): _____
Remarks:  MOD PITTING

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

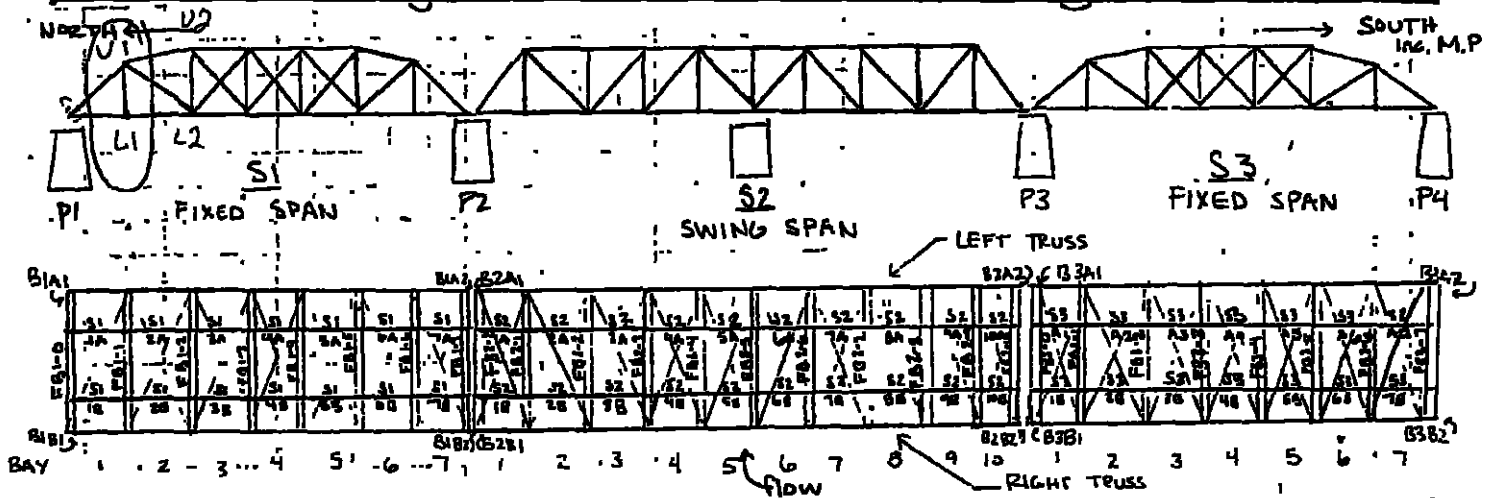


DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY JM/RL
DATE 9/13/04
WEATHER SYOF

Location: Span (1) 2 3 Truss (L) R Member TC BC (MC) Bay: 1/2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
L1	U1			
NBI Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%):	10	10	10	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin: 121
NBI: 4 Condition: 5 Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:

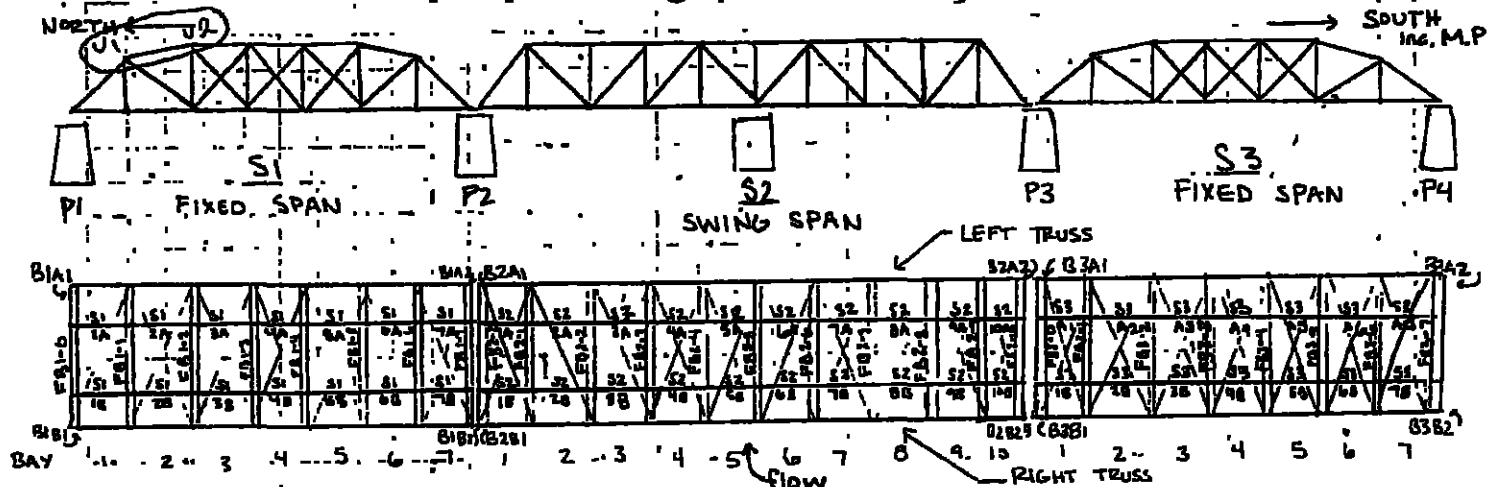


DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY JM/RL
DATE 9/13/18
WEATHER 70 S

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

Location: Span (1) 2 3 Truss 4 R Member TC BC MC Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>J1</u>		<u>J2</u>	
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	<u>TYPICAL</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25</u>	<u>25</u>	<u>25</u>	

Cross Brace: _____
NBI: 3 Condition: 5 Material Loss (%): 25 TYPICAL
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:
The TC assembly has been evaluated as a typical TC and due to limited access that other TC members are considered NBI 3 COND 5 N/A/25

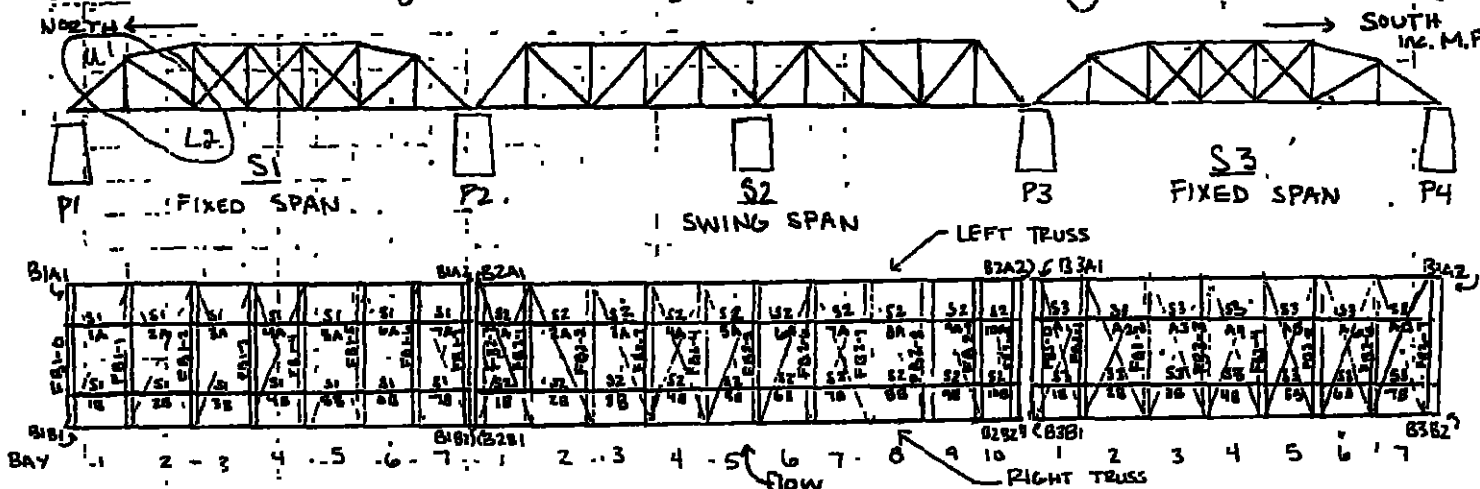


DAVID EVANS
& ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY JM/RL
DATE 7/13/08
WEATHER 70's

Location: Span 1 2 3 Truss R Member TC BC MC Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>U1</u>		<u>L2</u>	
NBI Rating:	<u>6</u>	<u>6</u>	<u>6</u>	
Condition Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Material Loss (%):	<u>0-3</u>	<u>0-5</u>	<u>0-5</u>	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

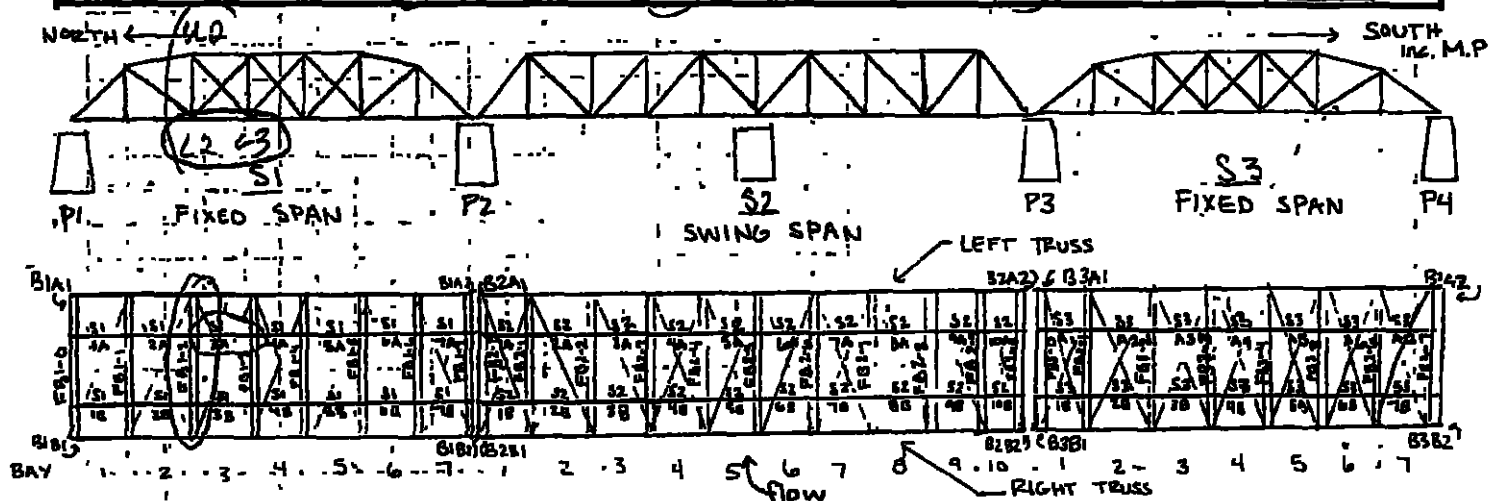
FOR Oregon Rail Assessments

INSPECTED BY JM/RL

DATE 9/13/08

WEATHER 170S

Location: Span (1) 2 3 Truss (L) R Member TC (BC) MC Bay: 2/3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L2		L3	
AI Rating:	5	5	5	
Condition Rating:	4	4	4	
Material Loss (%):	3	5	5	

Cross Brace: NBI: 2 Condition: 5 Material Loss (%): 20% ON FLANGES (TYPICAL)
Remarks: HOLE IN LL of 10.7% near LR

Floor Beam: FBI-2 NBI: 3 Condition: 5 Material Loss (%): 5
Remarks: PACK RUST @ L ST. CORNER

Stringer: 31-3A NBI: 4 Condition: 5 Material Loss (%): 100
Remarks: 100

Upper Pin: NBI: 1 Condition: 5 Material Loss (%): 100
Remarks: 100

Lower Pin: NBI: 1 Condition: 5 Material Loss (%): 100
Remarks: 100

General Comments/Recommendations:

The Cross Beam NBI 3 Cond 5 ML(2) 20 represents cross braces along out the structure



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

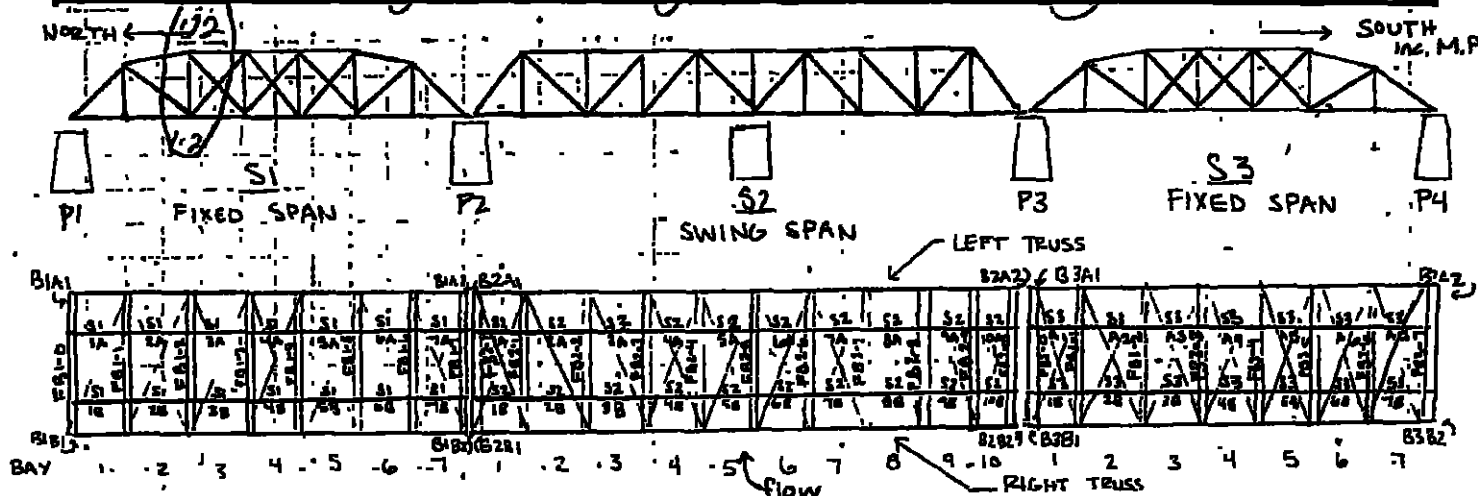
FOR Oregon Rail Assessments

INSPECTED BY JM/RL

DATE 9/13/08

WEATHER 70S

Location: Span (1) 2 3 Truss (1) R Member TC BC (MC) Bay: 2/3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks: 50% LOSS OF LAGS (TYP.)
NBI Rating:	2	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	75	50	50	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin: L2
NBI: 5 Condition: 4 Material Loss (%): < 5%
Remarks: 5% SL ON NUT

Lower Pin: L2
NBI: 5 Condition: 4 Material Loss (%): < 5%
Remarks: 5% SL ON NUT

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

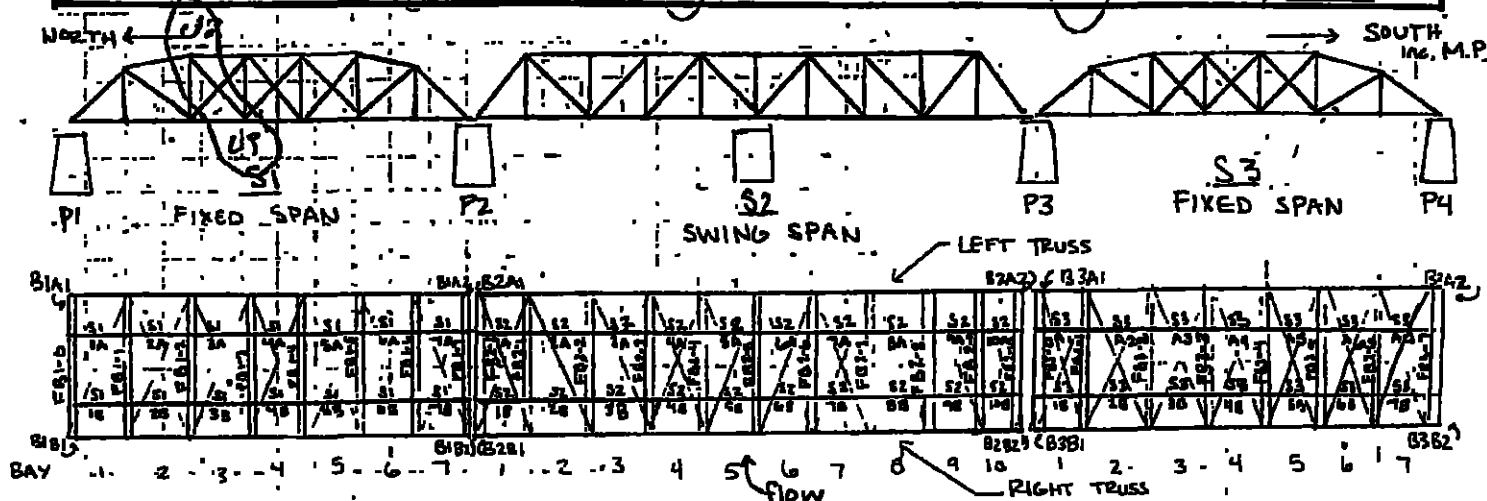
FOR Oregon Rail Assessments

INSPECTED BY JARL

DATE 7/13/08

WEATHER TO S

Location: Span (1) 2 3 Truss (L) R Member TC BC (MC) Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U2		L3	
BI Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

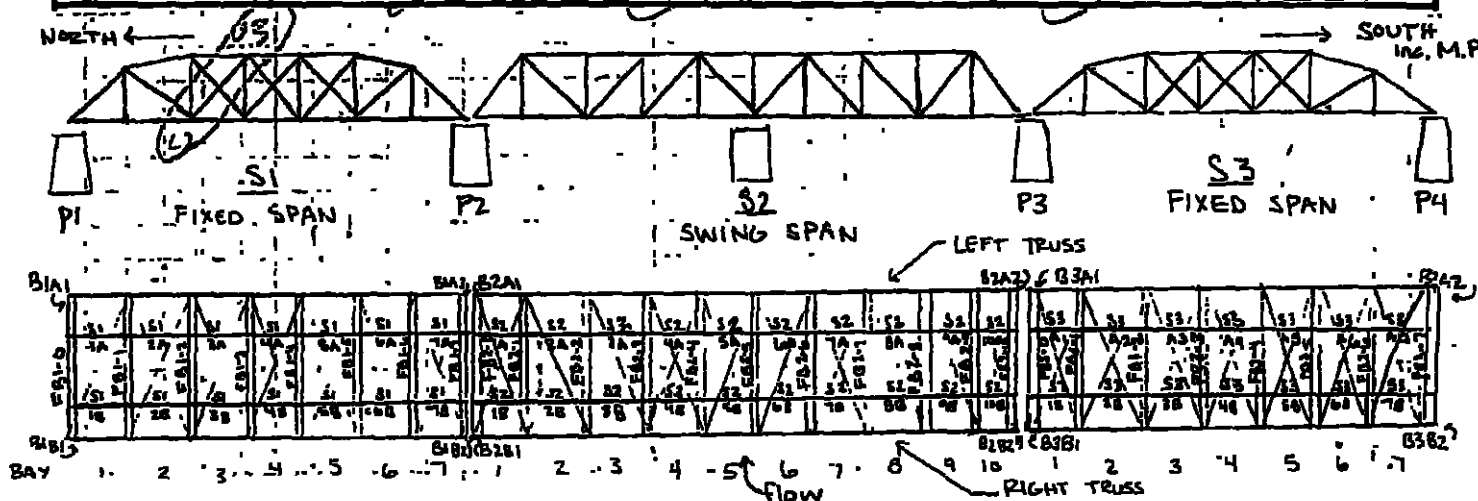
FOR Oregon Rail Assessments

INSPECTED BY JAL/RL

DATE 2/13/08

WEATHER 10.5

Location: Span 1/2 3 Truss L R Member TC BC/MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks: SEVERE PIT THROUST
NBI Rating:	2	2	3	
Condition Rating:	5	5	5	
Material Loss (%):	15	25	15	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

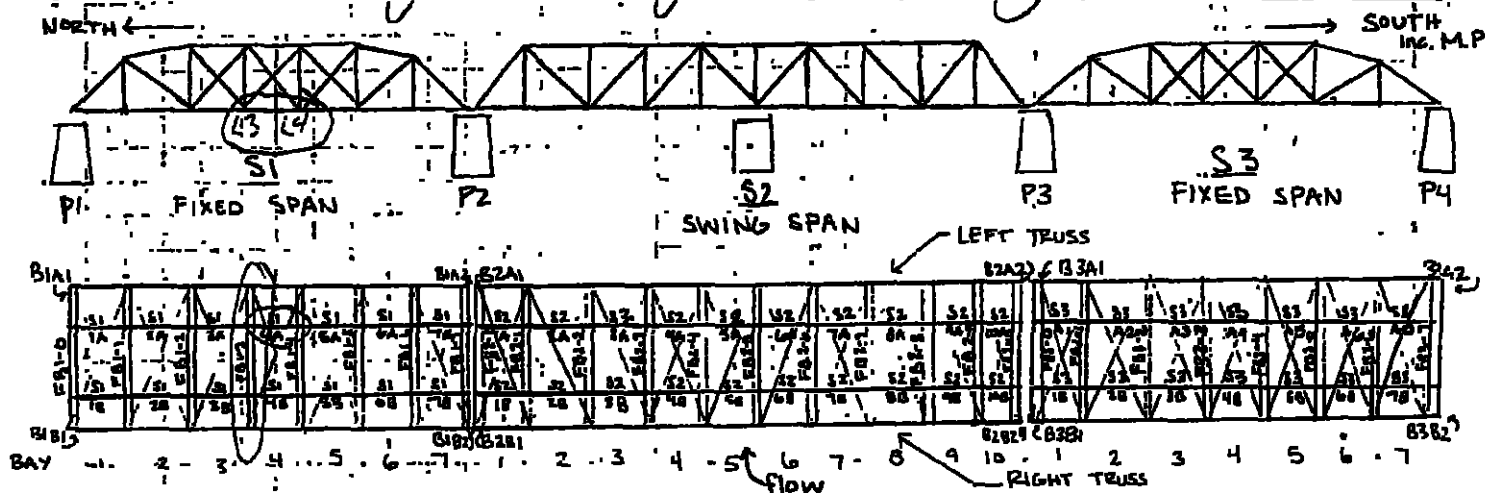
FOR Oregon Rail Assessments

INSPECTED BY JM/AL

DATE 9/13/08

WEATHER 70.9

Location: Span 1/1 2 3 Truss L R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
L3	L3	L4	L4	4V/ PIT.
BI Rating:	5	5	5	
Condition Rating:	4	5	5	
Material Loss (%):	5	5	5	

Cross Brace: NBI: 2 Condition: 5 Material Loss (%): 7.5 (typical for the structure)
Remarks:

Floor Beam: FB1-1 NBI: 4 Condition: 5 Material Loss (%): 50
Remarks:

Stringer: S1-4A NBI: 4 Condition: 5 Material Loss (%): 50
Remarks:

Upper Pin: NBI: Condition: Material Loss (%):
Remarks:

Lower Pin: NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 7164

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY JH/BL

DATE 9/13/08

WEATHER 50°F

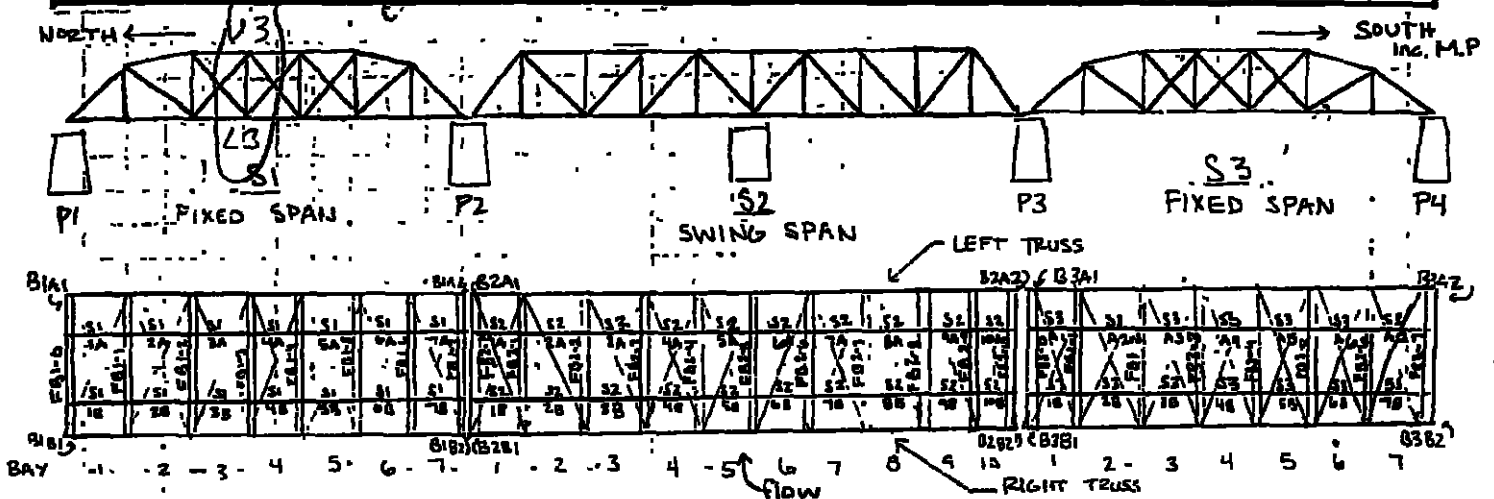
Location:

Span 1/2/3

Truss L/R

Member TC/BC/MC

Bay: 3/4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks: LACING 50% GONE
	L3		L3	
NBI Rating:	2	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	50	50	50	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin: 43

NBI: 5 Condition: 4 Material Loss (%): 5

Remarks:

Lower Pin: L3

NBI: 5 Condition: 4 Material Loss (%): 5

Remarks:

General Comments/Recommendations:

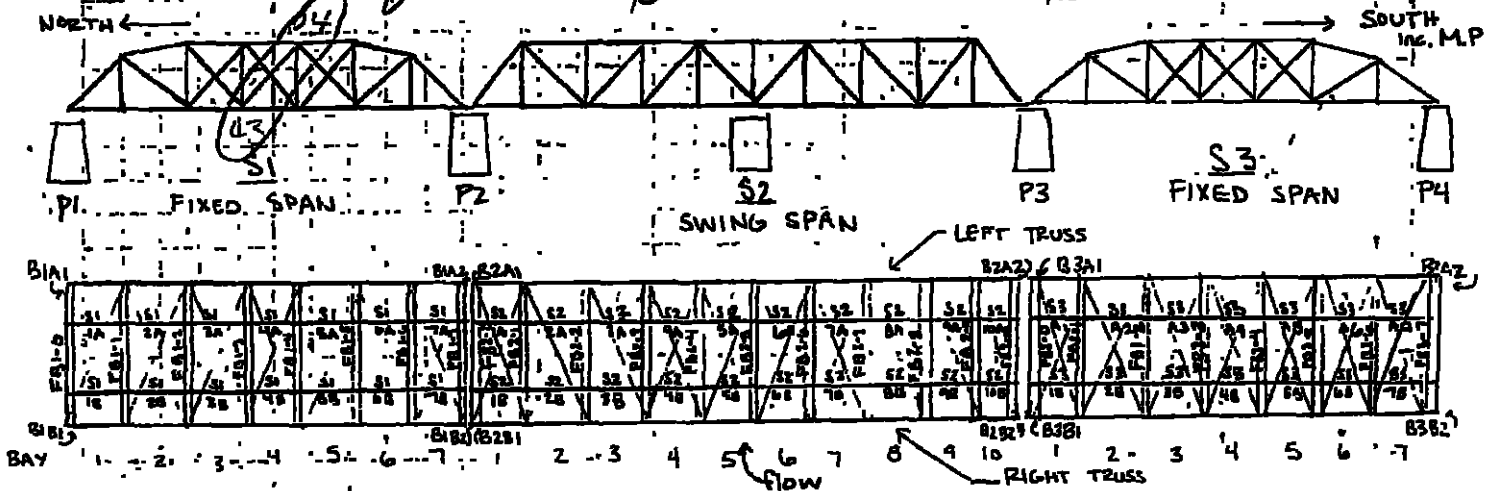


DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Sluslaw River
FOR Oregon Rail Assessments

INSPECTED BY JIM / RL
DATE 9/15/99
WEATHER 70.5

Location: Span 1 2 3 Truss D R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3		U4	Remarks: P: 77-80
Condition Rating:	5	3	5	DIAG. TIE WEDGED AT VERT.
Material Loss (%):	5	5	5	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____

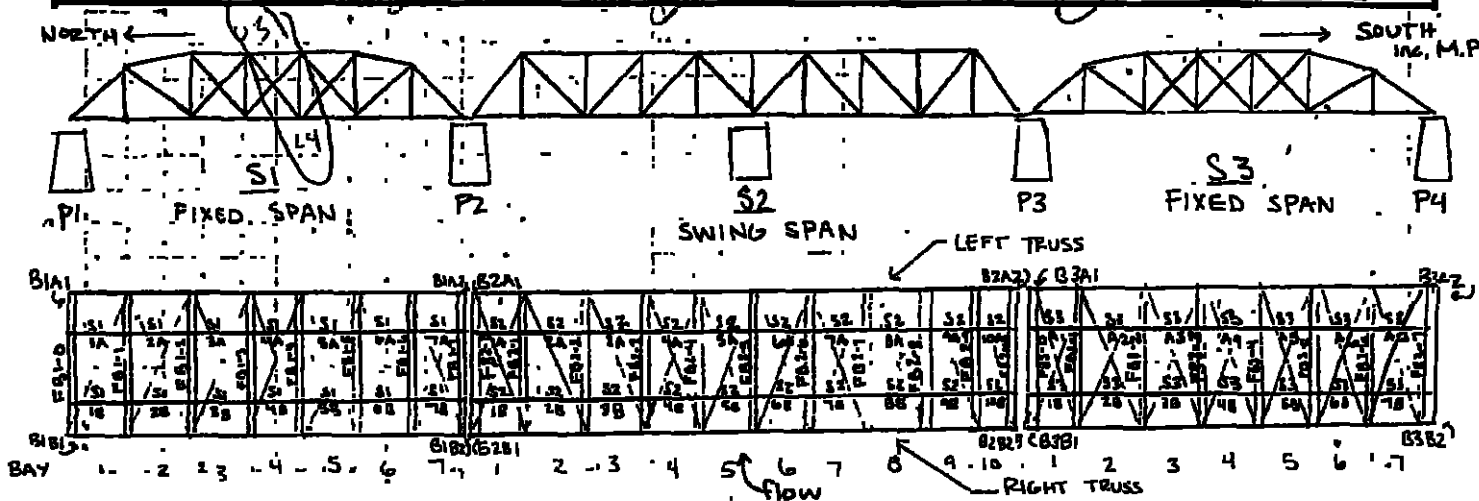


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY JM/RL
DATE 9/13/08
WEATHER 70S

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L3</u>		<u>L4</u>	
NBI Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>10</u>	

Gross Braces: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

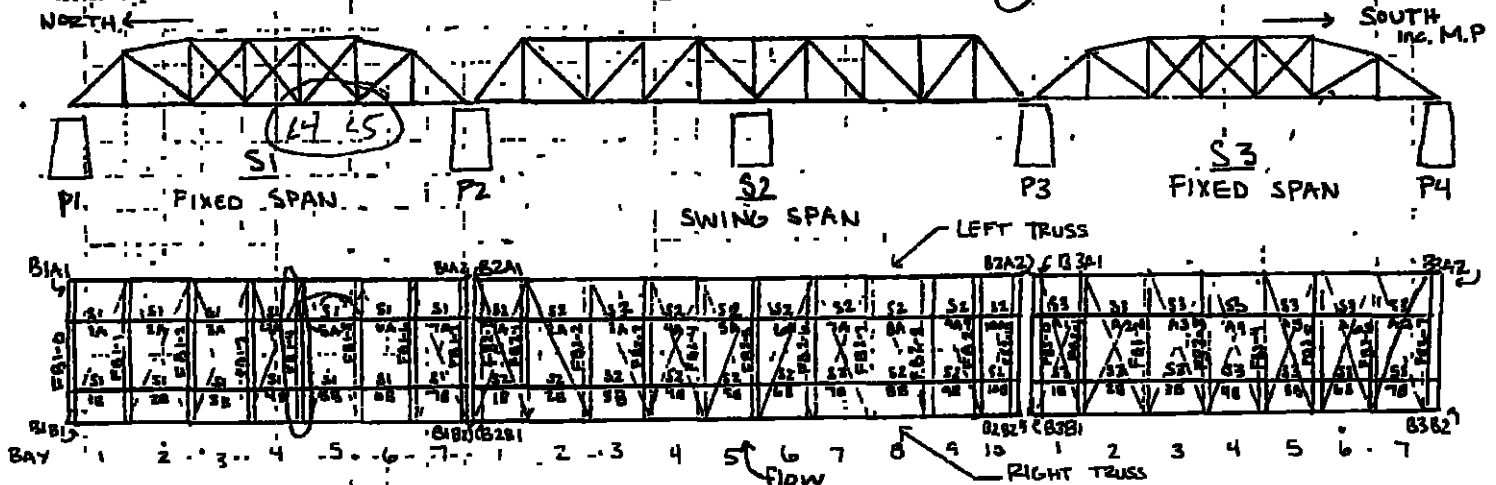


DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Suslaw River
FOR Oregon Rail Assessments

INSPECTED BY JH/RL
DATE 9/13/08
WEATHER 20°C

Location: Span 1 2 3 Truss 11 R Member TC (BC) MC Bay: 5



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L4		L5	
AI Rating:	5	5	5	
Condition Rating:	4	4	4	
Material Loss (%):	5	5	5	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: FBI-11

NBI: 3 Condition: 5 Material Loss (%): _____

Remarks: _____

Stringer: S1-SA

NBI: 3 Condition: 5 Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

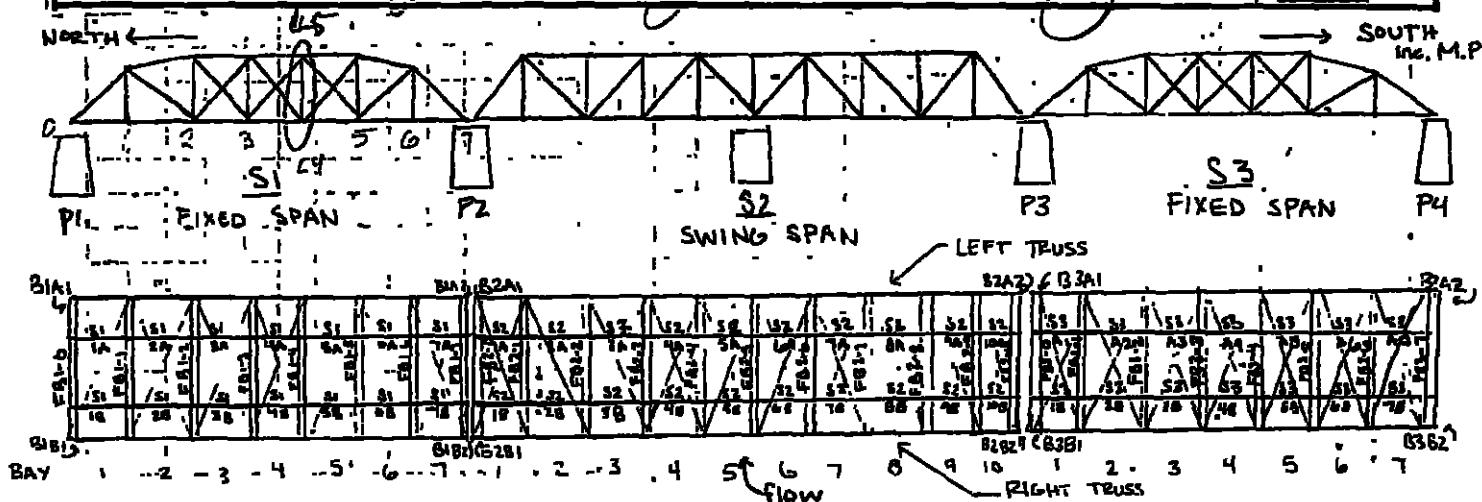
FOR Oregon Rail Assessments

INSPECTED BY JA/KL

DATE 7/15/07

WEATHER 70 S

Location: Span 1/ 2 3 Truss L R Member TC BC MC Bay: 4/5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L4		U4	IN HEAVY PITTING / SOME HOLES
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	
Cross Brace:				
NBI:	Condition:	Material Loss (%):		
Remarks:				
Floor Beam:				
NBI:	Condition:	Material Loss (%):		
Remarks:				
Stringer:				
NBI:	Condition:	Material Loss (%):		
Remarks:				
Upper Pin: <u>U4</u>				
NBI: <u>4</u>	Condition: <u>5</u>	Material Loss (%): <u>10</u>		
Remarks: <u>1" GAP FROM CORROSION ON PIN/SPACER, FACT RUST CAUSING FIVE BARS</u> <u>TO DEFLECT, UP TO 1 1/2"</u>				
General Comments/Recommendations:				



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

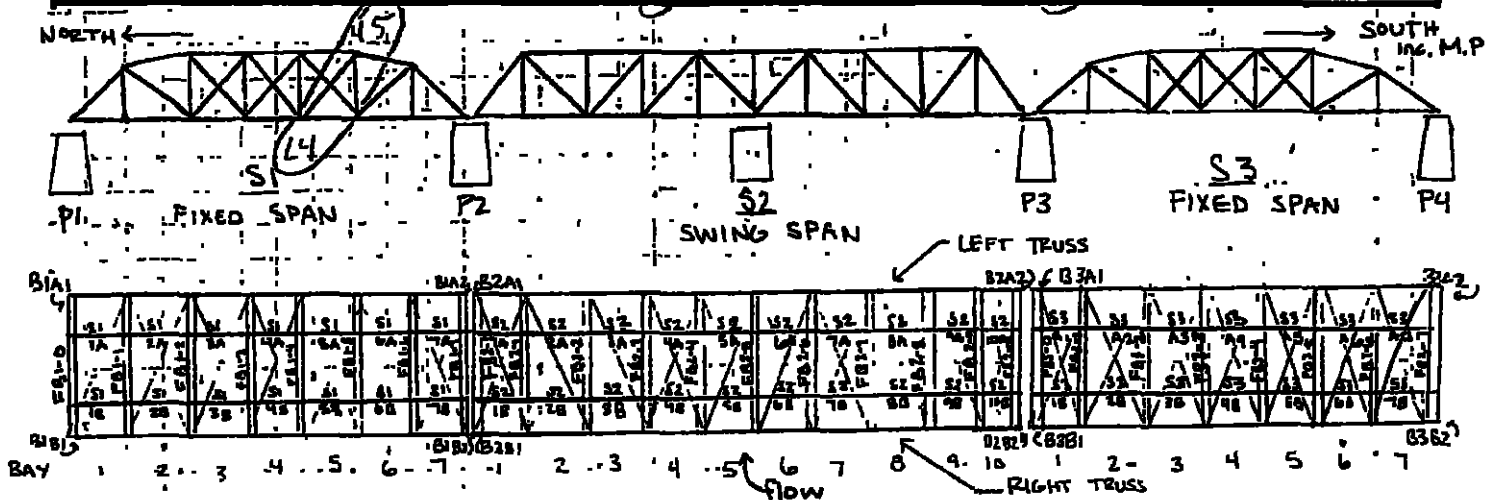
FOR Oregon Rail Assessments

INSPECTED BY JM/RL

DATE 9/13/08

WEATHER 705

Location: Span 2 3 Truss L R Member TC BC / MC Bay: S



Inspection Notes:

	Joint	Element	Joint	Remarks: <u>MOD. PIT</u>
Member Name:	<u>L4</u>		<u>U5</u>	
NBI Rating:	<u>6</u>	<u>5</u>	<u>5</u>	
Condition Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Material Loss (%):	<u>5</u>	<u>5</u>	<u>5</u>	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

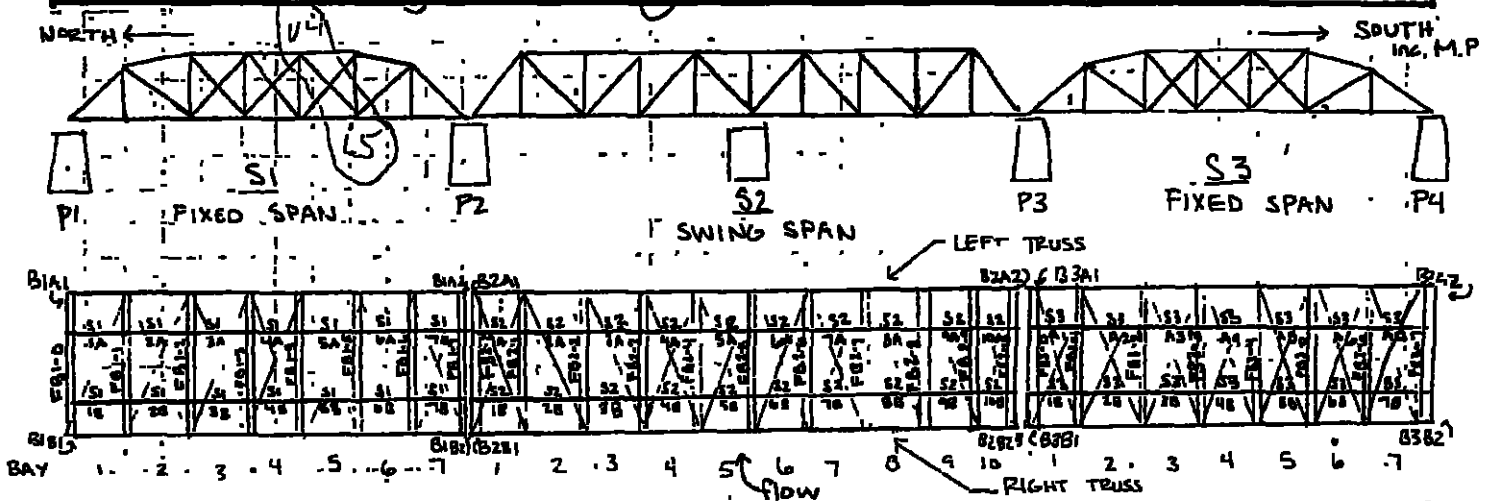
FOR Oregon Rail Assessments

INSPECTED BY JH/RL

DATE 9/13/02

WEATHER 570F.

Location: Span (1) 2 3 Truss (L) R Member TC BC (MC) Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	U4		L5	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY JM/RL

DATE 9/15/08

WEATHER 50 S

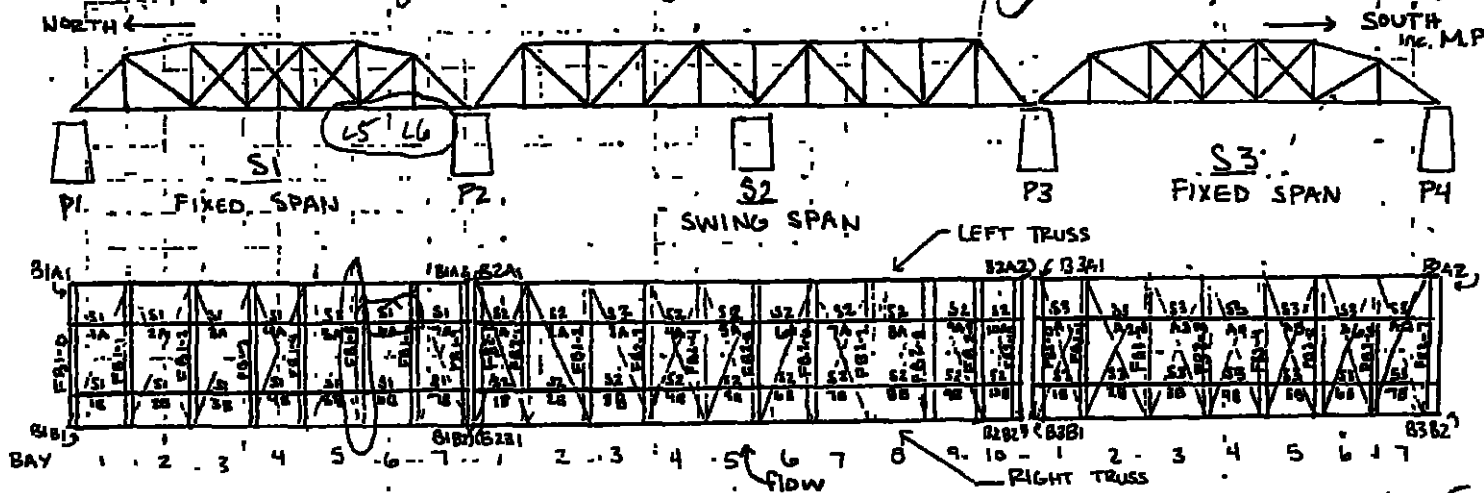
Location:

Span 1/2/3

Truss 1/4 R

Member TC/BC/MC

Bay: 6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L5		L6	
Condition Rating:	3	3	3	
Material Loss (%):	25	25	25	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: EB1-S

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Stringer: S1-GA

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

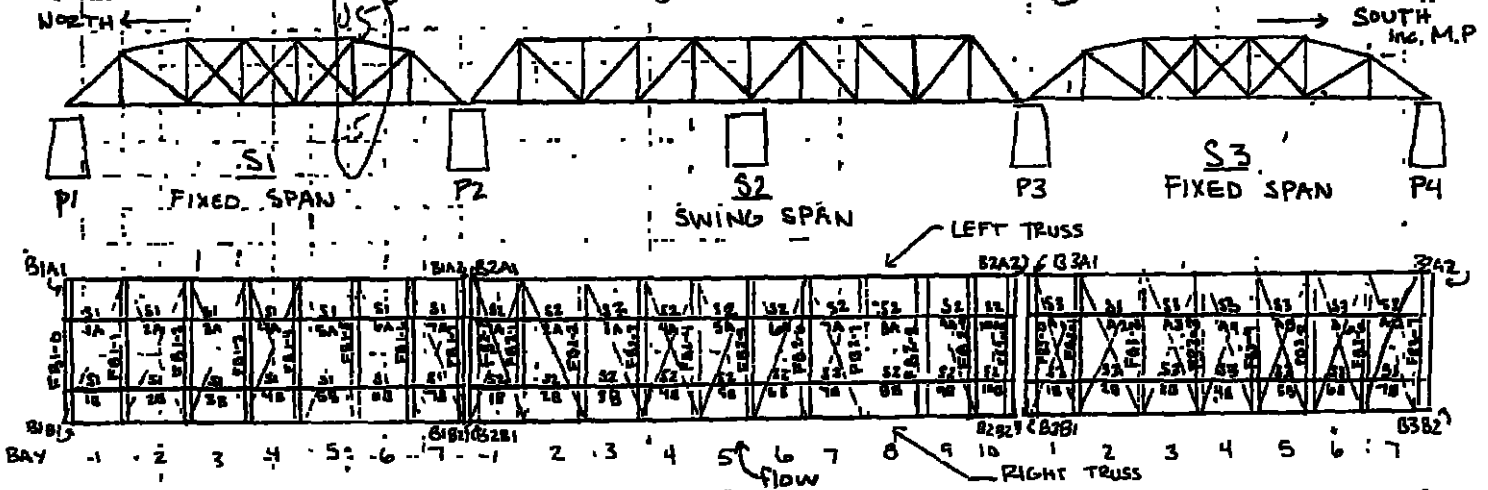


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon-Rail Assessments

INSPECTED BY JM/R
DATE 7.5.08
WEATHER 72 S

Location: Span 1 2 3 Truss (L) R Member TC BC MC Bay:



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L5</u>		<u>U5</u>	<u>HVY PIT, HVY LAF. RUST</u>
NBI Rating:	<u>2</u>	<u>2</u>	<u>2</u>	<u>THROUGHOUT. HOLES IN WEB PL. D.</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	<u>L5 CORR.</u>
Material Loss (%):	<u>50</u>	<u>50</u>	<u>50</u>	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin: U5

NBI: Condition: Material Loss (%):

Remarks:

Refer to L4U4

Lower Pin: L5

NBI: Condition: Material Loss (%):

Remarks:

Refer to L4U4

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

FOR Oregon Rail Assessments

INSPECTED BY

JM/RL

DATE

9/13/08

WEATHER

70.5

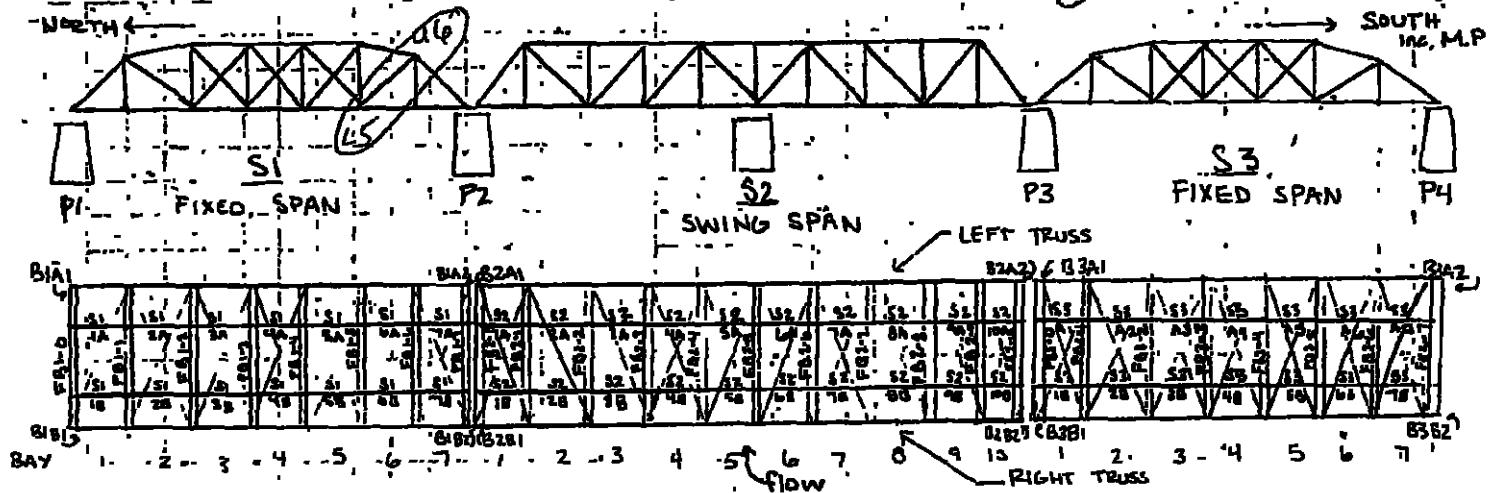
Location:

Span 2 3

Truss L R

Member TC BC MC

Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L5		U6	
NBI Rating:	5	5	5	
Condition Rating:	4	4	4	
Material Loss (%):	5	5	5	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

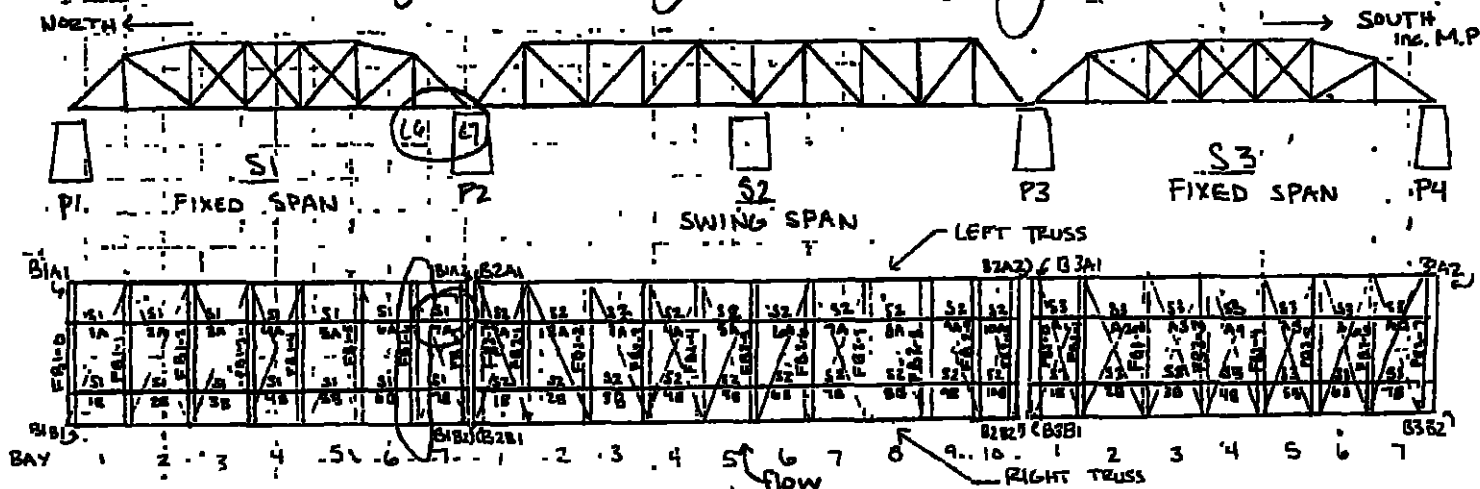
FOR Oregon Rail Assessments

INSPECTED BY Jm/RL

DATE 7/13/08

WEATHER 70S

Location: Span 1 2 3 Truss L R Member TC / BC MC Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks: 5
	L6		L7	
NBI Rating:	6	6	5	
Condition Rating:	4	4	5	
Material Loss (%):	5	5	10	

Cross Brace:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Floor Beam: F61-G			
NBI: 4	Condition: 5	Material Loss (%):	
Remarks:			

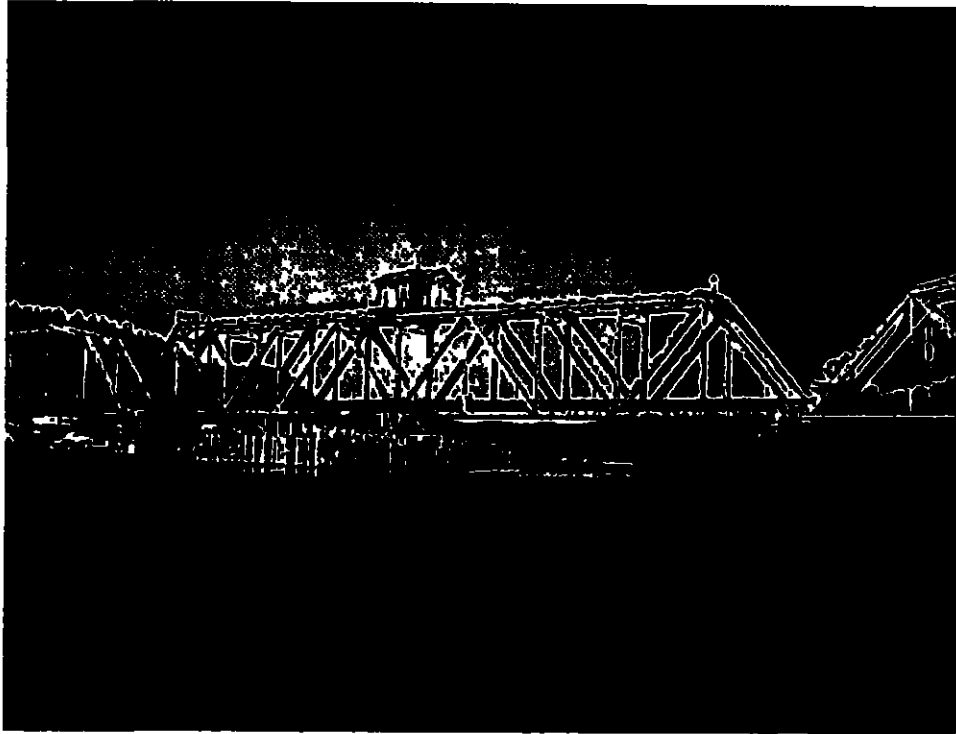
Stringer: S1-7A			
NBI: 4	Condition: 5	Material Loss (%):	
Remarks:			

Upper Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Lower Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

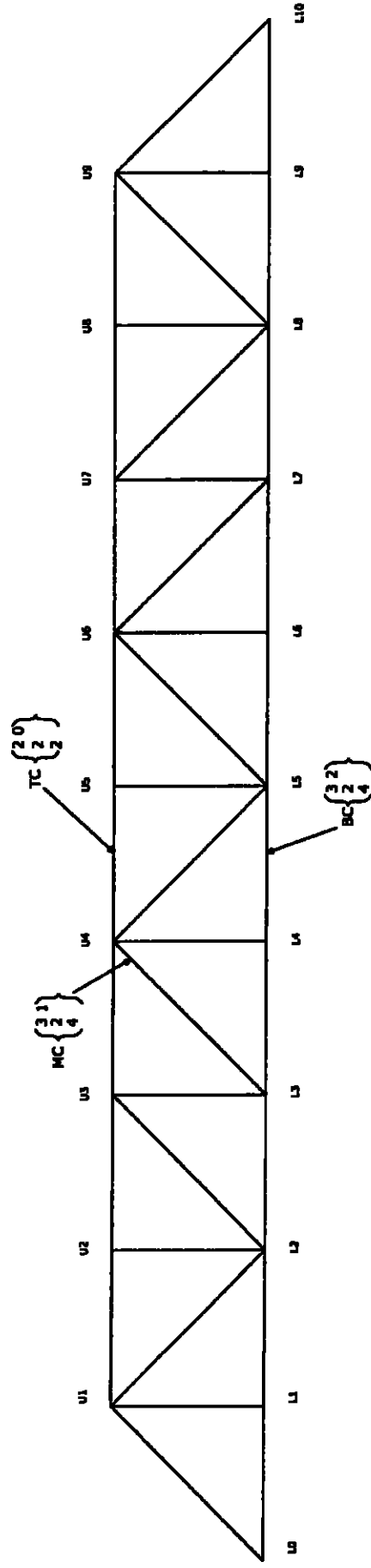
General Comments/Recommendations:

SPAN 2 (SWING SPAN)



RIGHT SPAN 2

NBI Rating { AVERAGE
LOW HIGH }



Legend:

- TC Top Chord
- MC Middle Chord
- BC Bottom Chord
- UP Upper Pin
- LP Lower Pin



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

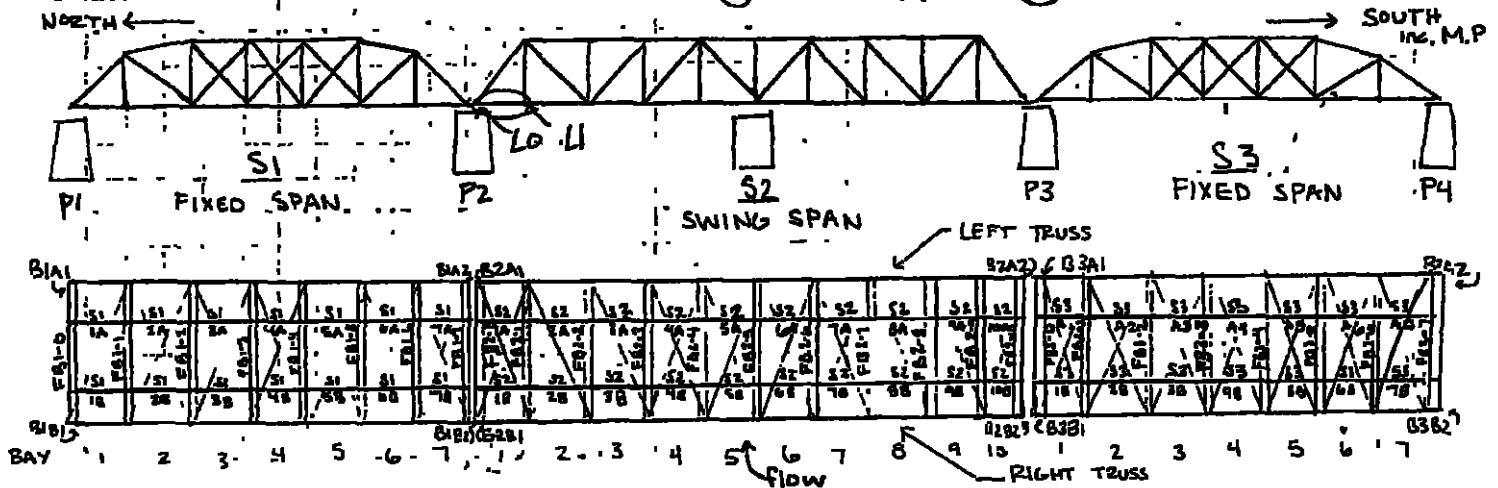
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/01

WEATHER S 60F

Location: Span 1: (2) 3 Truss L (R) Member TC (BC) MC Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L0		L1	25% of rivets - loose connection. (R) on L1
Condition Rating:	4	4	3	
Material Loss (%):	10	25	50	mechanical lifting system (back rest on coupling) 25% not waterproof - cleaning 25% element - loose fitting, 100% 40% 100% 100% L1

Cross Brace:

NBI: 3 Condition: 5 Material Loss (%): 50

Remarks: loose connection

Floor Beam: FB2-11

Note: FB2-0 on the left

NBI: 3 Condition: 5 Material Loss (%): 20

Remarks: 25% of rivets, 50% of L1 rivets. Loose connection, loose rivets

Stringer: S2-18

NBI: 3 Condition: 5 Material Loss (%):

Remarks: loose connection, rust

75%
25%
75%

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



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& ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

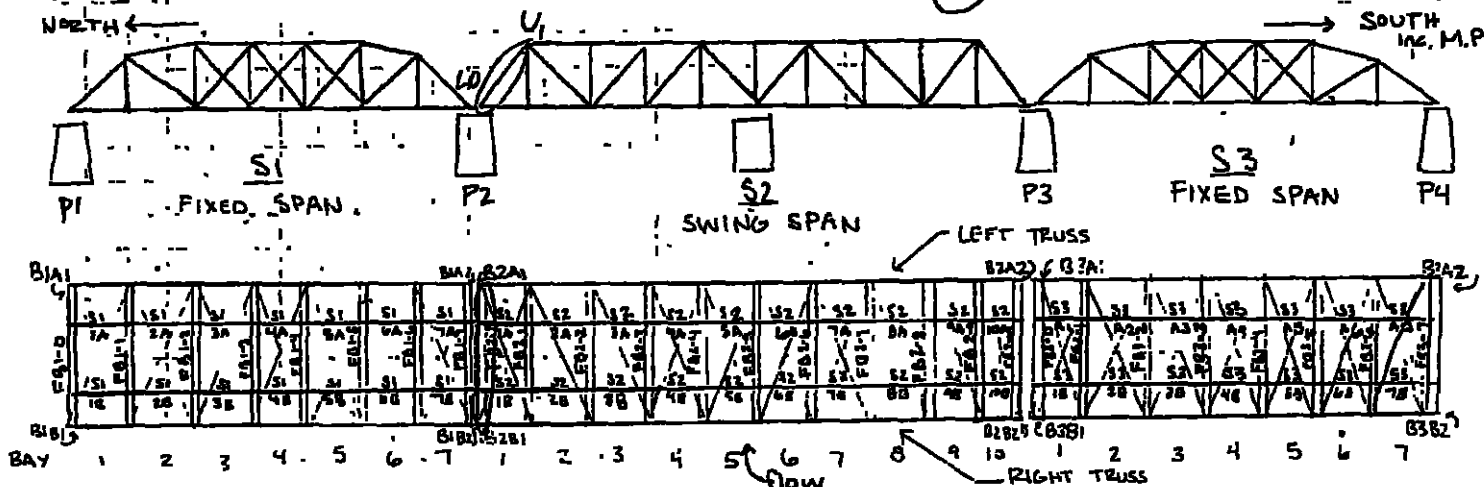
FOR Oregon Rail Assessments

INSPECTED BY AB/LL

DATE 9/14/01

WEATHER 56°F

Location: Span 1 (2) 3 Truss L (R) Member TC BC MC Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L0		U1	100% severe rust; holes
NBI Rating:	3	2	3	5% - 15%
Condition Rating:	5	5	5	
Material Loss (%):	30%	50%	10%	losing 50% girth

Cross Brace: U1 - partial

NBI: 2 Condition: 5 Material Loss (%): 75%

Remarks:

Floor Beam: FR 2-D

NBI: 4 Condition: 5 Material Loss (%): → 25% 10% 75% Mat Loss

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

see heavy

General Comments/Recommendations:

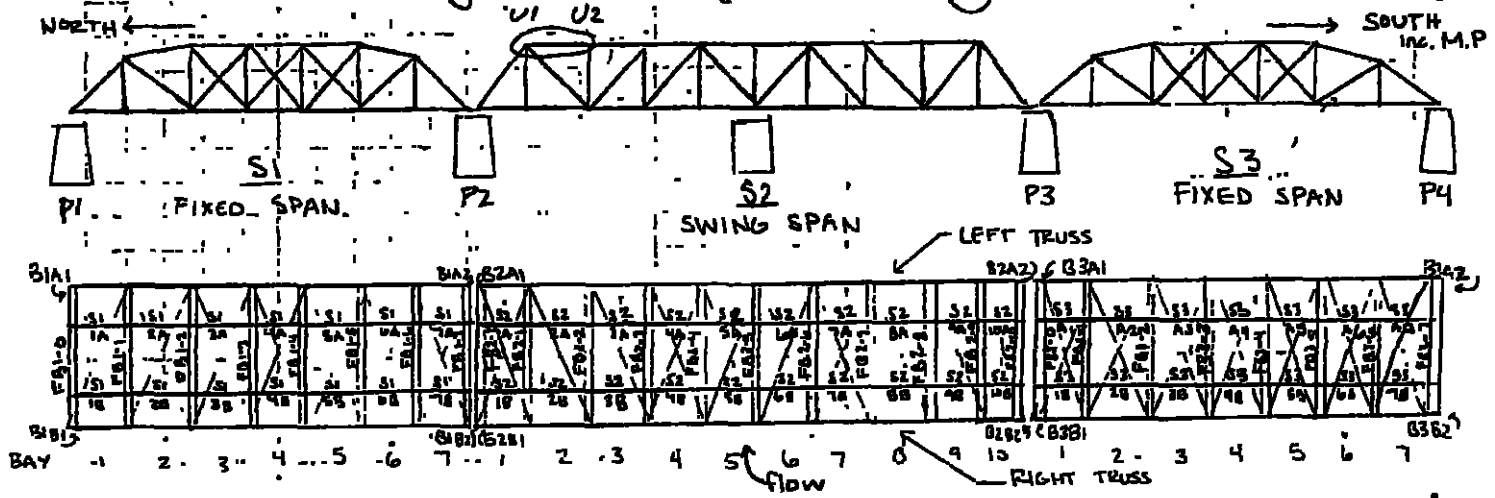


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 7/14/08
WEATHER SCSF

Location: Span 1 (2, 3) Truss L \ R Member (TC) BC MC Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U1		U2	75% 100% nearly gone on top. Ribs
NBI Rating:	3	2	3	in flanges
Condition Rating:	5	5	5	back end in connections
Material Loss (%):	25	50%	25	50% - 25%

Cross Brace: U18 - U16
NBI: 3 Condition: 4 Material Loss (%): 10%
Remarks: severe rusting and significant section loss

Floor Beam:
NBI: 3 Condition: 4 Material Loss (%): 10%
Remarks: severe rusting and significant section loss

Stringer:
NBI: 3 Condition: 4 Material Loss (%): 10%
Remarks: severe rusting and significant section loss

Upper Pin:
NBI: 3 Condition: 4 Material Loss (%): 10%
Remarks: severe rusting and significant section loss

Lower Pin:
NBI: 3 Condition: 4 Material Loss (%): 10%
Remarks: severe rusting and significant section loss

General Comments/Recommendations:
* U1 and U2 Member typical for entire span



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

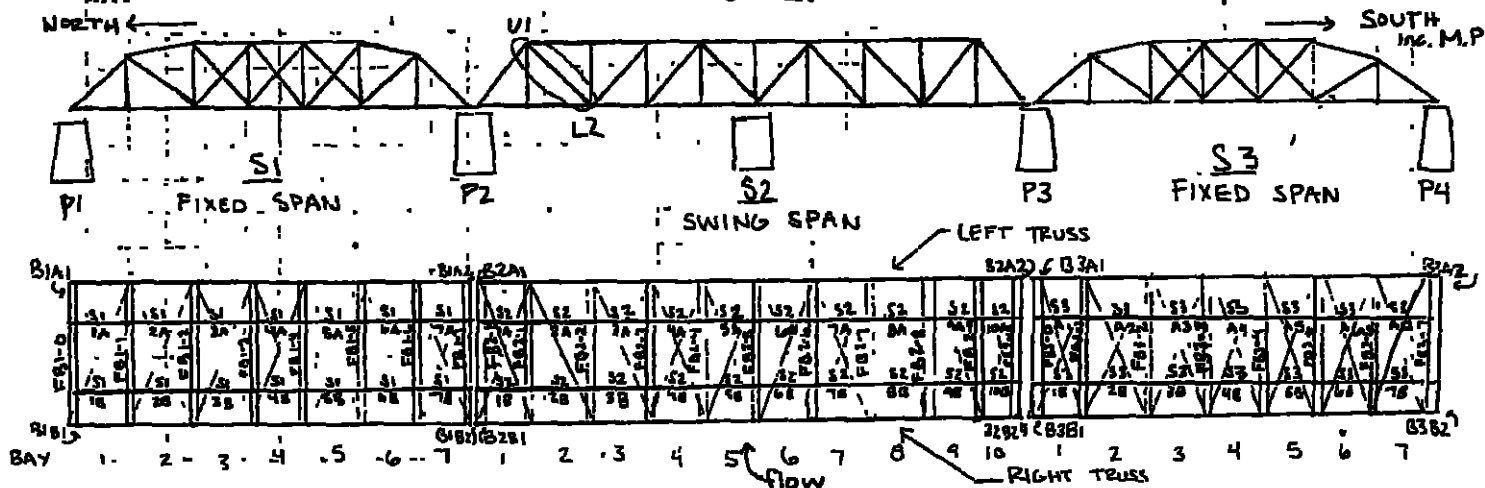
FOR Oregon Rail Assessments

INSPECTED BY EL

DATE 9/14/08

WEATHER SGSF

Location: Span 1 (3) 3 Truss L (R) Member TC BC (MC) Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U1		L2	10% <i>lacking rivets, one of</i>
NBI Rating:	3	3	3	71 50%
Condition Rating:	5	5	5	11 50% <i>joint shows significant deterioration</i>
Material Loss (%):	25	20	25	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



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AND ASSOCIATES INC.

INSPECTED BY AB/TW

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

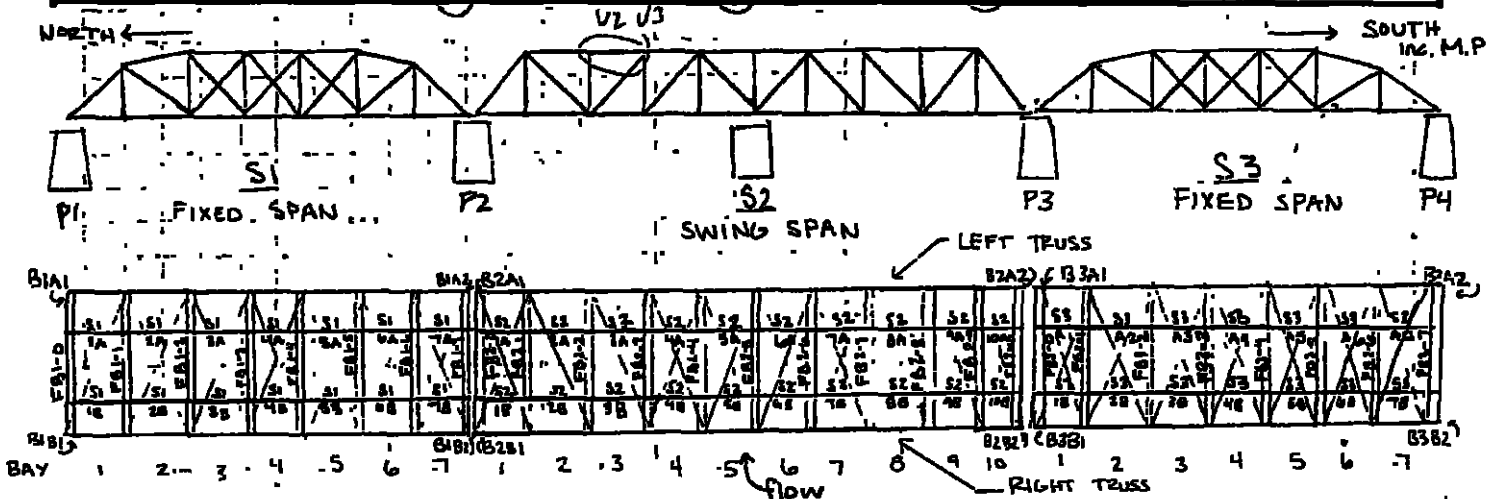
DATE 9/14/08

Cushman, OR - Siuslaw River

WEATHER SGSF

FOR Oregon Rail Assessments

Location: Span 1 (2) 3 Truss L (R) Member (TC) BC MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U2	U2	U3	U3	100% top flange noted
Rating:	3	2	3	50% 100% 50% top plate reinforcement
Condition Rating:	5	5	5	TOP CHORD
Material Loss (%):	25	picture	25	50% 50% severe section loss

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: as previously noted

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



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ASSOCIATES

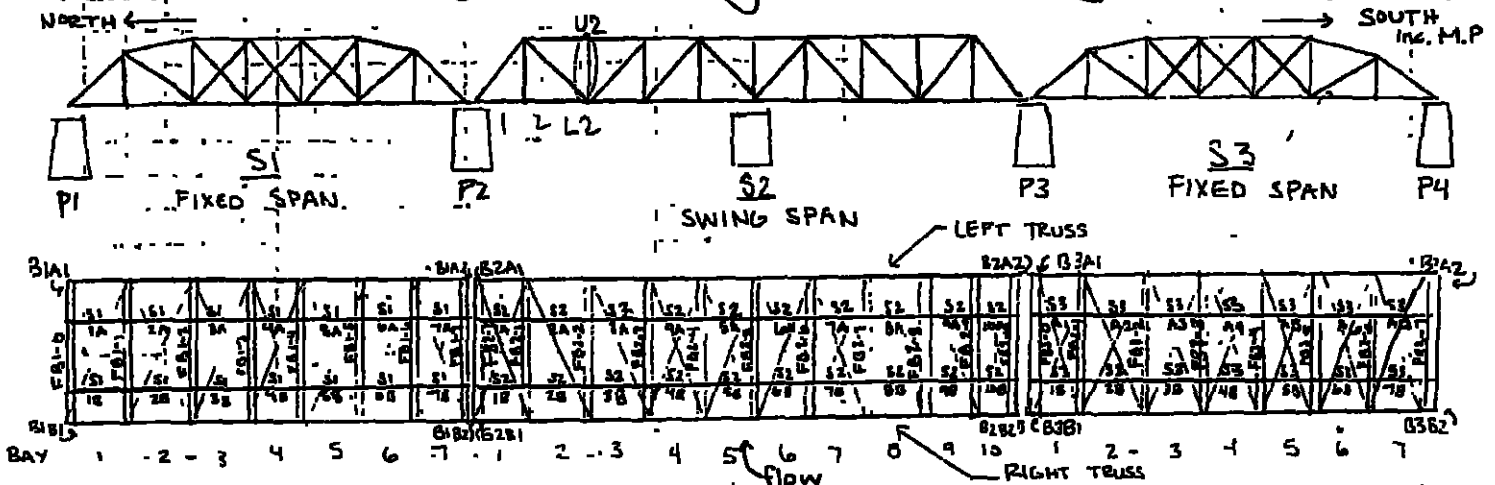
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY RL/AB

DATE 9/14/08

WEATHER SGF

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 2/3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	V2		12	
NBI Rating:	3	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	25	50	50	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES

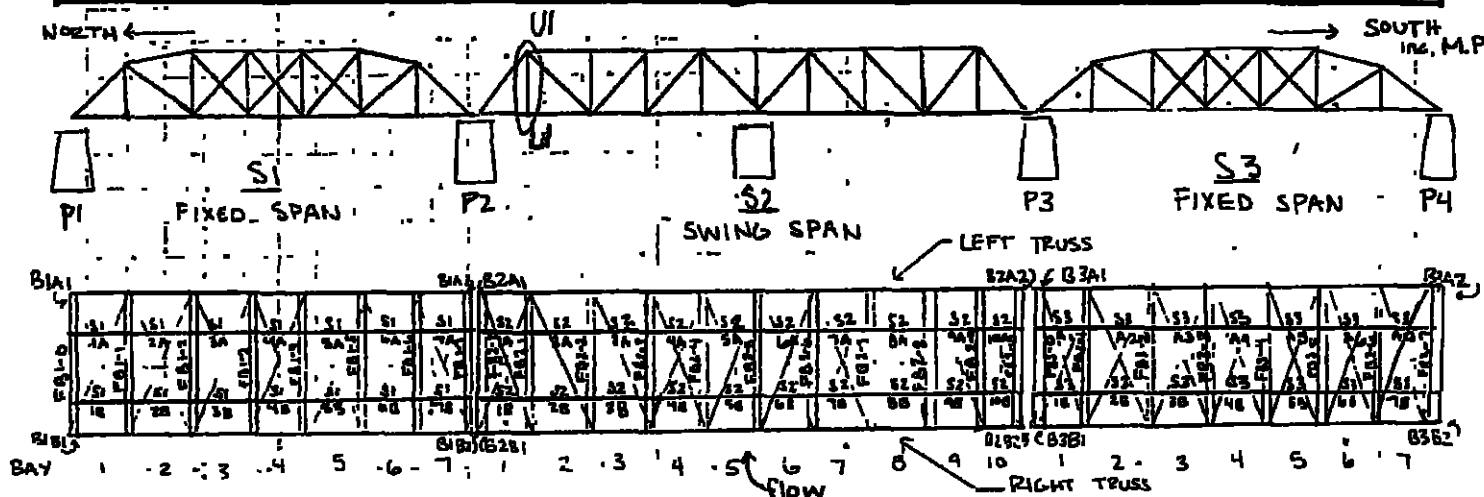
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Sluslaw River
FOR Oregon Rail Assessments

INSPECTED BY AR/RL

DATE 9/14/08

WEATHER SLSF

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: 1/2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U1		L1	
AI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	→	50	

← back rail of joint L1

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations: _____



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

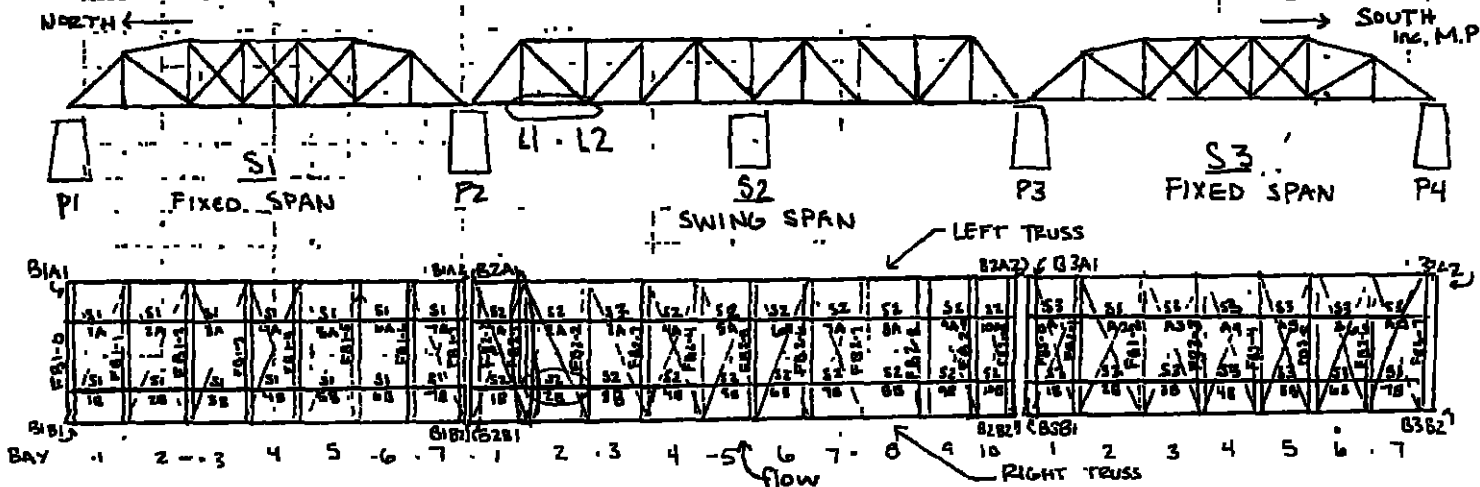
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 7/14/08

WEATHER SSSF

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L1		L2	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	15	⇒	30	

Cross Brace: 2 Condition: 5 Material Loss (%): 40
Remarks: Ref. to LALL

Floor Beam: FB2
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: rated on LALL sheet

Stringer: 21B
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: 75% 15%

Upper Pin: 21B
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: 75% 15%

Lower Pin: 21B
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: 75% 15%

General Comments/Recommendations:

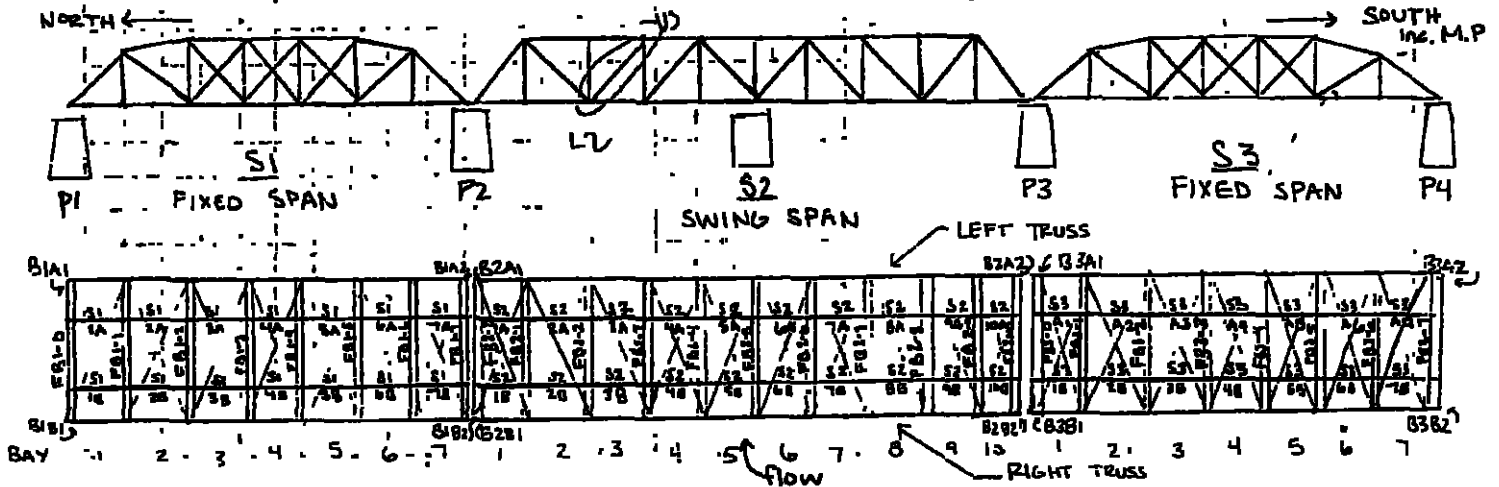


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AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Stuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/08
WEATHER W 65 F

Location: Span 1 (2) 3 Truss L (R) Member TC BC MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L2		U3	heavy rusty inflection
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	severe corrosion and pitting, fast rivets and connections
Material Loss (%):	25	50	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AN ASSOCIATES

INSPECTED BY AG/RL

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

DATE 9/14/08

Cushman, OR - Siuslaw River

WEATHER W 65F

FOR Oregon Rail Assessments

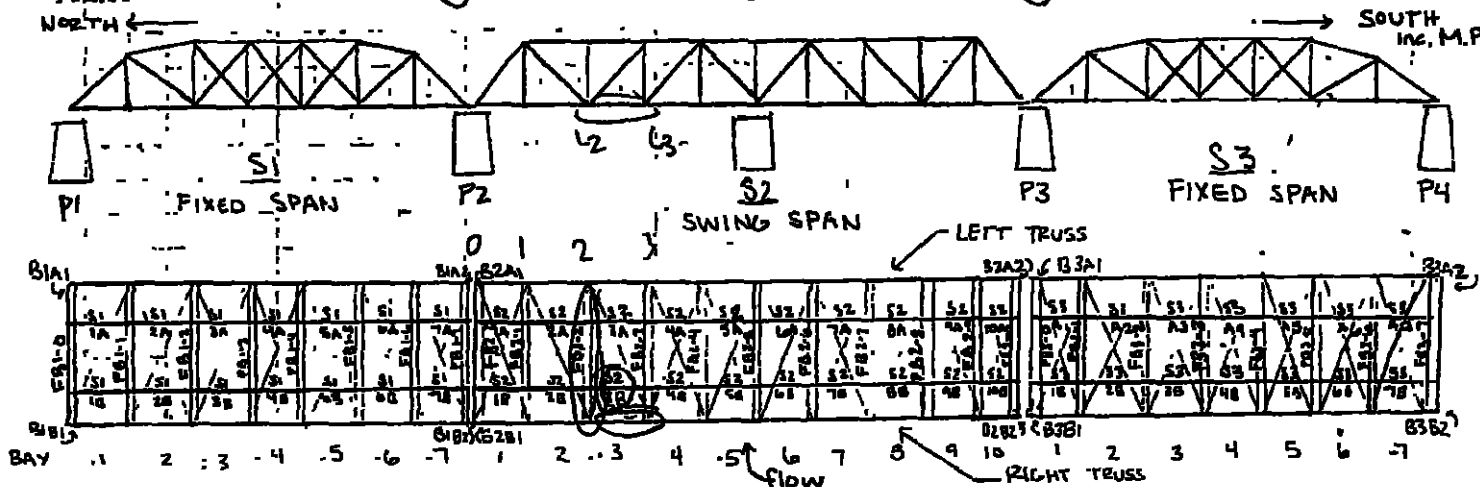
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L2		L3	
NBI Rating:	3	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	40	=	25	

L2 - note 50% severe pitting and fresh rust

Cross Brace:

NBI: 5 Condition: 3 Material Loss (%): 5

Remarks:

Floor Beam: Fe2-2

NBI: 3 Condition: 5 Material Loss (%): 25

Remarks: fresh rust along connection, limited rust

Stringer: S2-38

NBI: 4 Condition: 5 Material Loss (%): =

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

DAVID EVANS
ASSOCIATES INC.

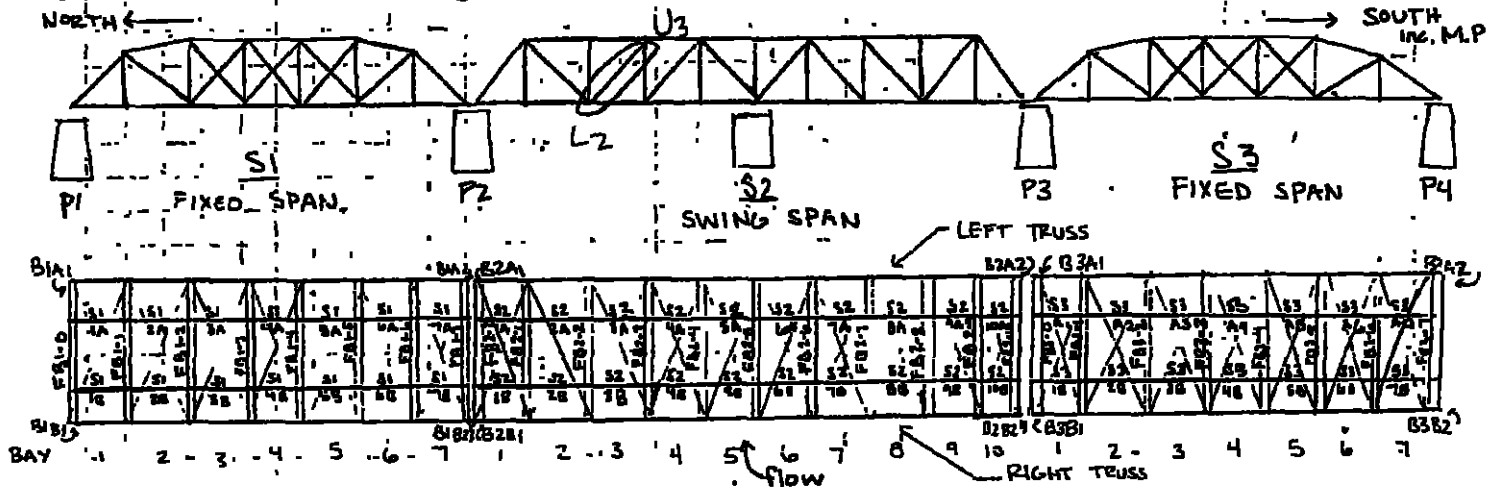
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR -Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AE/KC

DATE 9/14/69

WEATHER W/6SF

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L2		U3	
ABI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50	50	28	

Gross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin: _____
 NBI: _____ Condition: _____ Maternal Loss (%): _____

Remarks:

General Comments/Recommendations:



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AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

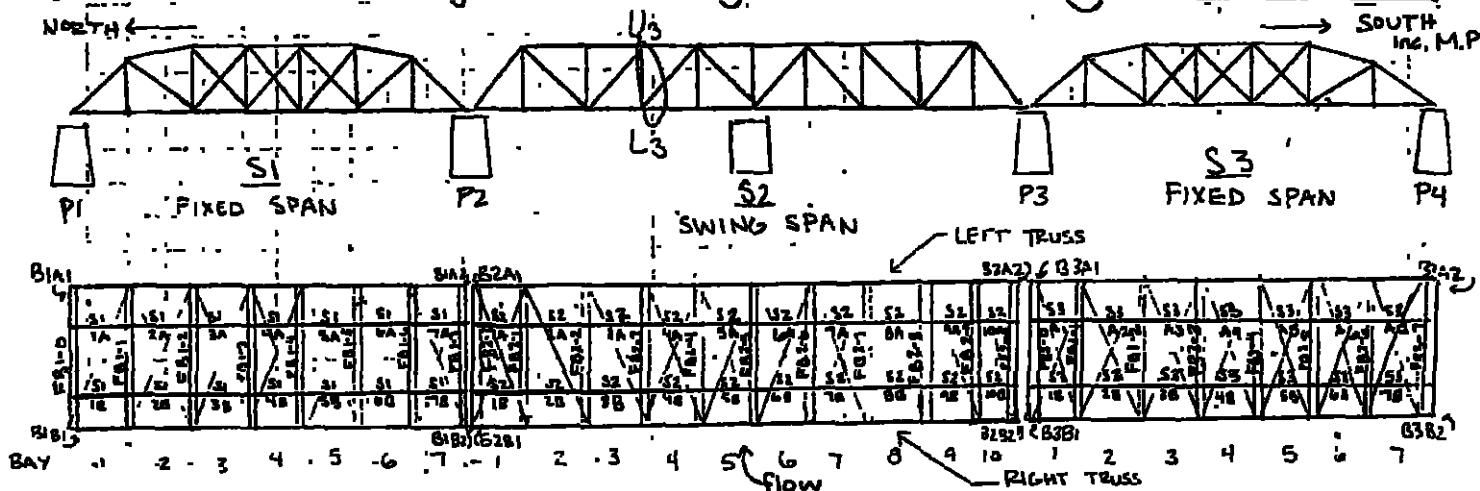
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER V663F

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: 3/4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L3		U3	SLAKE PLATE
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	70	20	25	

Gross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

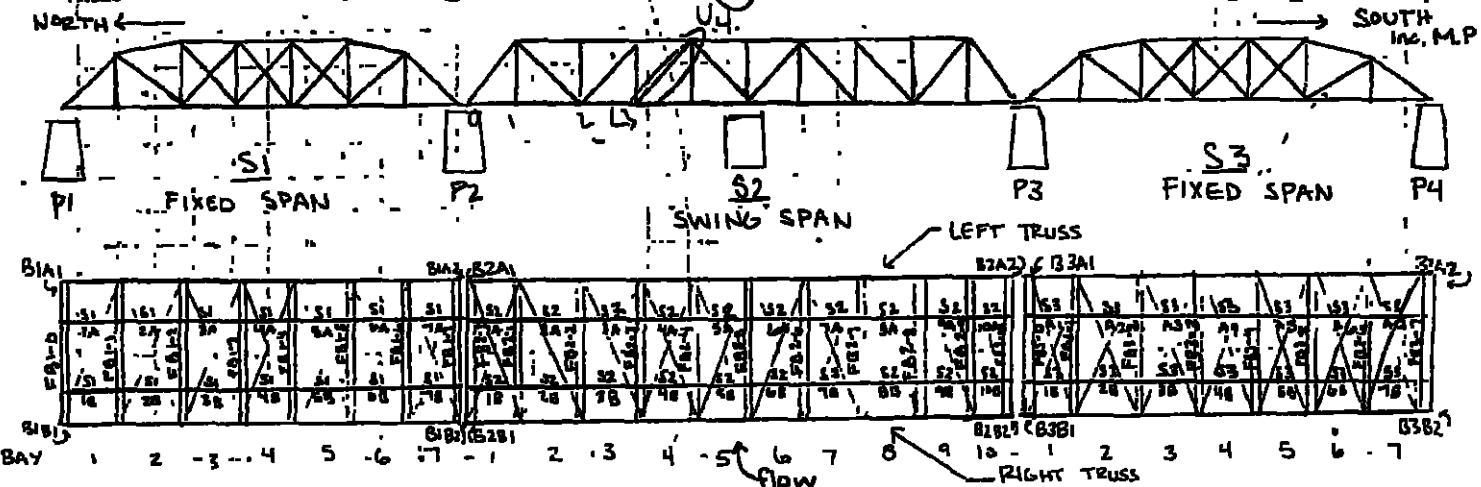


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AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/EL
DATE 9/14/08
WEATHER W/65F

Location: Span 1 (2) 3 Truss L R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3		U4	partial web shear
Condition Rating:	3	3	3	
Material Loss (%):	30	20	25	heavy ineffective

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

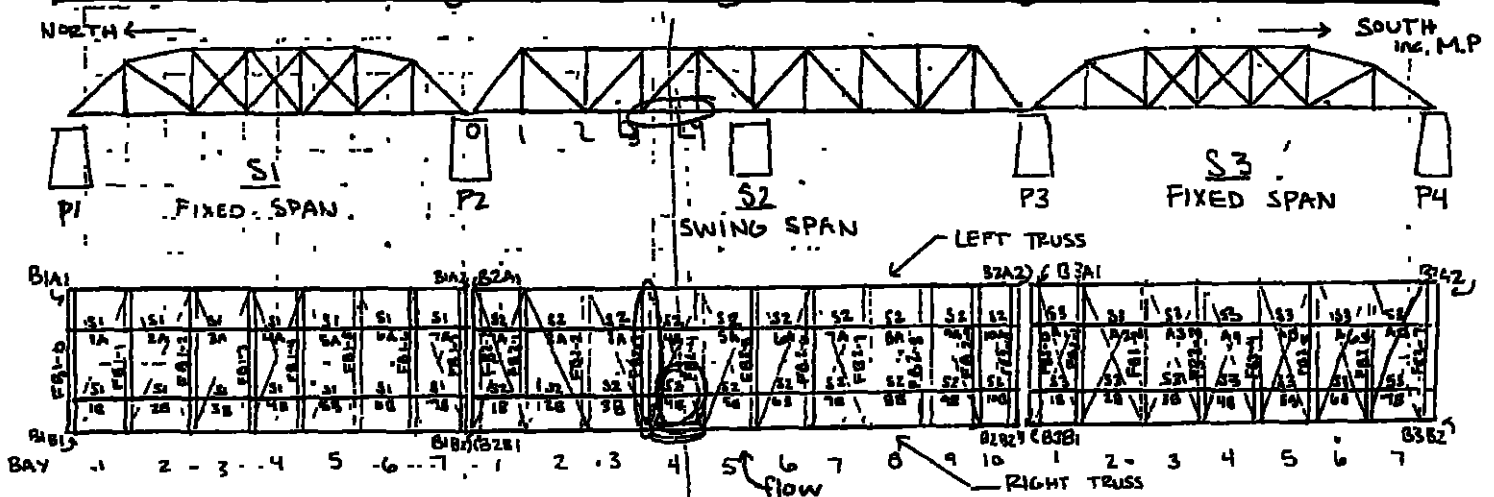


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/EL
DATE 9/14/04
WEATHER W/65F

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L3		L4	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	30	30	40	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: F82-3
NBI: 3 Condition: 5 Material Loss (%): →
Remarks: _____

Stringer: S24B
NBI: 3 Condition: 5 Material Loss (%): ~
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

INSPECTED BY AB/RL

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

DATE 9/14/08

Cushman, OR - Siuslaw River

WEATHER W/65F

FOR Oregon Rail Assessments

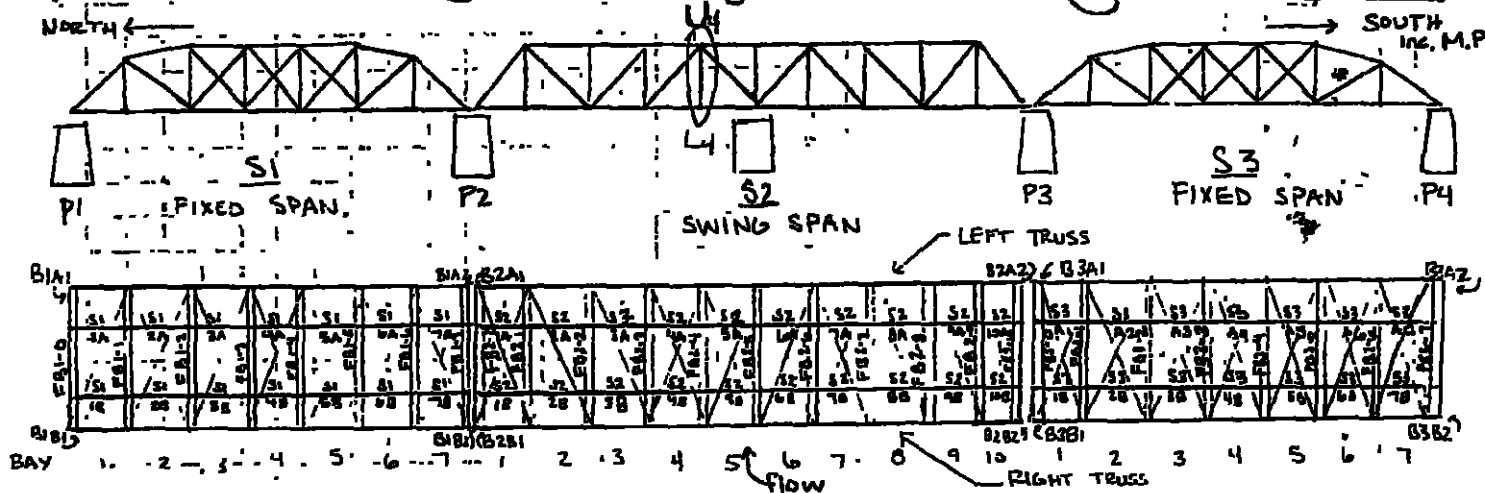
Location:

Span 1 2 3

Truss L (R)

Member TC BC (MC)

Bay: 4/5



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L4		U4	
SI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50	30	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

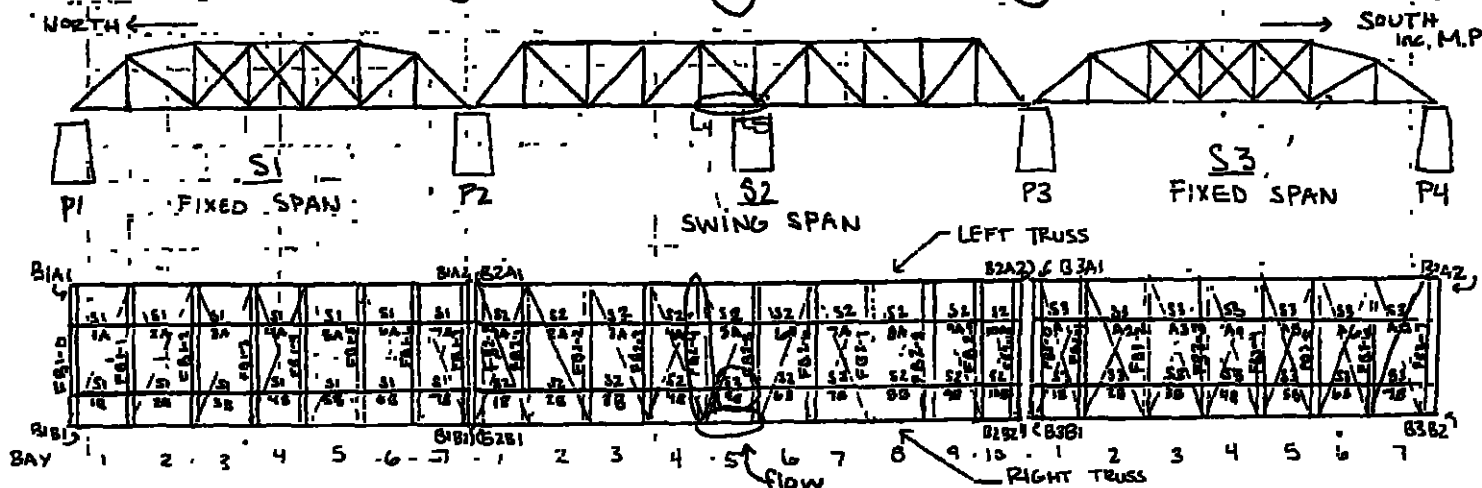


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/09
WEATHER W6SE

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:	% Gusset Plate
	L4		L5	fixed joint	no holes deep pitting, inventory
NBI Rating:	3	3	3		all elements
Condition Rating:	5	5	5		
Material Loss (%):	40	30	30*		

Cross Brace:

NBI: Condition: Material Loss (%): 15

Floor Beam: F82-4

NBI: 4 Condition: 5 Material Loss (%): 25

Stringer: S2.5B

NBI: 3 Condition: 5 Material Loss (%):

Upper Pin:

NBI: Condition: Material Loss (%):

Lower Pin:

NBI: Condition: Material Loss (%):

General Comments/Recommendations:

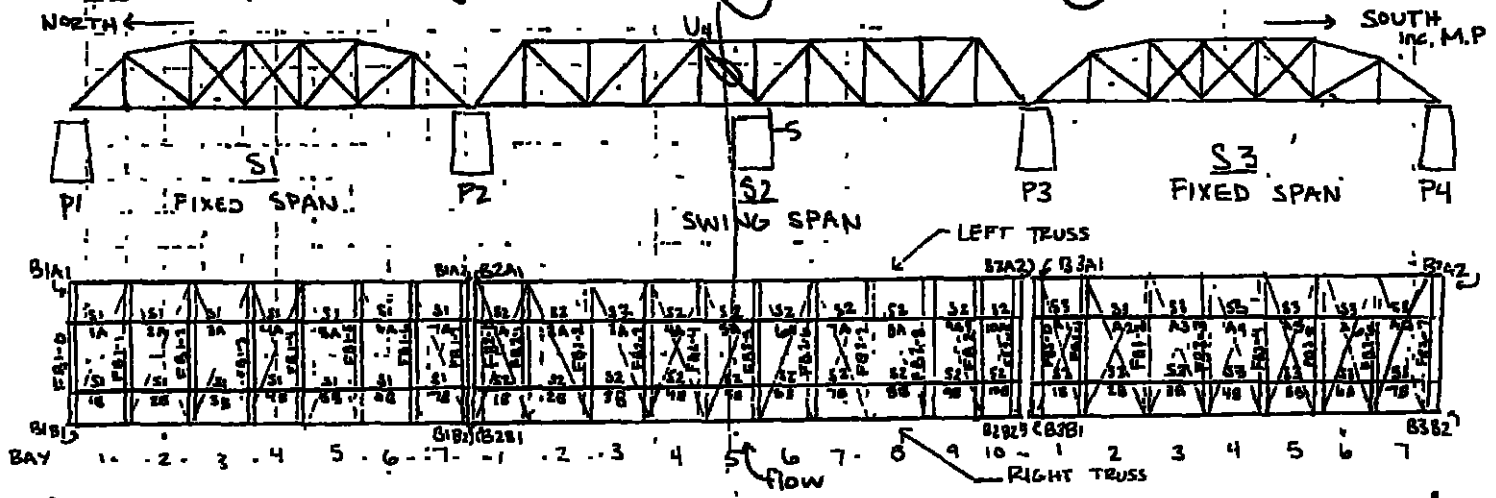


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 09/14/08
WEATHER 10/65F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: S



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U4		L5	
NBI Rating:	2	3	2	
Condition Rating:	5	5	5	
Material Loss (%):	25	30	30	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

INSPECTED BY AR/RL

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

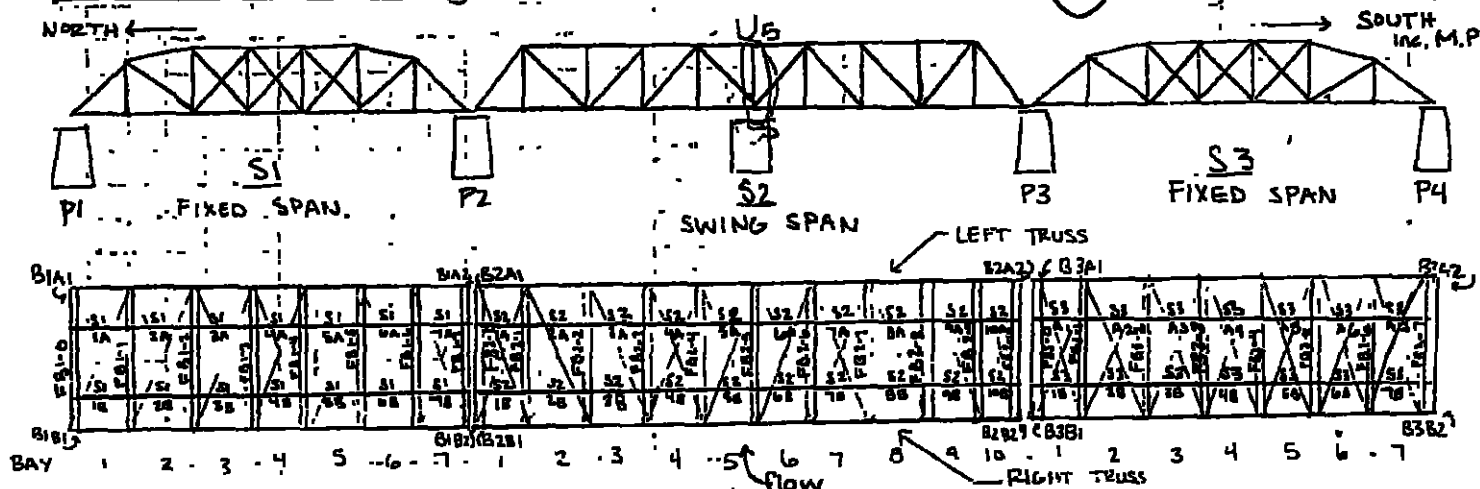
DATE 9/14/03

Cushman, OR - Siuslaw River

WEATHER W/65F

FOR Oregon Rail Assessments

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: S/6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L5		U5	<i>loose ineffective</i>
NBI Rating:	3	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	10	20	25	<i>rust and pitting</i>

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/EL

DATE 9/14/09

WEATHER U6 65%

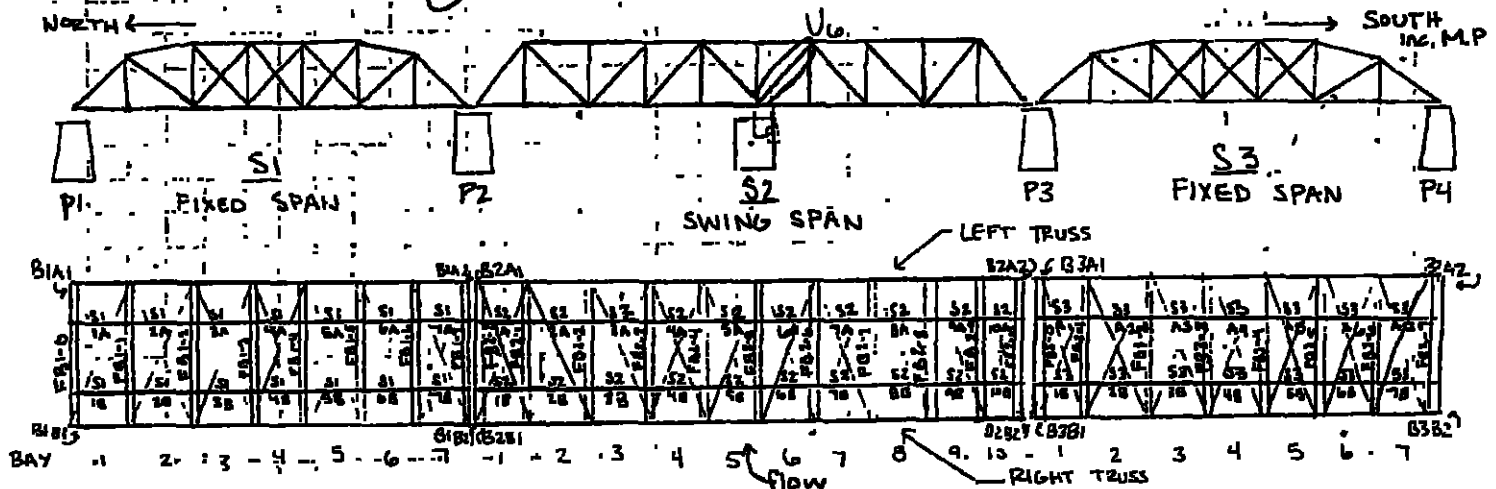
Location:

Span 1 (2) 3

Truss L (R)

Member TC BC (MC)

Bay: 6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L5		U6	Heavy pitting on flanges
Condition Rating:	3	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	20	20	25	60%

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

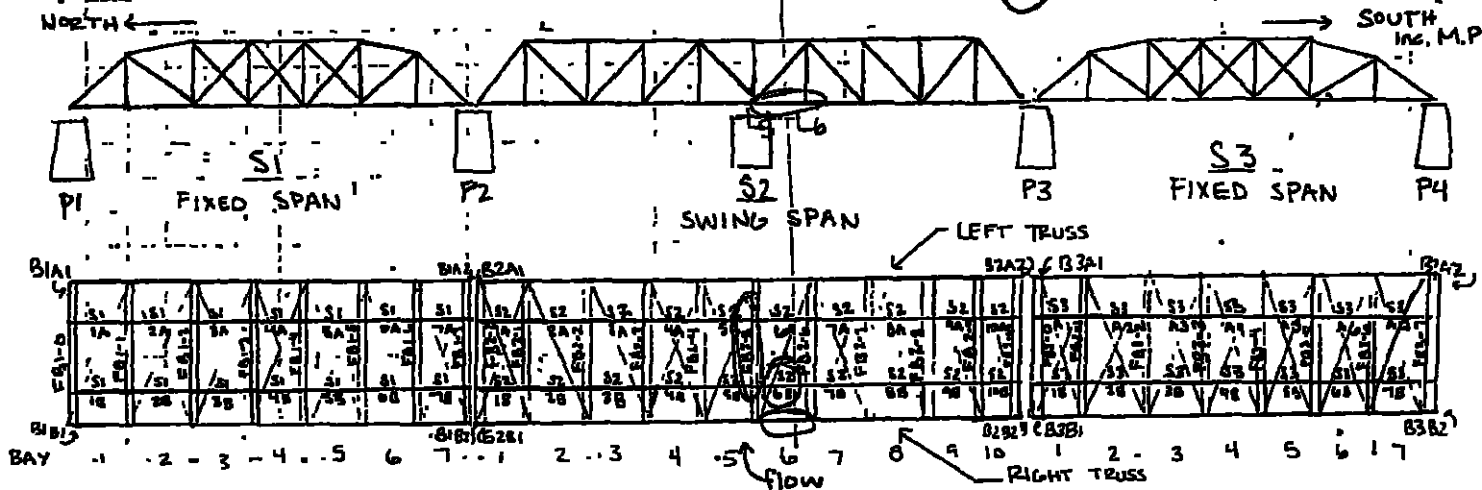
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/09

WEATHER W/65F

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L5		L6	
NBI Rating:	4	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	20%	20%	50	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: F82-3

NBI: 4 Condition: 5 Material Loss (%): 10

Remarks:

Stringer: G265

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

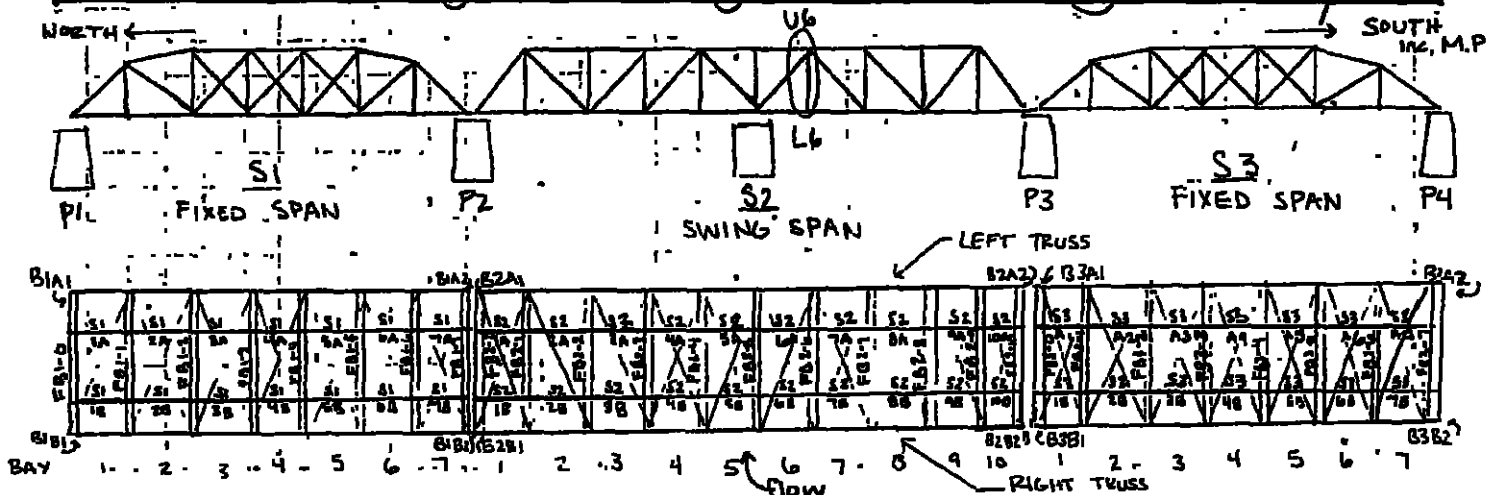
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER W65F

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: 6/7



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L6		U6	
Condition Rating:	3	4	3	
Material Loss (%):	40	15	25	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOC ATFS INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

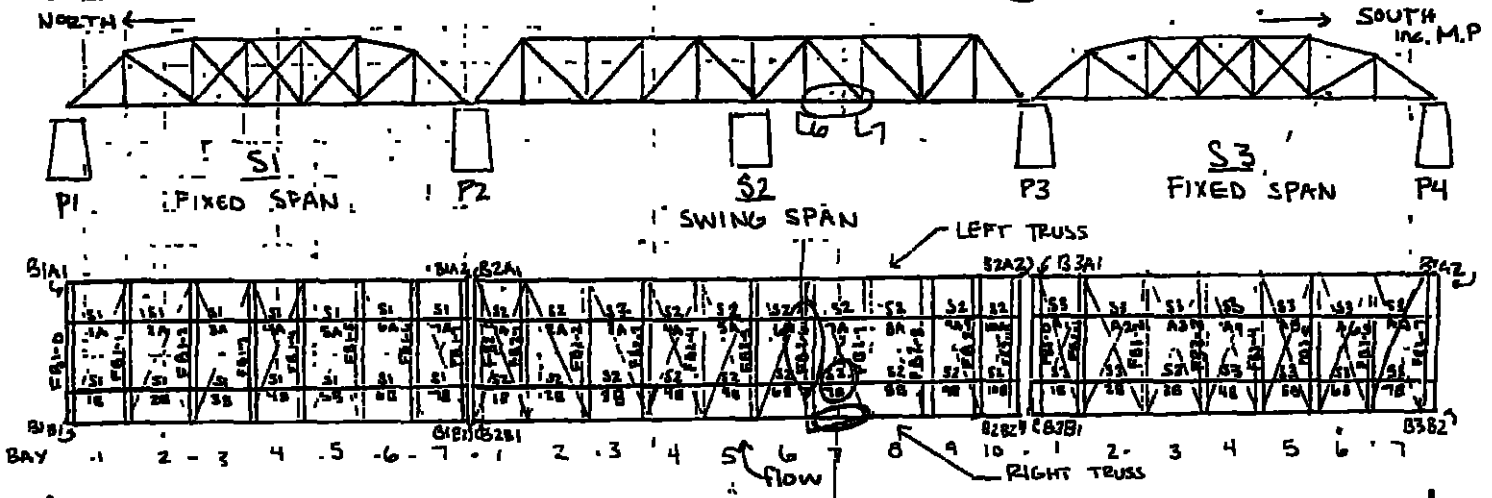
FOR Oregon Rail Assessments

INSPECTED BY AB/EL

DATE 9/14/08

WEATHER W/69F

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L6		L7	
NBI Rating:	3	3	4	
Condition Rating:	5	5	4	
Material Loss (%):	40	=>	10	

Cross Brace:

NBI: Condition: Material Loss (%):

Floor Beam: FB2-6

NBI: 3 Condition: 5 Material Loss (%):

severe. full nut & washer connection

Stringer: G27B

NBI: 3 Condition: 5 Material Loss (%): ->

50 20 50

Upper Pin:

NBI: Condition: Material Loss (%):

Lower Pin:

NBI: Condition: Material Loss (%):

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

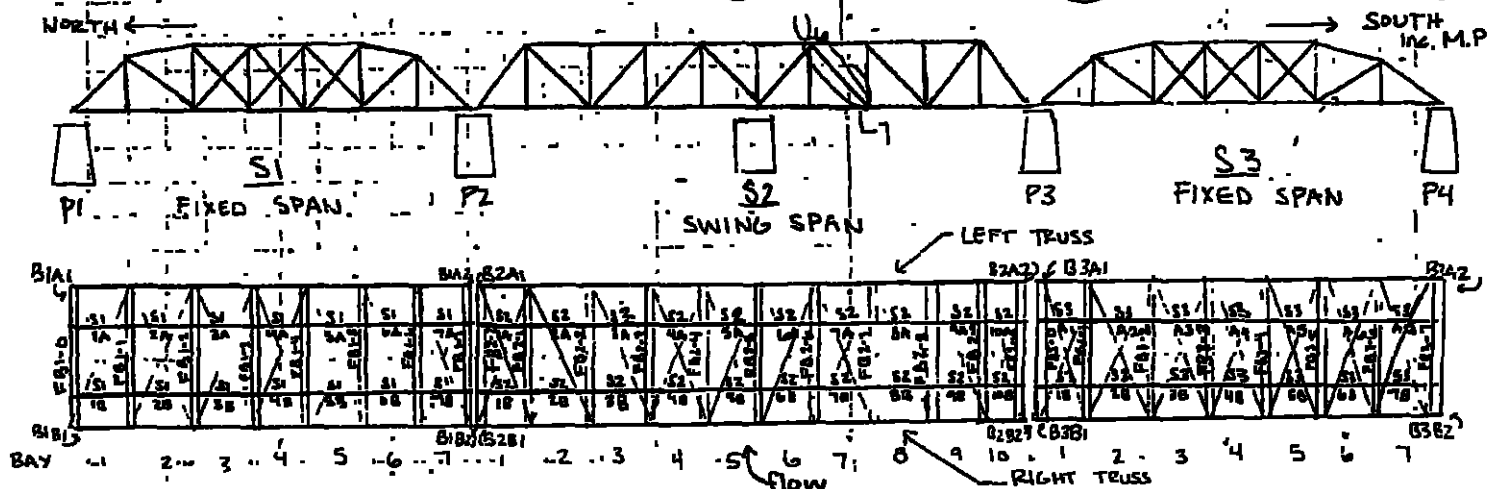
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 1/14/06

WEATHER W/65F

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: 7



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U6		L7	same pitting on inside rivet, lacing
NBI Rating:	3	4	3	
Condition Rating:	6	4	5	ineffective, some rivets rusted, few rivets in
Material Loss (%):	75	10	15	connection gone

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

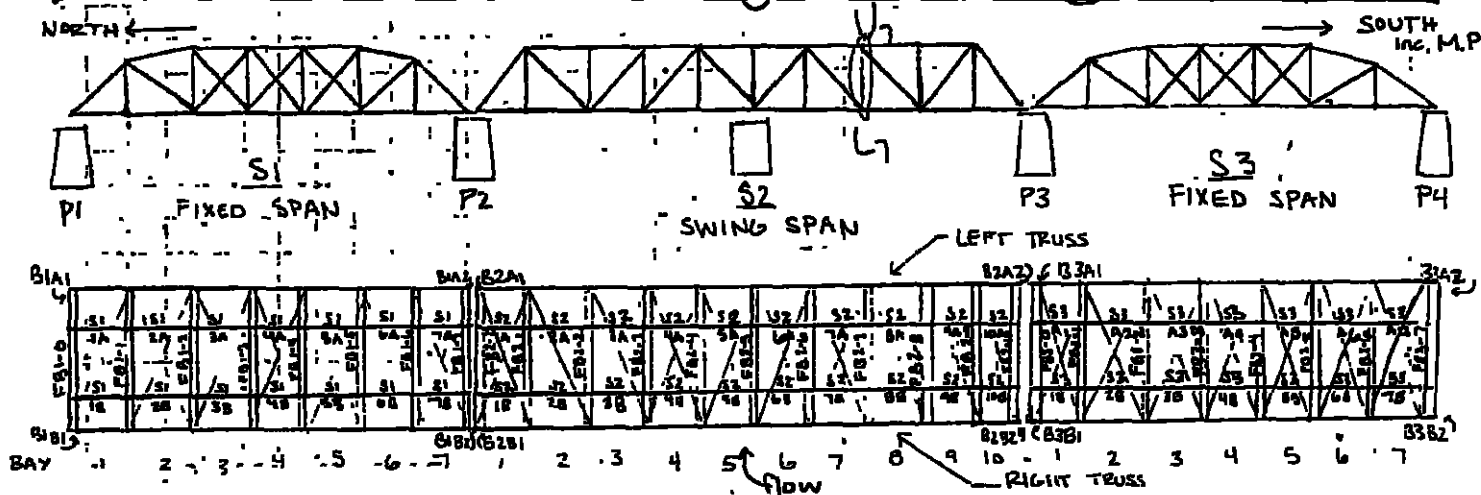
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER 56SE

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 7/8



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L7		U7	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50	20	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

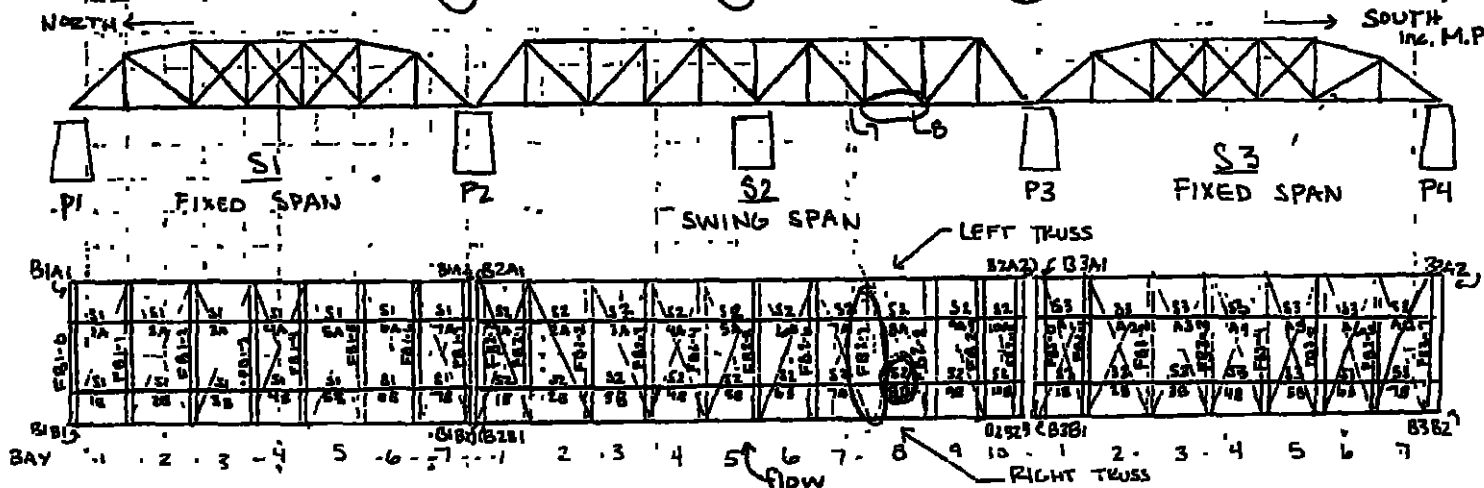
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER SLSF

Location: Span 1 (2) 3 Truss L (R) Member TC (BC) MC Bay: 8



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L7		L8	
NBI Rating:	3	4	3	
Condition Rating:	5	4	5	
Material Loss (%):	50	10	40	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: PR 2-7
NBI: 3 Condition: 5 Material Loss (%): _____
Remarks: _____

Stringer: S280
NBI: 3 Condition: 5 Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

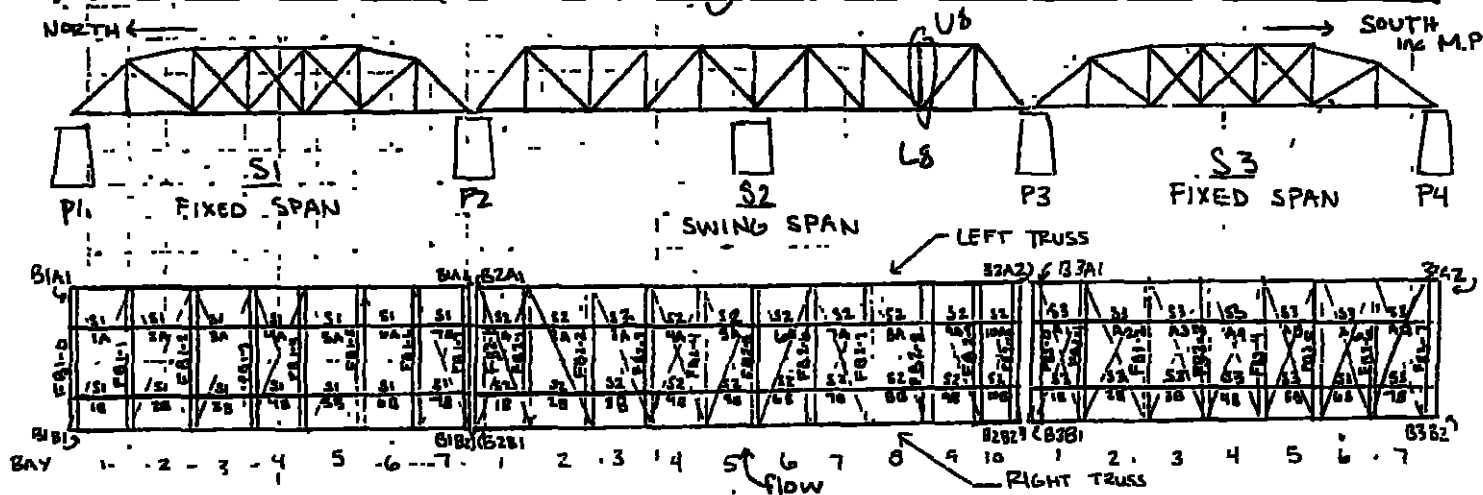
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/09

WEATHER W65F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L8		U8	15 moderate heavy pitting, racing
NBI Rating:	3	4	3	
Condition Rating:	5	5	5	15 ineffective
Material Loss (%):	20	15	25	

Cross-Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

General Comments/Recommendations:

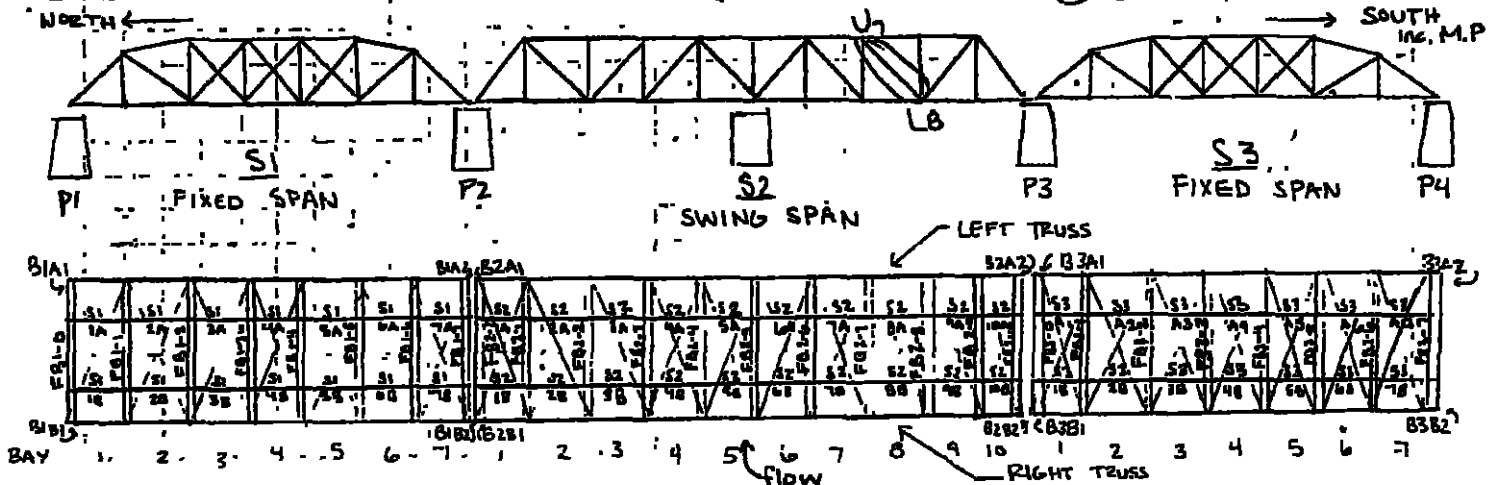


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/03
WEATHER W/65F

Location: Span 1 (2) 3 Truss L (R) Member TC BC MC Bay: 8



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U7	U7	L8	L8	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	50	50	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

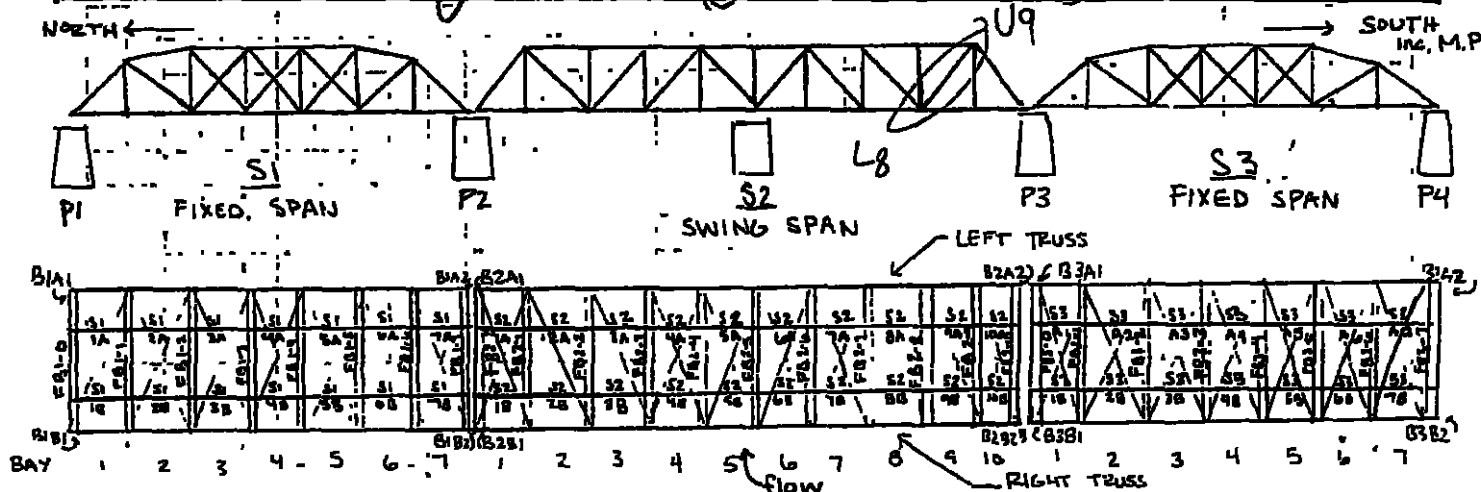
FOR Oregon Rail Assessments

INSPECTED BY AB/AL

DATE 9/14/08

WEATHER GGSF

Location: Span 1 (2) 3 Truss L (R) Member TC BC (MC) Bay: 9



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L8		U9	holes in flange, being gone
NBI Rating:	3	2	3	
Condition Rating:	5	5	5	many nuts missing @ connection
Material Loss (%):	60	60	25	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Stuslaw River

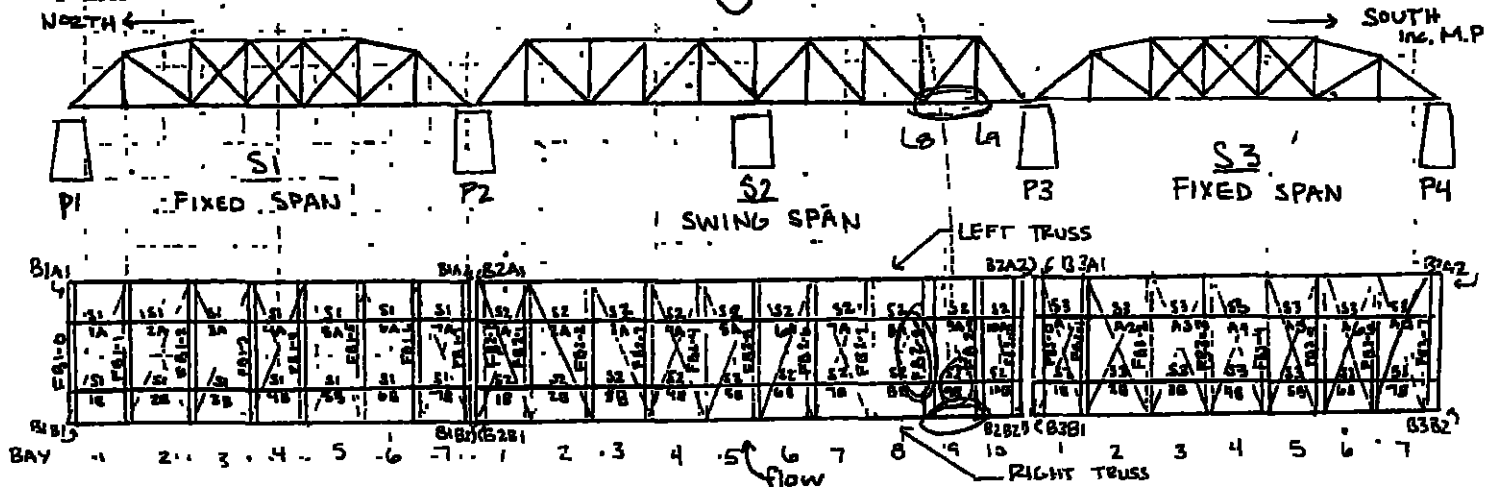
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER 66SW

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
LB	L8	L9	L9	100% flange (top) gird
BI Rating:	3	2	3	
Condition Rating:	5	5	5	
Material Loss (%):	50	50	50	30 - severe section loss @ joint.

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam: FB 2-A
NBI: 3 Condition: 5 Material Loss (%): 75% moderate foot rot
Remarks:

Stringer: B27B
NBI: 2 Condition: 5 Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:

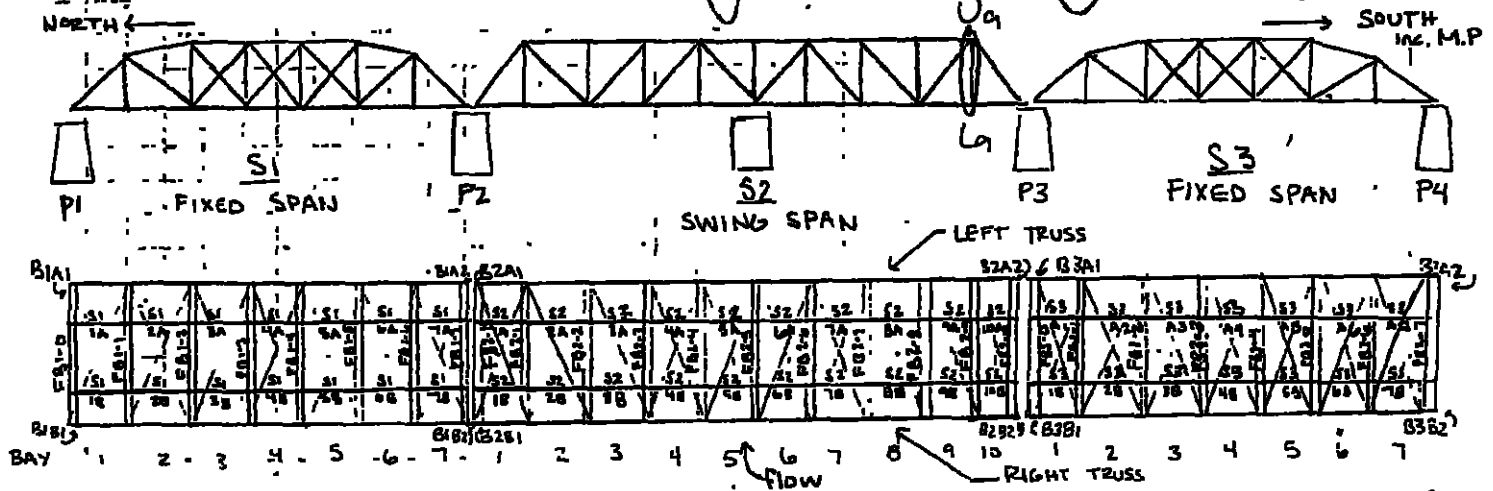


DAVID EVANS
ASSOCIATES

INSPECTED BY AB/EL
DATE 9/14/08
WEATHER 86°F

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

Location: Span 1 3 Truss L R Member TC BC MC Bay: 9/10



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L9		U9	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50	50	25	

Cross Brace: FR 2-9
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks:

Floor Beam: FR 2-9
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks:

Stringer: FR 2-9
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks:

Upper Pin: FR 2-9
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks:

Lower Pin: FR 2-9
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER 5/5V

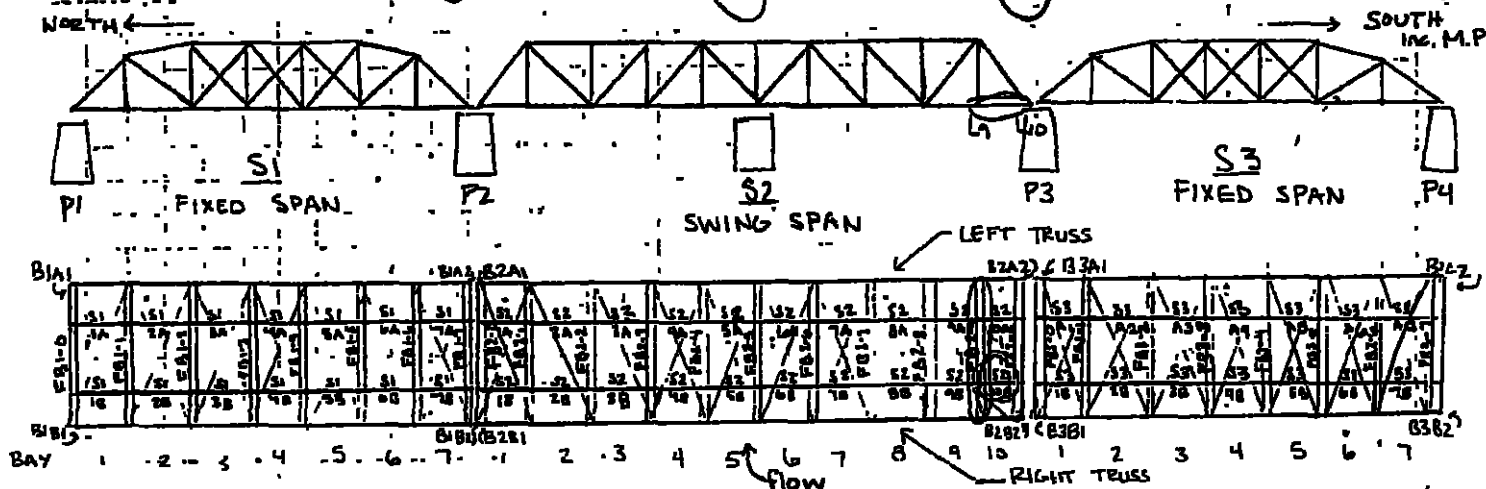
Location:

Span 1 (2) 3

Truss L (R)

Member TC (BC) MC

Bay: 10



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L9		L10	.5 - piece of full length rail on Chm
BI Rating:	32	3	3	Tracing
Condition Rating:	5	5	5	
Material Loss (%):	60	30	50	

Cross Brace:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Floor Beam:	F82-4		
NBI: 3	Condition: 5	Material Loss (%): 25	7/15 25
Remarks:			

Stringer:	52103		
NBI: 3	Condition: 5	Material Loss (%):	7/15 25
Remarks:			

Upper Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Lower Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

General Comments/Recommendations:

DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Siuslaw River

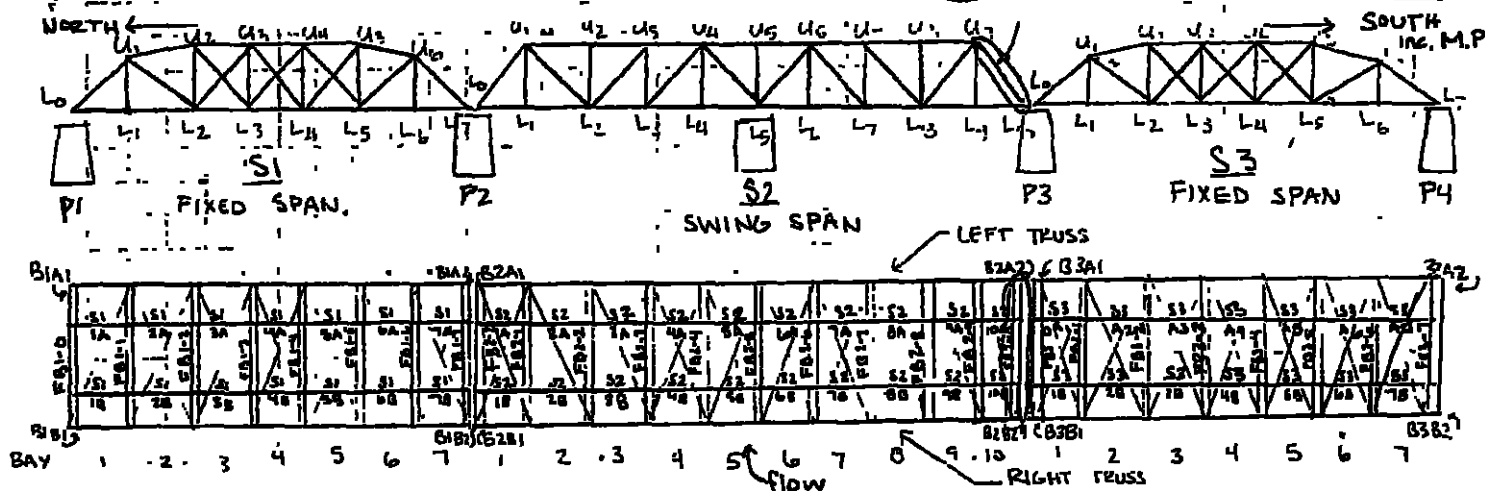
FOR Oregon Rail Assessments

INSPECTED BY TW,CK

DATE 9/14/08

WEATHER Sunny, Windy

Location: Span 1 (2) 3 Truss L (R) Member (TC) BG MC Bay: 10



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	U9		L10	Excessive Steel Loss
NBI Rating:	4	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	5%			

Cross Brace:

NBI: 2-3 Condition: 5 Material Loss (%): 50

Remarks: Heavy rain, 7:15 a.m. - 11:00 a.m.

Floor Beam: F6 2-12

NBI: 11/5 Condition: 4 Material Loss (%): 25

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: Sec L9 L10

Upper Pin:-

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: 523 03 64

Lower Pic: 412

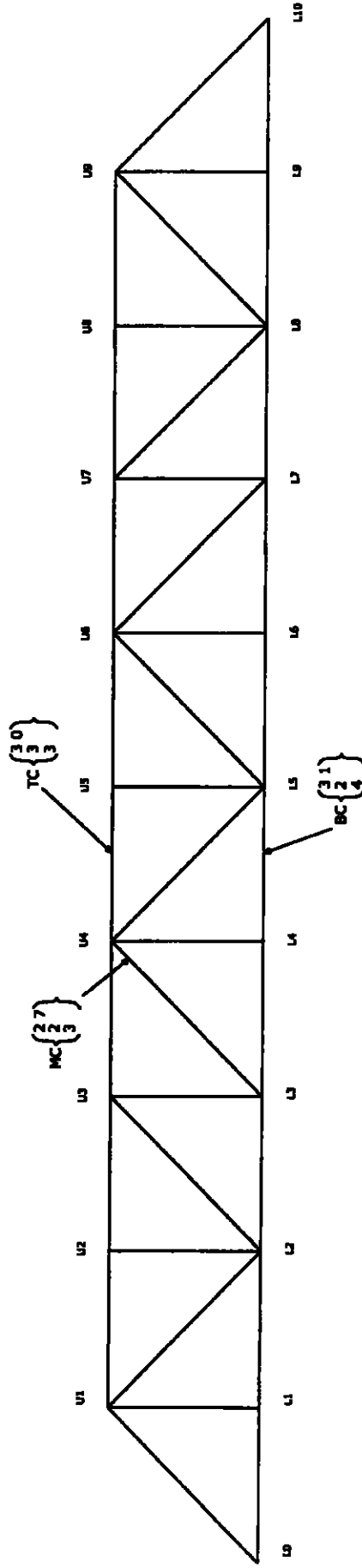
Condition: _____ Material Loss (%): _____

Remarks: \ N₂ P₁₂

General Comments/Recommendations:

LEFT SPAN 2

NBI Rating { AVERAGE
LOW HIGH }



Legend:

- TC Top Chord
- MC Middle Chord
- BC Bottom Chord
- UP Upper Pin
- LP Lower Pin



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

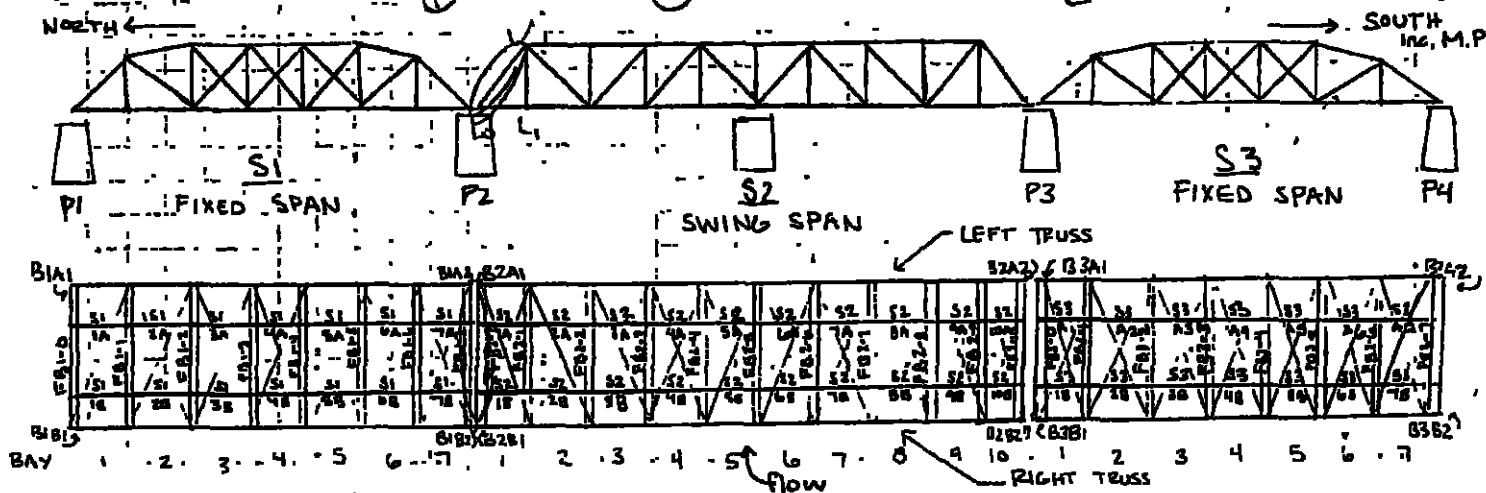
FOR Oregon Rail Assessments

INSPECTED BY JM HALL

DATE 9/14/08

WEATHER WGS

Location: Span 1/2/3 Truss (L) R Member TC BC (MC) Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L0		V1	PACK WAS SEVERE IN differential joint
NBI Rating:	3	2	2	with laminar was under top
Condition Rating:	5	5	5	Plumage upper left (left) 5% at the neck
Material Loss (%):	100%	40%		top 25% 25% at joint 10

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: FBL-0

NBI: 3 Condition: 5 Material Loss (%): 100%

Remarks: Laminar was severe near through the prime in soil 25% at joint 10

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pl:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pl:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
APR 8306 A-43 IN.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

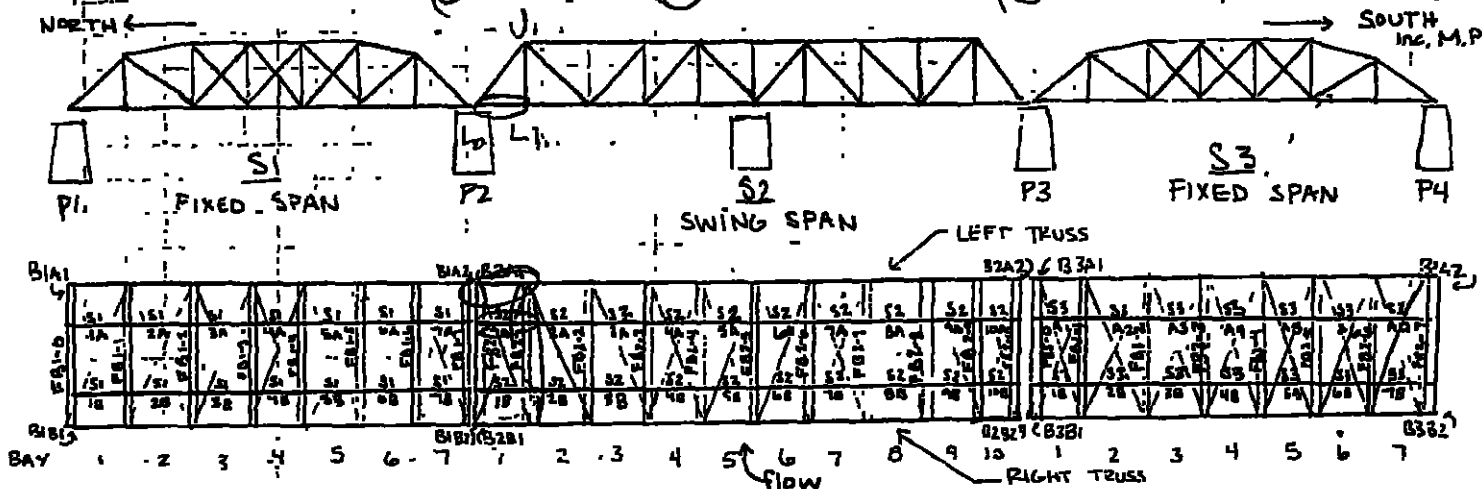
FOR Oregon Rail Assessments

INSPECTED BY Harold J.

DATE 9/14/08

WEATHER 570F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L0		L1	brake pit on [25%] element: Mat loss.
NBI Rating:	3	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	50%		50	[100%] at joint L1

Cross Brace: CB 1 = 2

NBI: 4 Condition: 5 Material Loss (%): 25% typical

Remarks: minor palk not between angles

Floor Beam: FB 7-1

NBI: 2 Condition: 5 Material Loss (%): All palk

Remarks: heavily laminar mat,

Stringer: S2 1A

NBI: 2 Condition: 5 Material Loss (%): 40% palk

Remarks: palk not initiation the 1.0 ft by 1 ft flange. Under top flange has several laminar mat

Upper Pin: U

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin: L

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

The notes CB represents the span



DAVID EVANS
& ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

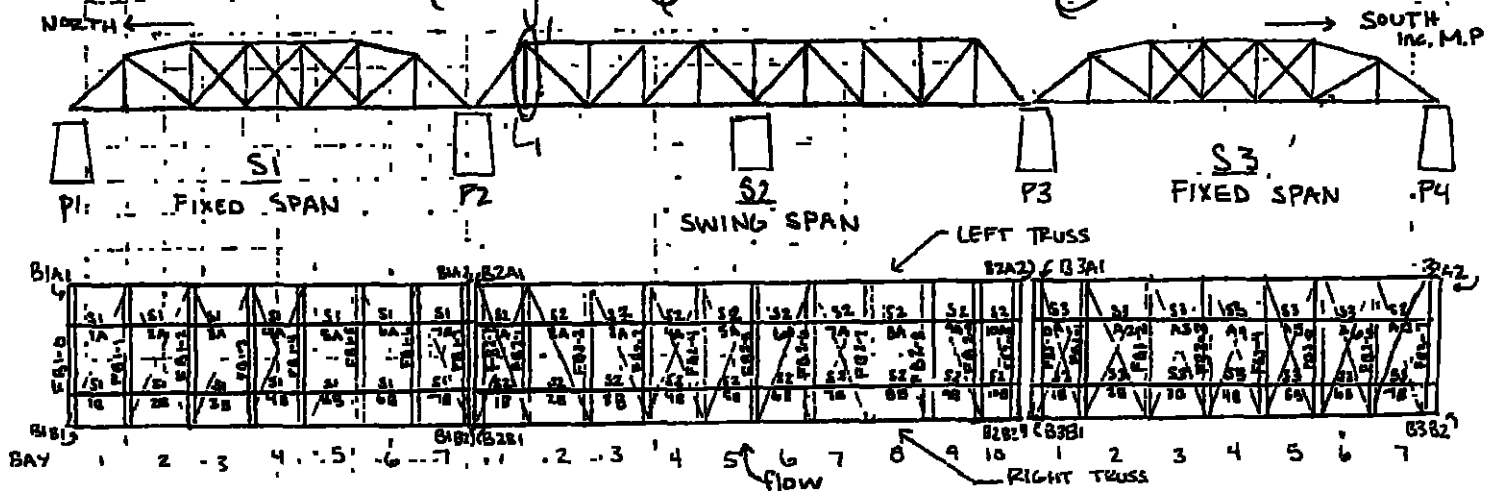
FOR Oregon Rail Assessments

INSPECTED BY Jim Hall

DATE 12/14/09

WEATHER S70F

Location: Span 1 2 3 Truss (1) R Member TC BC (MC) Bay: 1/2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	<u>heavy pitting</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>deep pit</u>	<u>30%</u>	<u>30%</u>	

Cross Brace:				
NBI: <u>2</u>	Condition: <u>5</u>	Material Loss (%): <u>75%</u>		
Remarks: <u>holes in flange</u>				

Floor Beam:				
NBI: <u>1</u>	Condition: <u>5</u>	Material Loss (%): <u>0</u>		
Remarks:				

Stringer:				
NBI: <u>1</u>	Condition: <u>5</u>	Material Loss (%): <u>0</u>		
Remarks:				

Upper Pin:				
NBI: <u>1</u>	Condition: <u>5</u>	Material Loss (%): <u>0</u>		
Remarks:				

Lower Pin:				
NBI: <u>1</u>	Condition: <u>5</u>	Material Loss (%): <u>0</u>		
Remarks:				

General Comments/Recommendations:
Top vertical bracing represents throughout the structure; due to limited access



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hnc

DATE 1/14/07

WEATHER S

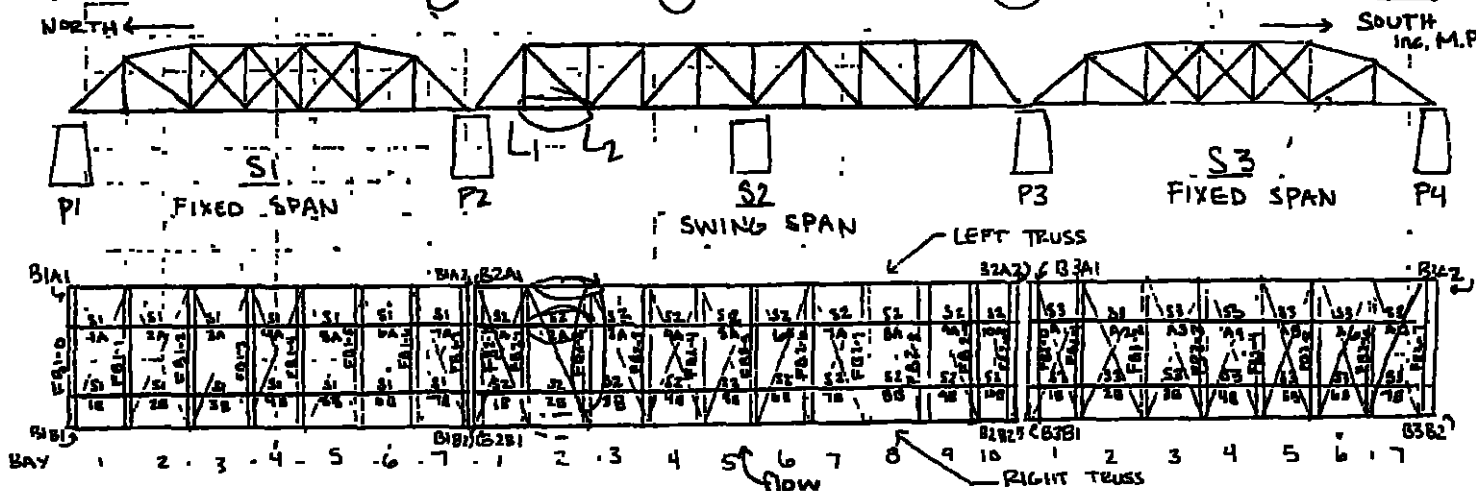
Location:

Span 1 (2) 3

Truss (L) R

Member TC (BC) MC

Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	1	4	2	Diagonal ratchet
NBI Rating:	4	4	2	
Condition Rating:	5	5	5	
Material Loss (%):	25%	25%	50%	

Cross Brace: 2 - Span

NBI: 5

Condition: 4

Material Loss (%): 25%

Remarks:

Floor Beam: 412-2

NBI: 3

Condition: 5

Material Loss (%): 10% rivet loss

Remarks: Diagonal ratchet

Stringer: S2 LA

NBI: 3

Condition: 5

Material Loss (%): 10% rivet loss

Remarks: Diagonal ratchet, rivet loss at str to FB connection

Upper Pin:

NBI:

Condition:

Material Loss (%):

Remarks:

Lower Pin:

NBI:

Condition:

Material Loss (%):

Remarks:

General Comments/Recommendations:

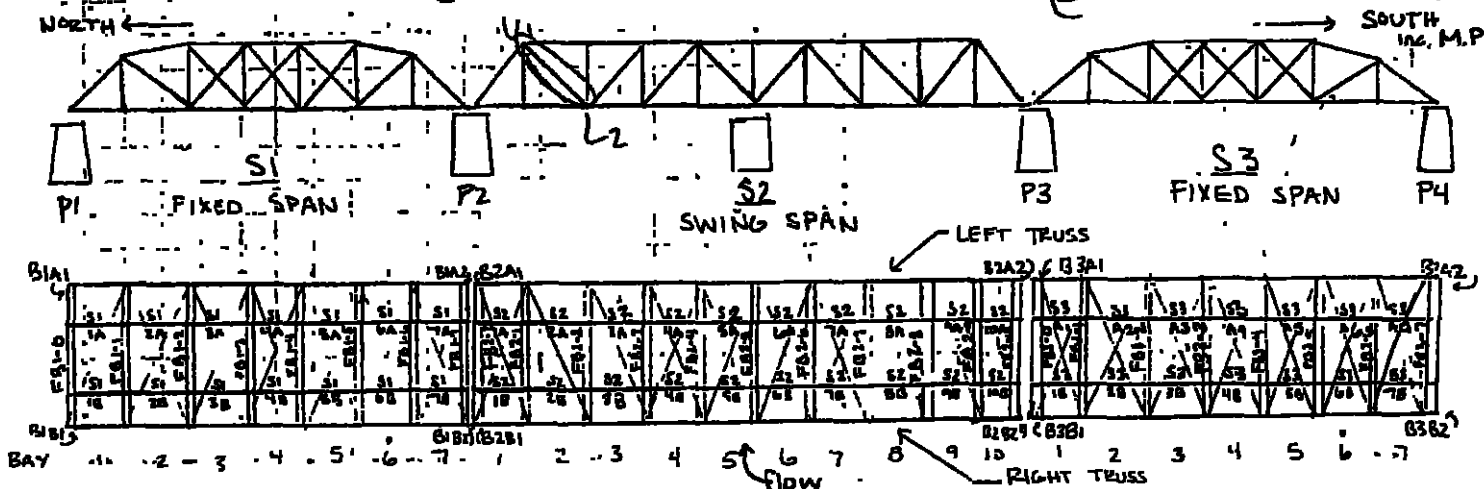


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Walt - W
DATE 7/14/FR
WEATHER 570

Location: Span 1 (2) 3 Truss (1) R Member TC BC (MC) Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	2	1	1	hanging - has holes is 50% gone
AI Rating:	2	2	3	
Condition Rating:	5	5	5	heavily damaged, heavily corroded
Material Loss (%):	50%	35%	50%	or 100% gone

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



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ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

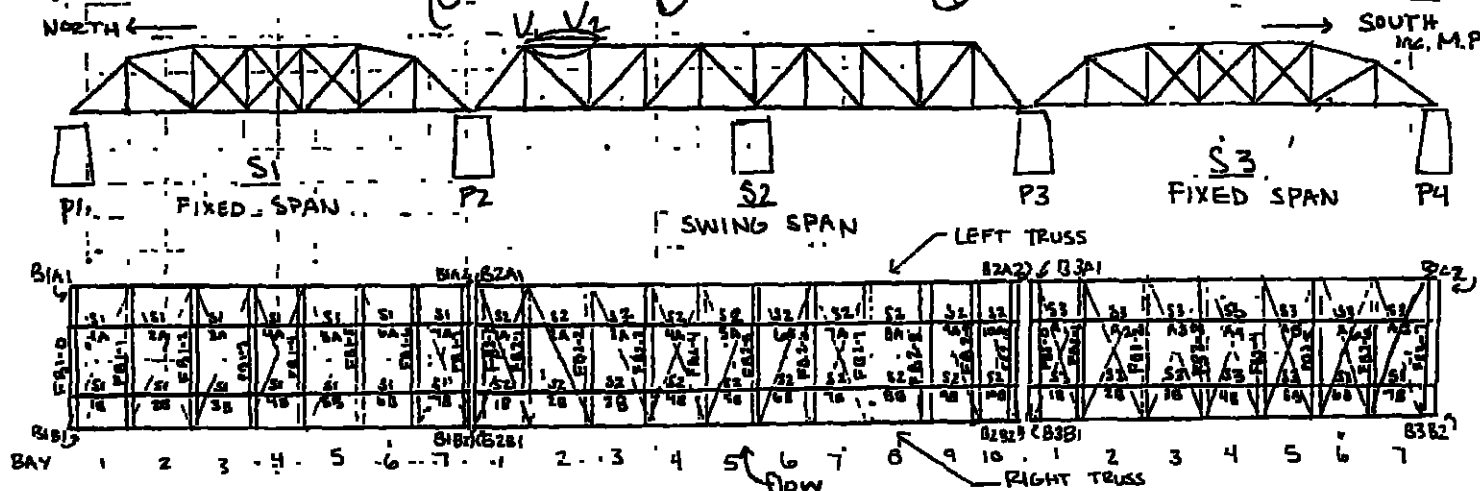
FOR Oregon Rail Assessments

INSPECTED BY hac0 im

DATE 9/19/08

WEATHER 9-70

Location: Span 1 2 3 Truss L R Member 7C BE MC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>U1</u>		<u>U2</u>	<u>50% of the rivets are gone</u>
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>50</u>	<u>50</u>	<u>50</u>	

Cross Brace:
NBI: 2 Condition: 5 Material Loss (%): 25%
Remarks: holes

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

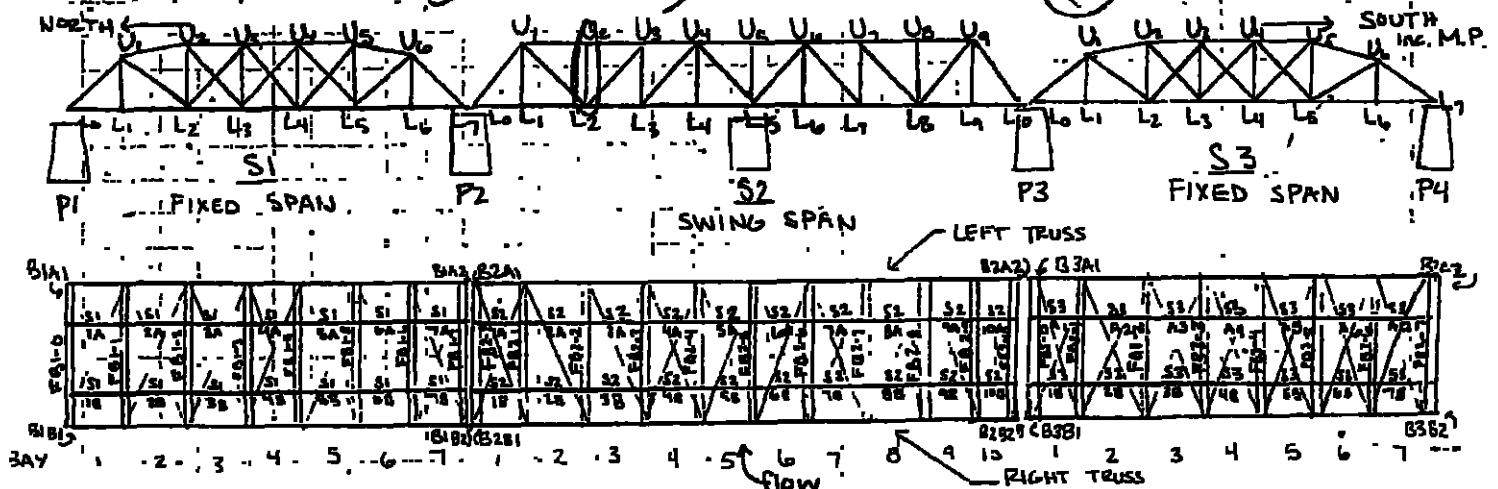
FOR Oregon Rail Assessments

INSPECTED BY *hach m.*

DATE *9/14/08*

WEATHER *S70*

Location: Span *1 (2) 3* Truss *(L) R* Member TC BC *(MC)* Bay:



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<i>L2</i>		<i>U2</i>	<i>holes in facing, severe pack rust</i>
Rating:	<i>3</i>	<i>3</i>	<i>3</i>	
Condition Rating:	<i>5</i>	<i>5</i>	<i>5</i>	
Material Loss (%):	<i>25%</i>	<i>10</i>	<i>40%</i>	

Cross Brace:
 NBI: *2* Condition: *5* Material Loss (%): *50%*
 Remarks: *holes*

Floor Beam:
 NBI: Condition: Material Loss (%):
 Remarks:

Stringer:
 NBI: Condition: Material Loss (%):
 Remarks:

Upper Pin:
 NBI: Condition: Material Loss (%):
 Remarks:

Lower Pin:
 NBI: Condition: Material Loss (%):
 Remarks:

General Comments/Recommendations:



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

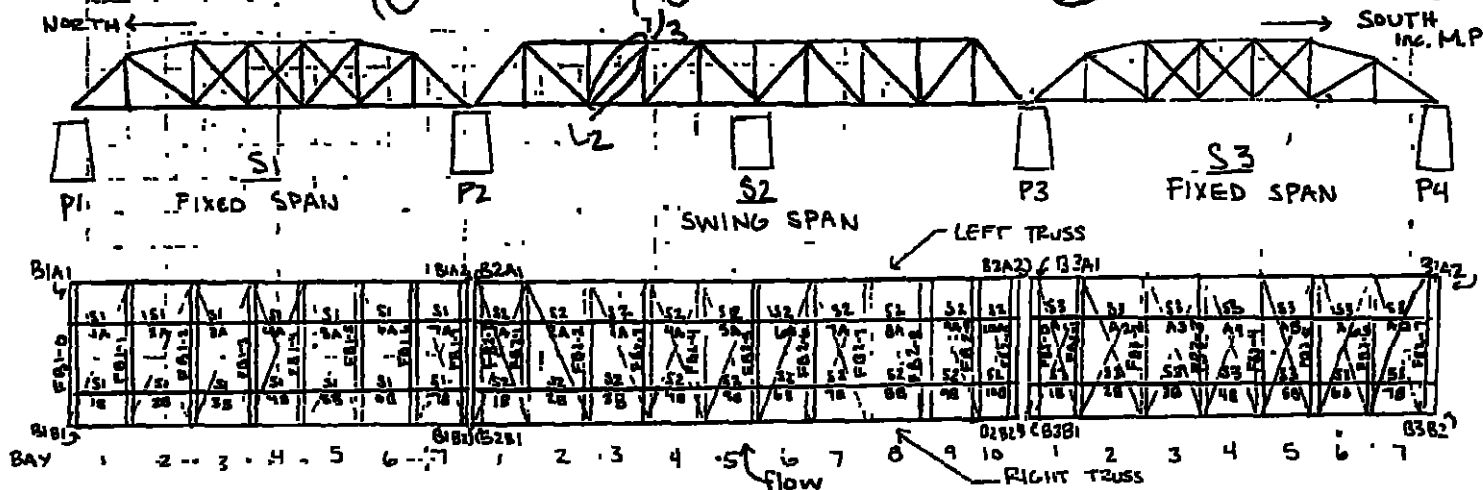
FOR Oregon Rail Assessments

INSPECTED BY W. L. Jones

DATE 6/14/2005

WEATHER 1

Location: Span 1 2 3 Truss L R Member TC BC (MC) Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L2		U2	inner lining plate
NBI Rating:	3	3	3	
Condition Rating:	3	3	3	
Material Loss (%):	50%		50%	could not plate at L2 w/ 50% over

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



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AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

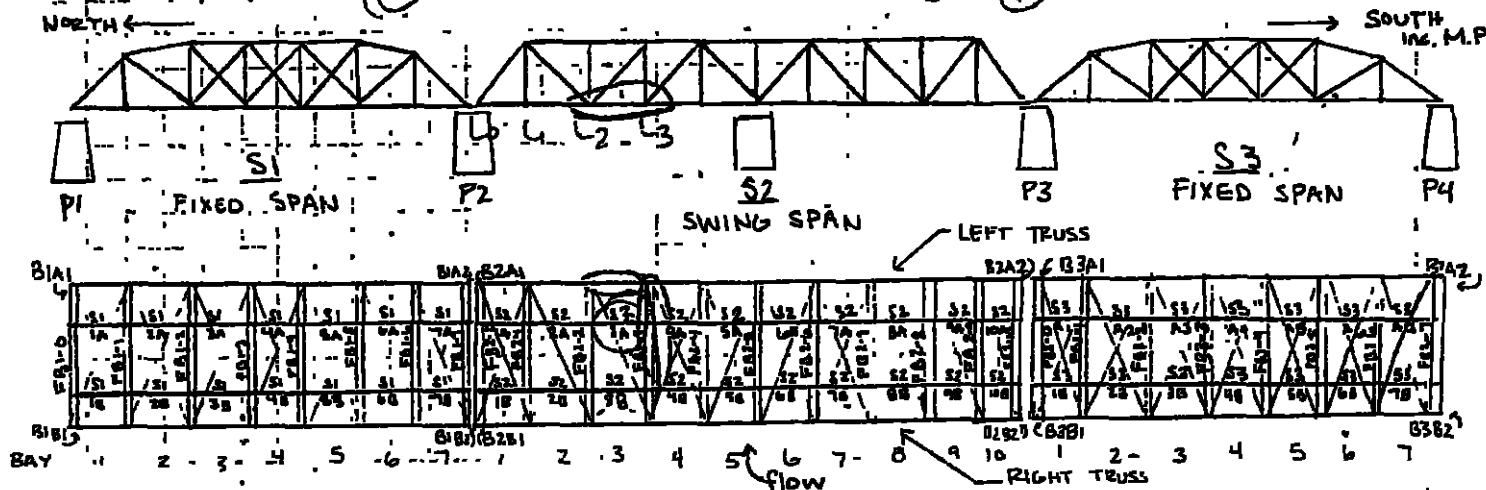
FOR Oregon Rail Assessments

INSPECTED BY hach jr

DATE 9/14/05

WEATHER sky

Location: Span 1 / 2 / 3 Truss 1 R Member TC BC / MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>L2</u>		<u>L3</u>	<u>holes in flange</u>
NI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25%</u>	<u>10%</u>	<u>25%</u>	

Cross Brace:	<u>3-1</u>
NBI:	<u>3</u>
Condition:	<u>5</u>
Material Loss (%):	<u>50%</u>
Remarks:	

Floor Beam:	<u>Fb 2-3</u>
NBI:	<u>3</u>
Condition:	<u>5</u>
Material Loss (%):	<u>50%</u>
Remarks:	<u>heavy rainwater on ground</u>

Stringer:	<u>S2 3A</u>
NBI:	<u>3</u>
Condition:	<u>5</u>
Material Loss (%):	<u>50%</u>
Remarks:	<u>heavy rainwater on ground</u>

Upper Pin:	
NBI:	
Condition:	
Material Loss (%):	
Remarks:	

Lower Pin:	
NBI:	
Condition:	
Material Loss (%):	
Remarks:	

General Comments/Recommendations:



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ASSOCIATES

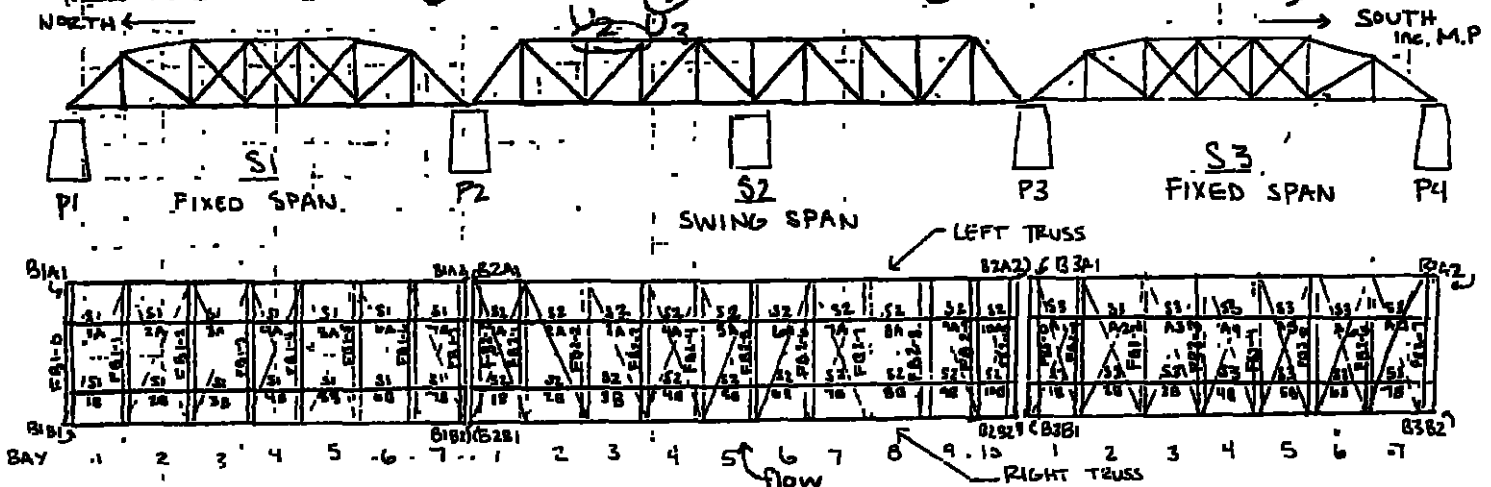
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY h.c.
DATE 9/14/1999
WEATHER

Location: Span 1/2/3 Truss (L), R Member (TC) BC MC Bay: 2

Typical
all top cords

D



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>U2</u>		<u>U2</u>	<u>Due to limited access this represents</u>
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	<u>TC members U3 - U9</u>
Material Loss (%):	<u>SD</u>	<u>SD</u>	<u>SD</u>	

Cross Brace:
NBI: 2 Condition: 5 Material Loss (%): 50
Remarks: None

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:
This TC NBI 3 Cond. 5 ML 50 represents TC members throughout the span



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

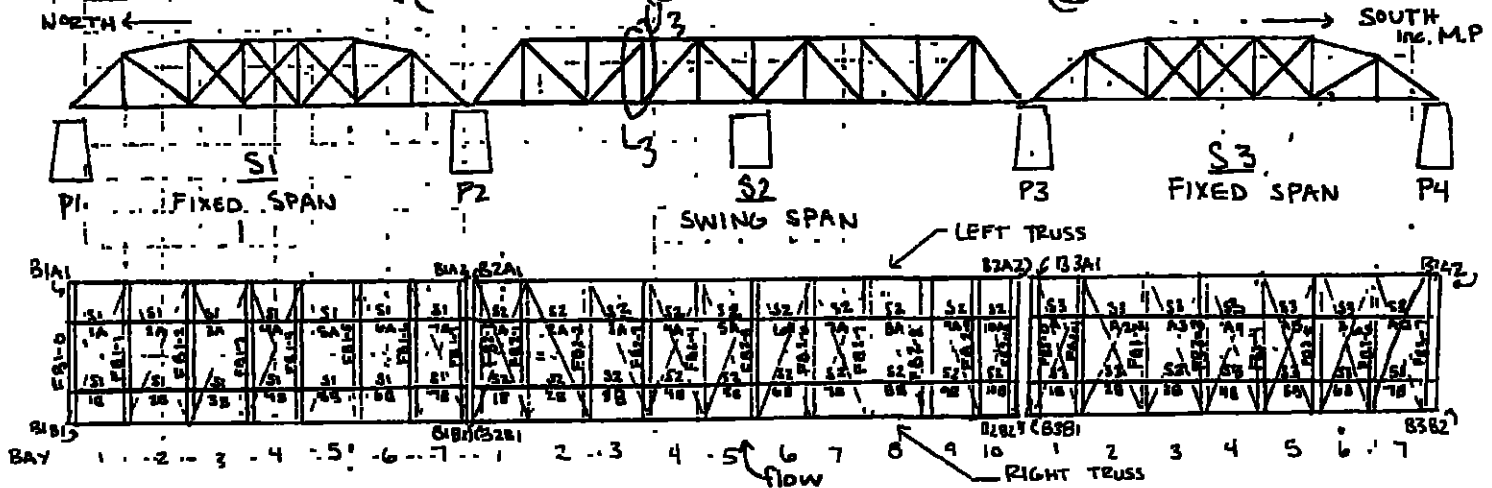
FOR Oregon Rail Assessments

INSPECTED BY Wael Jm.

DATE 9/14/03

WEATHER SGEF

Location: Span 1/2 3' Truss L R Member TC BC MC Bay: 3/4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
AI Rating:	3	3	3	Severe pinning
Condition Rating:	5	5	5	Leaving 50% gage.
Material Loss (%):	5%	25%	25%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



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ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hail in

DATE 7/14/00

WEATHER 570

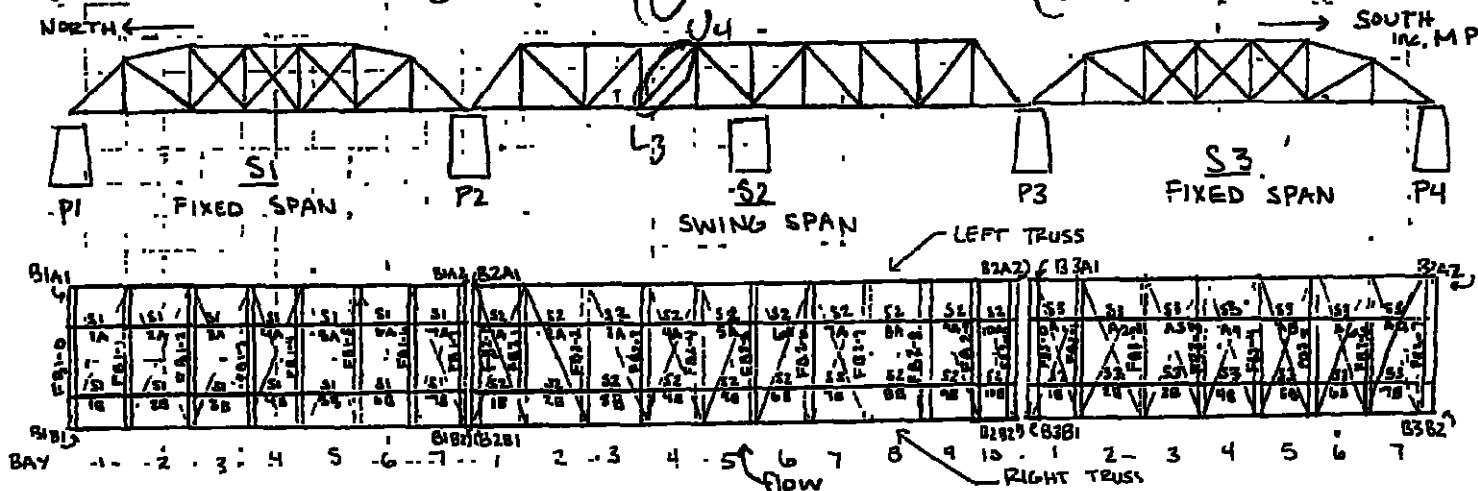
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L3</u>		<u>U4</u>	
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>15%</u>	<u>25%</u>	<u>25%</u>	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

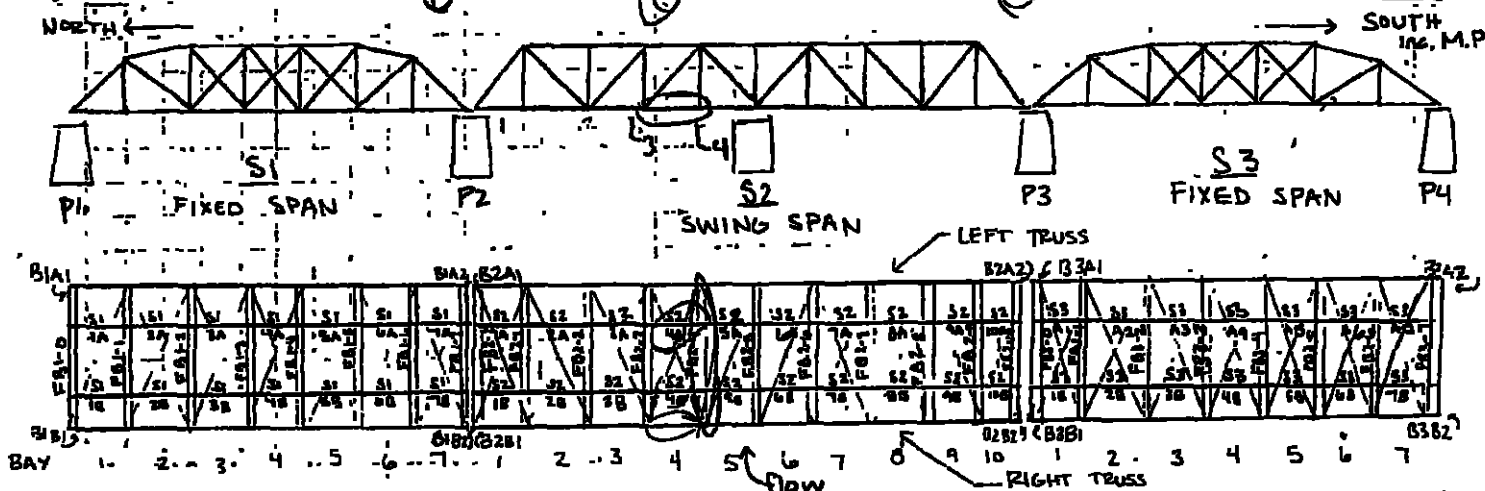
FOR Oregon Rail Assessments

INSPECTED BY hach jw

DATE 9/14/05

WEATHER W70

Location: Span 1/2/3 Truss L R Member TC BC/MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>L3</u>		<u>L4</u>	
AI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>75%</u>	<u>75%</u>	<u>75%</u>	

Cross Brace
NBI: 5 Condition: 4 Material Loss (%): 50%
Remarks: mild rust, no pack reqd

Floor Beam: 2-4
NBI: 3 Condition: 5 Material Loss (%): 50%
Remarks: severe laminar not

Stringer: 52 4A
NBI: 2 Condition: 5 Material Loss (%): 50%
Remarks: no

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



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AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Siuslaw River

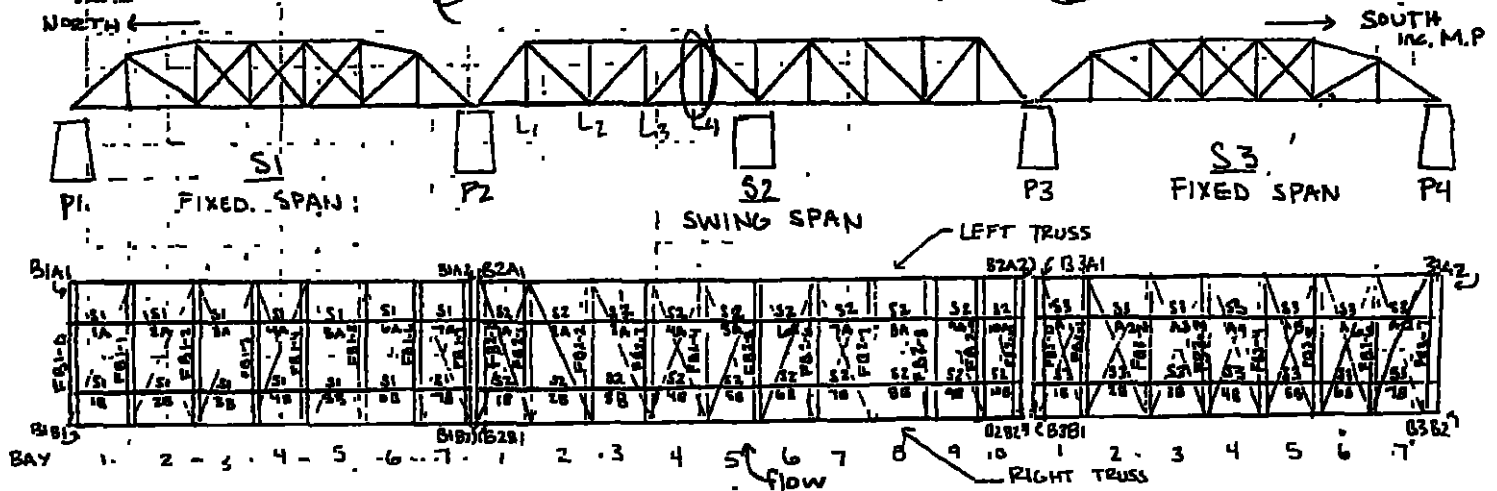
FOR Oregon Rail Assessments

INSPECTED BY hael im

DATE 9/8/14/08

WEATHER S70

Location: Span 1 (2) 3 Truss (L) R Member TC BC (MC) Bay: -



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L4		U4	heavy pitting on G-irder
NBI Rating:	3	3	3	web corrosion about 25%
Condition Rating:	5	5	5	
Material Loss (%):	25%	25%	25%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



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AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

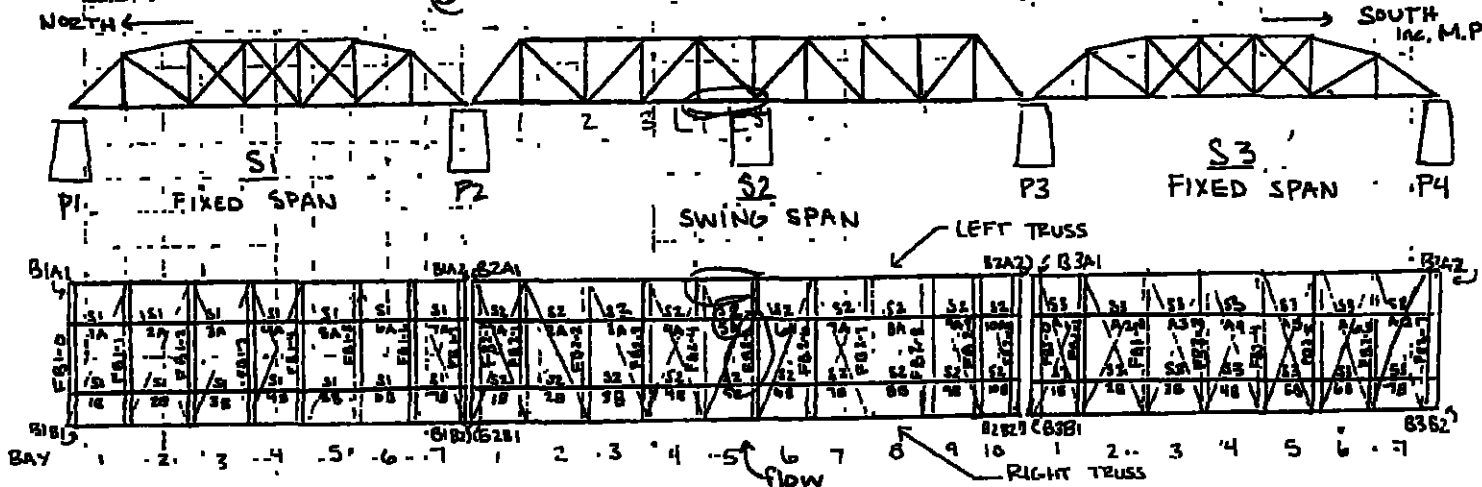
FOR Oregon Rail Assessments

INSPECTED BY hach j m

DATE 9/14/08

WEATHER 570

Location: Span 1 2 3 Truss (L) R Member TC (BC) MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L4		L5	Corrosion
NBI Rating:	3	3	2	
Condition Rating:	5	5	5	holes in gusset plate
Material Loss (%):	25	75%	25%	

Cross Brace: S-2 Span
NBI: 4 Condition: 5 Material Loss (%): 5
Remarks:

Floor Beam: FB2-5
NBI: 3 Condition: 6 Material Loss (%): 35%
Remarks:

Stringer: S2-5A
NBI: 3 Condition: 5 Material Loss (%): ALL → 75
Remarks: 10% mat loss
-25

Upper Riv: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks:

Lower Riv: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks:

General Comments/Recommendations:



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ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

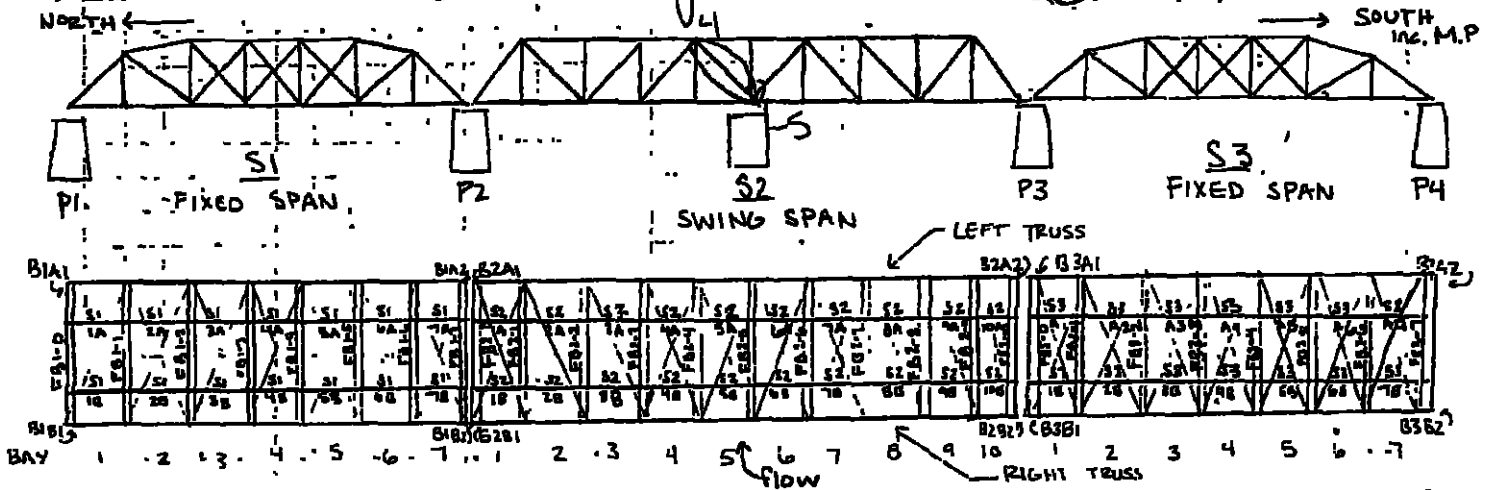
FOR Oregon Rail Assessments

INSPECTED BY hach j m

DATE 9/14/02

WEATHER 570

Location: Span 1 (2) 3 Truss (L) R Member TC BC (MC) Bay: 5





DAVID EVANS
AND ASSOCIATES

INSPECTED BY JM/HC

DATE 9/14/08

WEATHER 1970

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

FOR Oregon Rail Assessments

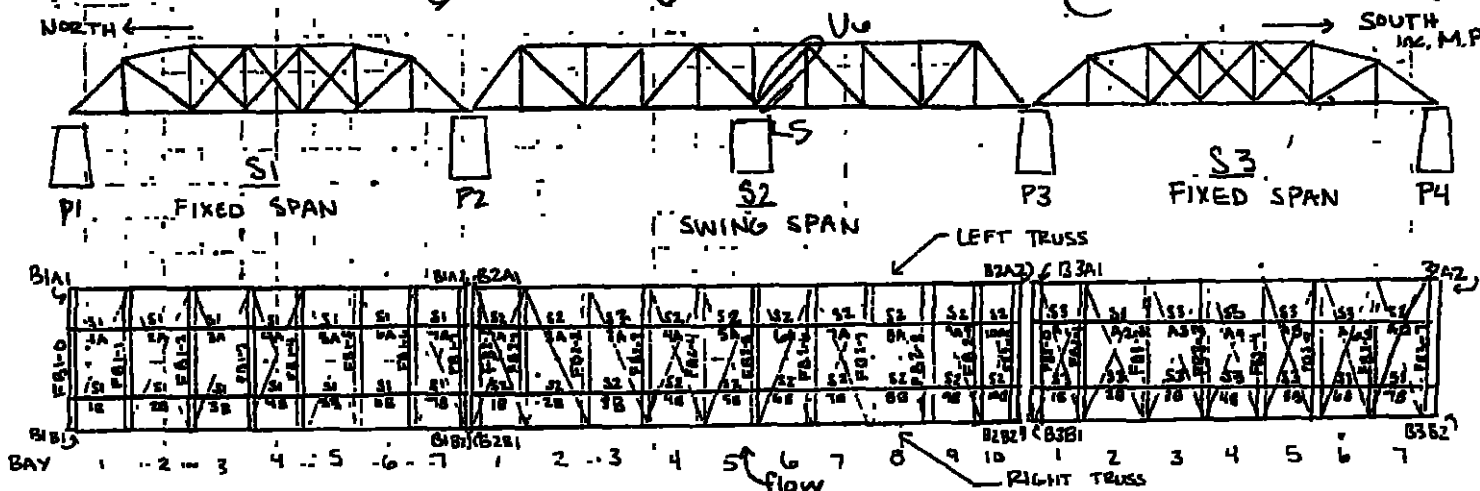
Location:

Span: 1 2 3

Truss: (L) R

Member: TC, BC MC

Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
MC	U	3	U	Plating 50% gone - 1 sets
BI Rating:	2	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



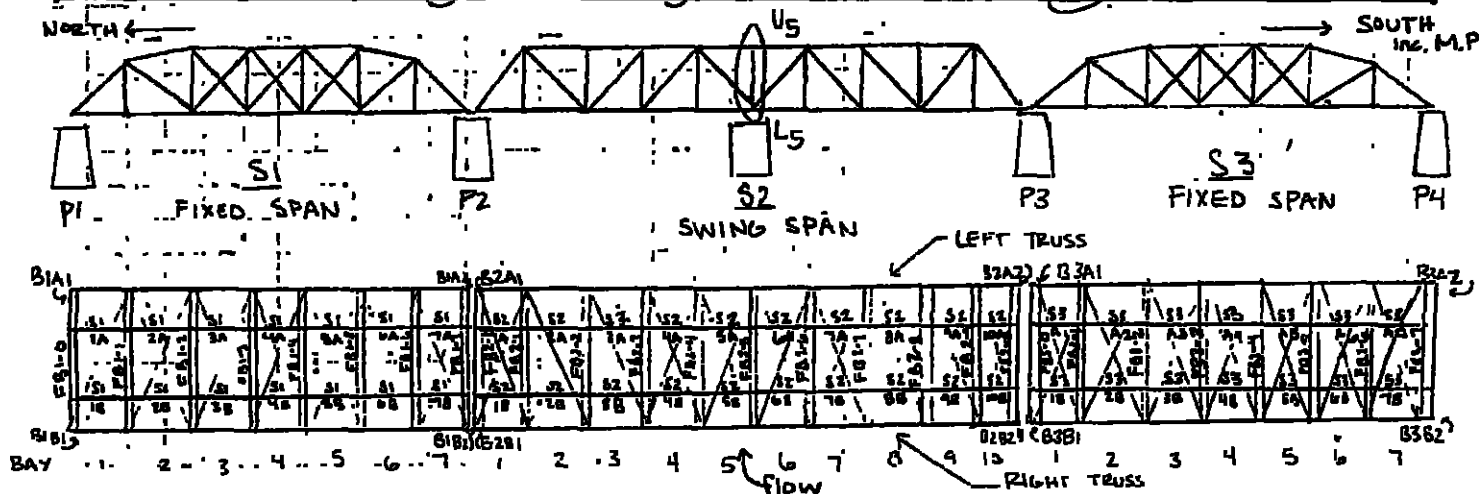
Cushman, OR -Siuslaw River

INSPECTED BY huel in

DATE 9/14/08

WEATHER 570

Location: Span 1 (2)-3 Truss (L) R Member TC BC (MC) Bay: 1/5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
NBI Rating:	2	3	3	Gusset plate 50% gusset connection
Condition Rating:	5	5	5	
Material Loss (%):	50%	35%	35%	Locating 50% gusset.

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): .. _____

Remarks:

Floor Beams:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

emarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Siuslaw River

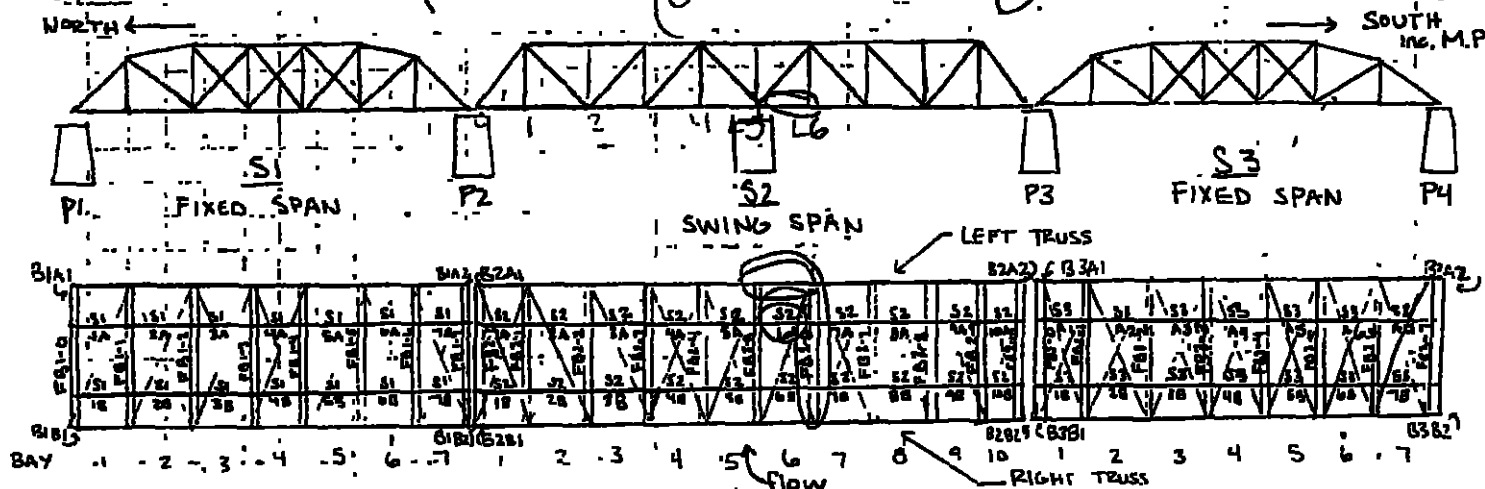
FOR Oregon Rail Assessments

INSPECTED BY WOLF TJ

DATE 5/14/08

WEATHER G70

Location: Span 1 (2) 3 Truss (L) R Member TC (BC) MC Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L6</u>		<u>L6</u>	<u>Ch. met. plate (connection 50% to joint)</u>
BI Rating:	<u>2</u>	<u>3</u>		
Condition Rating:	<u>5</u>	<u>5</u>		
Material Loss (%):	<u>50</u>	<u>30%</u>		

Cross Brace: L6 = 2 L6s

NBI: 3 Condition: 5 Material Loss (%): 10%

Remarks: minor partition rust

Floor Beam: F13 2 L6

NBI: 3 Condition: 5 Material Loss (%): →

Remarks:

Stringer: S2 L6

NBI: 3 Condition: 5 Material Loss (%): →

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



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AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

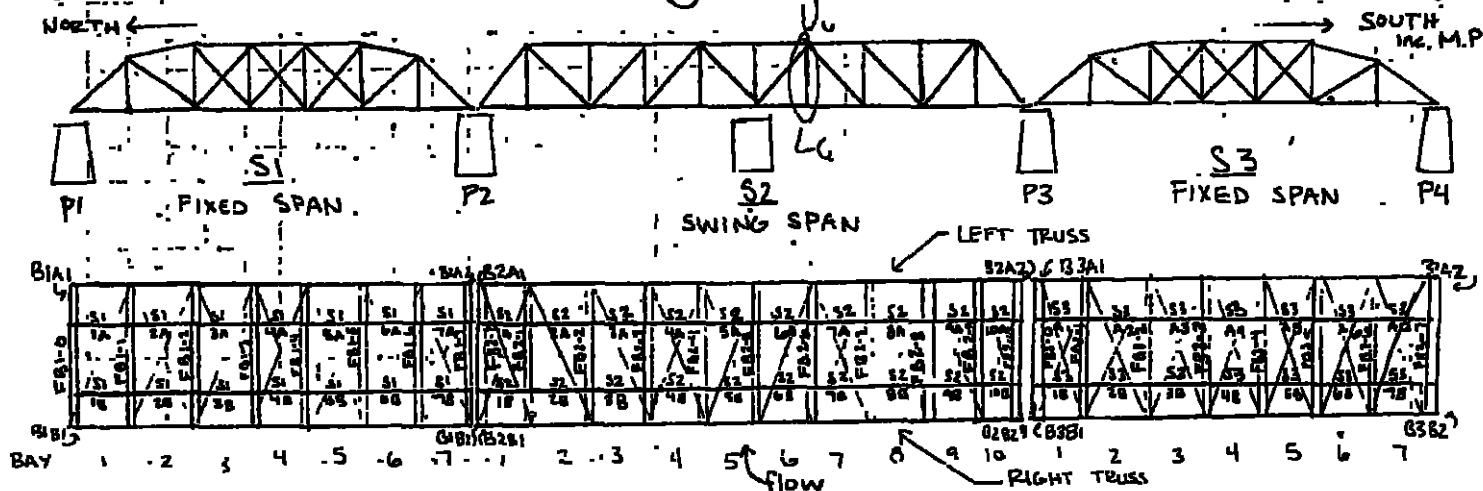
FOR Oregon Rail Assessments

INSPECTED BY HC/JM

DATE 9/14/08

WEATHER 370

Location: Span 1 (2, 3) Truss (L) R Member TC BC (MC) Bay: 5/6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L6		L6	25% material loss at FB connection
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	25%	25%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY hcd

DATE 7/14/08

WEATHER S70

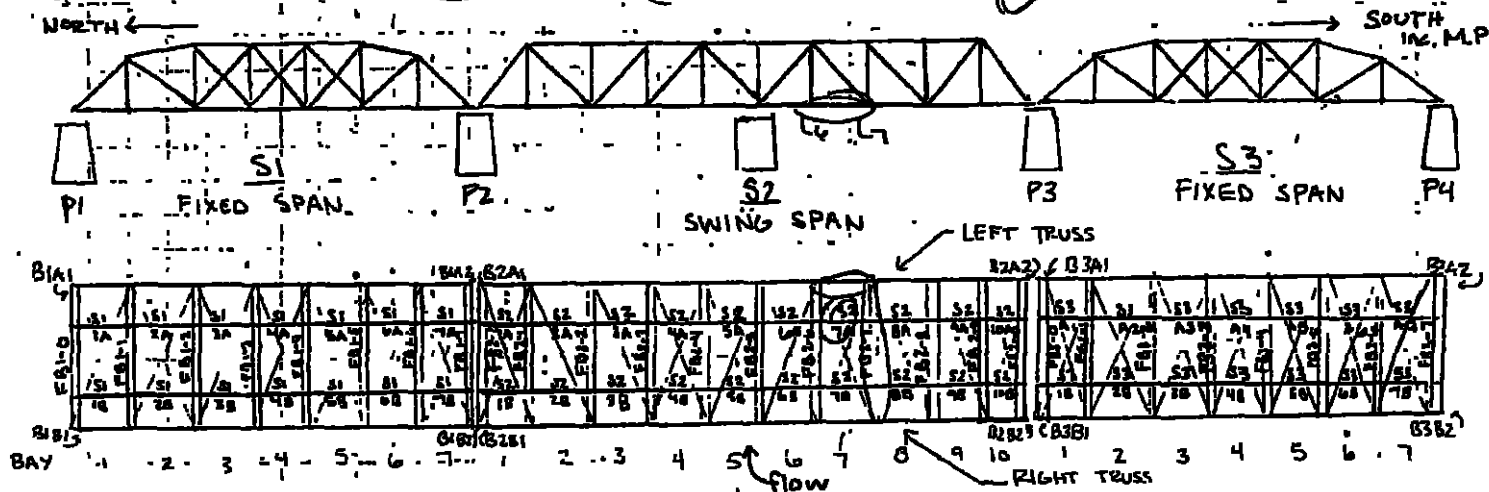
Location:

Span 1 (2) 3

Truss 1 R

Member: TC BC MC

Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	1	4	3	Plum nail
BI Rating:	3	4	3	
Condition Rating:	5	5	5	
Material Loss (%):	75%	5%	30%	

Cross Brace: 7 - 2
 NBI: 5 Condition: 4 Material Loss (%): 5%
 Remarks:

Floor Beam: 7 - 2
 NBI: 3 Condition: 5 Material Loss (%): 5%
 Remarks:

Stringer: S2 - 7A
 NBI: 3 Condition: 5 Material Loss (%): 1
 Remarks:

Upper Pin:
 NBI: Condition: Material Loss (%):
 Remarks:

Lower Pin:
 NBI: Condition: Material Loss (%):
 Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

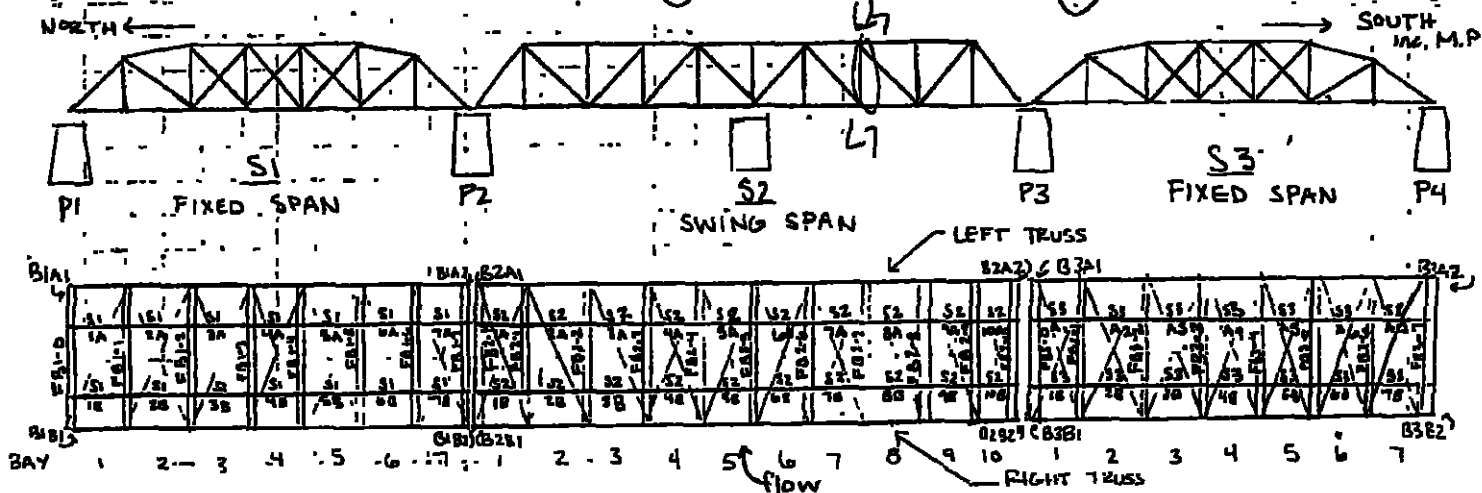
FOR Oregon Rail Assessments

INSPECTED BY JM/HG

DATE 9/14/07

WEATHER 470

Location: Span 1 (2) 3 Truss (L) R Member TC BC (MC) Bay:



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L7		U7	Supporting gone.
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	heavy pitting
Material Loss (%):	25%	25%	25%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

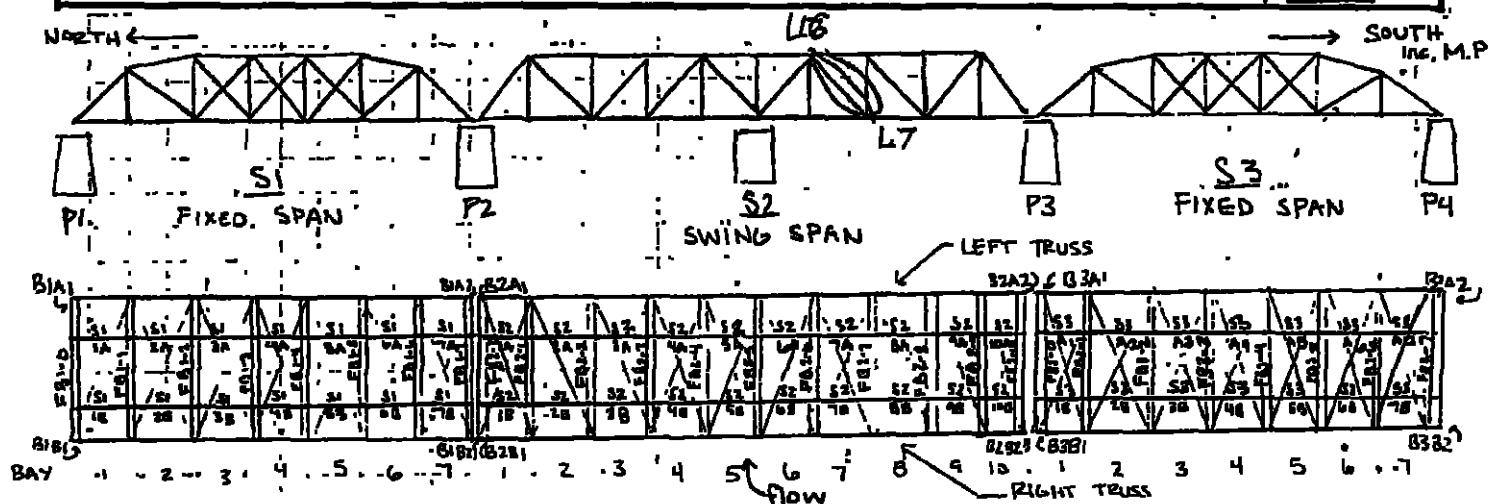
FOR Oregon Rail Assessments

INSPECTED BY JM/HC

DATE 9/14/08

WEATHER 570

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BI Rating:	3	3	3	heavy pitting, exposed metal
Condition Rating:	5	5	5	
Material Loss (%):	25%	25%	25%	

Cross Braces: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

INSPECTED BY W. J. Inno

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

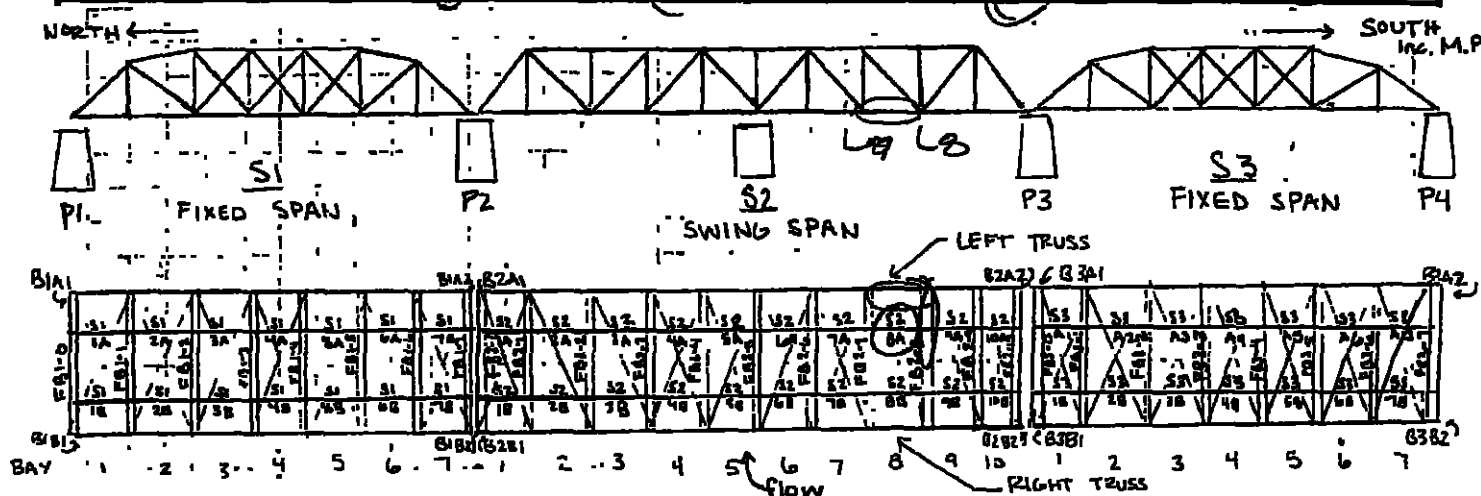
DATE 9/14/09

Cushman, OR - Siuslaw River

WEATHER 670

FOR Oregon Rail Assessments

Location: Span 1 (2) 3 Truss (1) R Member TC (BC) MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L</u>		<u>LB</u>	<u>Limiting Truss</u>
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	<u>Notes on Flaring</u>
Material Loss (%):	<u>25%</u>	<u>25%</u>	<u>25%</u>	

Cross Brace: B-2 Span
NBI: 4 Condition: 5 Material Loss (%): 5%
Remarks:

Floor Beam: FB 2-3
NBI: 3 Condition: 5 Material Loss (%): 25%
Remarks: heaving driveway not at bot. Flange corr.

Stringer: S2-BA
NBI: 2 Condition: 5 Material Loss (%): 25%
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

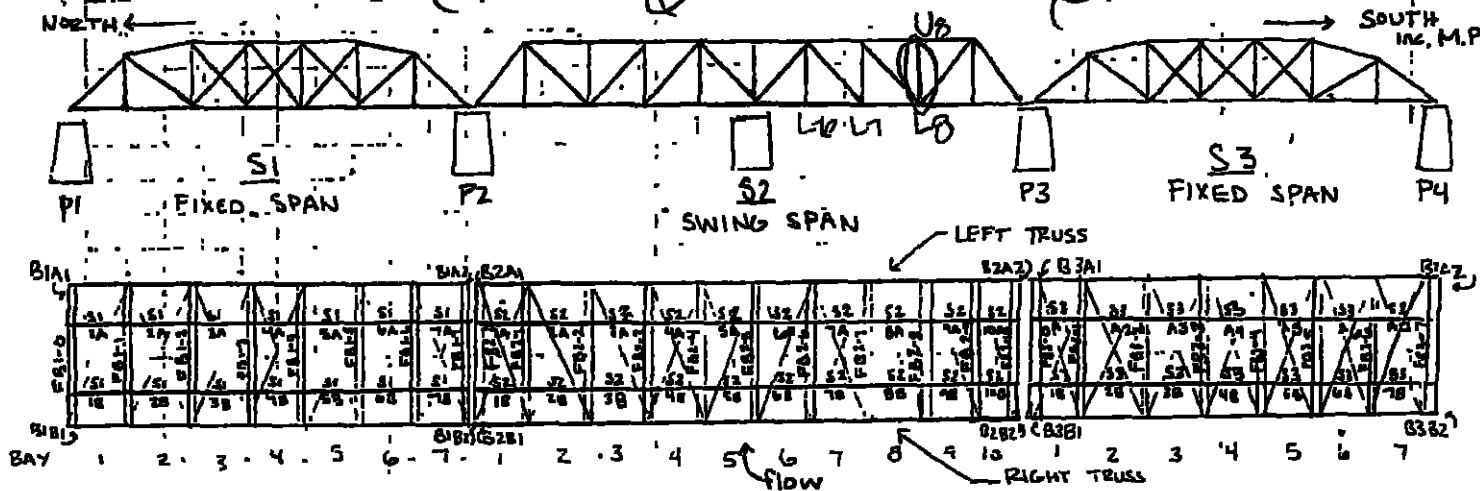
FOR Oregon Rail Assessments

INSPECTED BY hark in

DATE 2/19/05

WEATHER 570

Location: Span 1 (2) 3 Truss (L) R Member TC BC (MC) Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
NBI Rating:	<u>3</u>	<u>2</u>	<u>3</u>	<u>holes, hammering, pitting</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	<u>heavy laminar rust at gusset</u>
Material Loss (%):	<u>50%</u>	<u>50%</u>	<u>30%</u>	<u>place 25-50% mat loss</u>

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES INC.

INSPECTED BY

haci jm

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

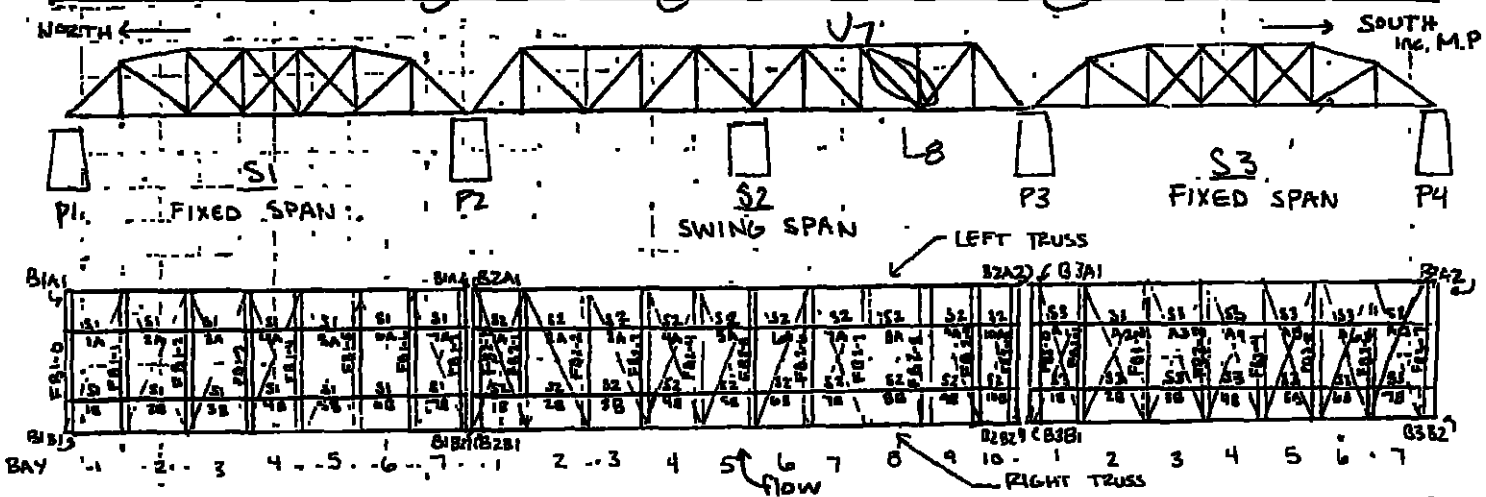
DATE 9/14/07

Cushman, OR - Siuslaw River

WEATHER 570

FOR Oregon Rail Assessments

Location: Span 1 (2) 3 Truss (L) R Member TC BC (MC) Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U7		U7	holes in flanges
AI Rating:	2	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	see picture			100%

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

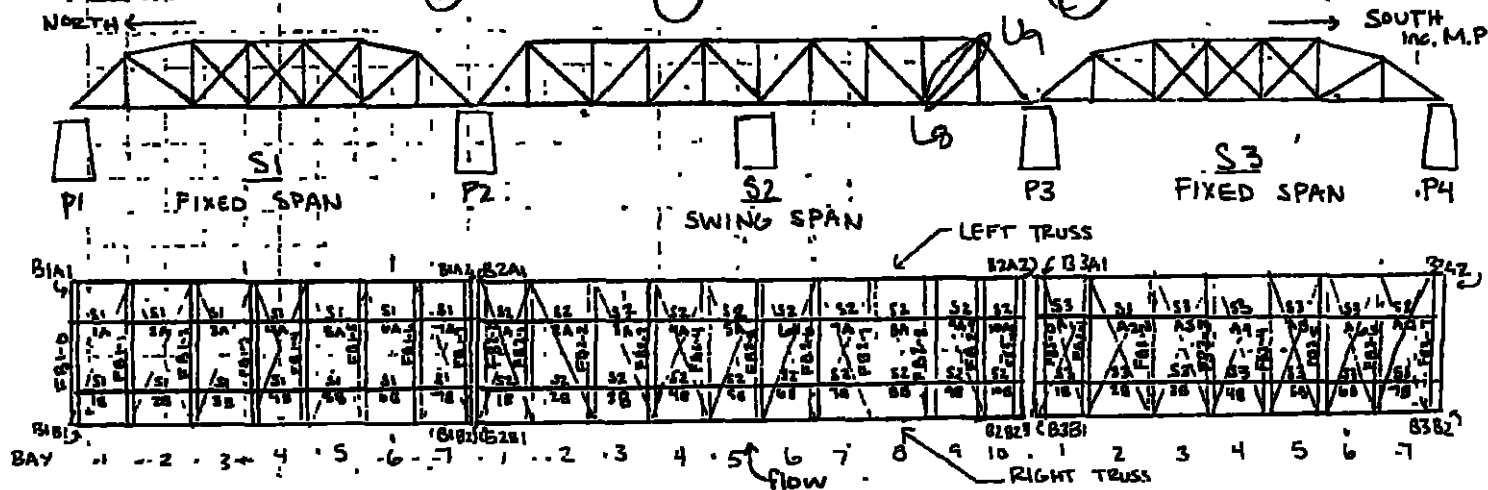
FOR Oregon Rail Assessments

INSPECTED BY haci fm

DATE 9/14/88

WEATHER 370

Location: Span 1/2 3 Truss L R Member TC BC MC Bay: 9



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L6	3	Ua	100 Flange
NBI Rating:	30	3	3	heavy pitting
Condition Rating:	5	5	5	
Material Loss (%):	see picture			

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

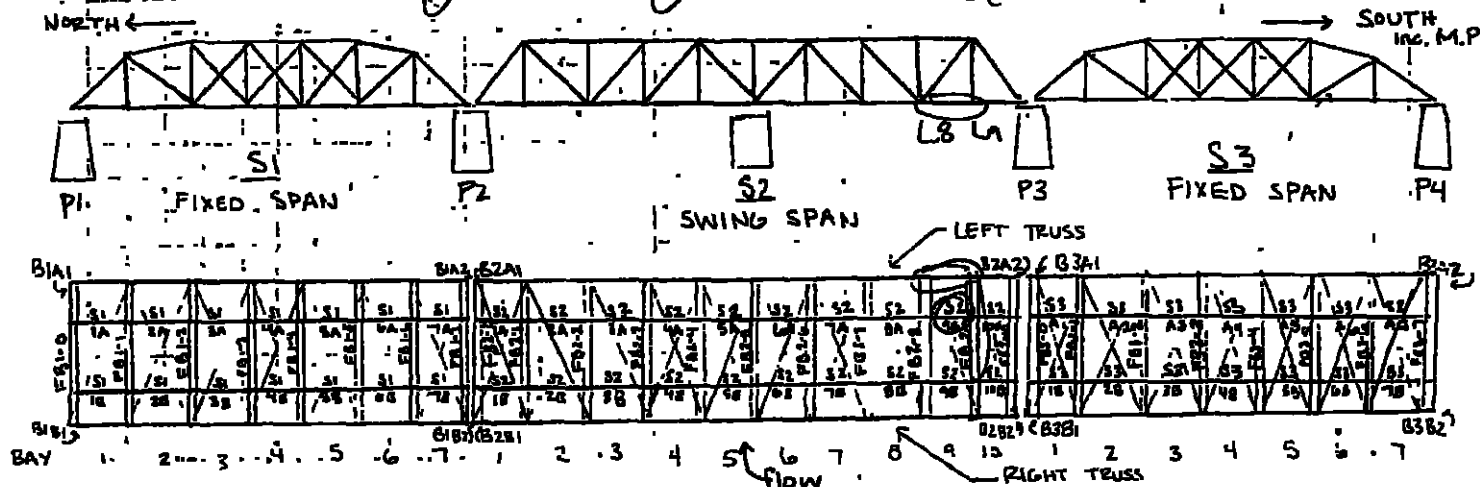
FOR Oregon Rail Assessments

INSPECTED BY hach in

DATE 9/14/08

WEATHER .570

Location: Span 1.2.3 Truss L R Member TC BC MC Bay: 9



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	1	2	3	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25%	10%	10%	

Cross Brace: 9-7 span

NBI: 4

Condition: 5

Material Loss (%): 4

Remarks:

Floor Beam: FB 2-4

NBI: 3

Condition: 5

Material Loss (%): 0

Remarks:

Stringer: S2 9A

NBI: 3

Condition: 5

Material Loss (%): 0

Remarks:

Upper Pin:

NBI:

Condition:

Material Loss (%):

Remarks:

Lower Pin:

NBI:

Condition:

Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

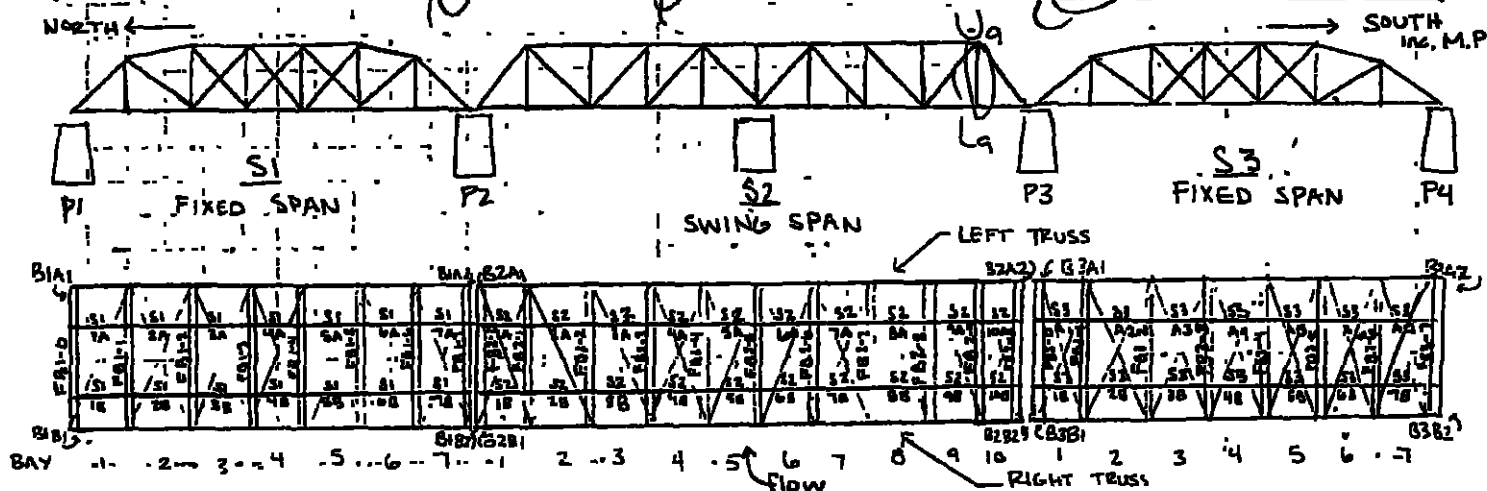
FOR Oregon Rail Assessments

INSPECTED BY Jim Hare

DATE 9/14/08

WEATHER GF

Location: Span 1 2, 3 Truss L R Member TC BG MC Bay:



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>L9</u>		<u>U9</u>	<u>Moderate pitting.</u>
BI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10%</u>	<u>10%</u>	<u>10%</u>	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

FOR Oregon Rail Assessments

INSPECTED BY hael jm

DATE 9/14/08

WEATHER S70

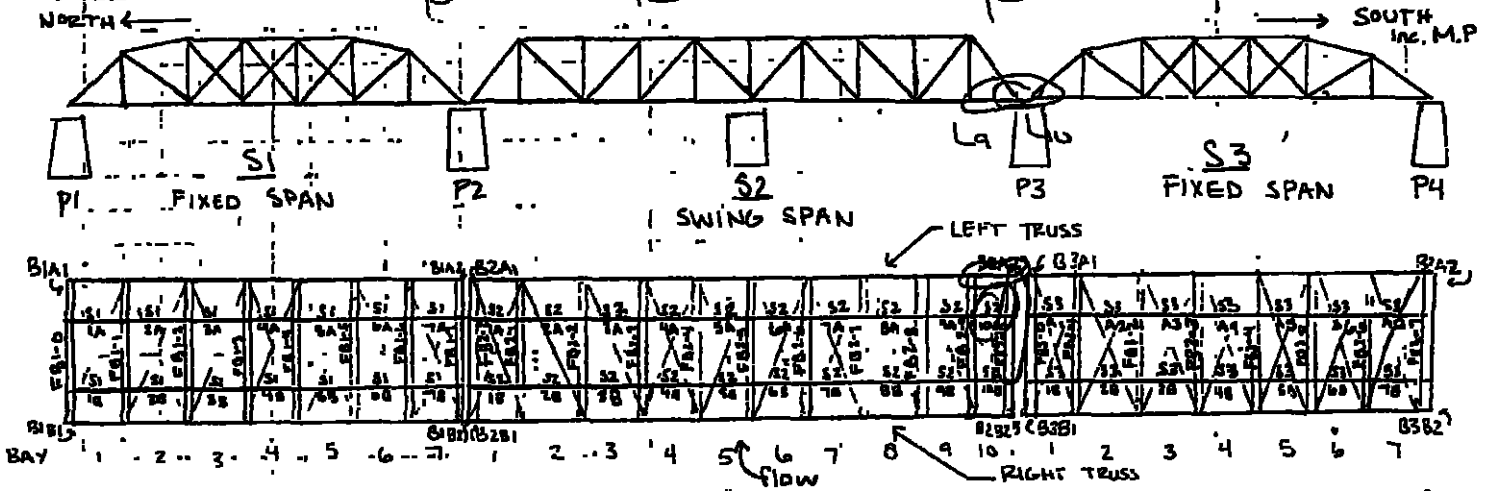
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 10



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L9		L10	at L9
NBI Rating:	3	3	3	upper right flange channel 100% up
Condition Rating:	5	5	5	top left " 25%
Material Loss (%):				10% web 50
				at L10 Mat

Cross Brace: 10 - 2 span
NBI: 4 Condition: 5 Material Loss (%): 5
Remarks:

Floor Beam: F2-10
NBI: 4 Condition: 5 Material Loss (%): 5
Remarks:

Stringer: S2 10A
NBI: 3 Condition: 5 Material Loss (%): 5
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

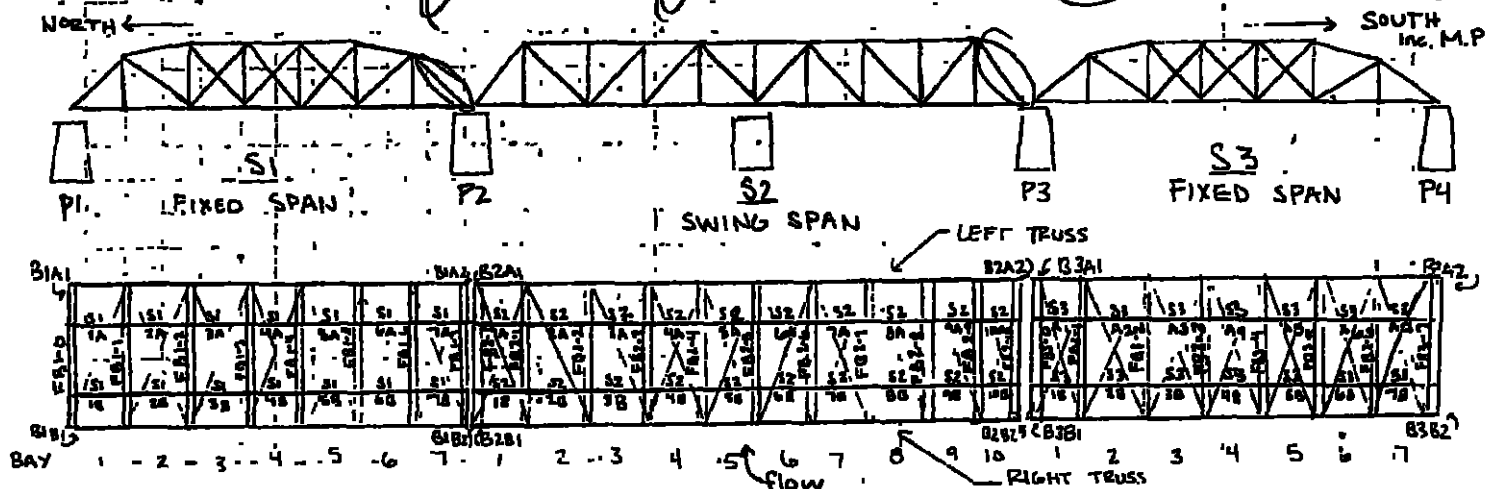
FOR Oregon Rail Assessments

INSPECTED BY hach jw

DATE 9/14/09

WEATHER 970

Location: Span 1 2 3 Truss L R Member TC BC (MC) Bay: 10



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	15	2	19	holes in flange heavy pitting
BI Rating:	3	2	3	
Condition Rating:	3	5	5	
Material Loss (%):	75%	75% in flange		
		75% everywhere else		

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

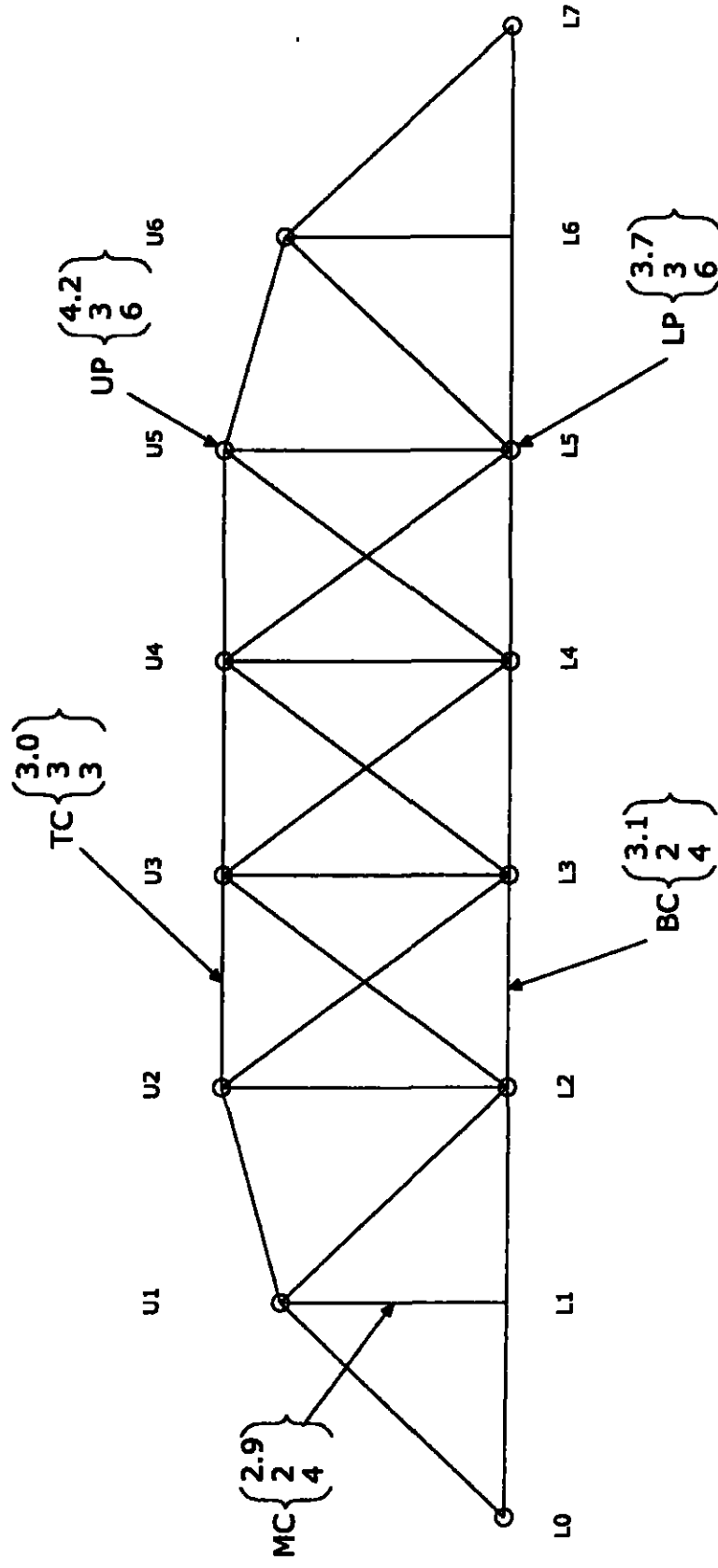


SPAN 3 (FIXED SPAN)



RIGHT SPAN 3

NBI Rating { AVERAGE
LOW HIGH }



Legend:
 TC Top Chord
 MC Middle Chord
 BC Bottom Chord
 UP Upper Pin
 LP Lower Pin

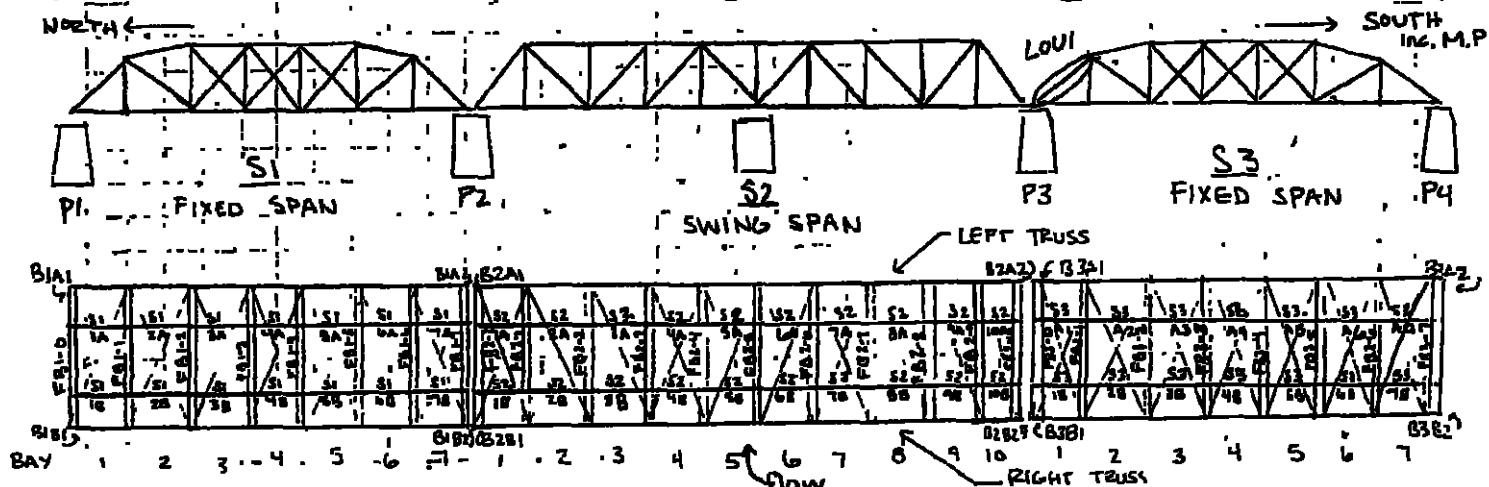


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/02
WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BG (MC) Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	LO		U1	severe pitting
AI Rating:	3	4 (1)	3	
Condition Rating:	5	5	5	
Material Loss (%):	10	→	10	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin: L2
NBI: 6 Condition: 3 Material Loss (%): <1%
Remarks: repainted

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

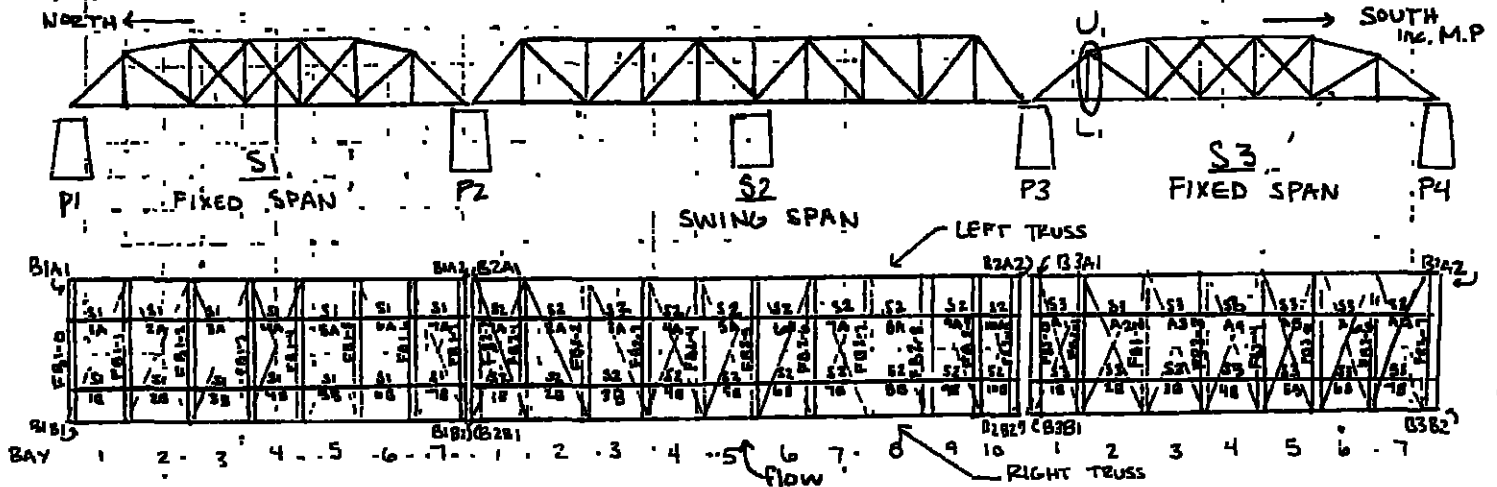
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER 570F

Location: Span 1 2 (3) Truss L (R) Member TC BC MC Bay: 1/2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L1		U1	
Condition Rating:	3	4	5	Corrosion of main elements
Material Loss (%):	20	10	< 8%	

Cross Brace: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Upper Pin: _____
 NBI: 6 Condition: 3 Material Loss (%): < 2%
 Remarks: _____

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

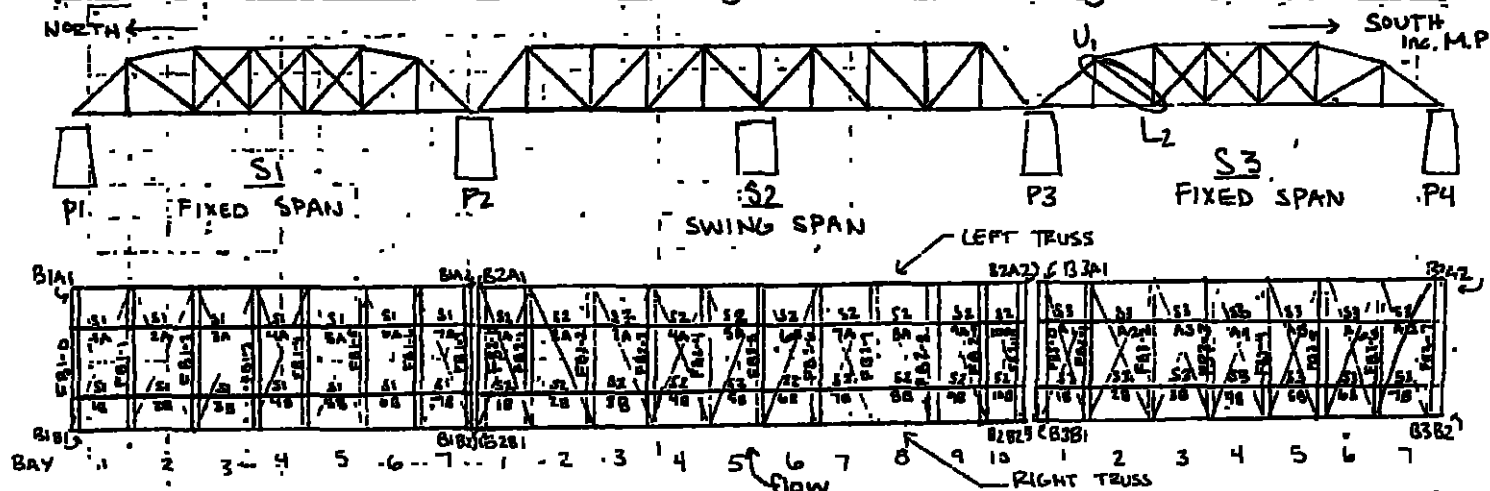
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/LV

DATE 9/14/08

WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BC MG Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U1	U1	L2	L2	severe pitting on up. bars
AI Rating:	5	3	3	
Condition Rating:	4	5	5	rust nut @ L2 joint
Material Loss (%):	~2	10	20	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

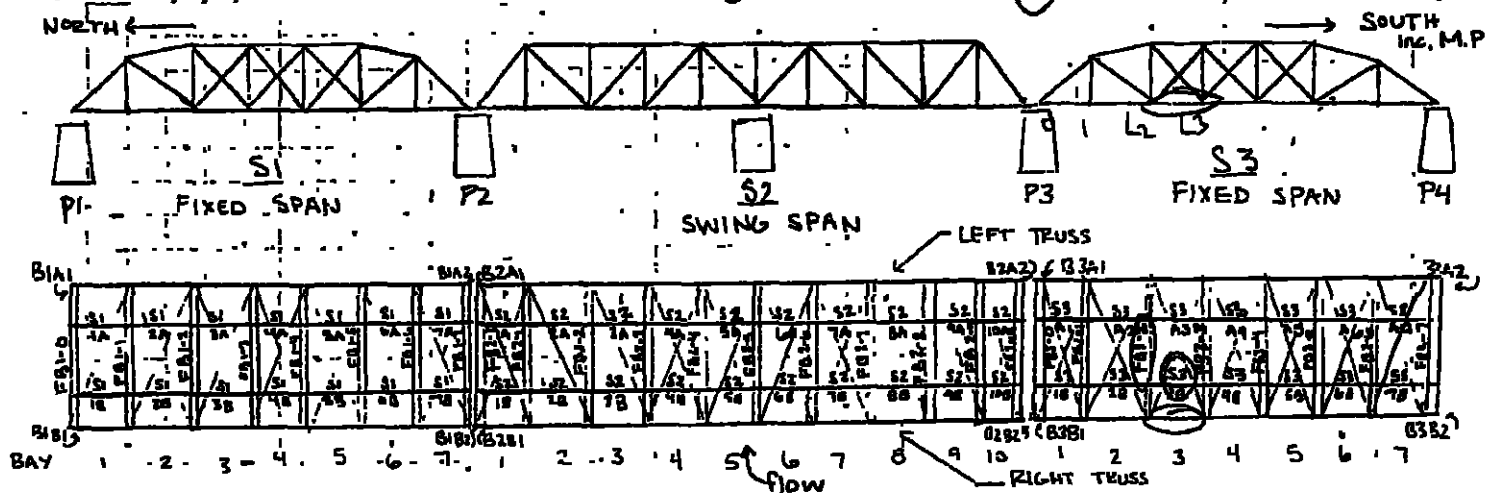
FOR Oregon Rail Assessments

INSPECTED BY AB/KL

DATE 11/14/06

WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC (BC) MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
BC Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	10	10	10	

Cross Brace: NBI: 2 Condition: 5 Material Loss (%): 90 (cross brace essentially does not exist)

Floor Beam: FB 3-2 NBI: 2 Condition: 5 Material Loss (%): 50

Stringer: 63.38 NBI: 2 Condition: 5 Material Loss (%): 25

Upper Pin: NBI: Condition: Material Loss (%):

Lower Pin: NBI: Condition: Material Loss (%):

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

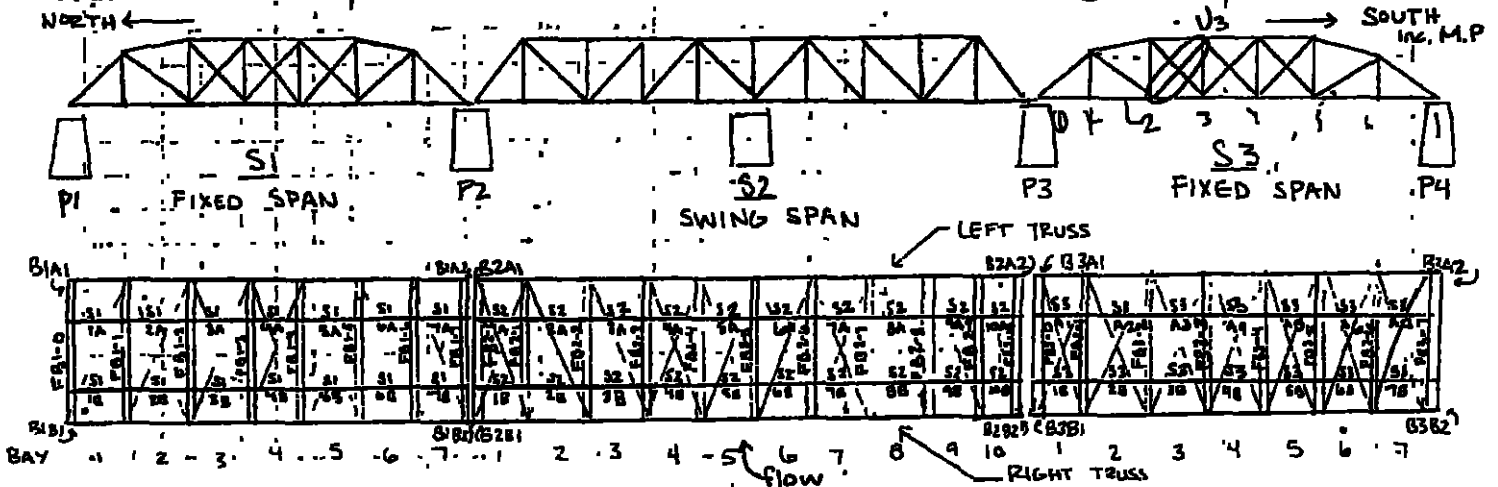
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/KL

DATE 9/14/06

WEATHER V/2 F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L2		U3	
AI Rating:	3	4	4	moderate pitting
Condition Rating:	5	4	4	
Material Loss (%):	30	5	5	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

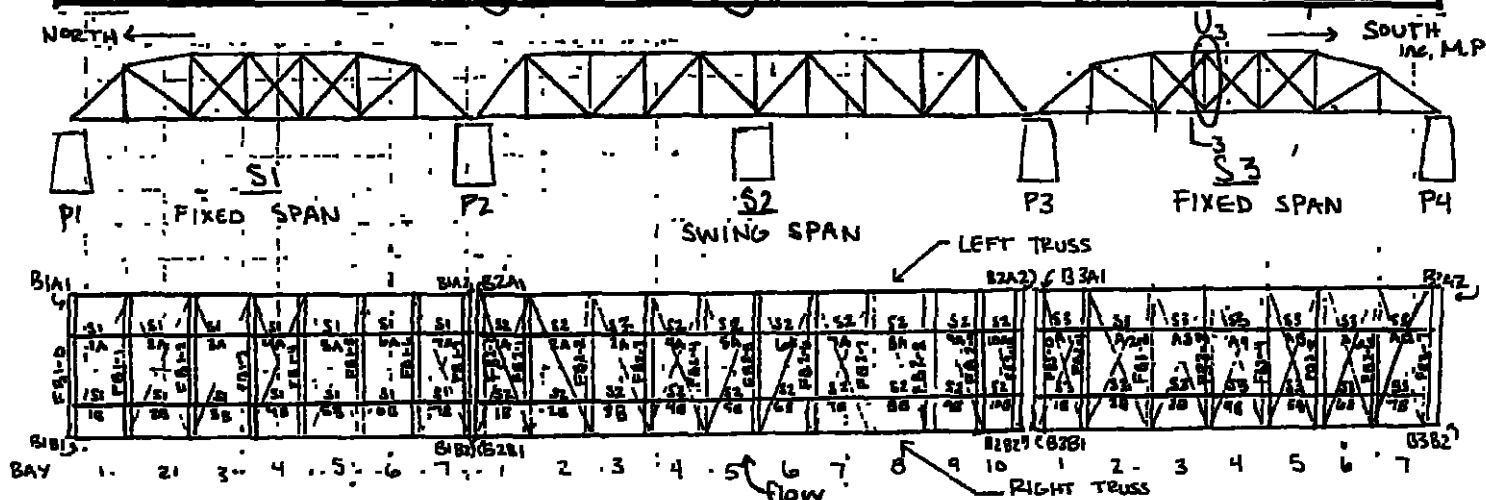
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 3/4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3		U3	holes - multiple holes in flange
NBI Rating:	2	2	3	
Condition Rating:	5	5	5	not in channel
Material Loss (%):	50	50	15	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: 4 Condition: 4 Material Loss (%): 5

Remarks:

Lower Pin:

NBI: 3 Condition: 5 Material Loss (%): 20

Remarks: section loss due to corrosion

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

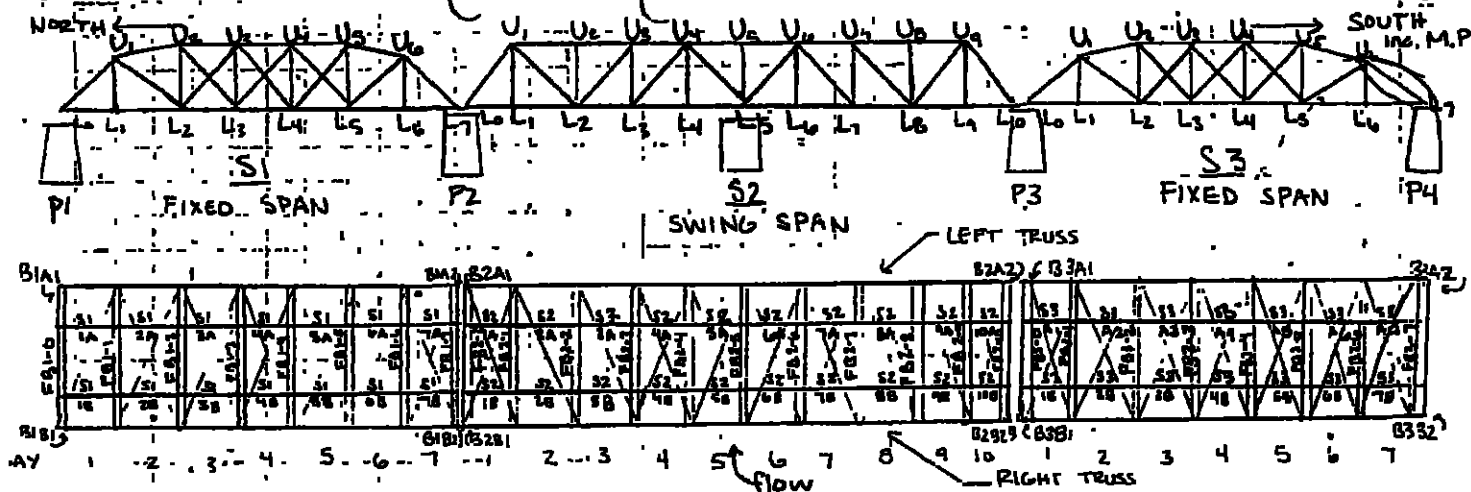
FOR Oregon Rail Assessments

INSPECTED BY JM HC

DATE 9/14/09

WEATHER

Location: Span 1 2 3 Truss (L) R Member TC BC MC Bay: 7



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>17</u>	<u>3</u>	<u>16</u>	
Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Material Loss (%):	<u>25%</u>	<u>25%</u>	<u>25%</u>	

Cross Brace:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:

**DAVID EVANS
AND ASSOCIATES INC.**

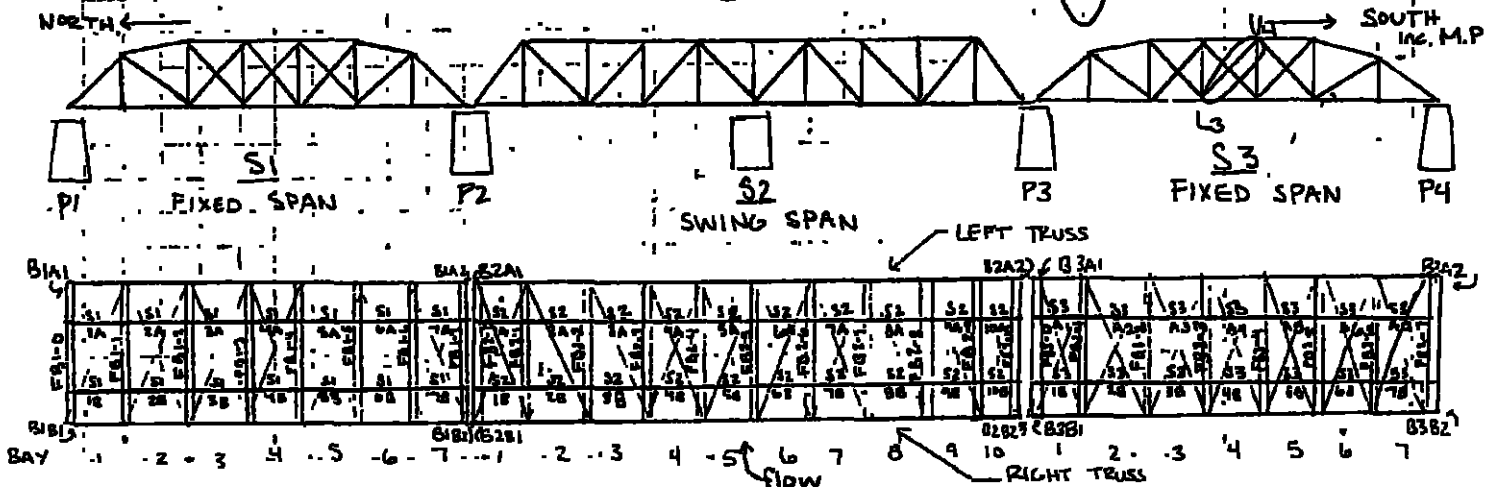
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR -Siustlaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 09/14/08

WEATHER 570F

Location: Span 1 2 (3) Truss L (R.) Member TC BC MC Bay: 4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L3		V4	
BI Rating:	5	6	4	refined neutral, minor pthys
Condition Rating:	3	3	5	
Material Loss (%):	22	0	10	peak rust and some surface section loss

Cross Brace:

NBI: _____ Condition: _____ Maternal Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Maternal Loss (%): _____

Remarks:

General Comments/Recommendations:

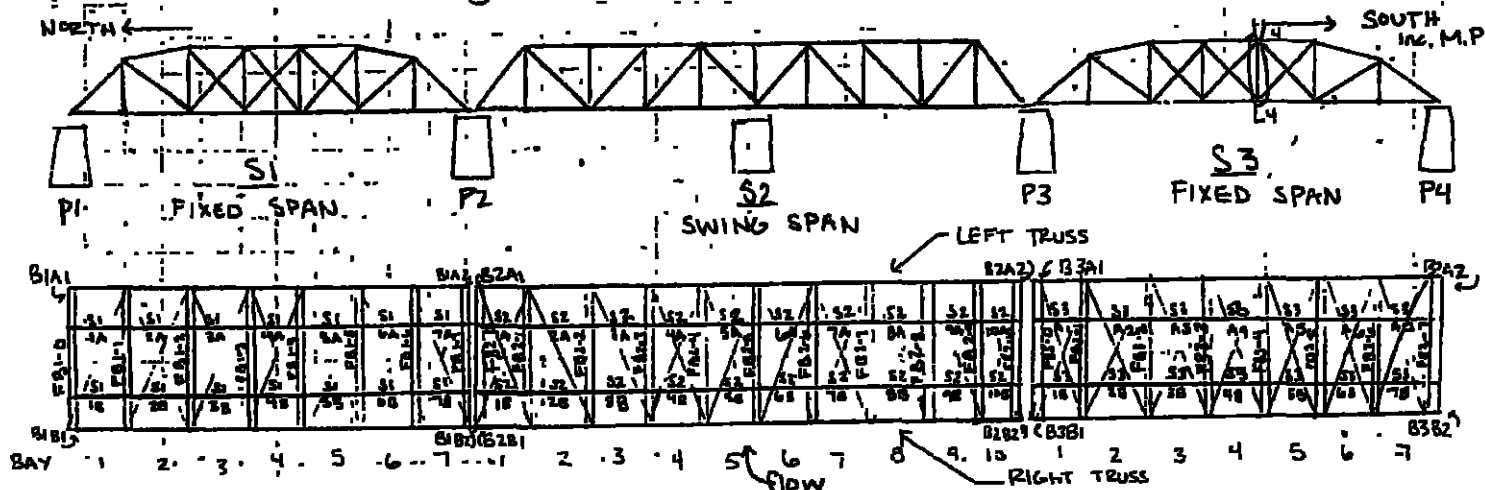


DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/05
WEATHER W GSE

Location: Span 1 2. (3) Truss L (R) Member TC BC (AC) Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
L4	L4		U4	50%
BI Rating:	2	2	3	
Condition Rating:	5	5	5	100% multiple files in chord web
Material Loss (%):	75	75	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____ access restricted.
Remarks: _____

Lower Pin: L4 *
NBI: 1 Condition: 5 Material Loss (%): 15 1.5" loss of radius
Remarks: _____

General Comments/Recommendations:
* typical for entire span unless otherwise noted

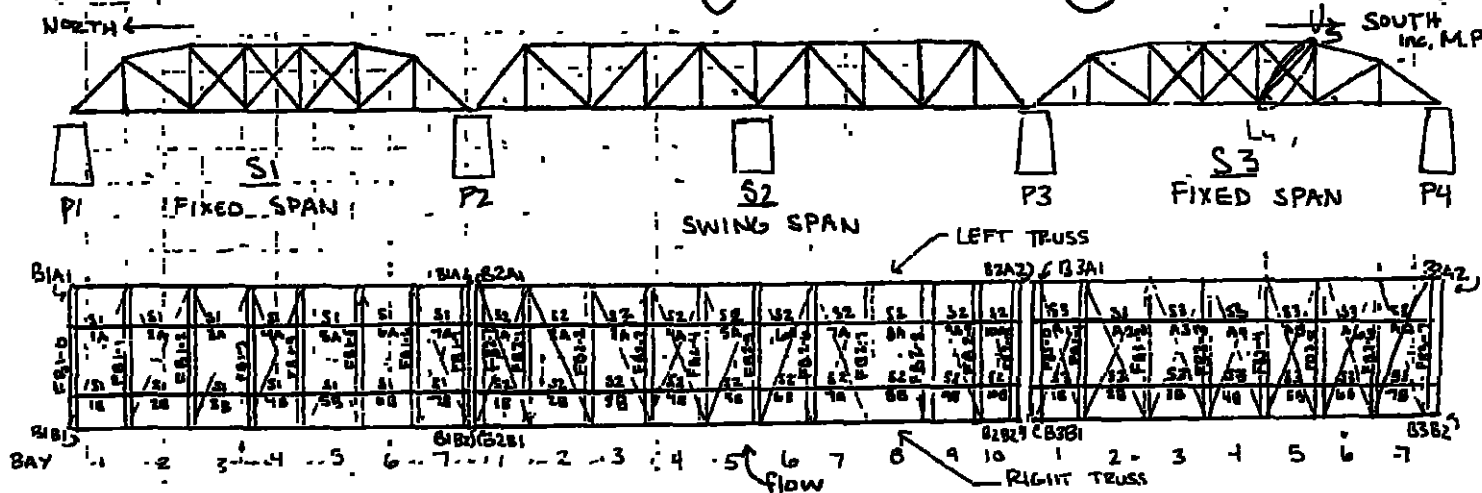


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AE/RL
DATE 9/14/06
WEATHER W65F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L4		U5	
BI Rating:	3	3		
Condition Rating:	5	5		
Material Loss (%):	20	20		

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____

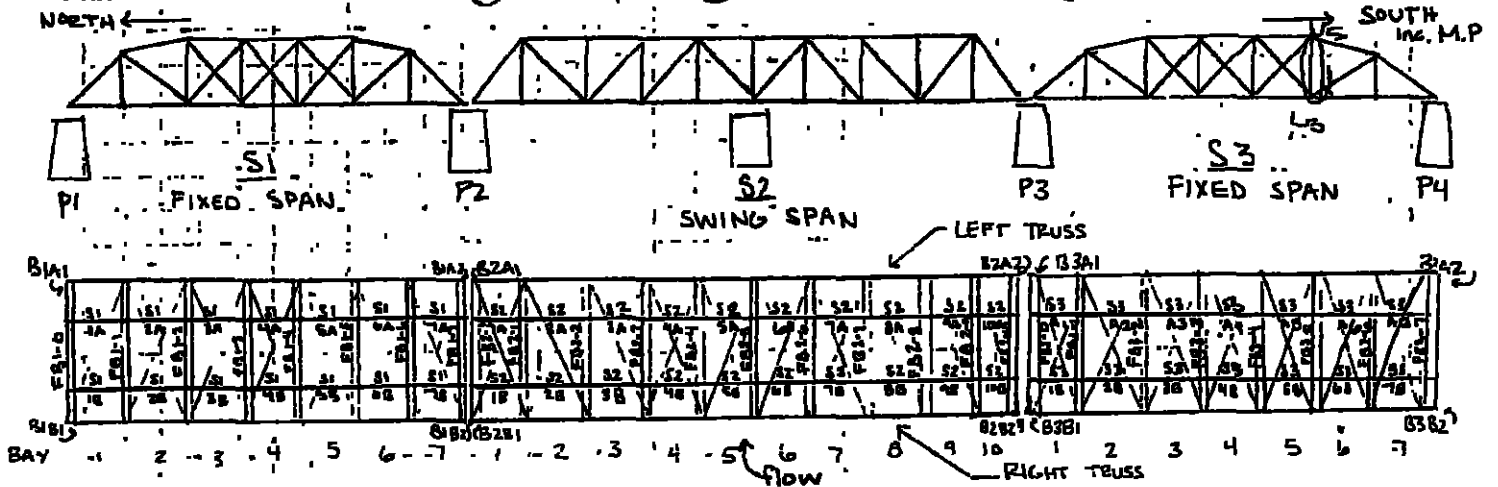


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/06
WEATHER W/6SS

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L5		US	
NBI Rating:	3	3	3	filling in the flanges
Condition Rating:	5	5	5	
Material Loss (%):	31	20	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: L5
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: 1" section loss, rusted nut

General Comments/Recommendations: _____

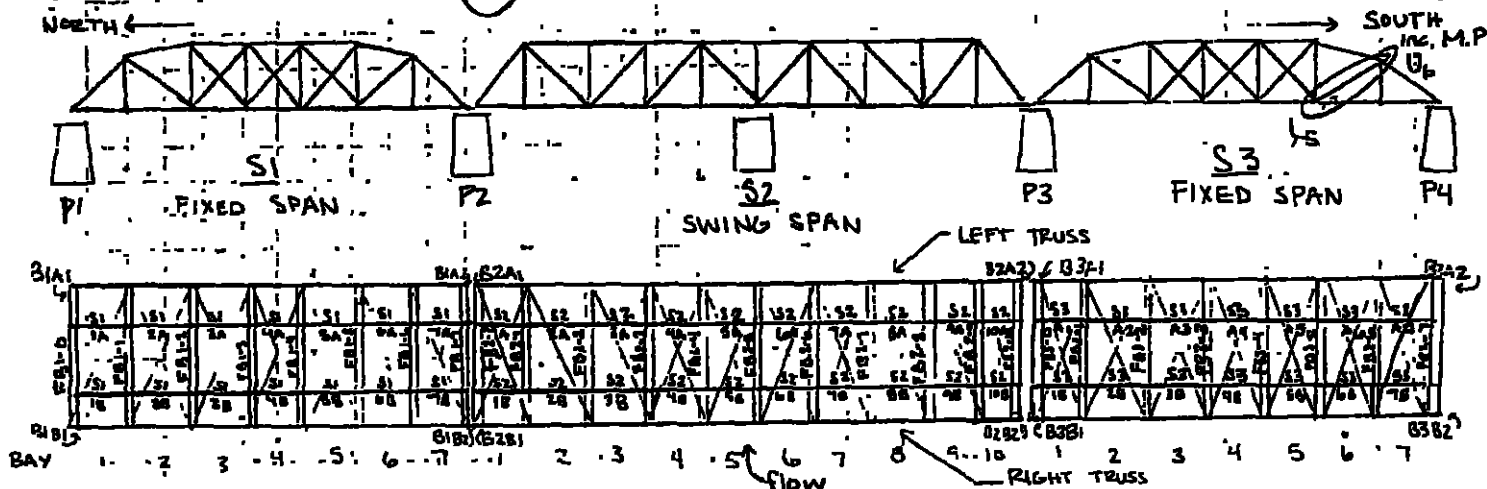


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/04
WEATHER SCSE

Location: Span 1 2(3) Truss L R Member TC BC MC Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L5		U6	
BI Rating:	4	6	4	
Condition Rating:	4	5	4	
Material Loss (%):	5	0	5	

Cross Brace:
NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):

Remarks:

Stringer:
NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
& ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER SLFS

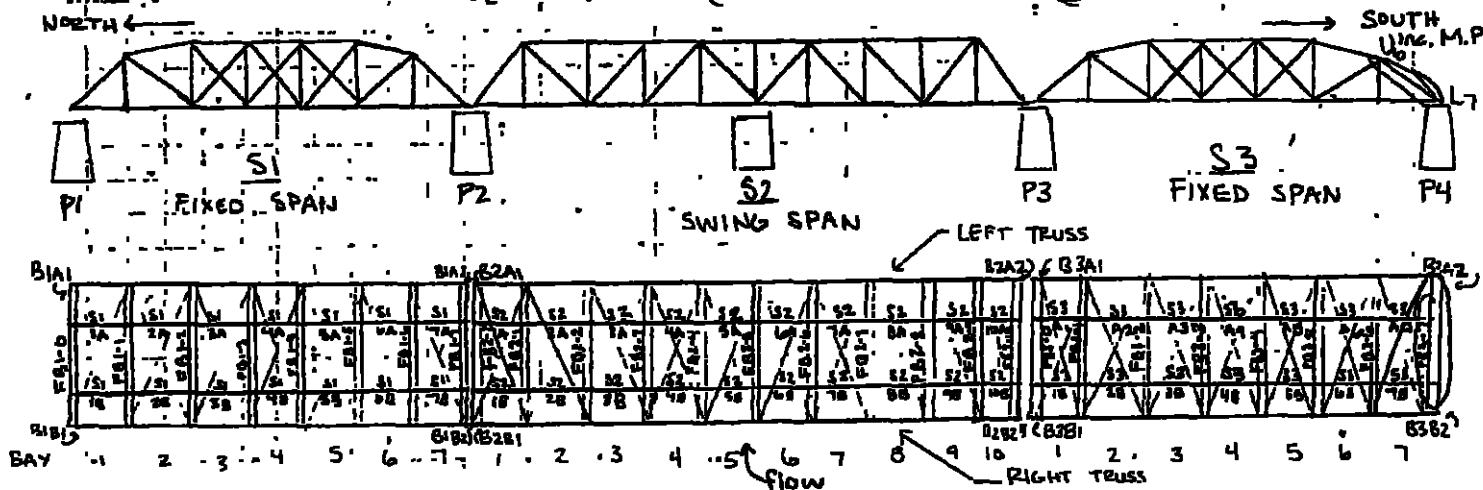
Location:

Span 1 2 3

Truss L (R)

Member TC BC (MC)

Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>U6</u>		<u>L7</u>	
Condition Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>40/5</u>	

Cross Brace: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: FR 3-7
 NBI: 4 Condition: 4 Material Loss (%): →
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

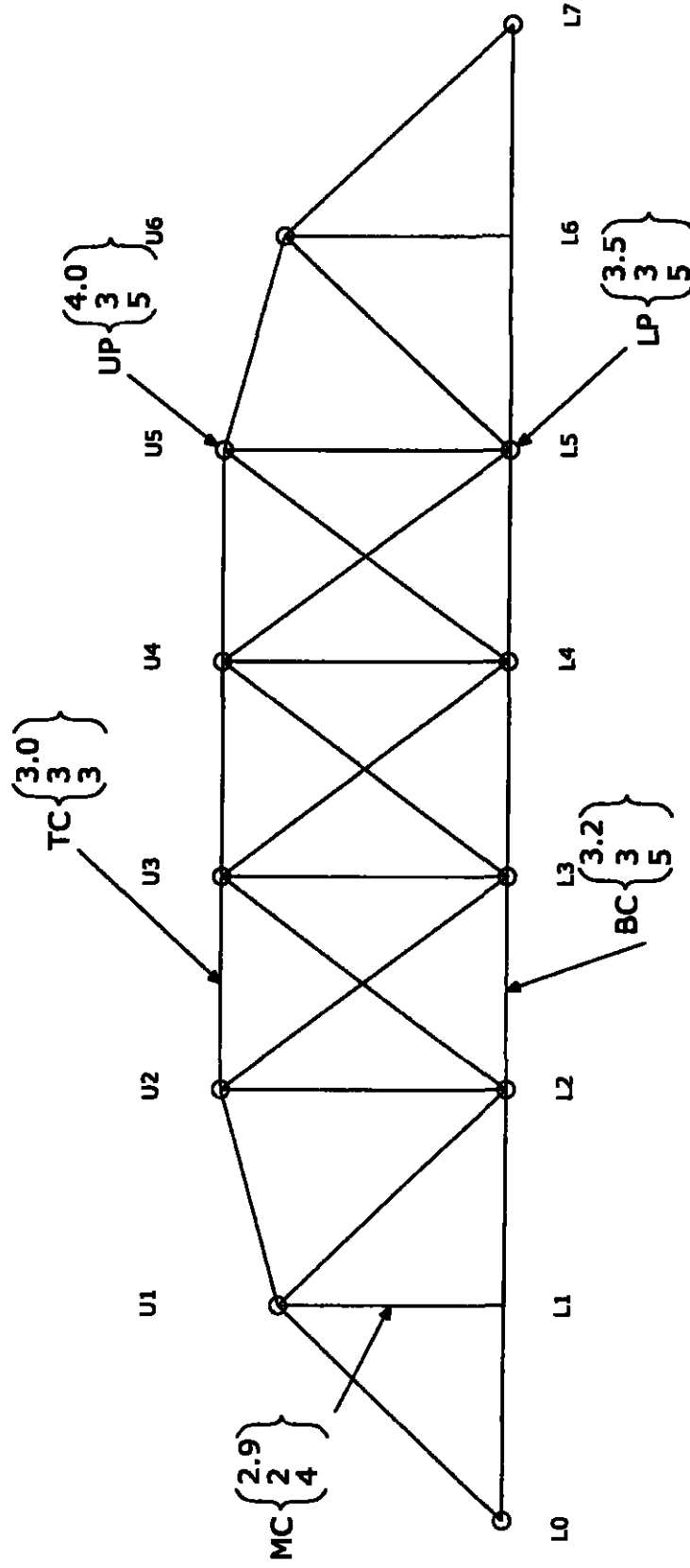
Upper Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations: _____

LEFT SPAN 3

NBI Rating { AVERAGE
LOW HIGH }



Legend:

- TC Top Chord
- MC Middle Chord
- BC Bottom Chord
- UP Upper Pin
- LP Lower Pin



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

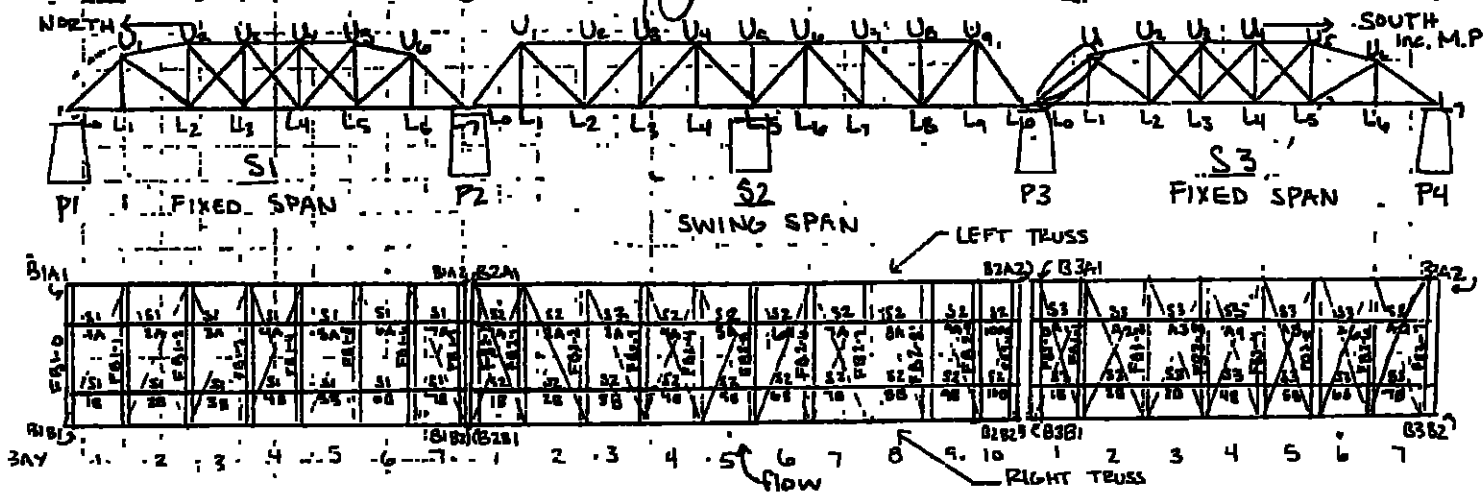
FOR Oregon Rail Assessments

INSPECTED BY mac

DATE 9/14/08

WEATHER 570

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L6		U1	75% Top plate
Rating:	2	2		75% wheel
Condition Rating:	5	5	5	
Material Loss (%):	75%	75%	75%	Minor pitting everywhere

Cross-Brace

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: FB3-1

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

typical FB

Stringer

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin: Gre Span 1 LOU1

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

marks.

General Comments/Recommendations:

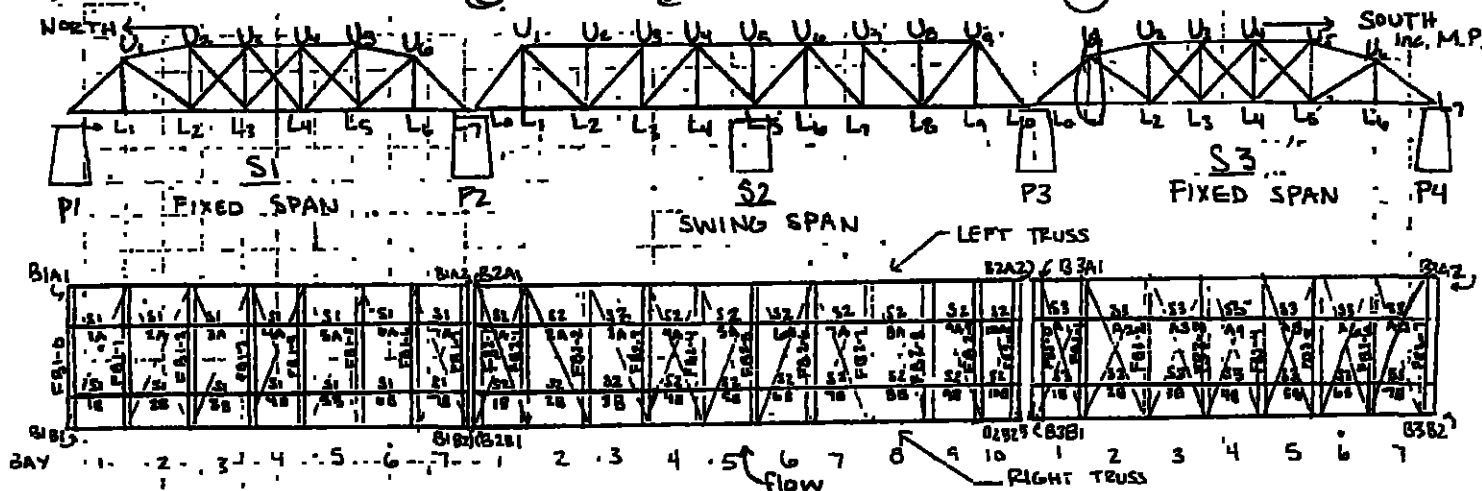


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY jm hach
DATE 9/14/08
WEATHER 570

Location: Span 1 2 (3) Truss (L) R Member TC BC (MC) Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Rating:	<u>2</u>	<u>3</u>	<u>3</u>	<u>RP. 10.50, pitting</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>50%</u>	<u>25%</u>	<u>25%</u>	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: See Span 1 L1U1

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: See Span 1 L1U1

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

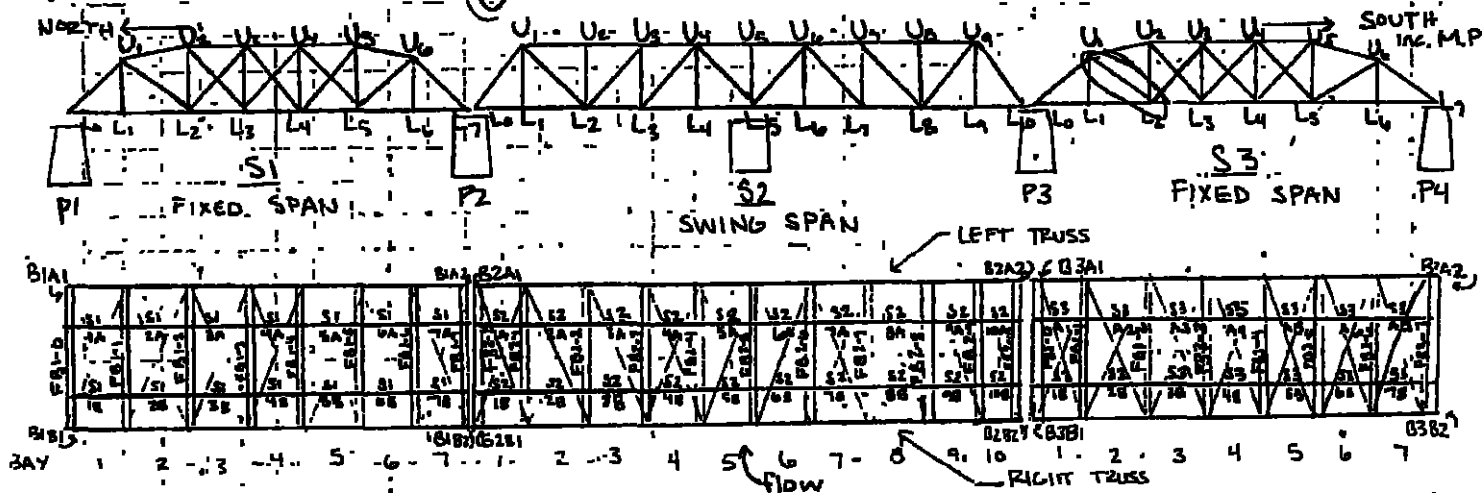
FOR Oregon Rail Assessments

INSPECTED BY W Hall

DATE 9/14/05

WEATHER 57°

Location: Span 1 2 3 Truss D R Member TC BC BC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L2		U1	Moderate pitting
Rating:	4	4	4	
Condition Rating:	5	5	5	
Material Loss (%):	10%	10%	10%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____

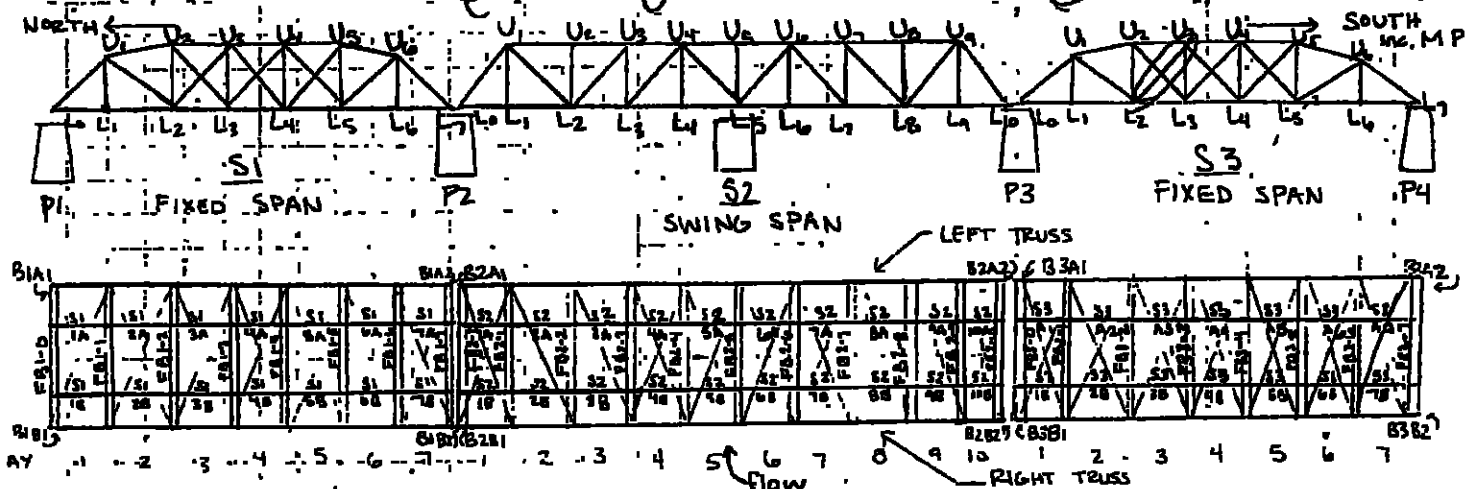


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Skuslaw River
FOR Oregon Rail Assessments

INSPECTED BY W. H. C.
DATE 7/11/09
WEATHER S70

Location: Span 1 2 (3) Truss (L) R Member TC BC (C) Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L7		U3	heavy pitting
Rating:	3	2	3	
Condition Rating:	3	5	3	
Material Loss (%):	60%	100%	50%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



Cushman, OR -Siuslaw River

WEATHER \$70

Bay: 2



	Joint	Element	Joint	Remarks:
Member Name:	3		2	
Rating:	3	3	3	pitting
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pine.

NR[:] Condition: Material Loss (%):

marks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY Jim Hc

DATE 9/14/08

WEATHER 57°

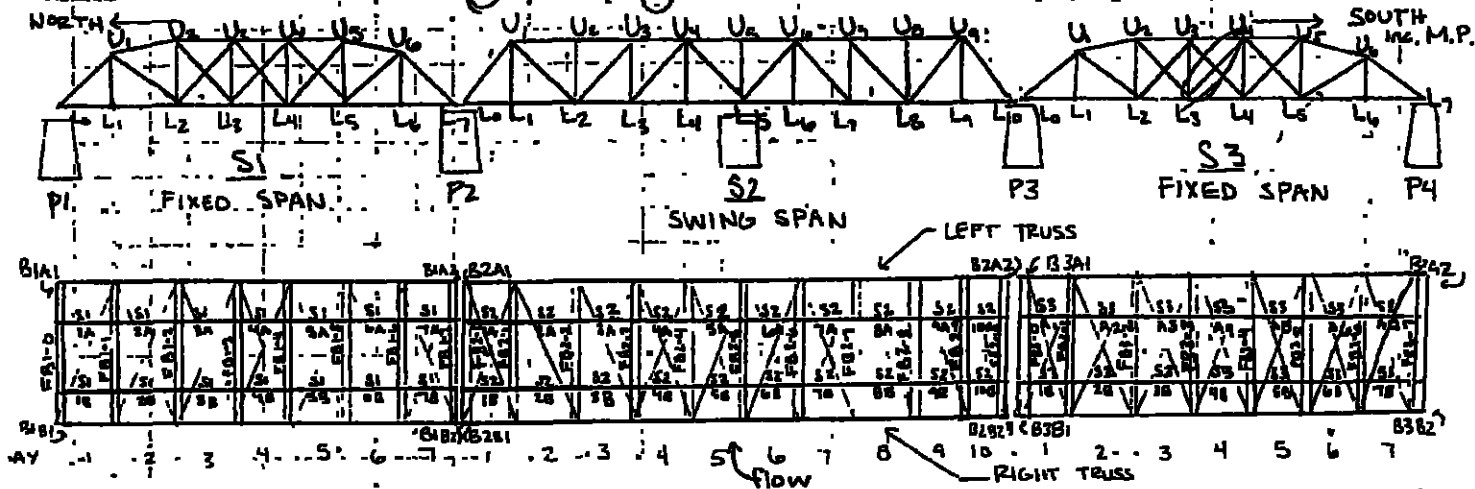
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L3		U4	
Rating:	3	3	3	Moderate pitting
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Upper Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations: _____

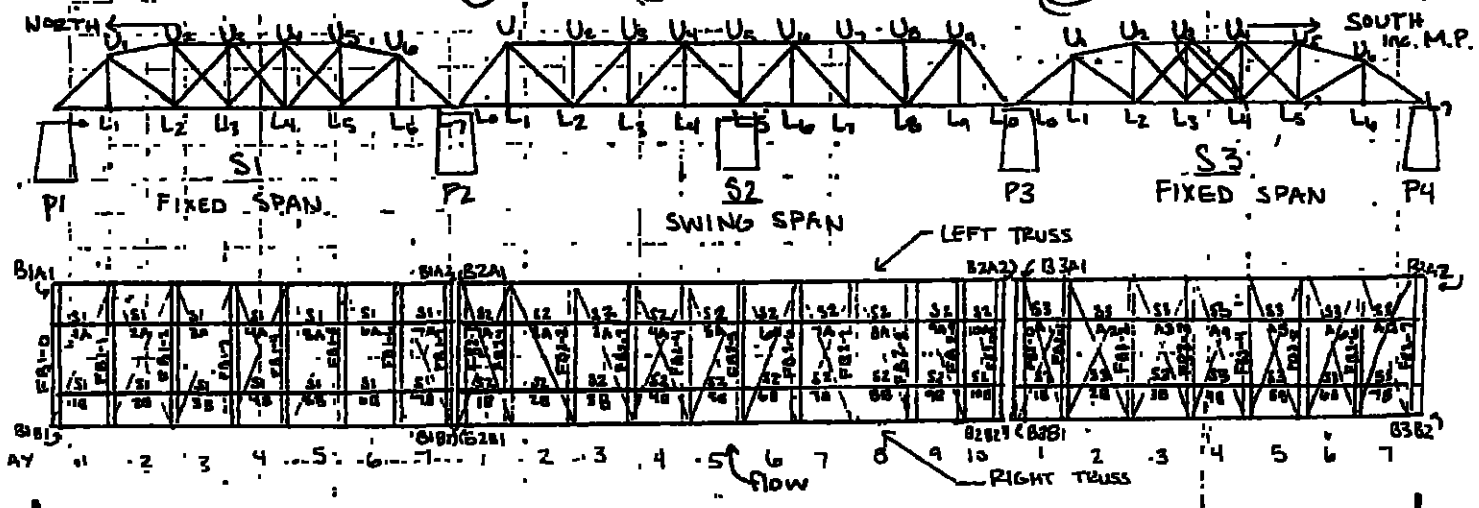


DAVID EVANS
ASSOCIATES

INSPECTED BY Jim Hc
DATE 9/14/09
WEATHER 570

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

Location: Span, 1 2 3 Truss L R Member TC BC MC Bay: 4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	4		U3	heavy pitting
Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50%	

Cross Brace:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

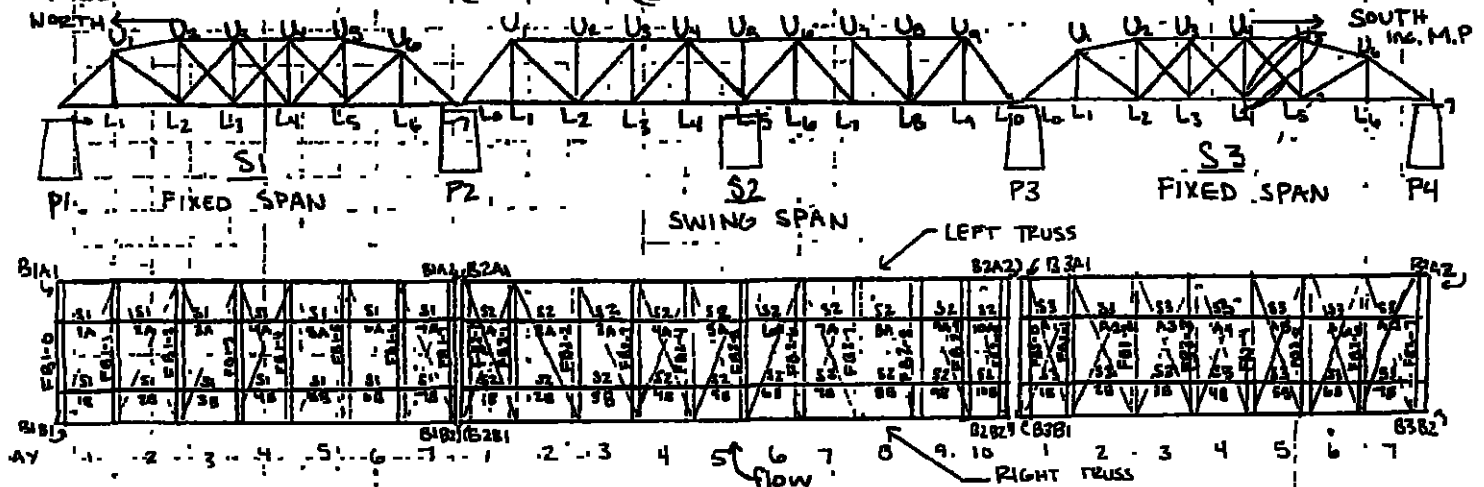


DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Wm Lw
DATE 6/14/08
WEATHER 970

Location: Span 1 2 (3) Truss (L) R Member TC BC (MC) Bay: 5



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L4		U5	
Rating:	4	4	4	moderate turn rust
Condition Rating:	4	4	4	
Material Loss (%):	10%	10%	10%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____

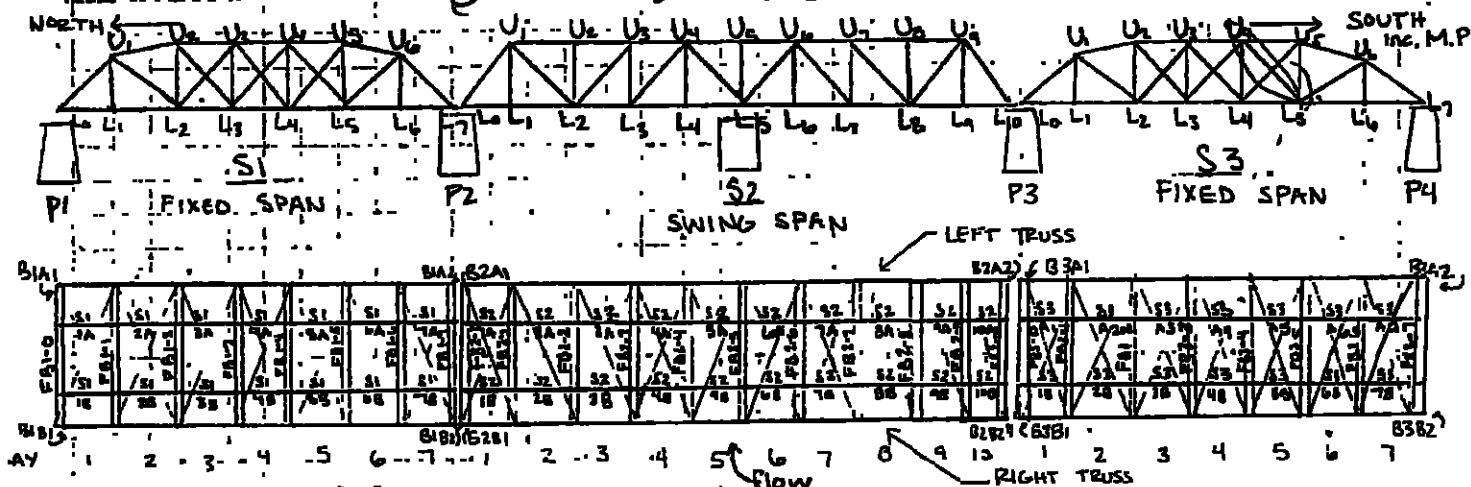


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY jm h
DATE 09/14/08
WEATHER 570

Location: Span 1 2 (3) Truss (L) R Member TC BC (MC) Bay: 5



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U4		L5	<u>HEAVY</u> <u>HEAVY</u> pitting
Rating:	2	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



Cushman, OR -Siuslaw River

INSPECTED BY: TWM HY

DATE 9/14/08

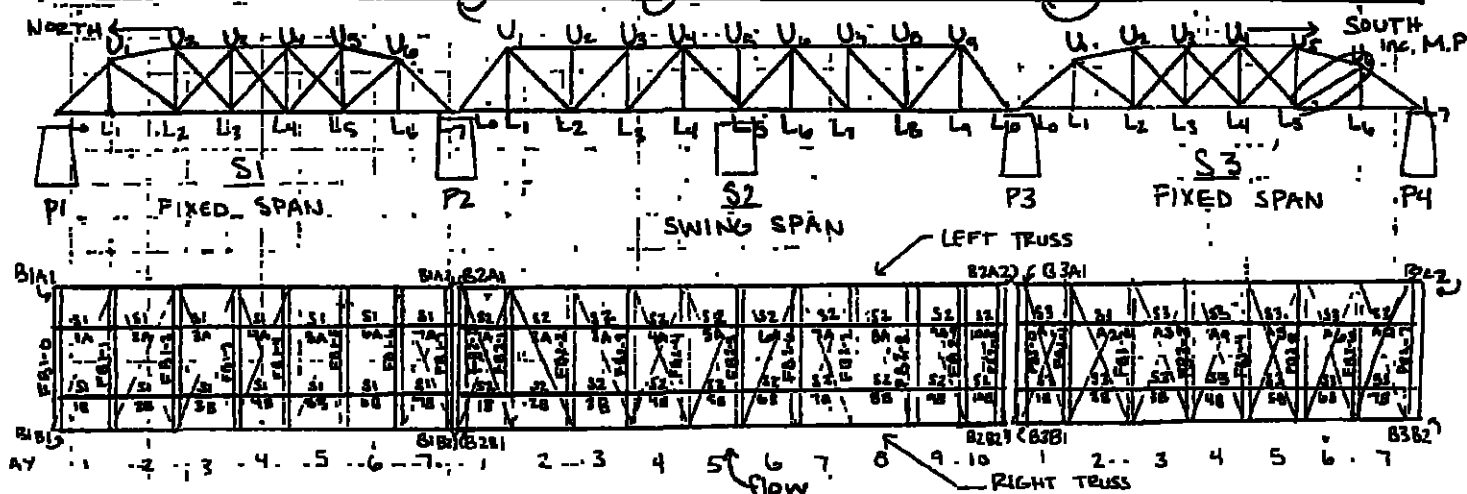
WEATHER W/65

Span. 1 2 3

Truss / L, R

Member	TC	BC
--------	----	----

Bay: 6

**Inspection Notes:**

Member Name:	Joint	Element	Joint	Remarks:
Rating:	4	4	4	Moderate pitting
Condition Rating:	4	4	4	
Material Loss (%):	10%	10%	10%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: **Condition:** **Material Loss (%):**

Remarks:

Stringer:

NBI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Upper Pin:..

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Maternal Loss (%): _____

marks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY: JWM JTC

DATE 9/14/08

WEATHER 18/65

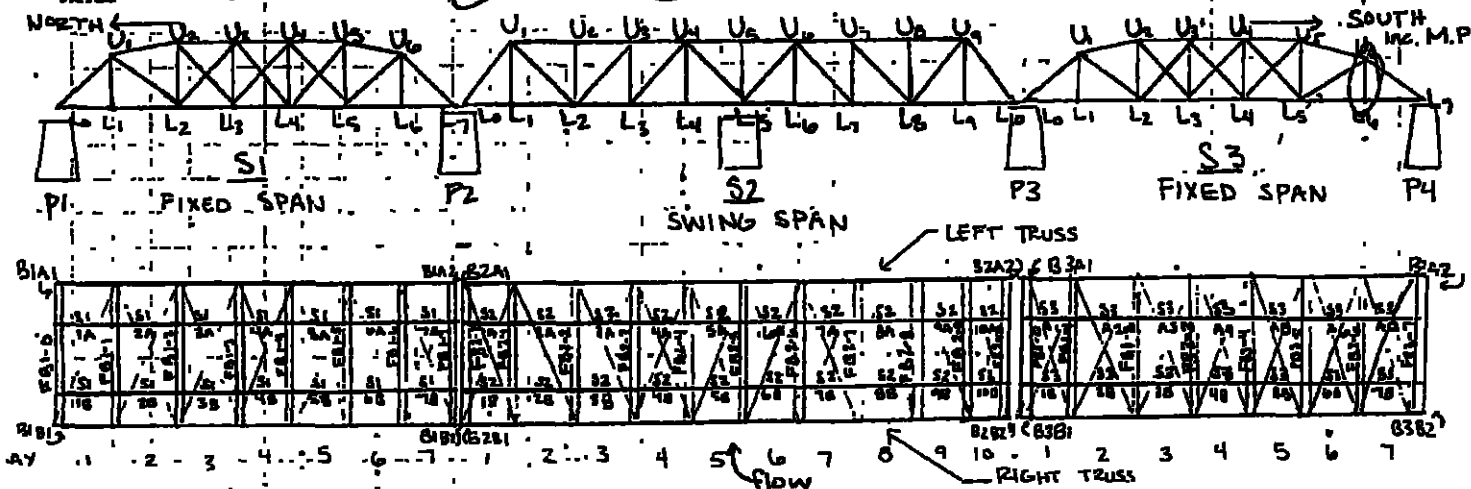
Location:

Span 1 2 3

Truss (L): R

Member TC BC (MC)

Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	10		U10	
Rating:	3	4	4	spalling / pitting
Condition Rating:	5	4	4	
Material Loss (%):	20%	10%	10	

Cross Beam: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Upper Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: NO BLOCKS see S1 U6L6

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations:

SPAN 3 (FIXED SPAN)





DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER 57°F

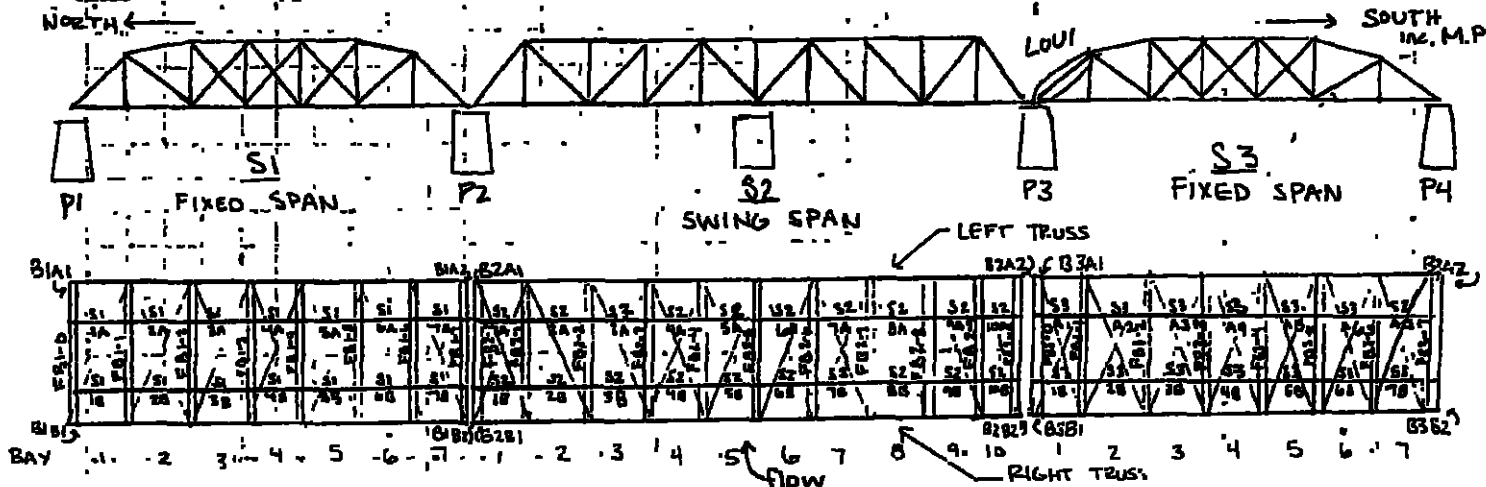
Location:

Span 1 2 (3)

Truss L (R)

Member TG BC (MC)

Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L0		U1	severe pitting
BI Rating:	3	4 (0)	3	
Condition Rating:	5	5	5	
Material Loss (%):	10	→	10	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: 6 Condition: 3 Material Loss (%): <1%

Remarks:

referred paint

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

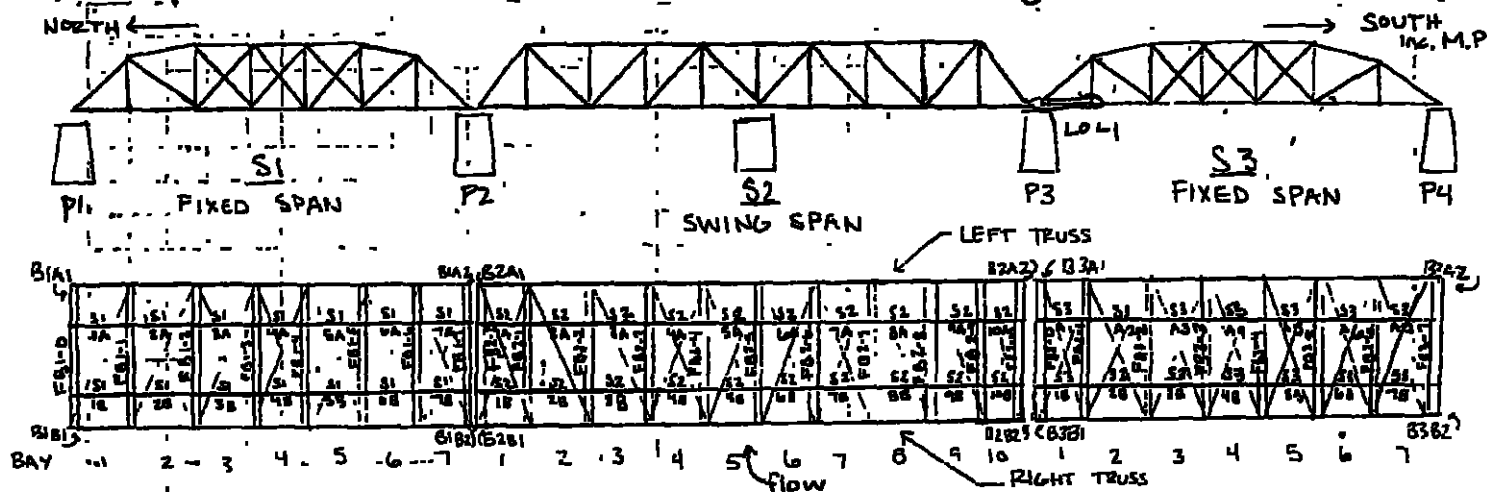
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/68

WEATHER 570F

Location: Span 1 2 (3) Truss L R Member TC BC MC Bay: 1



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L0		L1	75'
NBI Rating:	3	3	3	75' 2.5
Condition Rating:	5	3	5	
Material Loss (%):	25	→	20	some pulling & lacing, corroded flanges

Cross Brace:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Floor Beam: FB3-0			
NBI: 3	Condition: 5	Material Loss (%): →	75' 25 50 25
Remarks:			

Stringer: 531B			
NBI: 3	Condition: 5	Material Loss (%): →	75' 25 50
Remarks:			

Upper Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

Lower Pin:			
NBI:	Condition:	Material Loss (%):	
Remarks:			

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

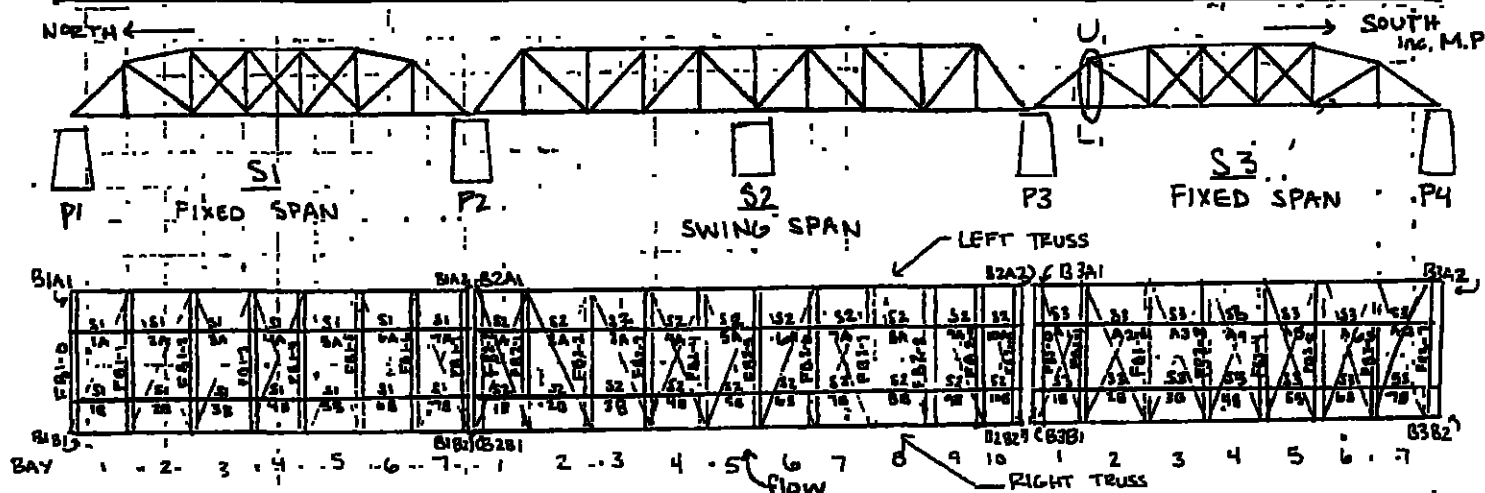
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER 87°F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 1/2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L1		U1	
Condition Rating:	3	4	5	common di main element
Material Loss (%):	20	10	< 8%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: 6 Condition: 3 Material Loss (%): < 2%

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

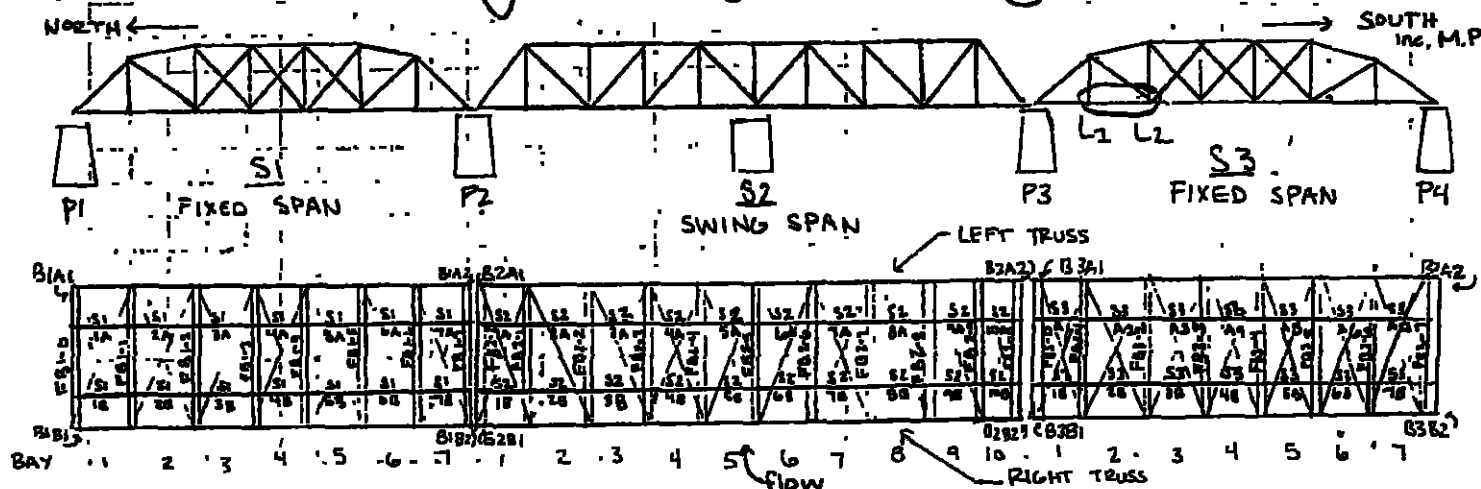
FOR Oregon Rail Assessments

INSPECTED BY AS/RL

DATE 9/14/09

WEATHER S70F

Location: Span 1: 2 (3) Truss L (R) Member TC (BC) MC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L1		L2	
NBI Rating:	4	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	15	⇒	50	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: F23

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Stringer: 532B

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY AR/LV

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

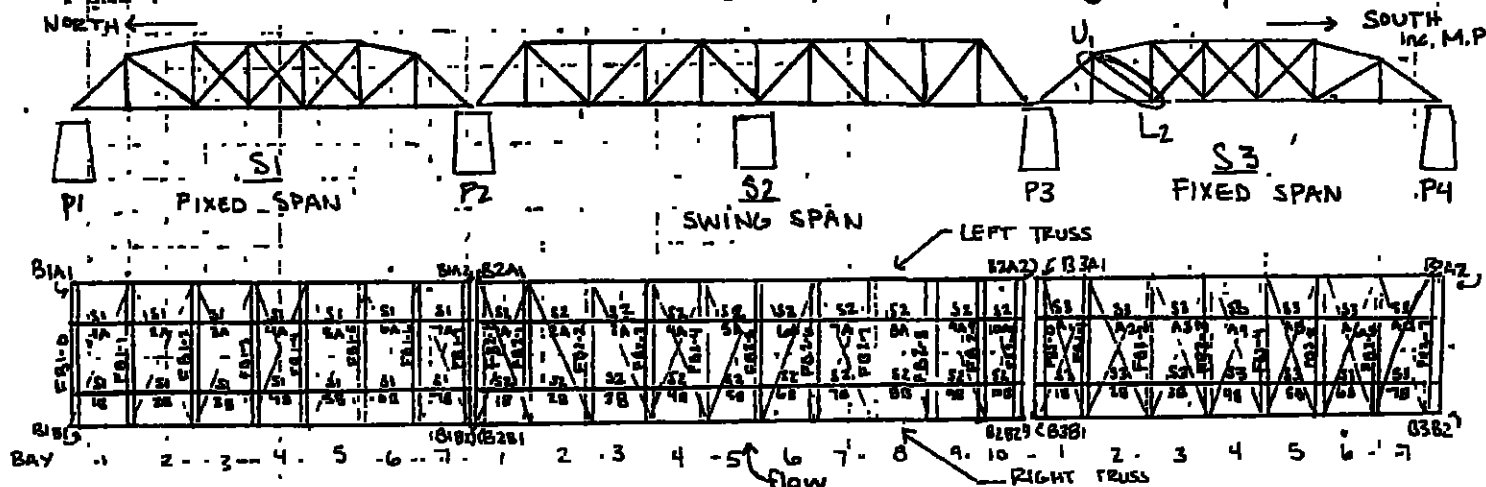
DATE 9/14/08

Cushman, OR - Siuslaw River

WEATHER 57°F

FOR Oregon Rail Assessments

Location: Span 1 2 (3) Truss L (R) Member TC BC MG Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U1	U1	L2	L2	severe pitting on up. face
Condition Rating:	5	3	3	
Material Loss (%):	~2	10	20	pail rust @ L2 joint

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations: _____

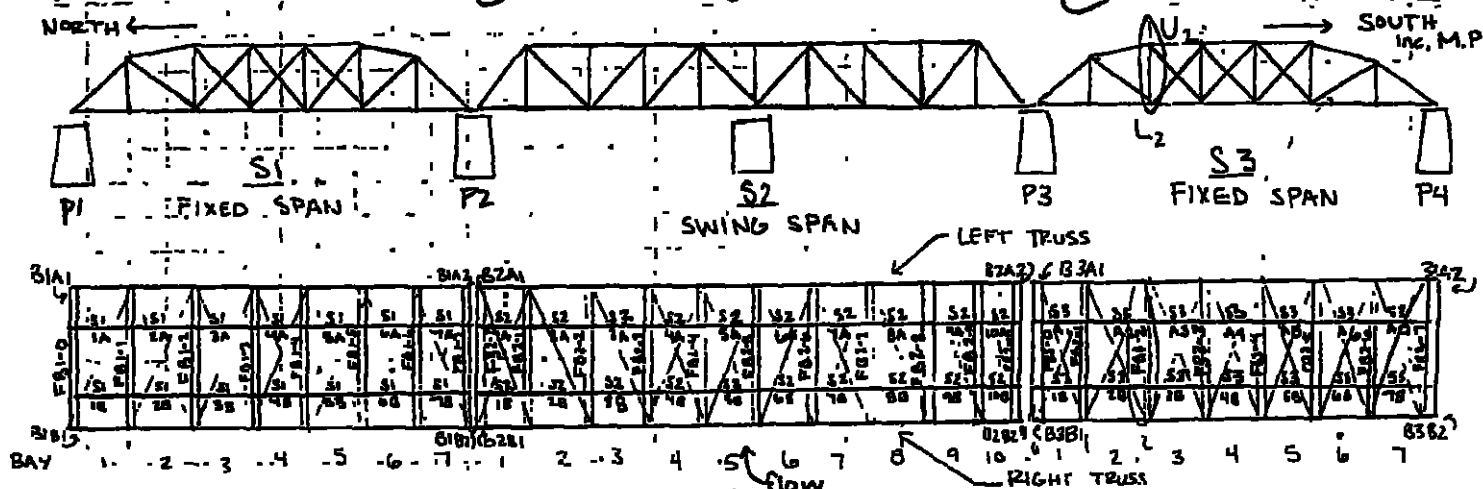


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Suslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 7/14/06
WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 2/3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L2</u>		<u>U2</u>	
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>60</u>	<u>50</u>	<u>10</u>	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin:

NBI: 3 Condition: 5 Material Loss (%): 20
Remarks: _____

Lower Pin:

NBI: 3 Condition: 5 Material Loss (%): 20
Remarks: _____

General Comments/Recommendations:

* TYPICAL PIN FOR ENTIRE SPAN

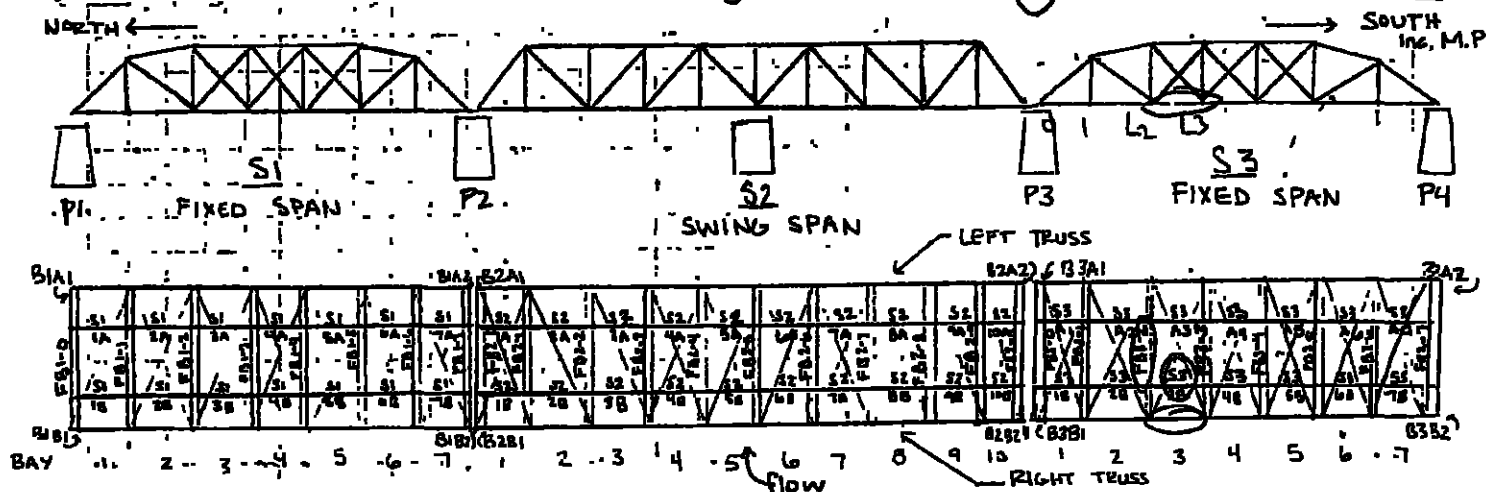


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 11/14/08
WEATHER 570F

Location: Span 1 2 (3) Truss L (R) Member TC (BC) MC Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L2</u>		<u>L3</u>	
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>10</u>	

Cross Brace: 1
NBI: 2 Condition: 5 Material Loss (%): 90 (cross brace essentially does not exist.)
Remarks:

Floor Beam: EA3-2
NBI: 2 Condition: 5 Material Loss (%): 50 *hole in web*
Remarks:

Stringer: 53.3B
NBI: 2 Condition: 5 Material Loss (%): 4 *7/16 30 25 25*
Remarks:

Upper Pin: 1
NBI: 1 Condition: 1 Material Loss (%): 1
Remarks:

Lower Pin: 1
NBI: 1 Condition: 1 Material Loss (%): 1
Remarks:

General Comments/Recommendations:



DAVID EVANS
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JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

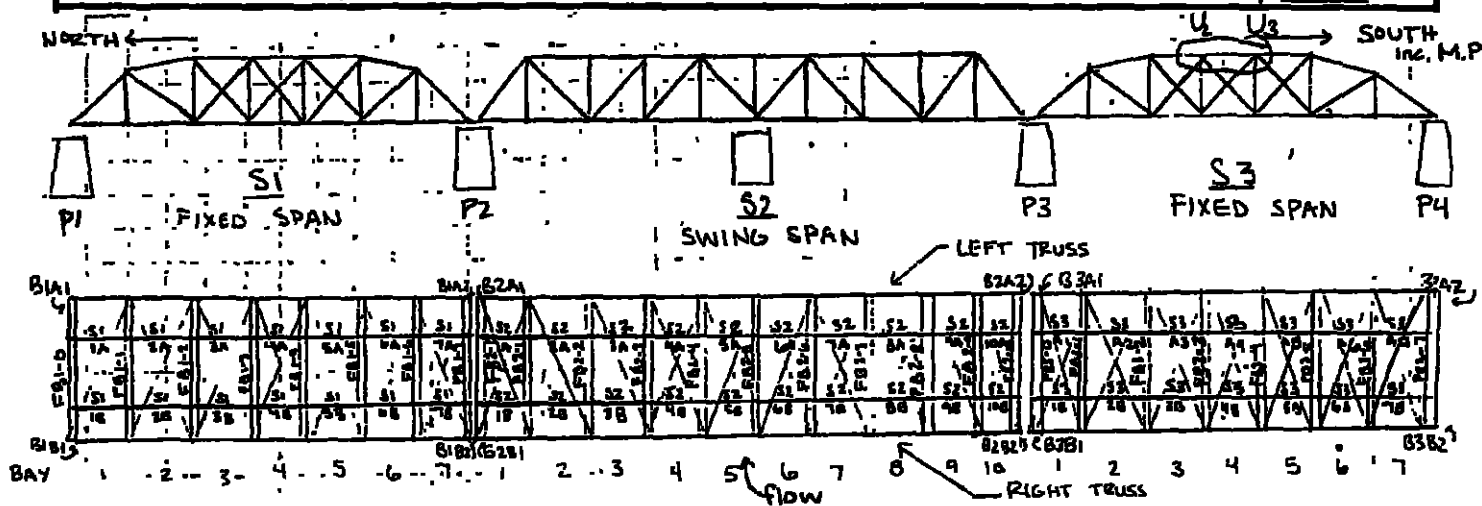
FOR Oregon Rail Assessments

INSPECTED BY _____

DATE _____

WEATHER _____

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	1/3		1/4	Typical
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:

Typical for all top chords in span



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/el

DATE 9/14/06

WEATHER 12/2 F

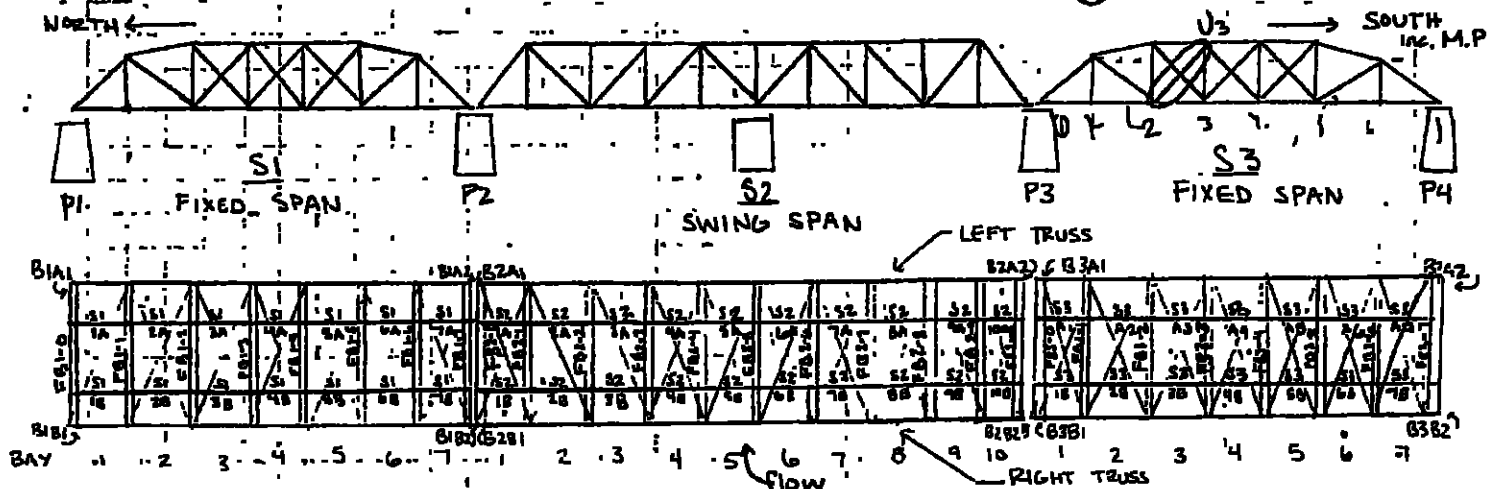
Location:

Span 1 2 3

Truss L 8

Member TC BC MC

Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L2		U3	
AI Rating:	3	4	4	moderate pitting
Condition Rating:	5	4	4	
Material Loss (%):	36	5	5	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



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AND ASSOCIATES

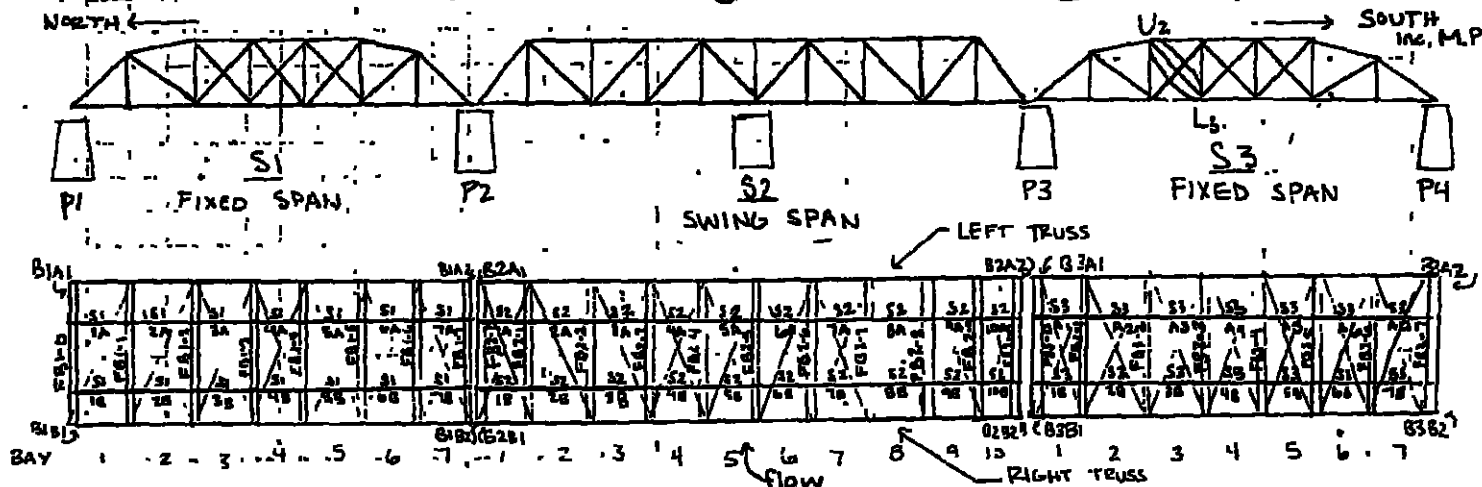
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Sluslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	U2		L3	
NBI Rating:	6	5	4	
Condition Rating:	4	4	4	
Material Loss (%):	7	5	5	

Cross Brace:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

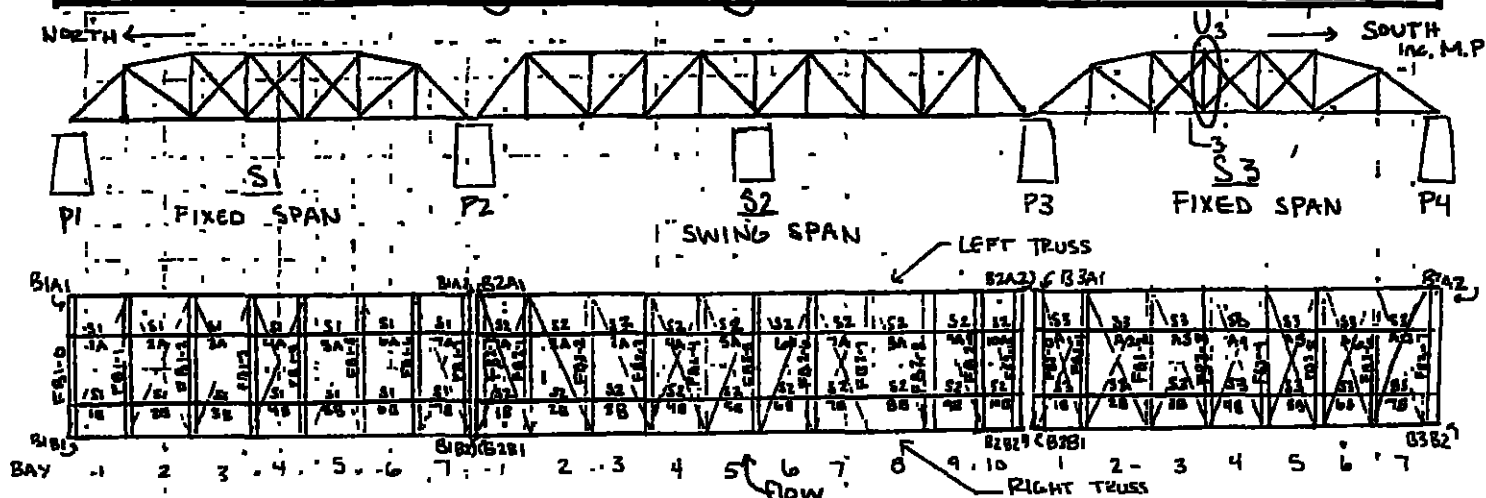


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 1/14/08
WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 3/4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3		U3	holes - multiple holes in the
NBI Rating:	2	2	3	net of channel
Condition Rating:	5	5	5	
Material Loss (%):	50	50	15	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

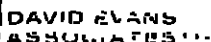
Floor Beam:
NBI: Condition: Material Loss (%):
Remarks:

Stringer:
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: 4 Condition: 4 Material Loss (%): 5
Remarks:

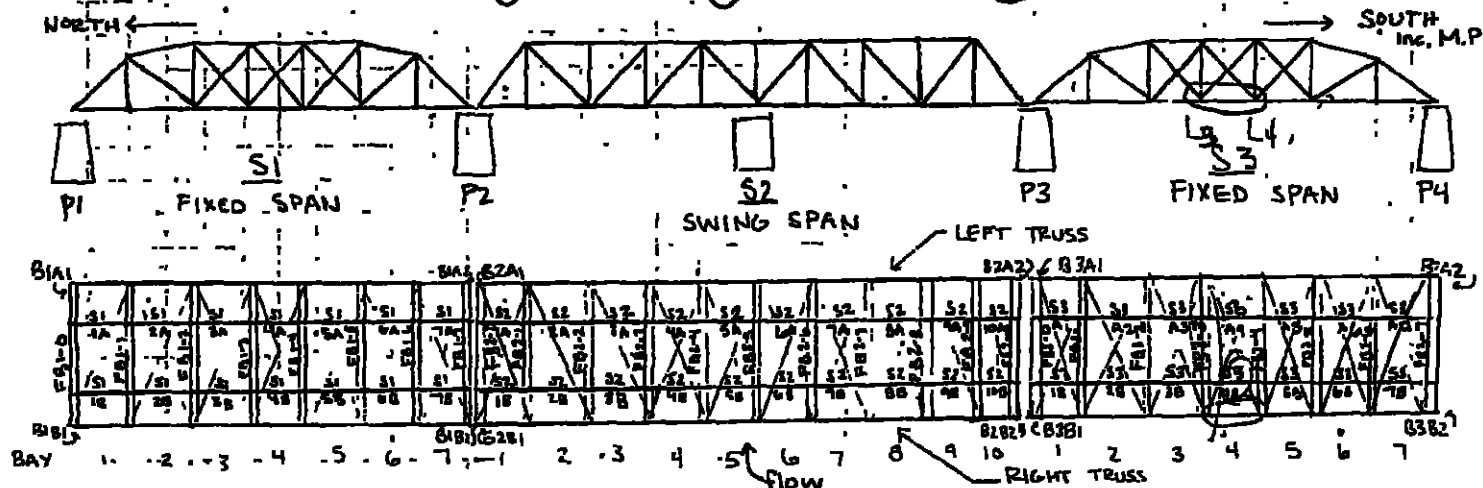
Lower Pin:
NBI: 3 Condition: 5 Material Loss (%): 20
Remarks: section loss due to corrosion

General Comments/Recommendations:



INSPECTED BY AB/RL
DATE 09/14/69
WEATHER S21F

Location: Span 1 2 (3) Truss IL (R) Member TC (BC) MC Bay: 4

**Inspection Notes:**

	Joint	Element	Joint	Remarks:
Member Name:	L3		L4	
NBI Rating:	3	4	3	
Condition Rating:	5	4	5	
Material Loss (%):	10	5	15	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam: FS 3-3

NBI: 3 Condition: 5 Maternal Loss (%):

Remarks:

Stringer: 5.342

NBI: 0.3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY JM HC

DATE 9/14/08

WEATHER _____

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

FOR Oregon Rail Assessments

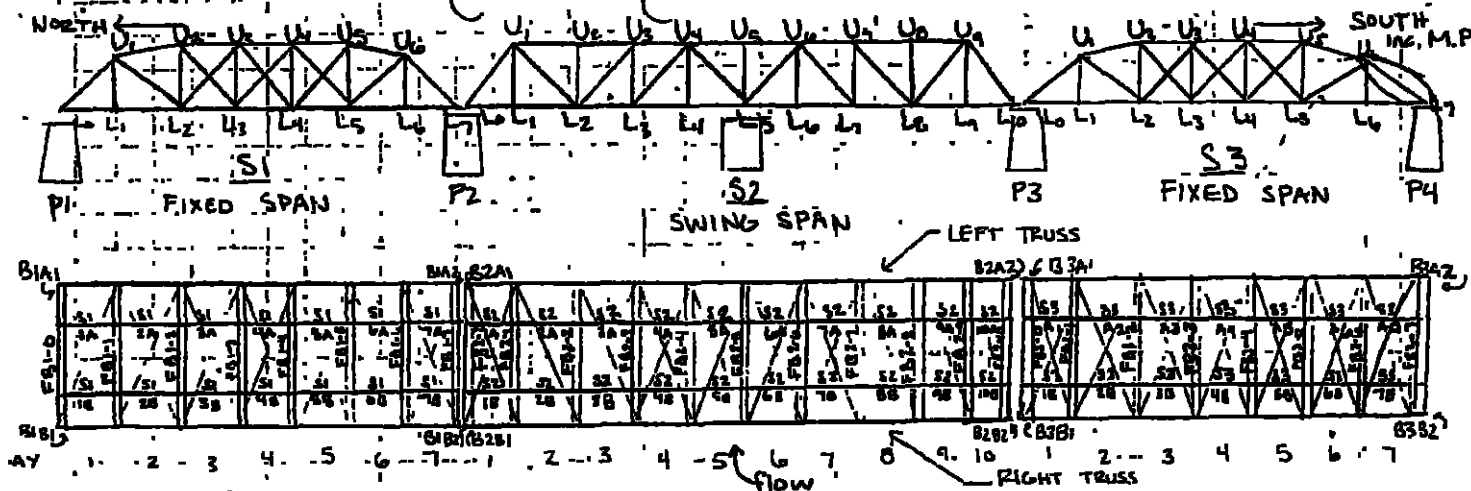
Location:

Span 1 2 3

Truss (L) R

Member: TC BC MC

Bay: 9



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L7</u>		<u>U10</u>	
Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25%</u>	<u>25%</u>	<u>25%</u>	

Cross Brace:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin:
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:

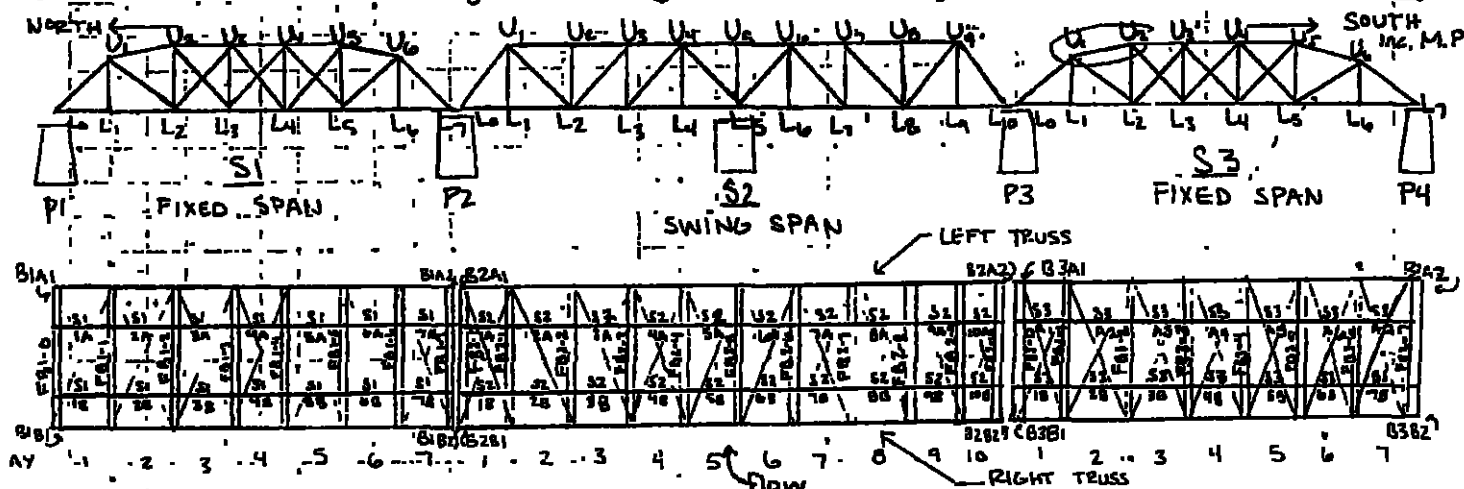


DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Sluslaw River
FOR Oregon Rail Assessments

INSPECTED BY JM/HU
DATE 9/14/09
WEATHER 16°

Location: Span 1 2 (3) Truss (L) R Member (TC) BC MC Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	U1		U2	Typical for U1 - U6
NBI Rating:				See Span 2 U2U3 member
Condition Rating:				
Material Loss (%):				

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:

All TC of Span 3 is represented by U2U3 of Span 2



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

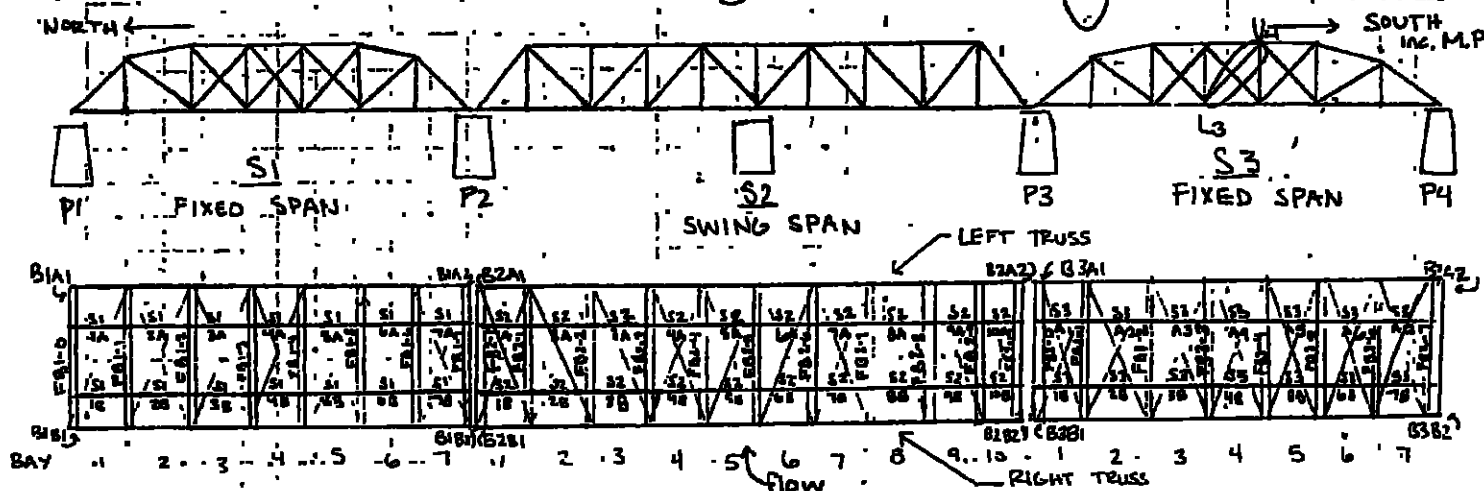
FOR Oregon Rail Assessments

INSPECTED BY AB/KL

DATE 09/14/08

WEATHER 57°F

Location: Span 1 2 (3) Truss L (R) Member TC, BC (MC) Bay: L4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L3		U4	
NBI Rating:	5	6	7	<i>refined metal, minor pitting</i>
Condition Rating:	3	3	5	
Material Loss (%):	2	0	10	<i>peak rust and some minor material loss</i>

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Flood Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

FOR Oregon Rail Assessments

INSPECTED BY AB/KL

DATE 1/14/06

WEATHER SFOE

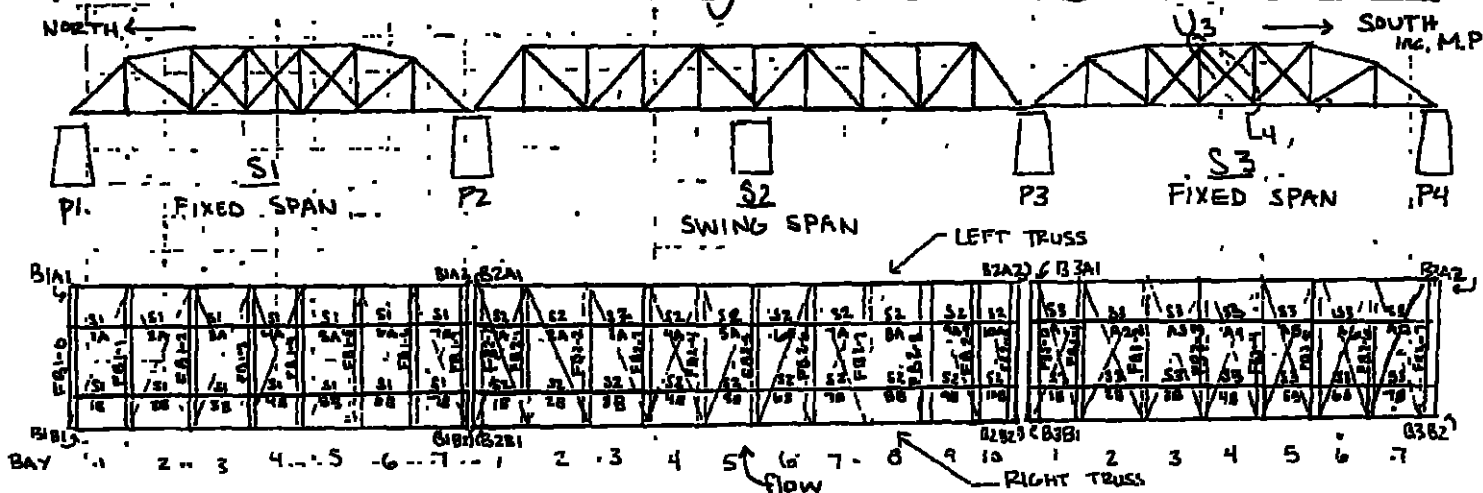
Location:

Span 1 2 3

Truss L B

Member TC BC MO

Bay: 4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L3		L4	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	15	25	16	
Gross Brace:				
NBI:		Condition:		Material Loss (%):
Remarks:				
Floor Beam:				
NBI:		Condition:		Material Loss (%):
Remarks:				
Stringer:				
NBI:		Condition:		Material Loss (%):
Remarks:				
Upper Pin:				
NBI:		Condition:		Material Loss (%):
Remarks:				
Lower Pin:				
NBI:		Condition:		Material Loss (%):
Remarks:				

General Comments/Recommendations:

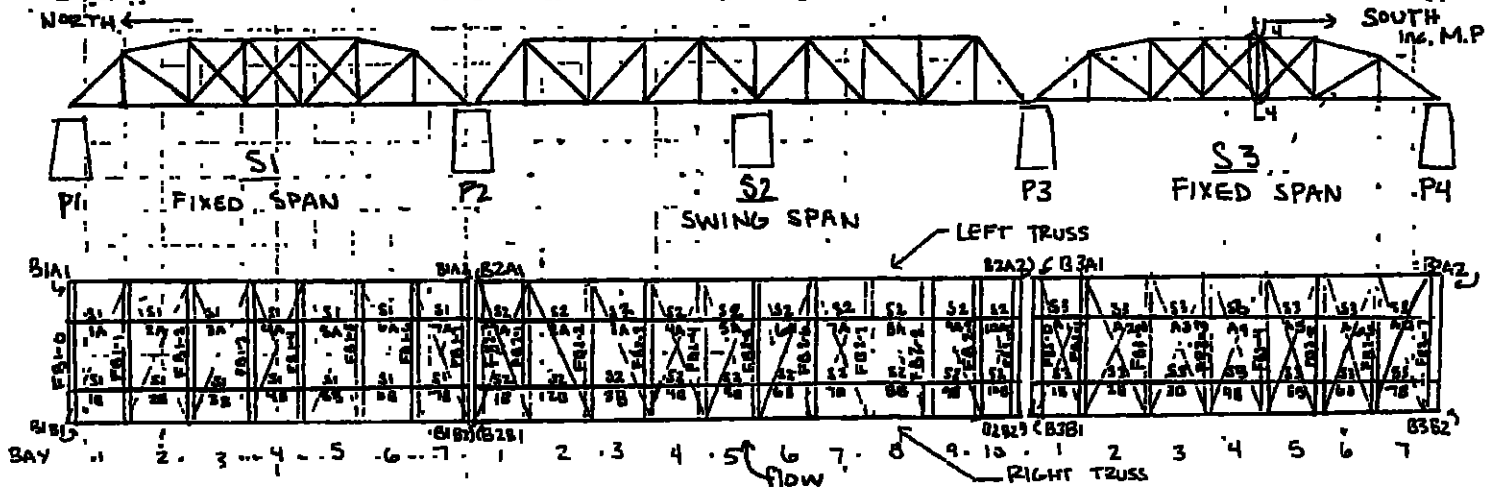


DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/02
WEATHER W/65F

Location: Span 1 2 (3) Truss L (R) Member TC BC (AC) Bay: _____



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L4		U4	
BI Rating:	2	2	3	
Condition Rating:	5	5	5	
Material Loss (%):	75	75	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: L4 *
NBI: 1 Condition: 5 Material Loss (%): 15
Remarks: 1.5' loss of radius

General Comments/Recommendations:
* typical for entire span unless otherwise noted



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

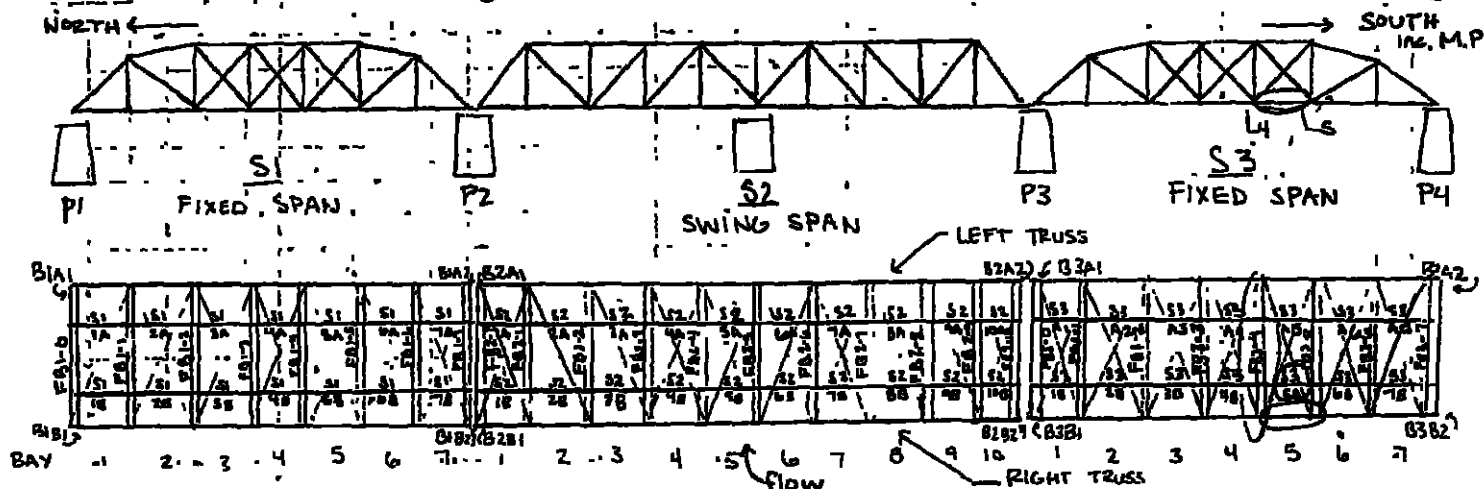
FOR Oregon Rail Assessments

INSPECTED BY AB/CL

DATE 9/14/04

WEATHER W/65F

Location: Span 1 2 (3) Truss L (R) Member TC (BC) MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L4		L5	
NBI Rating:	3	4	3	min piking up
Condition Rating:	5	5	5	condition
Material Loss (%):	10	10	10	cracking of element

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: PB3-4
NBI: 3 Condition: 5 Material Loss (%): _____
Remarks: _____

Stringer: S3B5
NBI: 3 Condition: 5 Material Loss (%): 25
Remarks: _____

Upper Pin: S3B5
NBI: _____ Condition: _____ Material Loss (%): 25
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

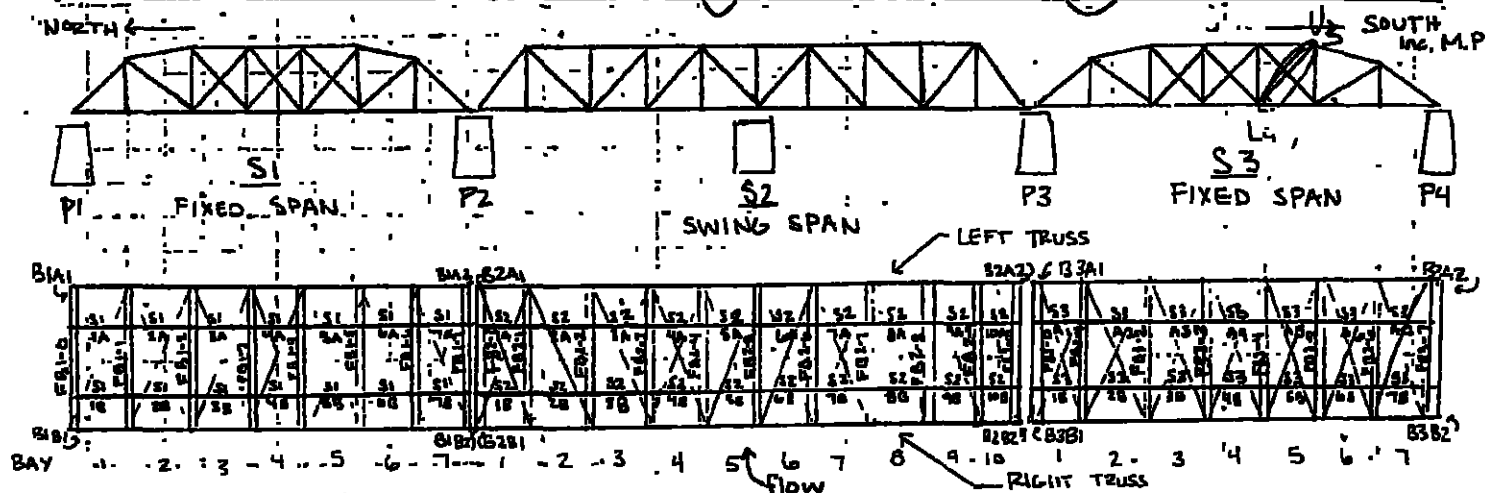
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER W65F

Location: Span 1 2 (3) Truss L (R) Member TC BC (MC) Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L4		U5	
NBI Rating:	3	1		
Condition Rating:	5	5		
Material Loss (%):	20	20		

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
& ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

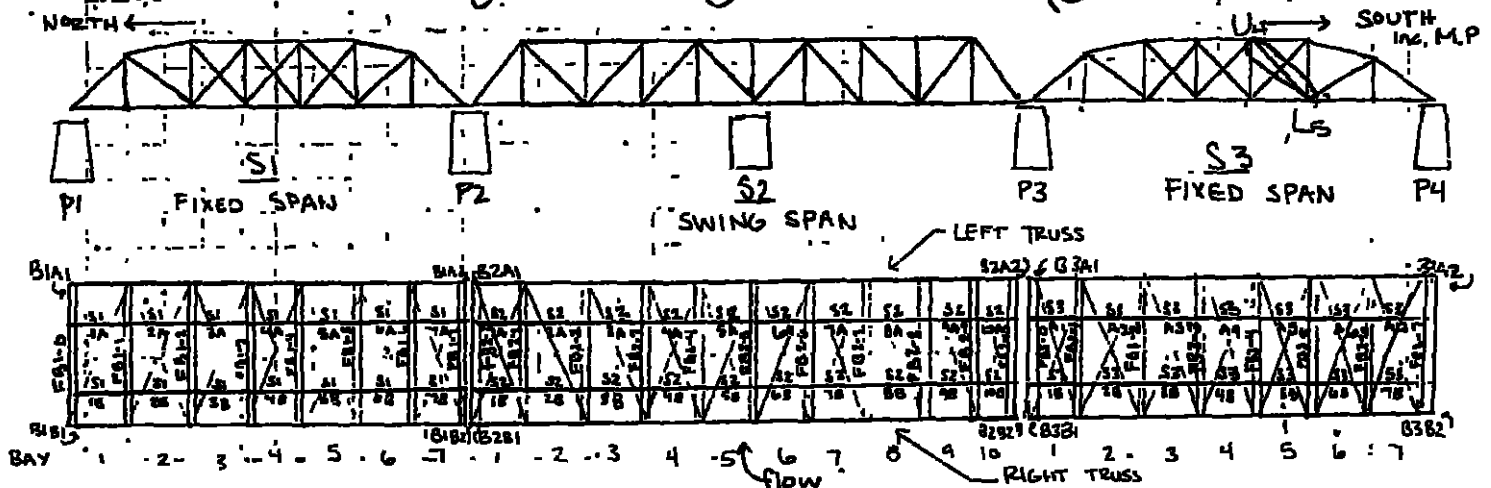
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER W/65F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>U4</u>		<u>LS</u>	
NBI Rating:	<u>3</u>	<u>5 4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>4 4</u>	<u>4</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>5</u>	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

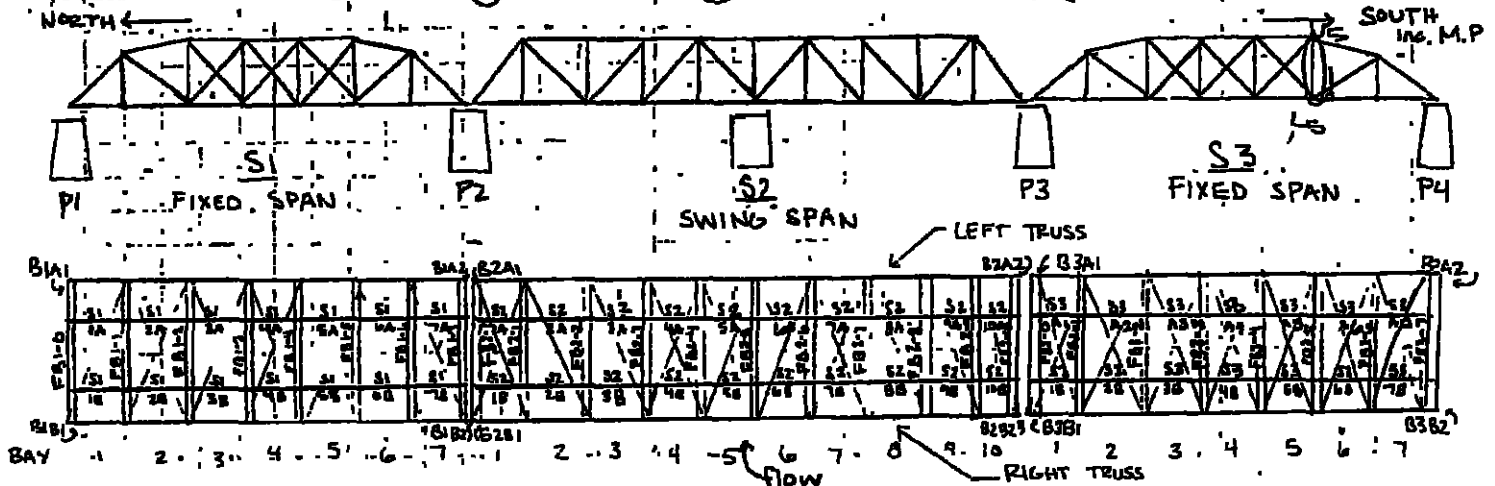
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/08

WEATHER W/6SS

Location: Span 1 2 (3) Truss L (R) Member TC BC: (MC) Bay: _____



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L5		U5	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	30	20	25	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: L5
NBI: 3 Condition: 5 Material Loss (%): 15
Remarks: 1" section loss, rusted nut

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

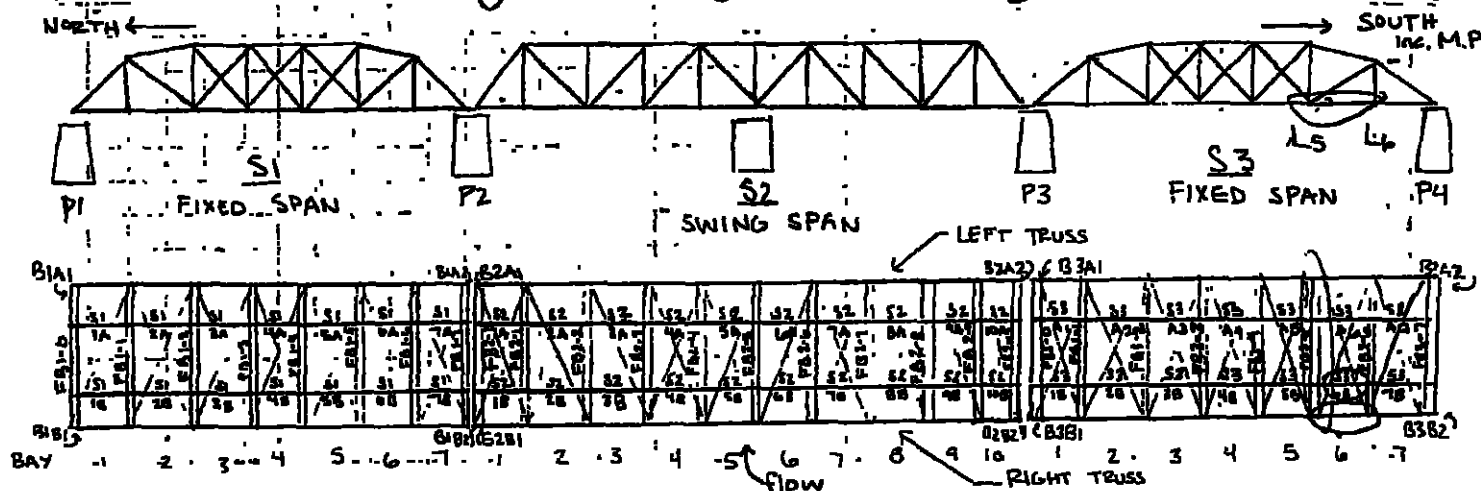
FOR Oregon Rail Assessments

INSPECTED BY AR/KL

DATE 9/14/08

WEATHER G5

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	L5		L6	
NBI Rating:	3	3		
Condition Rating:	5	5		
Material Loss (%):	30	→		

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam: FB3-5

NBI: 3 Condition: 5 Material Loss (%): 50

Remarks:

severe section loss

Stringer: S3LB

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

*50
25
25*

full water bottom

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

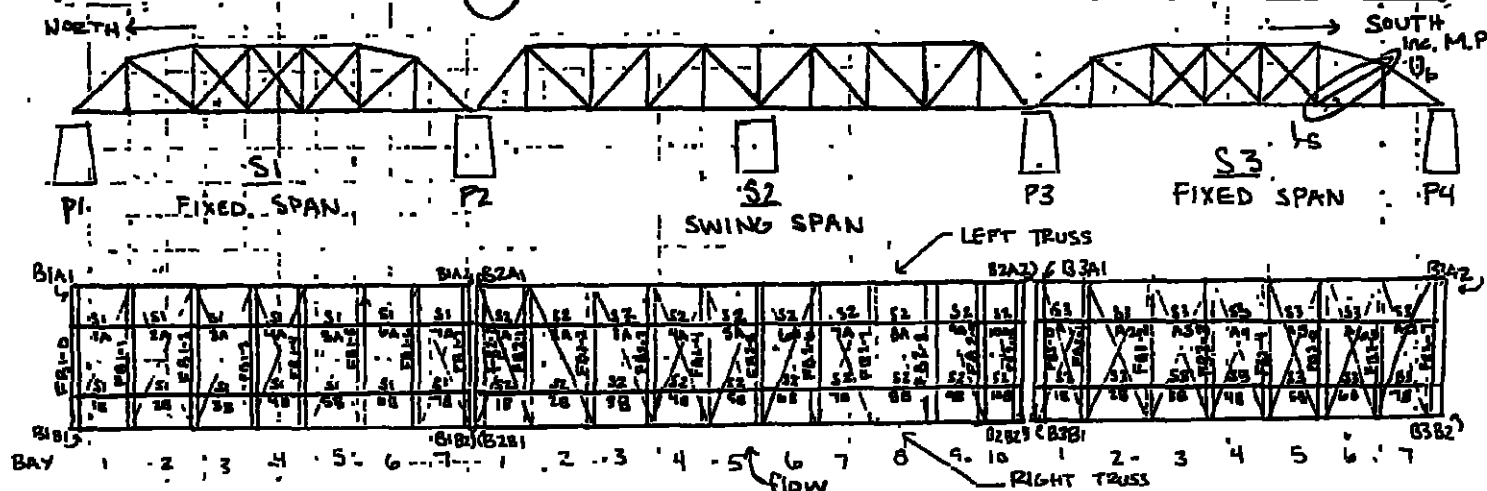


DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY AB/RL
DATE 9/14/01
WEATHER 56SE

Location: Span 1 2(3) Truss L R Member TC BC MO Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	LS		U6	
BI Rating:	4	8	4	
Condition Rating:	4	3	4	
Material Loss (%):	5	0	5	

Cross Brace:
NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:
NBI: Condition: Material Loss (%):

Remarks:

Stringer:
NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

DAVID EVANS
"NFL ASSOCIATES", INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY

AB/LL

DATE 9/14/08

WEATHER 565F

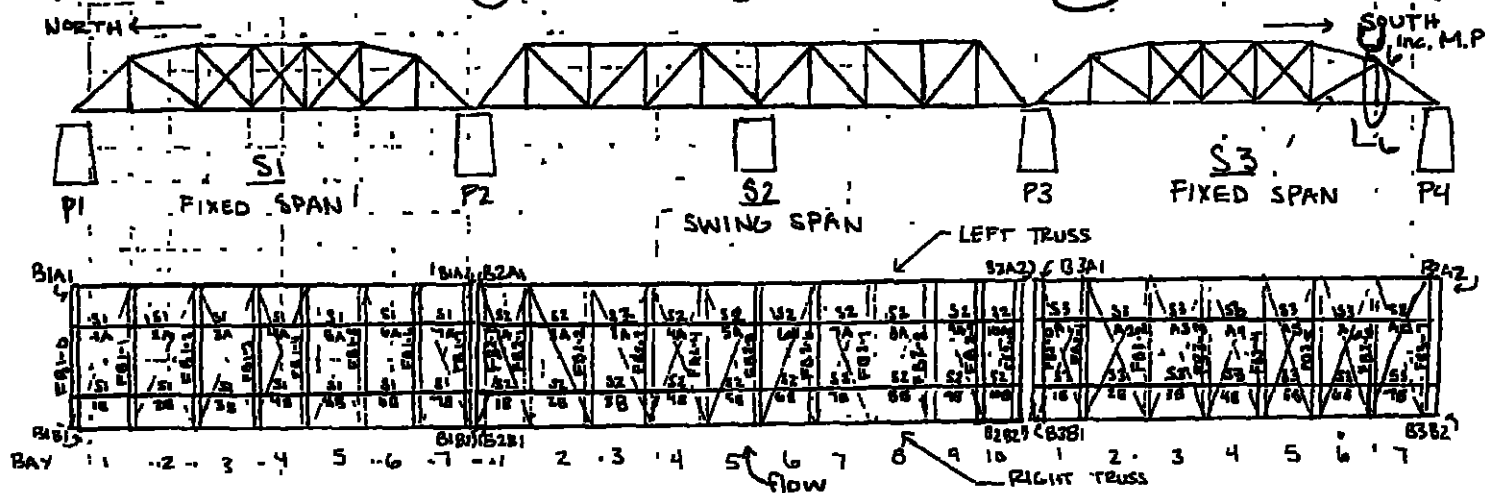
Location:

'Span 1 2 3

Truss L (R)

Member	TC	BC
--------	----	----

Bay: '7



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	LL		UB	
NBI Rating:	3	3	3	before painting of element
Condition Rating:	5	5	5	
Material Loss (%):	50	25	10	pins look OK

Cross Braces

NBI:

Condition: _____

Material Loss (%): _____

Remarks:

Floor Beam:

NRI.

Condition:

Material Loss (%):

Remarks:

Springer

NBI:

Condition:

Material Loss (%):

Remarks:

Upper Pin:

NBI: -

Condition:

Material Loss (%):

Remarks:

Lower Pin:

ABI:

Condition:

Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

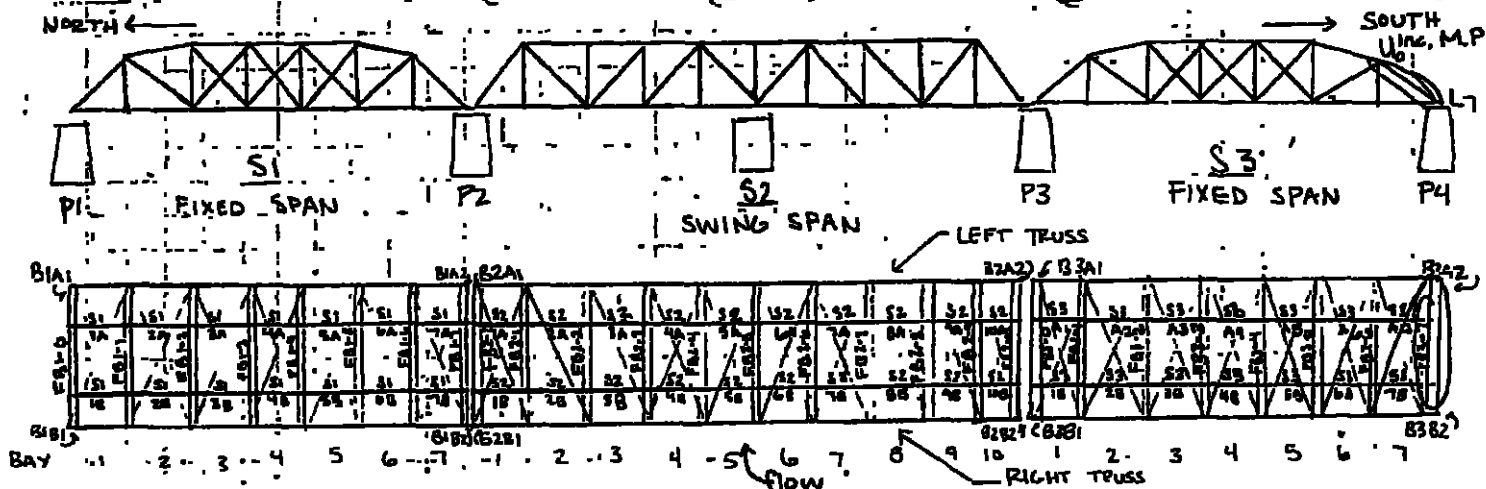
FOR Oregon Rail Assessments

INSPECTED BY AB / RL

DATE 9/14/08

WEATHER 56.5 F

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	<u>U6</u>		<u>L7</u>	
Condition Rating:	<u>3</u>	<u>3</u>	<u>3</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>40/5</u>	

Cross Brace: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: FR3-7
 NBI: 4 Condition: 4 Material Loss (%): →
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Upper Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

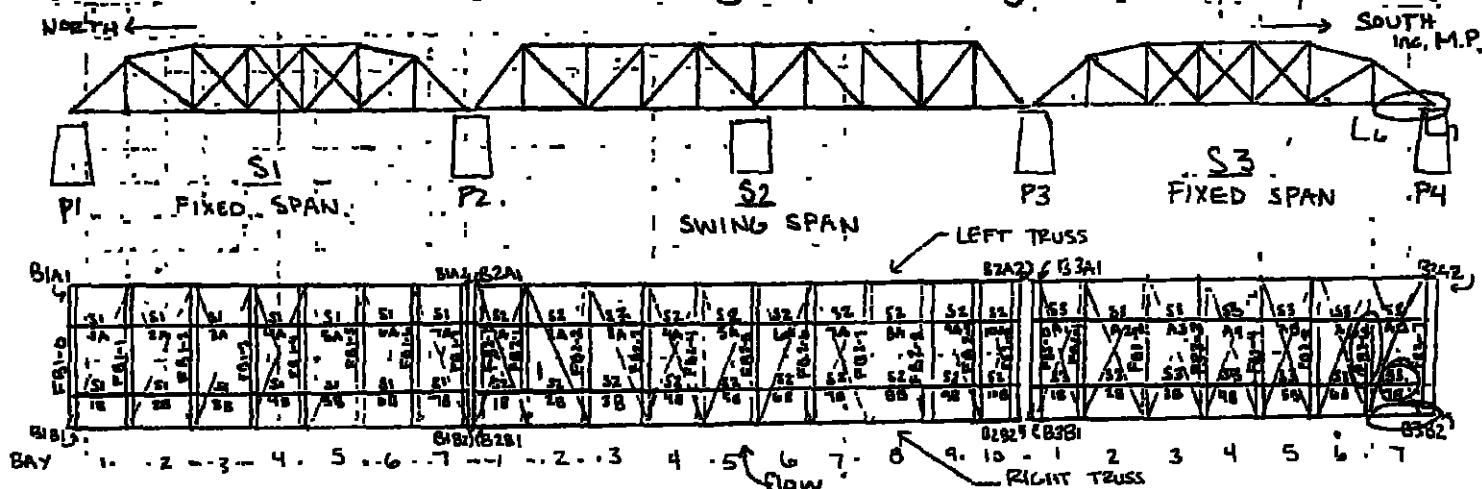
FOR Oregon Rail Assessments

INSPECTED BY AB/RL

DATE 9/14/06

WEATHER 56°F

Location: Span 1 2 (3) Truss L (R) Member TC (BC) MC Bay: 7



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L6		L7	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	→	25	

Cross Brace:
NBI: Condition: Material Loss (%):
Remarks:

Floor Beam: L6-6
NBI: Condition: Material Loss (%):
Remarks:

Stringer: 5578
NBI: Condition: Material Loss (%):
Remarks:

Upper Pin:
NBI: Condition: Material Loss (%):
Remarks:

Lower Pin:
NBI: Condition: Material Loss (%):
Remarks:

General Comments/Recommendations:





DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

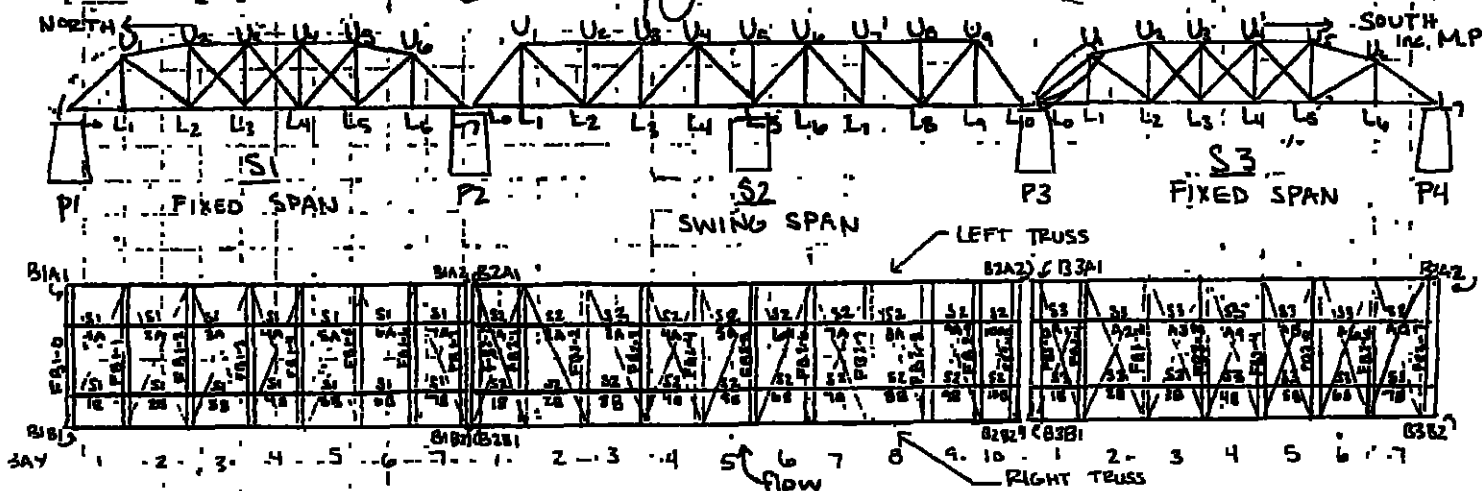
FOR Oregon Rail Assessments

INSPECTED BY mac jm

DATE 9/14/08

WEATHER 50

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L6		U1	75% Top plate
Rating:	2	2	2	75% which
Condition Rating:	5	5	5	
Material Loss (%):	75%	75%	75%	severe pitting everywhere

Cross Bracing

NBI: _____ Condition: _____ Material Loss (%): _____

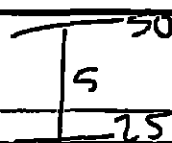
Remarks: _____

Floor Beam: FB3-1

NBI: 3 Condition: 5 Material Loss (%): _____

Remarks: _____

typical FB



Stringer

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: Cw Span 1 L0U1

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:

DAVID EVANS
ASSOCIATES "

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Skuslaw River

FOR Oregon Rail Assessments

INSPECTED BY

DATE _____

WEATHER

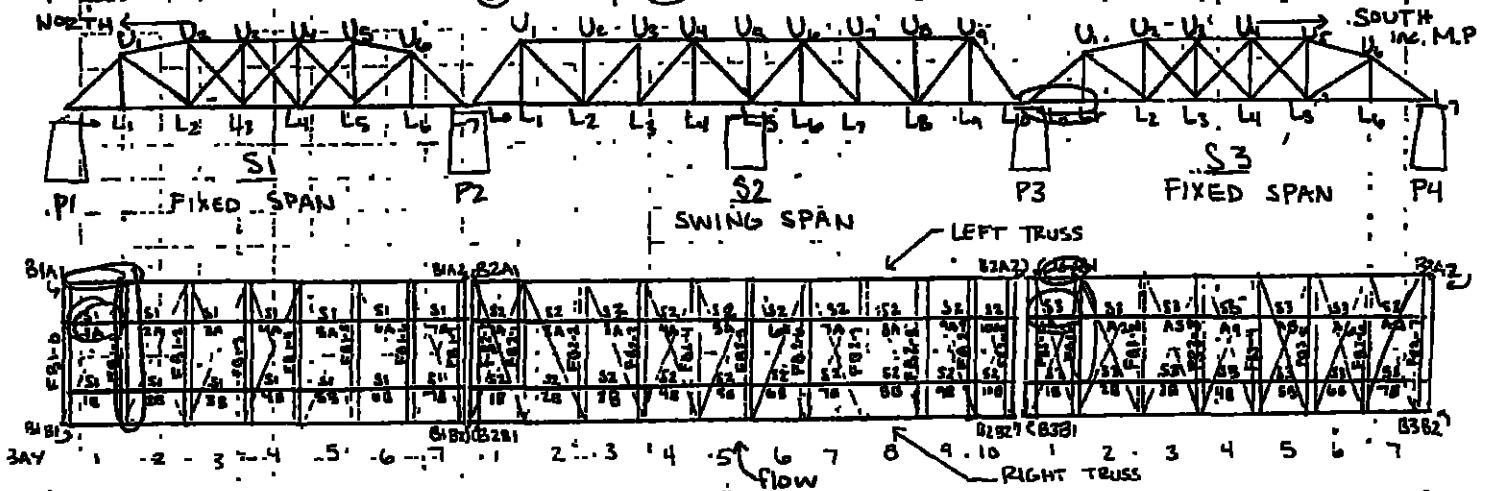
Location:

Span	1	2'	3.
------	---	----	----

Truss	(L)	R
-------	-----	---

Member	TC	BC	MC
--------	----	----	----

Bay: _____



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L ₂		L ₁	
NBI Rating:	3	3	3	lacking positive joints
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50	coverplate at L ₁ has large hole 50% gone

Cross Brace: 1 - 3 S.M.

NBI: 4

Condition: 5

Material Loss (%): 5

Remarks:

Floor Beam: C 12.5, 1

NBI: 3

Condition: 5

Material Loss (%): $\rightarrow$

Remarks:

Stringer: S31A

NBI: 3

Condition: 5

Material Loss (%):

Remarkš:

Upper Pin:

NBI: _____

Condition:_____

Material Loss (%):_____

Remarks:

Lower Pin:

३५२।

Condition:

Material Loss (%):

marks:

General Comments/Recommendations:

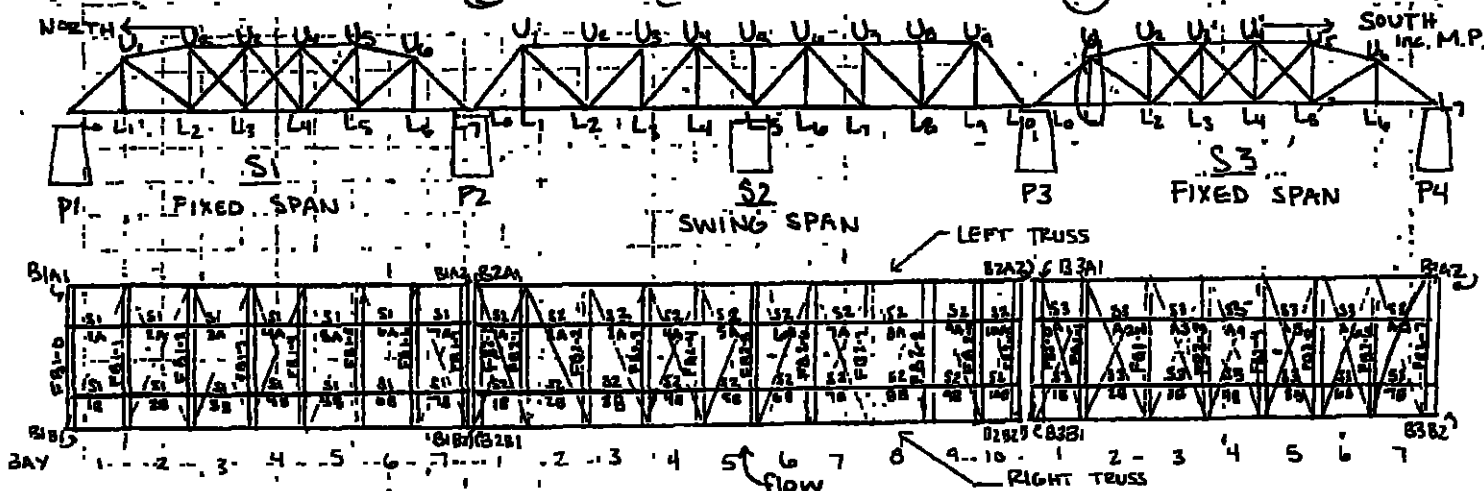


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Jim Hall
DATE 9/14/08
WEATHER S77

Location: Span 1 2 (3) Truss (L) R Member TG BC (MC) Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L		Up	severe pitting
Rating:	2	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50%	25%	25%	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: See Span 1 L1U1

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: See Span 1 L1U1

General Comments/Recommendations:

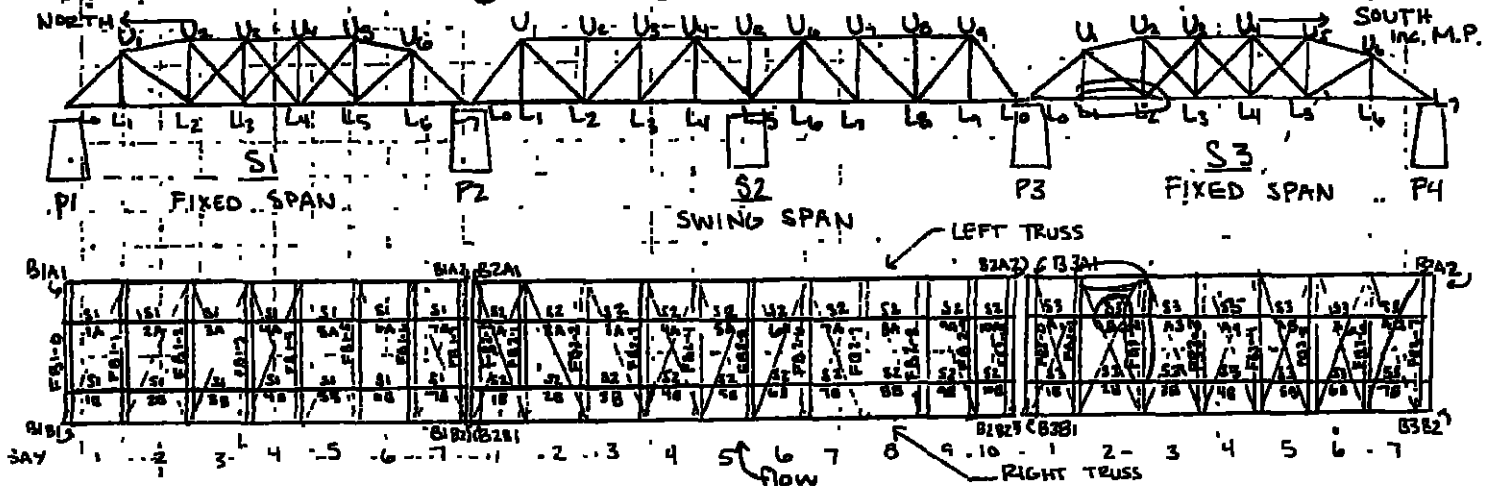


DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY hael j m
DATE 9/14/01
WEATHER 365

Location: Span 1 2 (3) Truss (L) R Member TC (EC) MC Bay: 2



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L1		L2	
NBI Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace: CB3-2
NBI: 4 Condition: 5 Material Loss (%): 5
Remarks:

Floor Beam: F3-2
NBI: 3 Condition: 5 Material Loss (%): →
Remarks:

Stringer: S3 A2
NBI: 3 Condition: 5 Material Loss (%): →
Remarks:

Upper Pin: ...
NBI: ... Condition: ... Material Loss (%): ...
Remarks:

Lower Pin: ...
NBI: ... Condition: ... Material Loss (%): ...
Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Sluslaw River

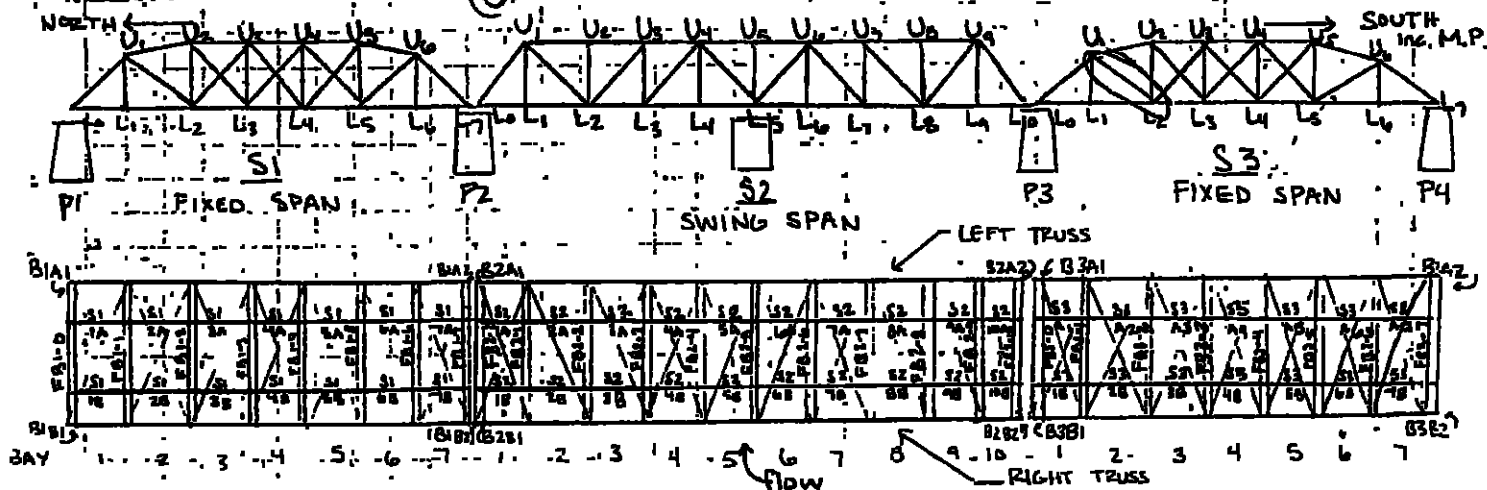
FOR Oregon Rail Assessments

INSPECTED BY M. Hall

DATE 7/14/05

WEATHER 57°

Location: Span 1 2 (3) Truss (1) R Member TC BC (10) Bay: 2



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
<u>L2</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>Moderate pitting</u>
Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>10%</u>	<u>10%</u>	<u>10%</u>	

Cross Brace: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin: _____

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

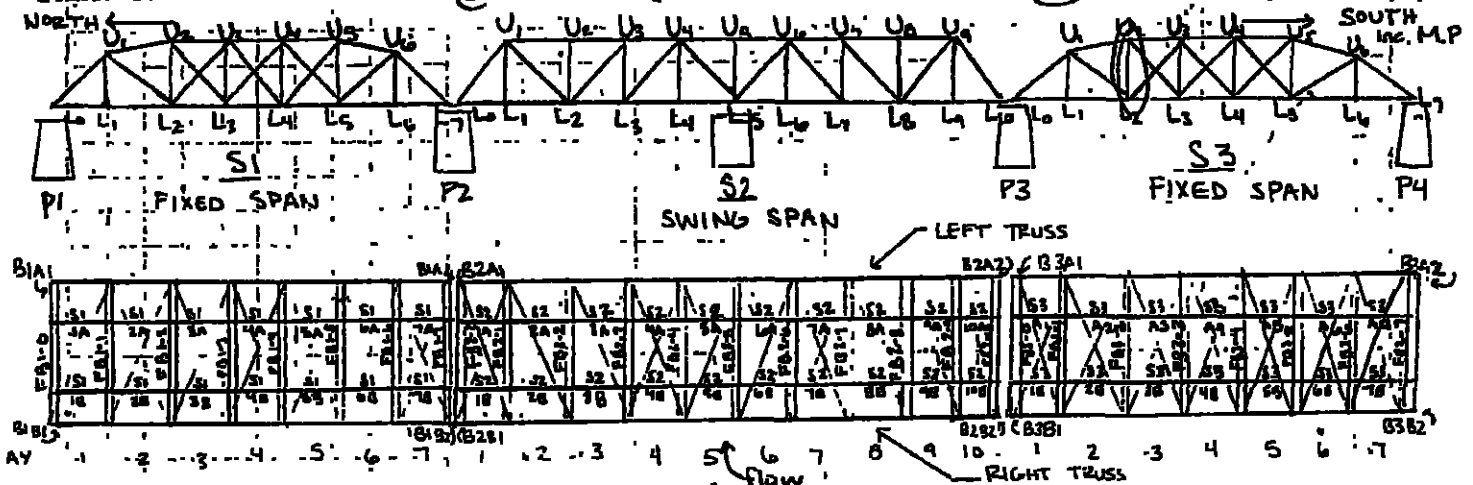
JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Inge M.

DATE 11/14/08

WEATHER 665

Location: Span 1 2. (3) Truss (L) R Member TG BC (MC) Bay: _____



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	U2		U2	
NBI Rating:	2	2	2	
Condition Rating:	S	S	S	
Material Loss (%):	75%	75%	75%	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: See L101

Lower Pin:

NBI: 4 Condition: 4 Material Loss (%): 5%

Remarks: pack nuts

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES, INC.

INSPECTED BY M. H. C.

DATE 9/11/00

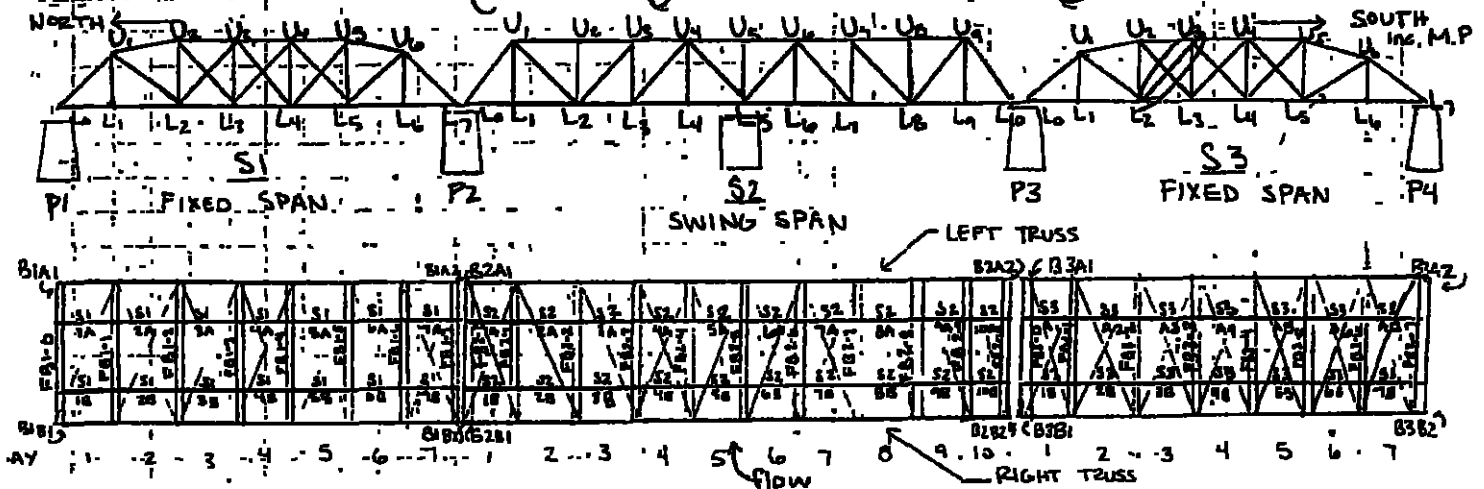
WEATHER S70

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

Location: Span 1 2 (3) Truss (L) R Member TC BC (C) Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L2</u>		<u>U2</u>	<u>heavy pitting</u>
Rating:	<u>3</u>	<u>2</u>	<u>3</u>	
Condition Rating:	<u>3</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>50%</u>	<u>50%</u>	<u>50%</u>	

Cross Brace:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks: _____

General Comments/Recommendations:

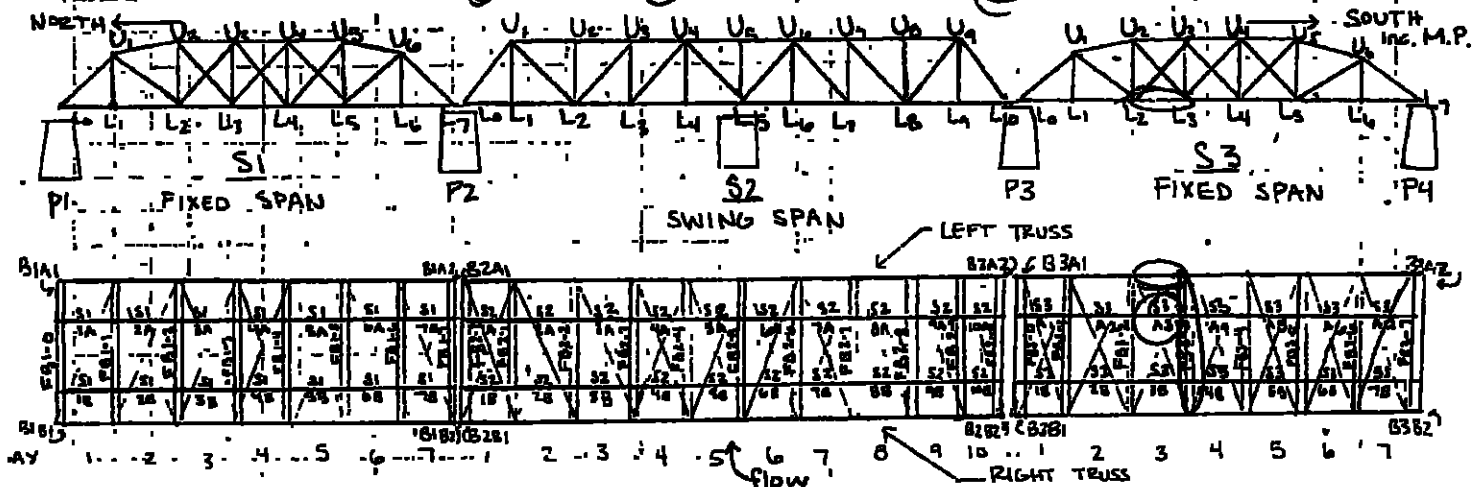


DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

INSPECTED BY Jim H.C.
DATE 6/14/08
WEATHER _____

Location: Span 1 2 3 Truss (L) R Member TC (BC) MC Bay: 3



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>2</u>	<u>5</u>	<u>5</u>	<u>moderate pitting</u>
NBI Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Condition Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Material Loss (%):	<u>5</u>	<u>5</u>	<u>5</u>	

Cross Brace: CB3-3
NBI: 2 Condition: 5 Material Loss (%): 50%
Remarks: heavy flake rust

Floor Beam: FB3-3
NBI: 3 Condition: 5 Material Loss (%): →

Stringer: S3-A3
NBI: 3 Condition: 5 Material Loss (%): →

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



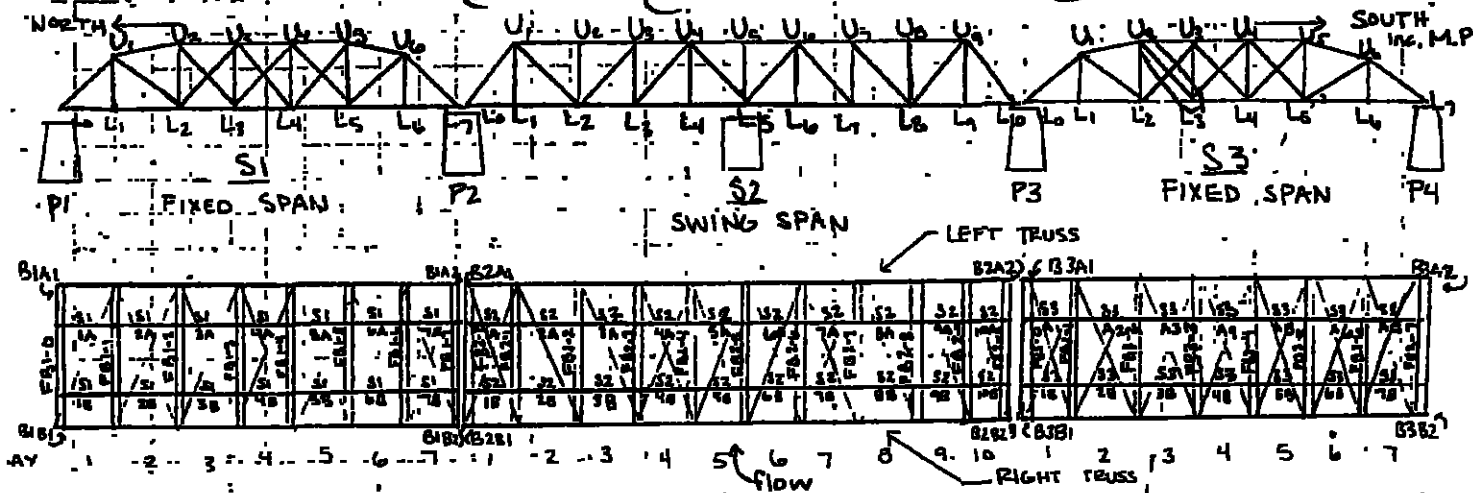
Cushman, OR -Siuslaw River

INSPECTED BY IM HC

DATE 9/14/08

WEATHER \$70

Location: Span 1 2: 3 Truss (L) R Member TC BC (MC) Bay: 3



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L3		U2	
Rating:	3	3	3	pitting
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

INBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NRI: Condition: Material Loss (%):

marks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Sluslaw River

FOR Oregon Rail Assessments

INSPECTED BY Wael JM

DATE 7/14/08

WEATHER 570

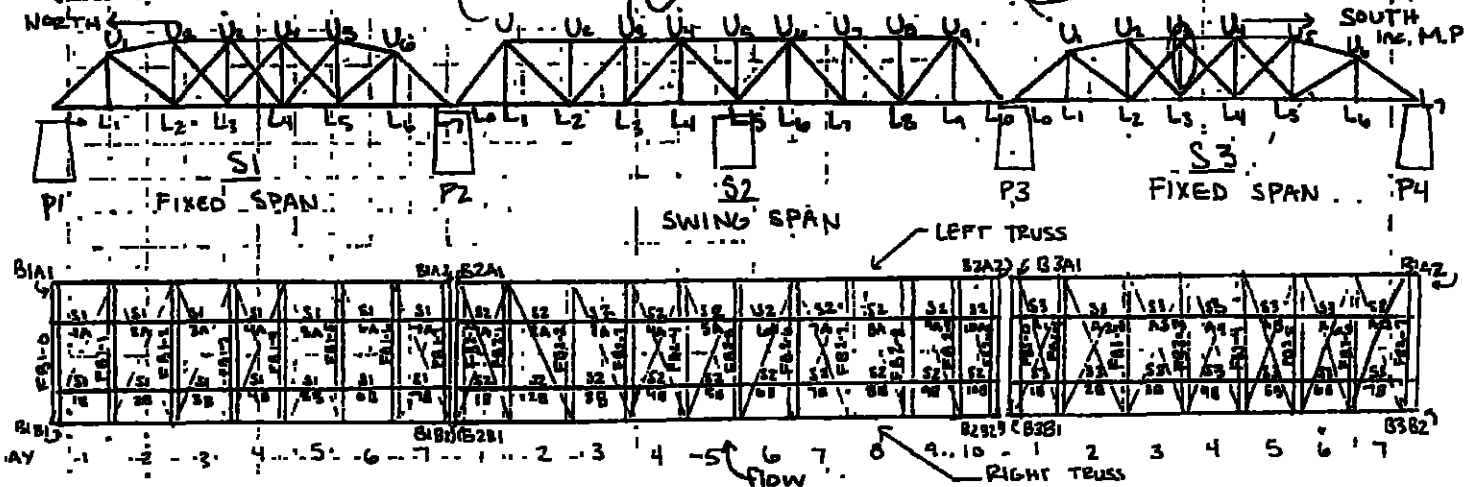
Location:

Span 1 2 (3)

Truss (L) R

Member TC BC (MC)

Bay: 4



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L3	2	U3	HEAVY PITTING.
NBI Rating:	2	2	2	
Condition Rating:	S	S	S	holes in member
Material Loss (%):	50%	50%	50%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: 3 Condition: S Material Loss (%):

Remarks:

pack not service

General Comments/Recommendations:

see 9/1 U3L3



DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY Jim Hc

DATE 9/14/08

WEATHER S70

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

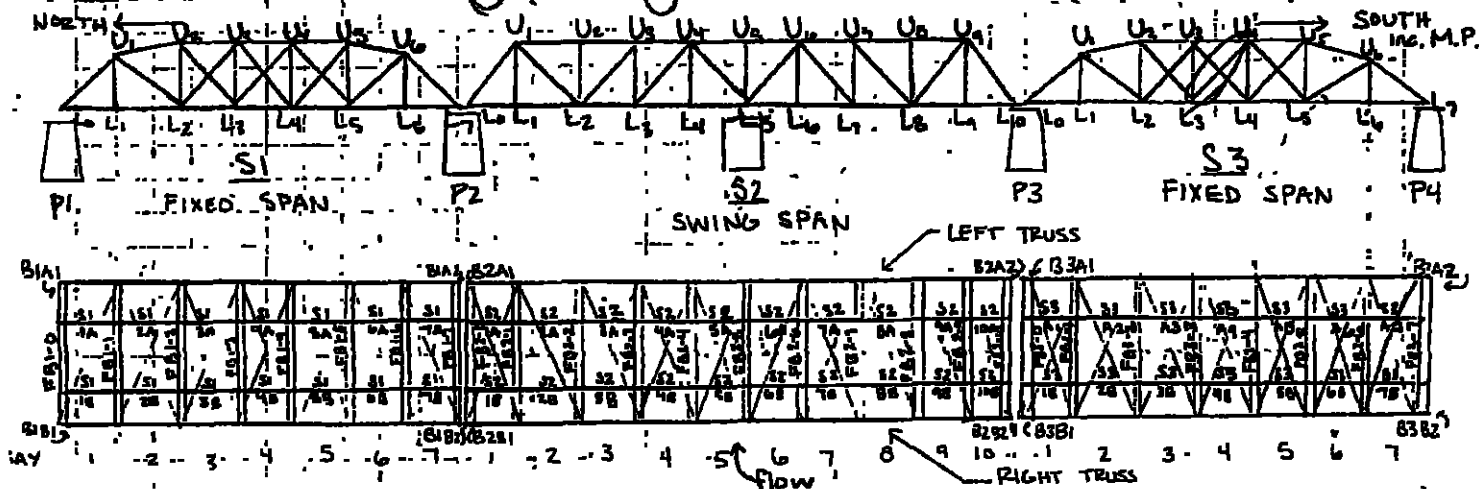
Location:

Span 1 2 3

Truss 6 R

Member TC BC MC

Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
Member Name:	L3		U4	
Rating:	3	3	3	Moderate pitting
Condition Rating:	5	5	5	
Material Loss (%):	25	25	25	

Cross Brace:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Lower Pin:
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

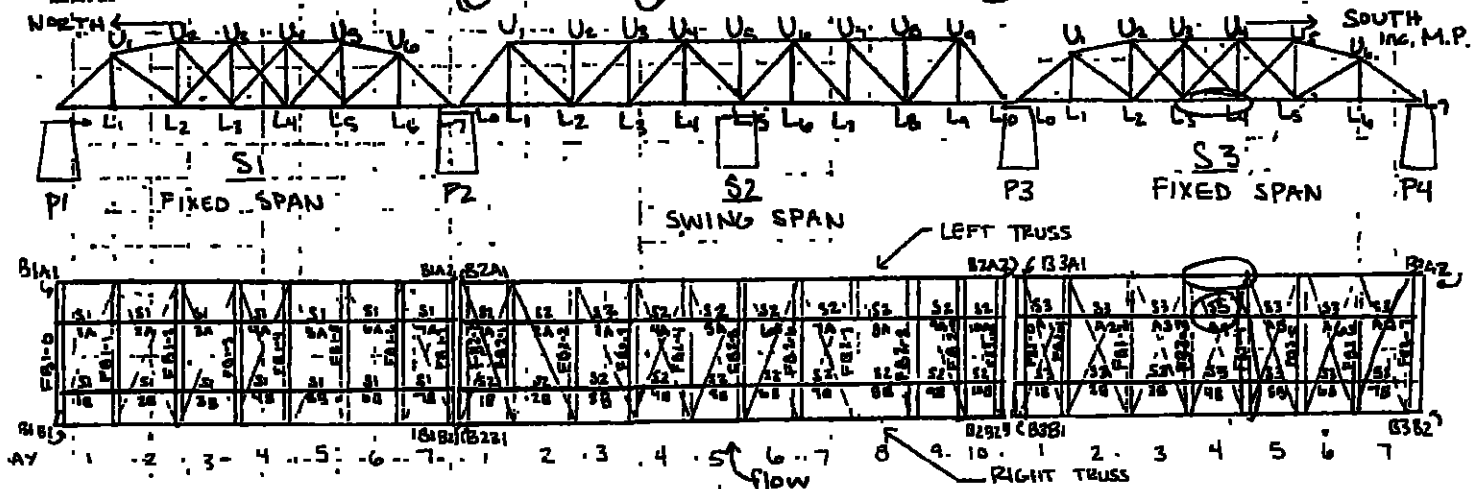
FOR Oregon Rail Assessments

INSPECTED BY Jim HC

DATE 9/11/05

WEATHER 670

Location: Span 1 2 3 Truss 11 R Member TC BC MC Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>L3</u>		<u>L4</u>	
NBI Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Material Loss (%):	<u>5%</u>	<u>5%</u>	<u>5%</u>	

Cross Brace: CB3-4

NBI: 1 Condition: 5 Material Loss (%): 75

Remarks: heavily packed not

Floor Beam: FB-4

NBI: 3 Condition: 5 Material Loss (%): →

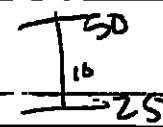
Remarks:



Stringer: SB-A4

NBI: 3 Condition: 5 Material Loss (%): →

Remarks:



Upper Pin:

NBI: 1 Condition: 5 Material Loss (%): →

Remarks:

Lower Pin:

NBI: 1 Condition: 5 Material Loss (%): →

Remarks:

General Comments/Recommendations:

DAVID EVANS
ASSOCIATES "L

INSPECTED BY lm hc

DATE 7/14/08

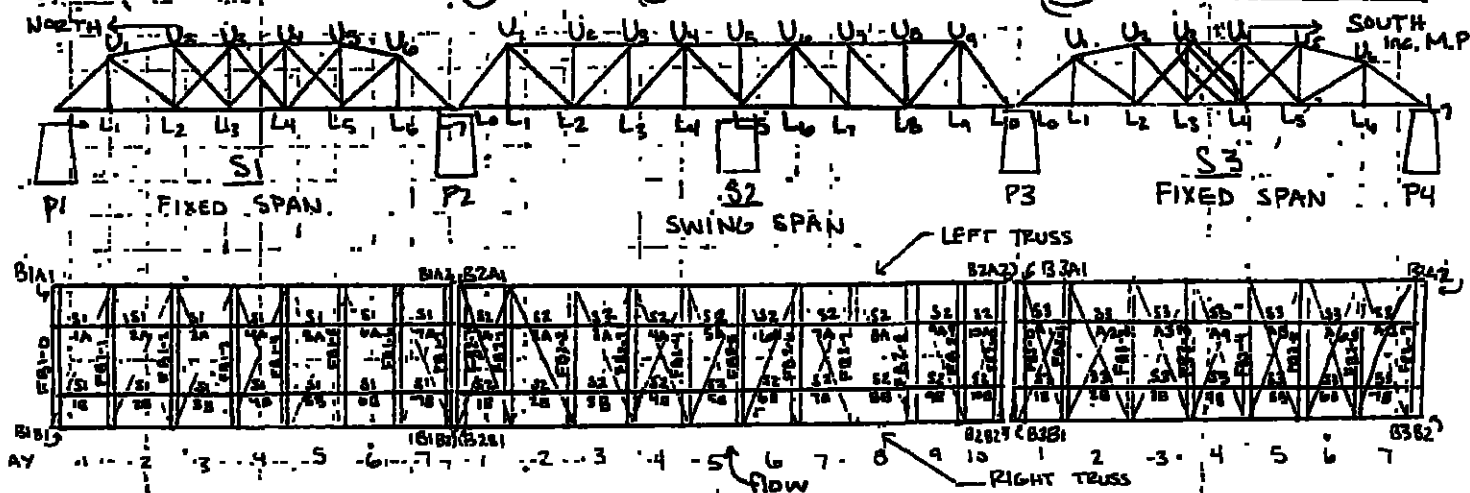
WEATHER \$ 70

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR -Siuslaw River

FOR Oregon Rail Assessments

Location: Span 1 2 3) Truss / L) R Member TC BC (MC) Bay: . 4

**Inspection Notes:**

	Joint	Element	Joint	Remarks:
Member Name:	4		V3	new
Rating:	3	3	3	
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50%	

Cross Braces

NTI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Floor Beam:

NBI: _____ **Condition:** _____ **Material Loss (%):** _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

marks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

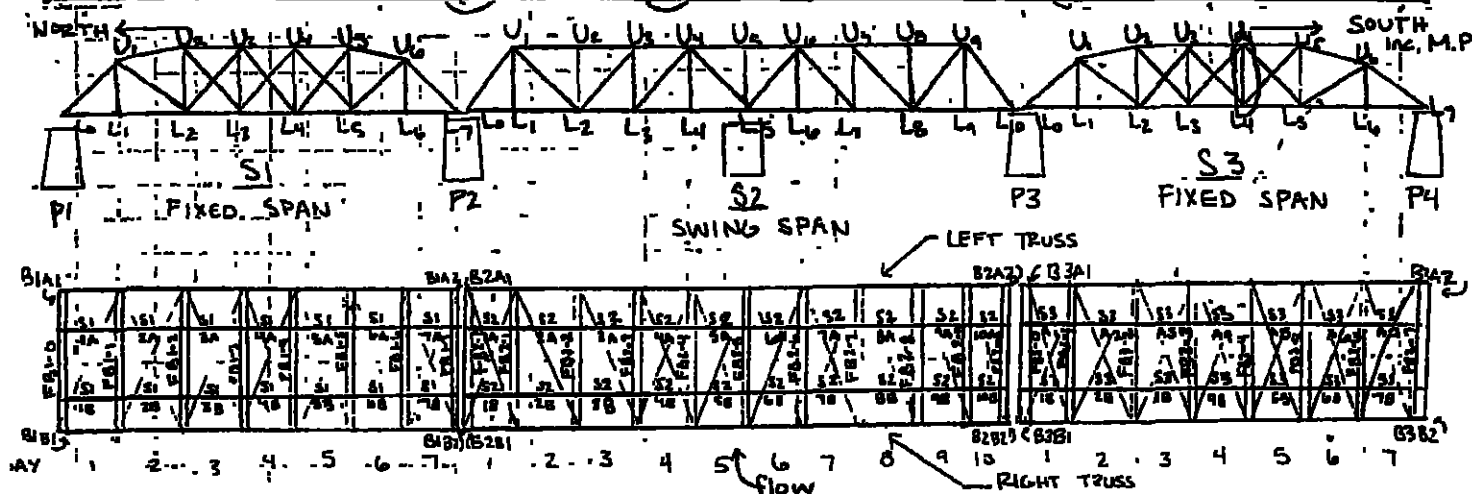
FOR Oregon Rail Assessments

INSPECTED BY jm hc

DATE 9/14/08

WEATHER S70

Location: Span 1 2(3) Truss (L), R Member TC BC (MC) Bay: 4



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	<u>U4</u>		<u>U4</u>	<u>large holes in the web of the column</u>
NBI Rating:	<u>2</u>	<u>2</u>	<u>2</u>	
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>50</u>	<u>75</u>	<u>50</u>	

Cross Brace: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Floor Beam: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Stringer: _____
NBI: _____ Condition: _____ Material Loss (%): _____
Remarks: _____

Upper Pin: _____
NBI: _____ Condition: _____ Material Loss (%): _____ no access see S1 U4L4
Remarks: _____

Lower Pin: L4
NBI: 3 Condition: 5 Material Loss (%): _____
Remarks: minor plate not

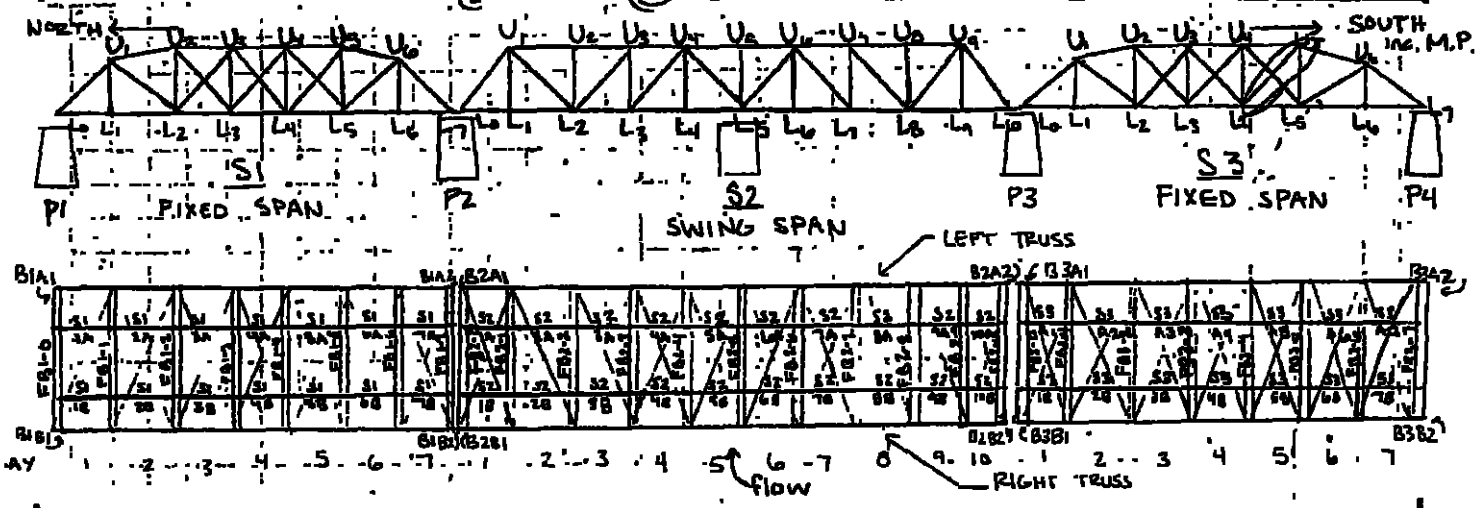
General Comments/Recommendations:



INSPECTED BY vm lw
DATE 6/14/08
WEATHER '970

JOB DESCRIPTION Periodic Inspection for Bridge 716.4
Cushman, OR - Siuslaw River
FOR Oregon Rail Assessments

Location: Span 1 2 (3) Truss (L) R Member TC BC (MC) Bay: 5





DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

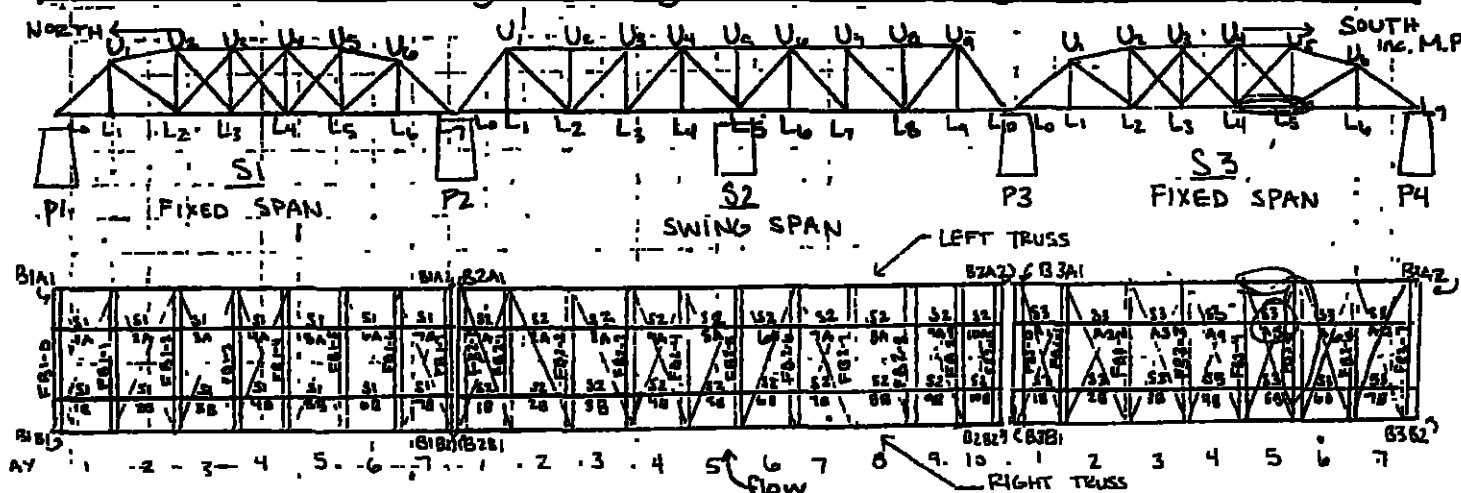
FOR Oregon Rail Assessments

INSPECTED BY STJH HC

DATE 9/14/08

WEATHER 570

Location: Span 1 2 3 Truss (L) R Member TC (BC) MC Bay: S



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	L4		L5	
NBI-Rating:	4	4	4	laminar rot
Condition Rating:	4	4	4	
Material Loss (%):	10%	10%	16%	

Cross Brace: CB3-5

NBI: 2 Condition: 5 Material Loss (%): 50%

Remarks: holes, pack rot, holes

Floor Beam: FB3-5

NBI: 3 Condition: 5 Material Loss (%): →

Remarks: weather action loss in web at L5

Stringer: S3-45

NBI: 3 Condition: 5 Material Loss (%): →

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

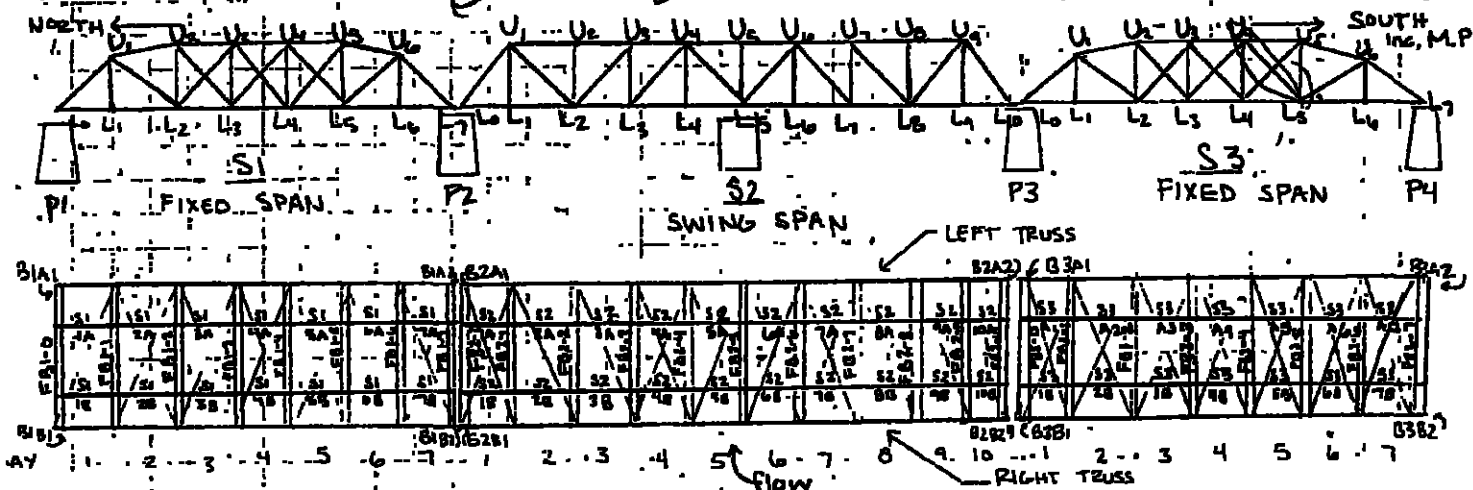
FOR Oregon Rail Assessments

INSPECTED BY jm hc

DATE 9/14/08

WEATHER C70

Location: Span 1 2 3 Truss (L) R Member TC BC (MC) Bay: 5



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
	U4		L5	<u>HEAVY</u> <u>HEAVY</u> <u>pitting</u>
Rating:	2	2	2	
Condition Rating:	5	5	5	
Material Loss (%):	50%	50%	50%	

Cross Brace: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Floor Beam: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Stringer: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Upper Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

Lower Pin: _____
 NBI: _____ Condition: _____ Material Loss (%): _____
 Remarks: _____

General Comments/Recommendations: _____



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY JM HC

DATE 9/14/08

WEATHER

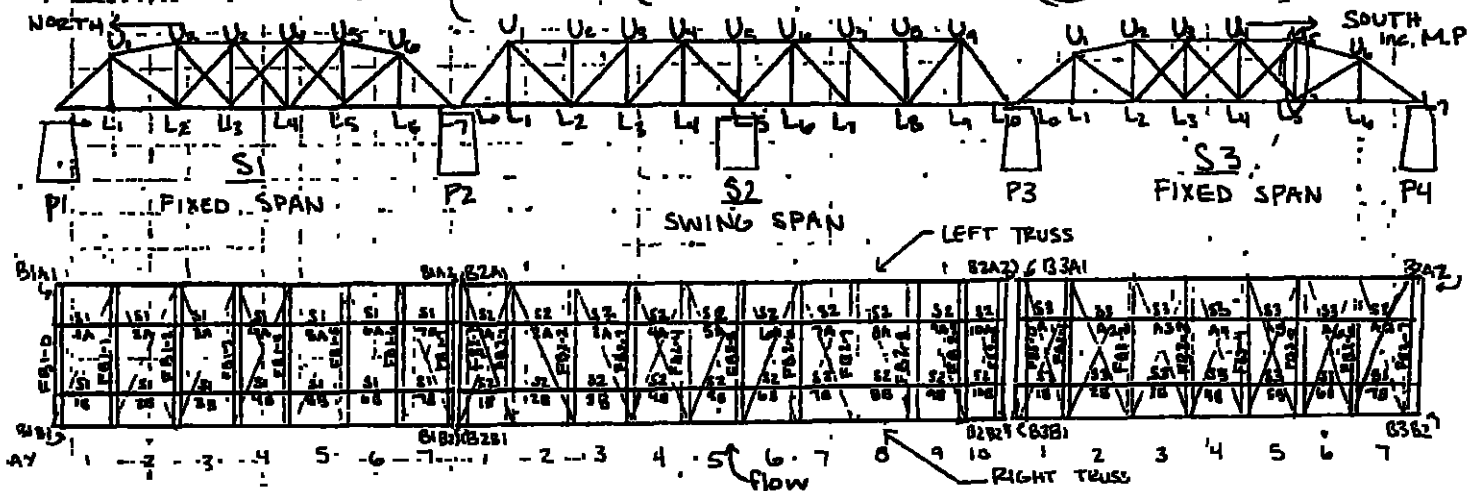
Location:

Span 1 2 (3)

Truss (L) R

Member TC BC (MC)

Bay:



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
NBI Rating:	3	3	3	Some rivets have corroded out
Condition Rating:	3	5	5	
Material Loss (%):	30%	30%	30%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

MOISTURE INTRUSION ON SPACER, MOD-HEAVY PACK NAIL

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

INSPECTED BY TM HL

DATE 9/14/08

WEATHER WGS

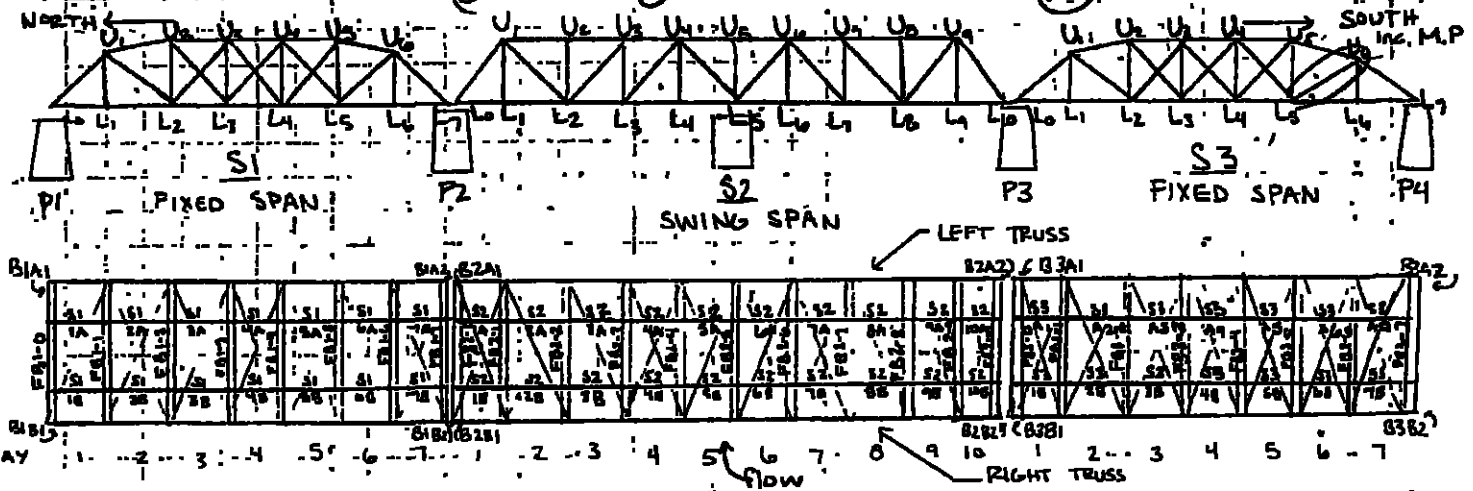
Location:

Span 1 2 3

Truss L R

Member TC BC MC

Bay: 0



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
U6	U6	U6	U6	Moderate pitting
Rating:	4	4	4	
Condition Rating:	4	4	4	
Material Loss (%):	10%	10%	10%	

Cross Brace:

NBI: Condition: Material Loss (%):

Remarks:

Floor Beam:

NBI: Condition: Material Loss (%):

Remarks:

Stringer:

NBI: Condition: Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY JM HK

DATE 9/14/09

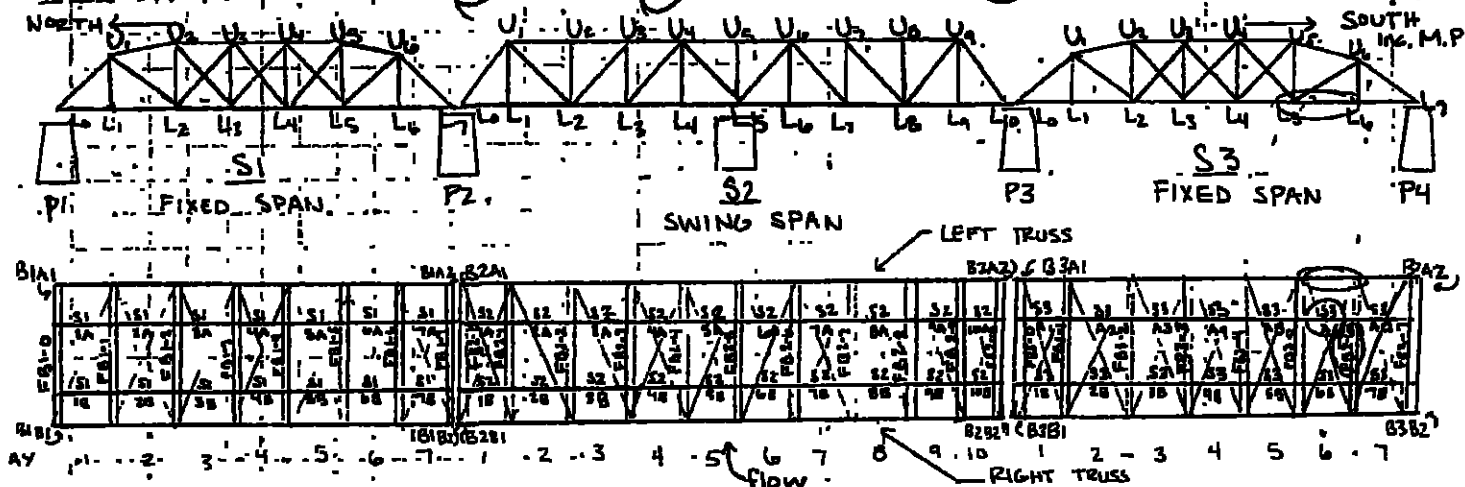
WEATHER 18/65

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

FOR Oregon Rail Assessments

Location: Span 1 2 3 Truss L R Member TC BC MC Bay: 6



Inspection Notes:

Member Name:	Joint	Element	Joint	Remarks:
NBI Rating:	<u>3</u>	<u>3</u>	<u>3</u>	<u>pitting exposed material.</u>
Condition Rating:	<u>5</u>	<u>5</u>	<u>5</u>	
Material Loss (%):	<u>25</u>	<u>25</u>	<u>25</u>	

Cross Brace: CB3 = 6

NBI: 3 Condition: 4 Material Loss (%): 5%

Remarks:

Floor Beam: FB 3-6

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Stringer: S3 AG

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin: 1

NBI: Condition: Material Loss (%):

Remarks:

Lower Pin: 1

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:



DAVID EVANS
ASSOCIATES

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Suslaw River

FOR Oregon Rail Assessments

INSPECTED BY JM RC

DATE 9/14/08

WEATHER 18/65

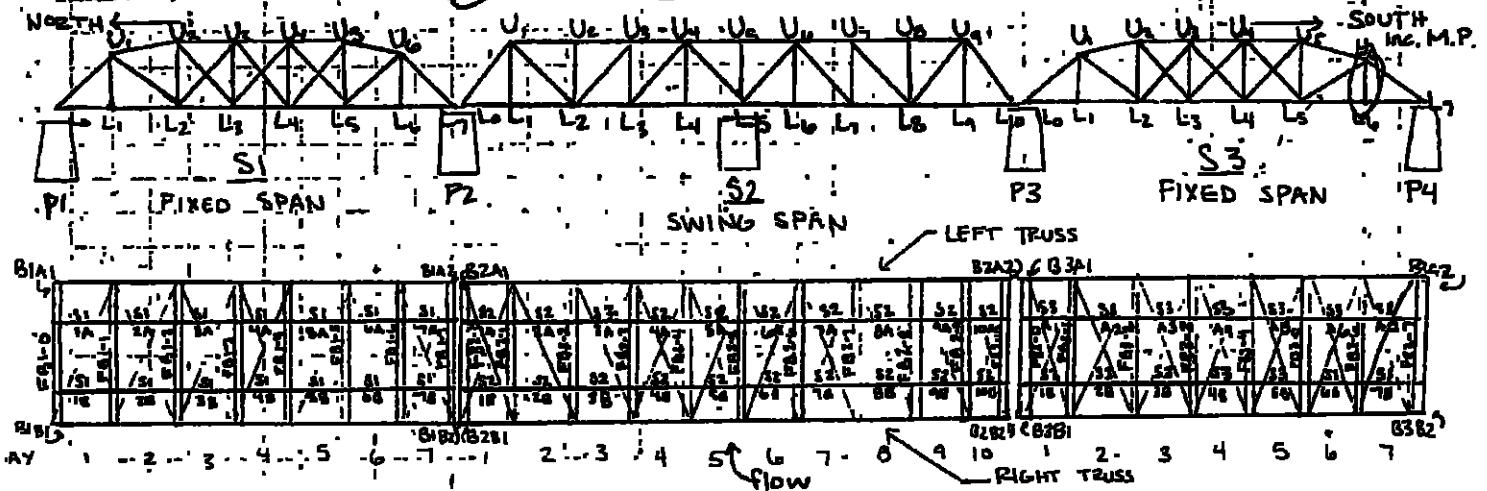
Location:

Span 1 2 3

Truss L R

Member TC BC (MC)

Bay: 6



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>U6</u>		<u>U6</u>	
Rating:	<u>3</u>	<u>4</u>	<u>4</u>	<u>spalling & pitting</u>
Condition Rating:	<u>3</u>	<u>4</u>	<u>4</u>	
Material Loss (%):	<u>20%</u>	<u>10%</u>	<u>10</u>	

Cross Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Floor Beam:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Stringer:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

Upper Pin:

NBI: _____ Condition: _____ Material Loss (%): _____ ND (check see S1 U6L6)

Remarks:

Lower Pin:

NBI: _____ Condition: _____ Material Loss (%): _____

Remarks:

General Comments/Recommendations:



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Periodic Inspection for Bridge 716.4

Cushman, OR - Siuslaw River

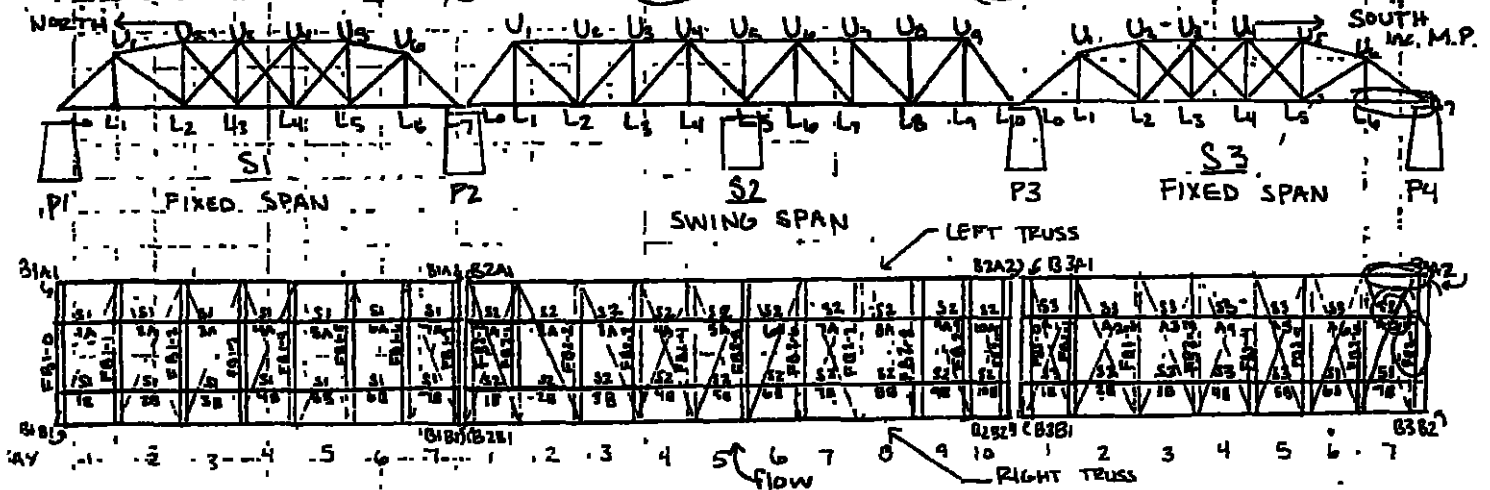
FOR Oregon Rail Assessments

INSPECTED BY HC JM

DATE 9/14/09

WEATHER W/65

Location: Span 1 2 3 Truss L R Member TC (BC) MC Bay: 1



Inspection Notes:

	Joint	Element	Joint	Remarks:
Member Name:	<u>L6</u>		<u>L7</u>	
NBI Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Condition Rating:	<u>4</u>	<u>4</u>	<u>4</u>	
Material Loss (%):	<u>10</u>	<u>10</u>	<u>10</u>	

Cross Brace: CB3-7

NBI: 4 Condition: 4 Material Loss (%): 10

Remarks:

Floor Beam: FB3-7

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Stringer: S3-A7

NBI: 3 Condition: 5 Material Loss (%):

Remarks:

Upper Pin:

NBI: Condition: Material Loss (%):

Remarks:

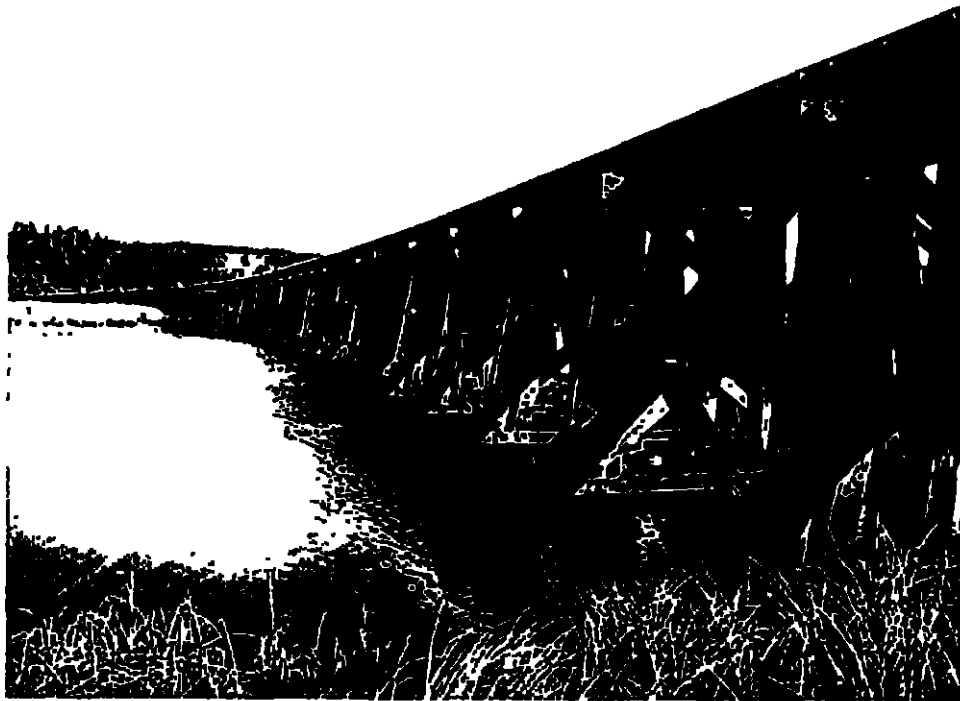
Lower Pin:

NBI: Condition: Material Loss (%):

Remarks:

General Comments/Recommendations:

BRIDGE SECTION 4: SOUTH TIMBER APPROACH TRESTLE





DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/16/2008

WEATHER 70 F, Sunny, Windy

PAGE 1 OF 9

Bents No. From N Piles No. From E

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
1	0	Cap	NDN				C
2	5	P1	NDN			93, 94	
		P5	H	6"+	3'		NRF
3	5	Cap	NDN			95, 96	
		P4	H	1"	3'		RF, NF
4	5	Cap	NDN			97	
5	5	Cap	DN			98	CR
		4	H				C
		5	H	1"	3'		RF, NF
6	5	P3	H	1/2"	2'	99	C, RF
7	5	P5	H	1/2"	2'	100	C, RF, Long. Bracing Anchor Bolt Gone
8	5		NDN			101	C
9	5	Cap	NDN			102	
10	5	P2	H	1/2"	4'	103	RF, NF
		P5	H	1/2"	6'		C, RF
11	5	Cap	DN			104	S, CR
12	5	P1	NDN			105	C
		P3	H	1/2"	4'		RF, NF
		P4	DN				Top Shifted 1" N at Cap
13	5	P2	H	1/2"		106	C, RF
		P5	DN				C, 3" Crack @ Top, Round Pile
14	5		NDN			107	C
15	5	P1	H	5"		108	C, RF
		P3	H	1"	4'		RF, NF
		P5	H	1"			C, RF
16	5	Cap	H			109	NF, AP Rot Betw P4&5
		P5	H	1/2"			C, RF
17	5	Cap	H			110, 111	NF, AP Rot Betw P4&5, NBI 3/4, Serious Splitting
		P4	H	1/2"			C, RF, Crushing, Bulging, NBI 1
18	5	P1	H	1"	2'	112	C, RF, 1/2" Crack Full Height
		P3	DN				3/4" Crack Full Height
19	5	Cap	DN			113	Newer Cap, 3/4" Horiz. Crack
		P1	H	1/2"	5'		C, RF
		P5	H	1"	4'		C, RF
20	5	Cap	DN			114	S, 1/2" Horiz. Crack
		P1	H	2"	3'		C, RF
21	5	Cap	DN			115	S, Timber Facing on Bent
		P5	H	6"+	4'		NRF

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

H - Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Inspection of CORP Bridge No 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

INSPECTED BY THWH, CSK, AMST, RJST, CD

DATE 9/16/2008

WEATHER 70 F, Sunny, Windy

PAGE 2 OF 9

Bents No. From N., Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
22	5	Cap	H			116	S, NF, Timber Facing on Bent
		P1	NDN				
23	5	Cap	DN			117	S, CR
24	5		NDN			118	C
25	5	Cap	DN			119	S, CR
26	5	Cap	DN			120	S, CR, SR on Bottom
27	5	Cap	DN			121	S, CR, SR on Bottom
		P1	DN				1/2" Crack Full Height
		P5	DN				1/2" Crack Full Height
28	5	Cap	H			122	C, S, CR
		P1	H	1/2"	2'		C, RF
		P5	H	1/4"	2'		C, RF, NBI 1, Rot Full Depth, Needs Replaced
29	5	P5	H	1"		123	C, RF
30	5	Cap	DN			124	Small Holes in Cap
31	5	Cap	DN			125	CR
32	5	Cap	NDN			126	
33	5	Cap	DN			127	S, CR
34	5	Cap	DN			128	Split at Stringer
35	5	Cap	NDN			129	
36	5		NDN			130	C
37	5	Cap	DN			131	S, CR
38	5	Cap	NDN			132	
		SB	DN				SR on Bottom
39	5	SA1, SA2	DN			133	SR on Bottom
40	5	Cap	H			134	S, NF, SR on Bottom Betw P4&5
		P5	H	2"	7'		RF, NF
41	5	Cap	NDN			135	
42	5	Cap	DN			136, 137	CR, Timber Facing on Bent
43	5	Cap	H			139	CR, NF, Timber Facing on Bent
44	5	Cap	DN			140	SR on Bottom
45	5	P5	DN			141	Several 1/4" Crack
46	5	P5	DN			142	Old Pile
47	5	Cap	DN			143	SR on Bottom
48	5	Cap	DN			144	CR
49	5	P3	DN			145	1/2" Crack Half Height
50	5	Cap	DN			146	CR, SR on Bottom
		P1	H	5"	2'		RF, NF
		SA2	DN				Section Loss

Legend:

AP - Appears
C - Confirmed Osmose Findings
CR - Cracked/Split
DN - Defects Noted, See Remarks
H - Sounds Hollow
MCR - Minor Crushing
NDN - No Defects Noted

NF - New Finding
NRF - No Rot Found
RF - Rot Found
S - Soft
SA2 - Stringer A2
SR - Surface Rot

Notes:

1 All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.
2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.



DAVID EVANS
AND ASSOCIATES, INC.

JOB DESCRIPTION Inspection of CORP Bridge No 716.4

Florence, OR - Suslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents.

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/18/2008

WEATHER 70°F, Sunny, Windy

PAGE 3 OF 9

Bents No. From N , Piles.No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
51	5	Cap	DN			147	SR & Holes Betw P4&5
		P3	DN				1/4" Crack Full Height, Crossbeam Split
52	5	Cap	DN			148	CR
		SA2	DN				Section Loss
53	5	P4	H	6"+	2'	149	NRF, 1/2" Crack Full Height
54	5		DN			150	Deterioration and Rotting of Long. Bracing at Cap
55	5	Cap	DN			151	S
		P3	DN				1/4" Crack Full Height
		P4	DN				1/2" Crack Full Height
56	5	P1	DN			152	Splitting, Cracking & Crushing at Top
		P5	DN				1/2" Crack Full Height
		SA2	DN				Section Loss
57	5	Cap	DN			153	CR
		P2	DN				1/2" Crack Half Height
58	5	P1	DN			154	1/4" Crack Full Height
59	5	Cap	DN				S
60	5		NDN			155	C
61	5	P5	H	2"	2'	156	C, RF
62	5	Cap	H			157	NF, S, Timber Facing on Bent
		P3	DN				1/4" Crack Full Height
		SB2	DN				1/4" x 3' Section Loss
63	5		NDN			158	C, Timber Facing on Bent
64	5	P1	H	1"	3'	159	C, RF, Swelling of Pile
		P2	DN				3/8" Crack Full Height
		P5	H	6"+	4'		NRF
65	5	P5	H	1/2"		160	RF, NF, 3/4 of Pile is Gone
66	5	Cap	DN			161	CR, 3/4" Vertical Split
		P5	DN				Metal Pile Cap Shifted 6" of Top of Pile
67	5		NDN			162	C
68	5	Cap	DN			163	SR on Bottom
		P1	H	4"	2'		C, RF, Crossbracing Anchor Nut Gone
		P5	NDN				
69	5	P3	DN			164, 165	Split
		P5	H	2"			RF, NF
70	5	Cap	DN			166	S, MCR
71	5		DN			167	Crossbracing Split at Pile 1 & Rotted
End Pile Bents, Begin Frame Bents with 5' Span between Bents 71 & 72							
72	5	Cap	H			167, 168	NF, S, CR

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

S - Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/18/2008

WEATHER 70 F., Sunny, Windy

PAGE 4 OF 9

Bents No. From N. Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
73	5		NDN			169	C
74	5	Cap	DN			170	CR
75	5	Cap Sill	DN			171	SR
		SA3	DN				CR
76	5	Cap	DN			172	SR on Bottom
		P1	H	6"+	2'		NRF; SR, S, 1/2" Crack Full Height
		P5	H	2 1/2"	6'		RF, NF
77	5	P1	DN			173	1/2" Crack Full Height, Cross Bracing Loose
78	5	P5	H	6"+	2'	174	NRF
		SA3	DN				1 1/2" x 1 1/2" x 10' Section Loss
79	5	P3	DN			175, 176	Crack Full Height
80	5	Cap	DN			177	CR
81	5		NDN			178	C
82	5	Cap	DN			179	Debris on Cap, Timber Facing on Bent
83	5		NDN			180	C, Timber Facing on Bent
84	5	Cap	DN			181	SR on Bottom
85	5		NDN			182	C
86	5	Cap	DN			183	S, MCR
		P3	DN				1/2" Crack Full Height
		P5	DN				3/8" Split 5' Long
87	5	Cap	NDN			184	Long Bracing at P4 Rotted
88	5	Cap	DN			185	1/2" Horiz. Crack
		P3	DN				1/2" Crack 8' Long
		P4	DN				3/8" Crack 8' Long
89	5	Cap	DN			186	S, CR
		P1	H	3"	2'		RF, NF, S
90	5	Cap	DN			187	S, SR on Bottom
		P3	DN				1/2" Crack Full Height
		P4	DN				3/8" Crack 6' Long
		P5	H	3 1/2"	2' & 7'		C, RF, 3/4" x 6" x 5' Split
		SA3	DN				2 2" Dia. X 3" Deep Holes
91	5	SB3	DN			188	2" x 2" x 4' Section Loss
92	5	P1	H	3"	6'	189	C, RF
93	5	P4	H	1/2"	3'	190	RF, NF
		P5	H	1/2"	3' & 5'		C, RF
94	5	P5	H	2"	5'	191	C, RF, 1/2" Split Full Height
		SA1	DN				1/4" x 1/4" x 3' Section Loss

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

H - Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.



DAVID EVANS
AND ASSOCIATES INC.

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/16/2008

WEATHER 70 F, Sunny, Windy

PAGE 5 OF 9

Bents No. From N, Piles No. From E

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
95	5		NDN			192	C
96	5	Cap	DN			193	SR on Bottom
		P3	DN				3/4" Crack Full Height
97	5	Cap	DN			194	CR
		P1	DN				1/4" Crack Full Height
98	5	SB2	DN			195	1" x 1" x 3" Section Loss
99	5	P1	H	6"+		196	NRF
100	5	Cap	DN			197	CR, Bulging @ Piles, SR on Bottom
		P1	DN				1/2" x 5" Split Full Height
		P2	DN				3/4" Crack Full Height
		P5	H	1 1/2"	3'		C, RF
101	5		NDN			198	C
102	5	Cap	DN			199	SR on Bottom
		SA3	DN				2" Dia. X 3" Deep Hole
103	5	P4	H	6"+	2'	200	NRF
104	5	Cap	DN			201	CR
		SA4	DN				3" Dia. X 4" Deep Hole
105	5	P5	H	1"	4'	202	C, RF, Timber Facing on Bent
106	5	Cap	DN			203	SR on Bottom, Timber Facing on Bent
107	5	Cap	DN			204	S
		P5	H	1"	.5'		C, RF
108	5	P2	DN			205	Pin coming out at top of Pile
109	5	Cap	H	2"		206	RF, NF, S, SR on Top, Minor Damage
		P1	H	1"	4'		C, RF
110	5	Cap	DN			207	CR, Crossbracing Loose Bolt
		P2	DN				1/2" Crack Full Height
		P3	H	6"+	3'		NRF, S
		P4	DN				3/8" Crack Full Height
		P5	H	2"	.5'		C, RF
111	5	Cap	DN			208	SR over P1 & 2
112	5	Cap	DN			209	SR on Bottom, 2" x 1/2" x 1" Section Loss at Stringer A
		P1	H	1"			C, RF
		P2	DN				3/8" Crack Full Height
		P4	DN				3/4" Split 6' Long
113	5	P1	H	6"+	1'	210	NRF

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

- Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

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DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

INSPECTED BY THWH, CSK, AMST, RJST, CD

DATE 9/16/2008

WEATHER 70 F; Sunny, Windy

PAGE 6 OF 9

Bents No. From N, Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
114	5	Cap	DN			211	SR on Bottom
		P1	H	1"	2' & 5'		C, RF
		P2	DN				1/2" Crack Full Height
		P3	DN				1/2" Crack Full Height
		P5	H	1 1/2"	3'		C, RF
115	5	Cap	H			212	NF, CR, S. Rotting over P1&2, Crushing
		P4	H				C
		P5	H				C
116	5	Cap	DN			213	CR, SR on Bottom, Long. Bracing Loose/Splitting
		P5	DN				1/2" Crack Full Height
117	5	Cap	DN			214	S, SR
		P1	H	1/2"	3'		RF, NF
		P2	H	1/2"	2'		RF, NF, 3/4" Split Full Height
		P5	H	2 1/2"	2'		C, RF
118	5	P1	DN			215	3/8" Crack Full Height
		P2	DN				1/2" Crack Full Height
		P5	H	6"	3'		C, RF, 3/4" Crack Full Height
119	5	P5	H	4 1/2"	4'	216	C, RF
120	5	Cap	NDN			217	
121	5		NDN			218	C
122	5	Cap	H			219	RF, NF, CR, Falling, Bulging, Crushing, NBI 2
		P1	DN				SR
		P4	DN				1/2" Crack Full Height
123	5	Cap	DN			220	S, CR, SR on Top and Bot., Full Length Crack
		P1	DN				1/2" Crack Full Height
		P2	DN				Crack Full Height
		P4	DN				3/4" Crack Full Height
124	5	Cap	DN			221	S, CR, 2 Piece Cap
		P3	H	6"+	4'		NRF, S, 1/2" Crack Full Height
		P4	DN				3/4" Split Full Height
125	5	Cap	DN			222	CR
		P3	DN				Crack Full Height
		P5	H	4"	5'		RF, NF, Crack Full Height
126	5	Cap	DN			223	CR
		P1	H	6"+			NRF
		P2	DN				3/8" Crack Full Height
		P3	H	6"+			NRF

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

H - Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

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DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Suslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents.

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/18/2008

WEATHER 70 F, Sunny, Windy

PAGE 7 OF 9

Bents No. From N , Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
127	5	P1	H	6"+	2'	224	NRF
		P5	H	1 1/2"	7'		C, RF
128	5	Cap	DN			225	CR, Bulging at P5
		P3	DN				S
129	5	Cap	H			226	NF, S, SR
		P1	H	1"	2'		C, RF
		P2	DN				SR
130	5	Cap	DN			227	S, CR
		P1	H	2"	4'		RF, NF
		P3	DN	6"+	4'		NRF, 1/2" Crack Full Height
		P4	DN				3/8" Crack Full Height
		P5	DN				1/2" Split Full Height, Both Directions through Pile
131	5	Cap	DN			228	SR on Bottom
		P1	DN				Crack Full Height
		P2	DN				Crack Full Height
		P3	H				NF
		P4	DN				Crack Full Height
		P5	H				NF, Crack Full Height
132	5	P2	DN			229	3/4" Crack Full Height
		P5	H	6"+	7'		NRF, 3/4" Split, Both Directions through Pile
133	5	Cap	DN			230	S, CR
		P2	DN				SR
		P3	H				NF
		P5	H				NF
134	5	Cap	DN			231	S, CR, MCR, Long. Bracing Loose/Missing
		P1	H	1/2"	7'		RF, NF
		P2	DN				Multiple 3/8" Cracks
		P3	DN				1/2" Crack Full Height
		P5	H	1"	7'		RF, NF, 3/8" Crack Full Height
135	5	Cap	H			232	S, CR, MCR
		P3	DN				Crack Full Height
		P5	DN				Crack Full Height
136	5	Cap	DN			233	SR
		P4	H				NF, Crack Full Height
137	5	Cap	H			234	NF, S, CR
		P3	H				NF

Bents 138 to 167 - Below waterline, Heavy Rot, Heavy Cracking and Splitting, Holes in Top of Piles under waterline.

Legend:

AP - Appears
C - Confirmed Osmose Findings
CR - Cracked/Split
DN - Defects Noted, See Remarks
H - Sounds Hollow
MCR - Minor Crushing
NDN - No Defects Noted

NF - New Finding
NRF - No Rot Found
RF - Rot Found
S - Soft
SA2 - Stringer A2
SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.
2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing.



DAVID EVANS
AND ASSOCIATES INC.

JOB DESCRIPTION Inspection of CORP Bridge No. 716.4

Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

INSPECTED BY THWH, CSK, AMST, RJST, CD

DATE 9/16/2008

WEATHER 70 F, Sunny, Windy

PAGE 8 OF 9

Bents No. From N Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
138	5	Cap	DN			235	S, CR, Cross Bracing Loose/Missing
		P5	H	4"	5'		C, RF
139	5	Cap	DN			236	CR
		P4	NDN				
140	5	Cap	DN			237	S, CR
141	7	Cap	DN			238	MCR, Loose Long. Bracing
142	7	Cap	DN			239, 240	CR
143	7	P7	H			241	C
144	7	Cap	DN			242	CR
		P1	H				NF
		P2	H				NF
		P3	H				NF
		P4	H	6"+	3'		NRF
		P5	H	6"+	3'		NRF
145	7	Cap	H			243	NF, S, CR
146	7	P1	DN			244	3/4" Crack Full Height
147	7	Cap	DN			245	CR
		P2	H		4'		
		P6	H				
148	7	Cap	DN			246	CR
		P1	H	6"+	2'		NRF
		P5	H				NF
149	7	Cap	DN			247	S, CR
		P5	NDN				NF
150	7	Cap	DN			248	CR
		P7	H				NF
151	7	Cap	H			249	NF, CR
152	7	Cap	DN			250	CR
153	7		NDN			251	C
154	7		NDN			252	C
155	7	Cap	DN			253	CR
		P6	DN				Crack Full Height
156	7	Cap	DN			254	CR
		P1	DN				Heavy Cracking at Bottom
		P2	DN				Crack Full Height
		P4	NDN				

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

H - Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

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Florence, OR - Siuslaw River

FOR ODOT Rail Assessments

LOCATION Section 4 Timber Bents

INSPECTED BY THWH, CSK, AMST, RJST, CDS

DATE 9/16/2008

WEATHER 70 F. Sunny, Windy

PAGE 9 OF 9

Bents No. From N , Piles No. From E

Bent	No. Piles	Member	Results	Shell	Drill Height	Photo #	Remarks
157	7	Cap	DN			255	CR
		P7	H	1/2"	5'		RF, NF
158	7	Cap	DN			256	S, CR
		P7	H	1"	3'		C, RF
159	7	Cap	DN			257	CR, Long. Bracing Loose
		P2	H				NF
160	7	Cap	DN			258	CR
		P2	DN				Crack Full Height
161	7	P7	H	1"	4'	259	RF, NF
162	7	Cap	H			260	NF, CR, Evidence of Stringer Shift on Cap
		P5	DN				Crack Full Height
		P7	DN				Crack Full Height
163	7	Cap	H	1"		261	NF, S, CR, MCR, NBI 3/4
164	7	Cap	DN			262	CR
165	7	Cap	H	6"+		263	NRF, CR
166	7	Cap	DN			264	S, CR
		P1	H	1"	7'		RF, NF
		P7	H	6"+	8'		NRF
167	7	Cap	DN			265	CR
		P1	NDN				
		P6	DN				Crack Full Height
		P7	H	1"	5'		RF, NF
168	5	Cap	DN			266	CR
		P1	H	6"+	3'		NRF
		P4	H	1"	7'		RF, NF
169	5	Cap	H	2"		267	RF, NF, 2" Dia. Holes on top
		P1	H	1/2"	5'		RF, NF, Heavy Cracking, Rot at Top
170	5	P4	H	6"+	Top	268	NRF

* Previous Inspection Reports indicate 171 Bents, however, we confirmed only 170 Bents

Legend:

AP - Appears

C - Confirmed Osmose Findings

CR - Cracked/Split

DN - Defects Noted, See Remarks

- Sounds Hollow

MCR - Minor Crushing

NDN - No Defects Noted

NF - New Finding

NRF - No Rot Found

RF - Rot Found

S - Soft

SA2 - Stringer A2

SR - Surface Rot

Notes:

1. All piles were sounded from ground level to approx. 7' height. Most piles with hollow sound were drilled to assess amount of rot and shell thickness.

2. All cap beams were sounded. Several caps which sounded hollow were also drilled to evaluate potential rot and shell thickness. All caps were visually inspected for crushing

BRIDGE INSPECTION PHOTOGRAPHS

APPENDIX C: INSPECTION PHOTOGRAPHS

APPENDIX C: INSPECTION PHOTOGRAPHS

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BRIDGE INSPECTION PHOTOGRAPHS

BRIDGE SECTION 1
STEEL THRU-GIRDER

BRIDGE INSPECTION PHOTOGRAPHS



Photo 1 Through Truss Overall View

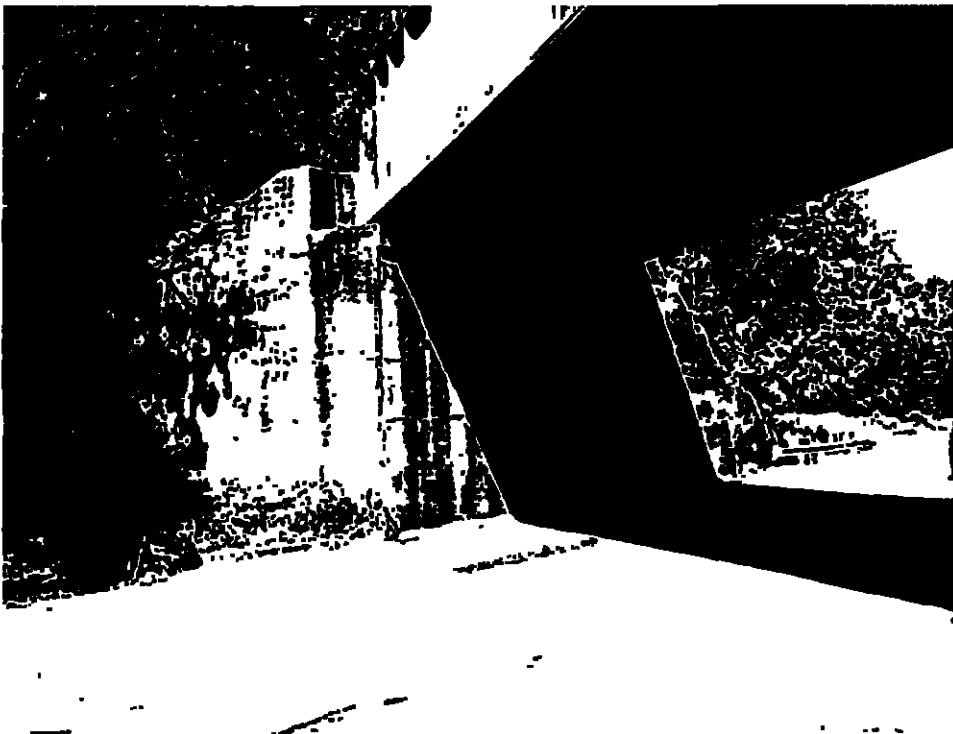


Photo 2 Abutment 1

BRIDGE INSPECTION PHOTOGRAPHS



Photo 3 Bent 2



Photo 4 Bent 2- Top Joint

BRIDGE INSPECTION PHOTOGRAPHS

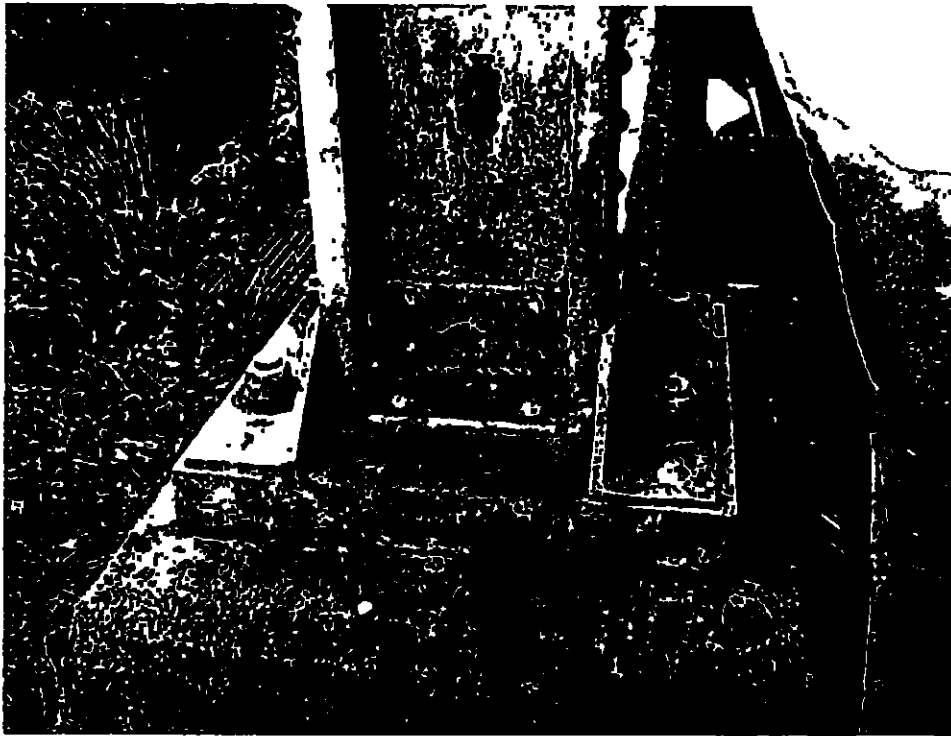


Photo 5 Bent 2- Bottom Anchor Bolts

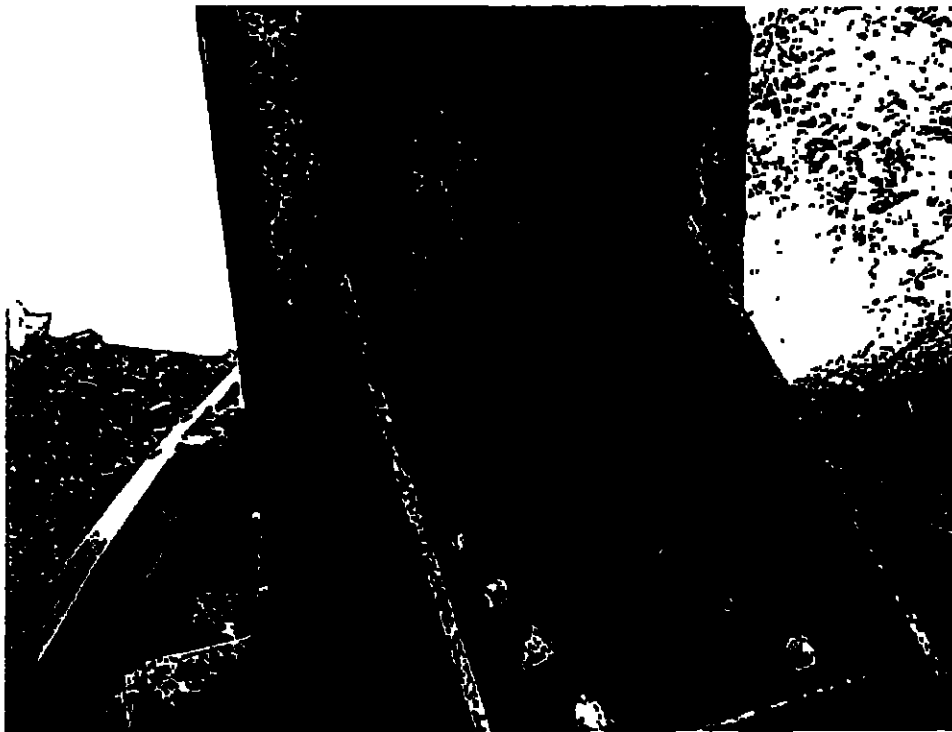


Photo 6 Bent 2- Bottom Joint

BRIDGE INSPECTION PHOTOGRAPHS

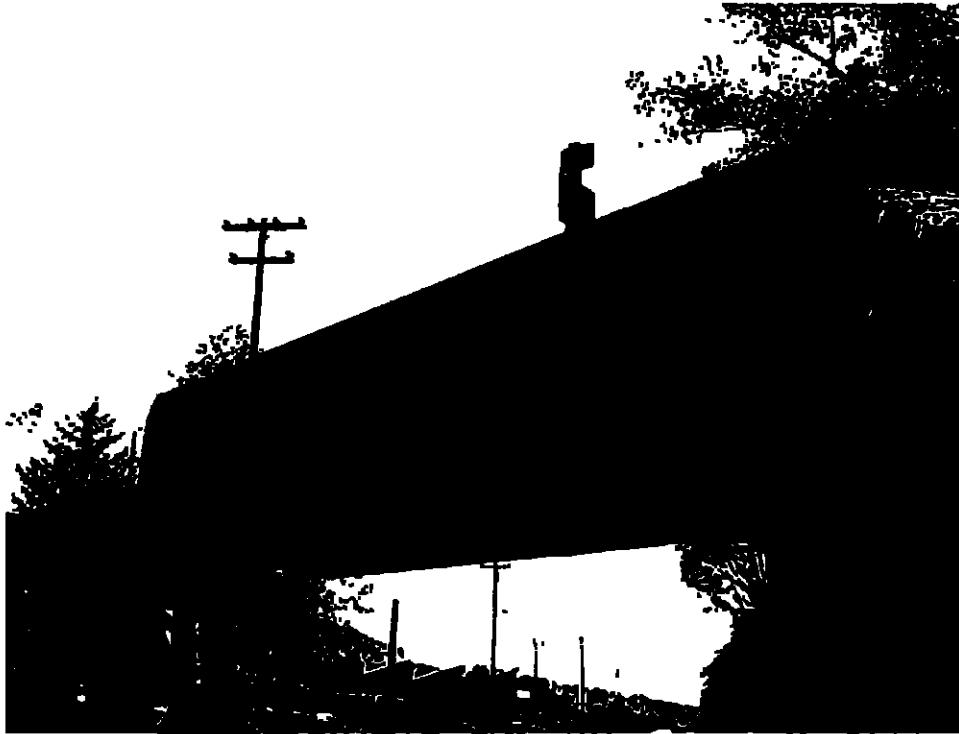


Photo 7 Girder A

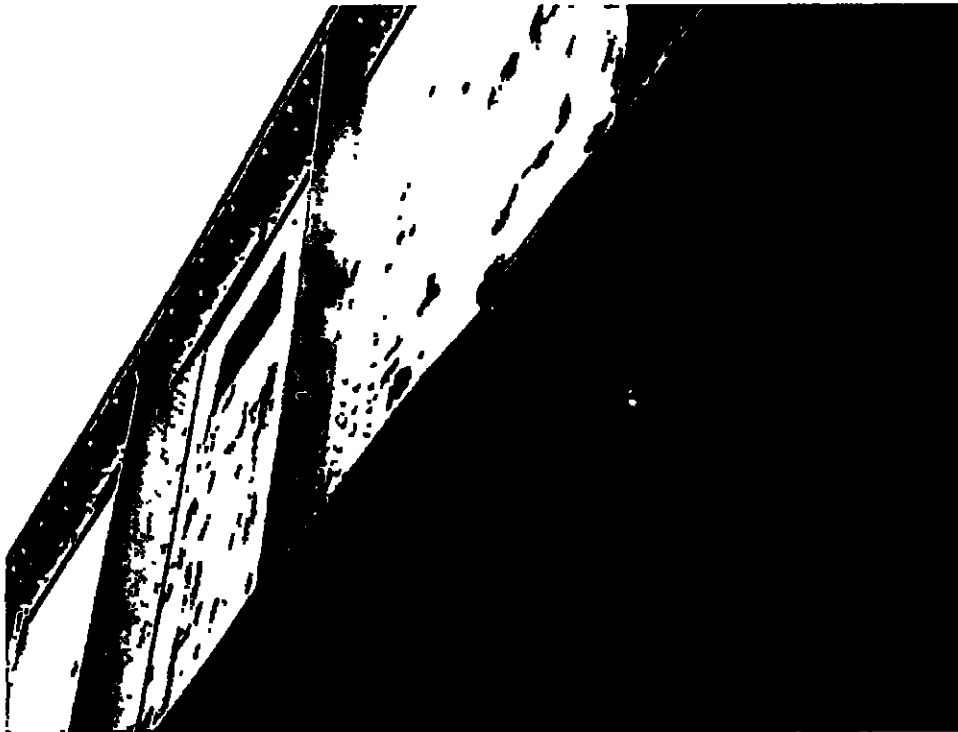


Photo 8 Girder A- Bottom View

BRIDGE INSPECTION PHOTOGRAPHS



Photo 9 Girder A- Bottom View

BRIDGE INSPECTION PHOTOGRAPHS

BRIDGE SECTION 2
NORTH TIMBER APPROACH TRESTLE

BRIDGE INSPECTION PHOTOGRAPHS



Photo 10 Overall View



Photo 11 Bent 1

BRIDGE INSPECTION PHOTOGRAPHS



Photo 12 Bent 2



Photo 13 Bent 3

BRIDGE INSPECTION PHOTOGRAPHS



Photo 14 Bent 4



Photo 15 Bent 5

BRIDGE INSPECTION PHOTOGRAPHS



Photo 16 Bent 6



Photo 17 Bent 7

BRIDGE INSPECTION PHOTOGRAPHS



Photo 18 Bent 8

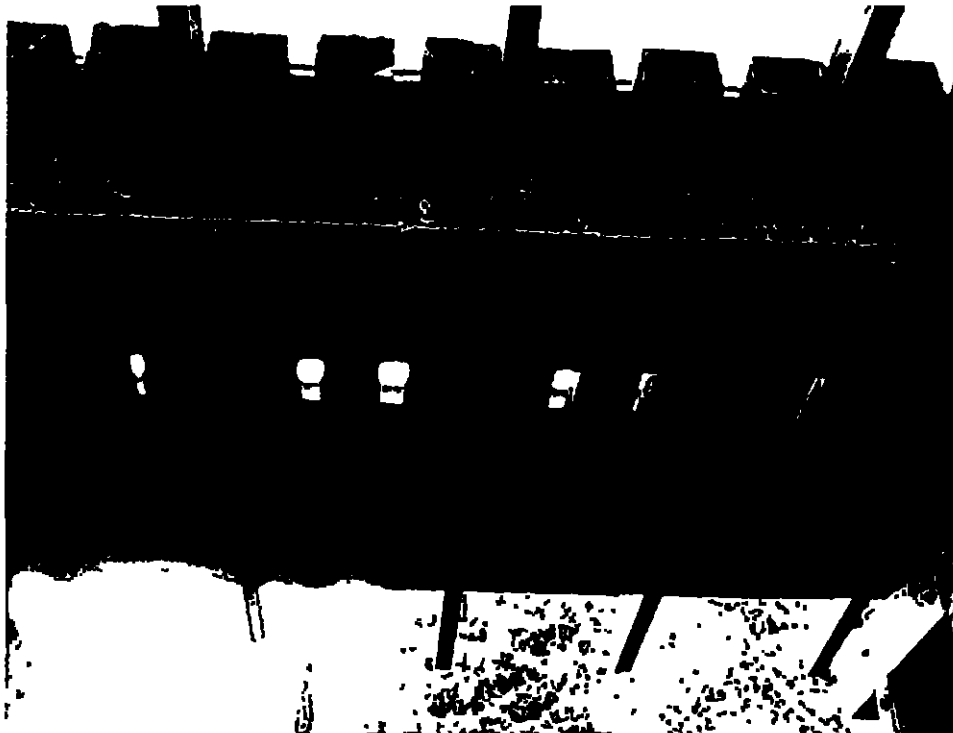


Photo 19 Stringer (Typical)

BRIDGE INSPECTION PHOTOGRAPHS

BRIDGE SECTION 3
STEEL TRUSS

BRIDGE INSPECTION PHOTOGRAPHS

SPAN 1 (FIXED SPAN)

BRIDGE INSPECTION PHOTOGRAPHS

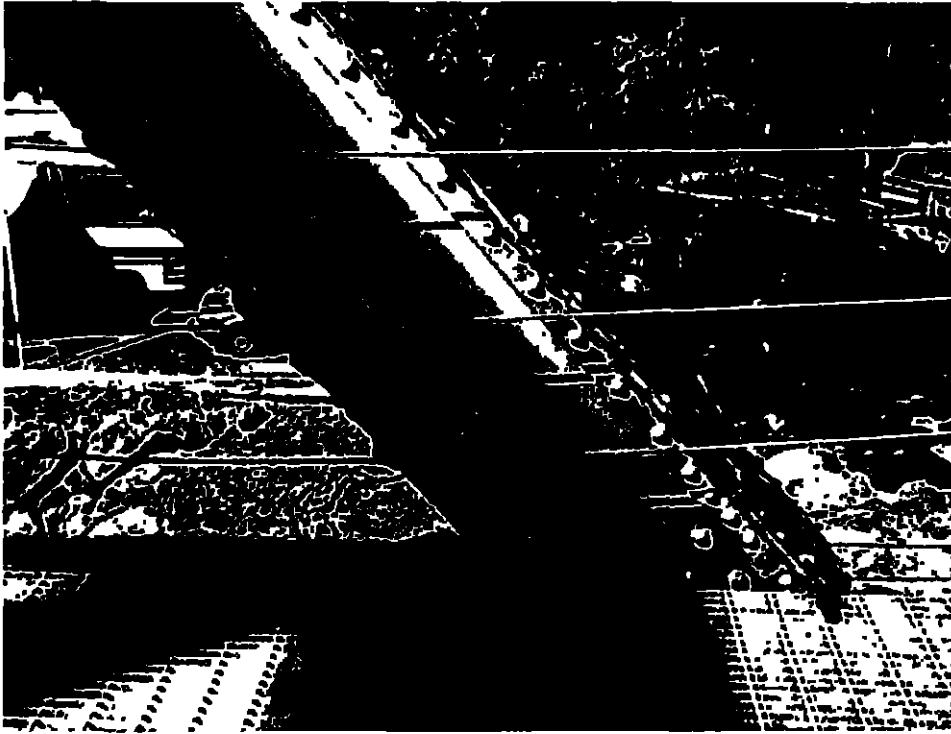


Photo 20 Member U1-L2 Right Truss



Photo 21 Member U1-L2 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

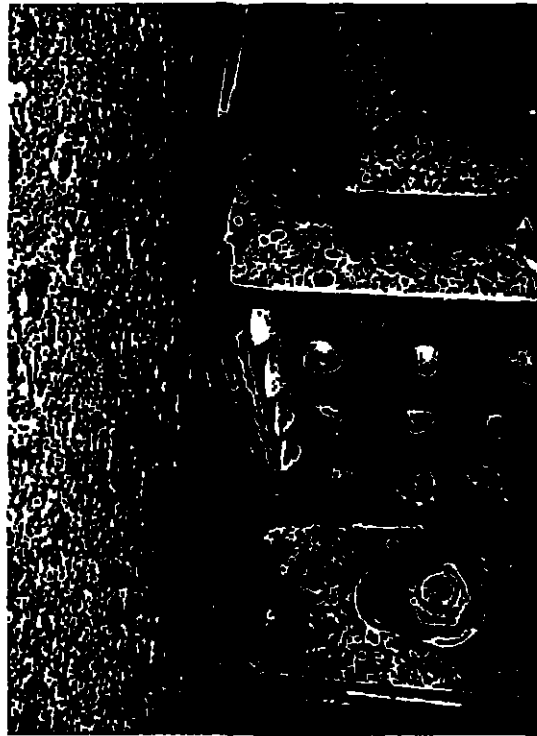


Photo 22 Bearing B1-B1 Right Truss

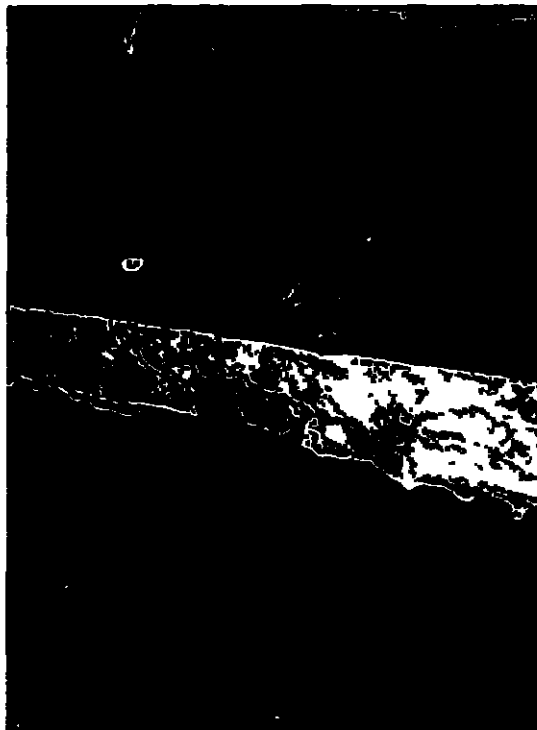


Photo 23 Bearing B1-B1 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 24 Bearing B1-B1 Right Truss



Photo 25 Pin-L2 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 26 Member L2 Vertical Right Truss



Photo 27 Cross Brace & Stringer S1-1B Bay 1 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

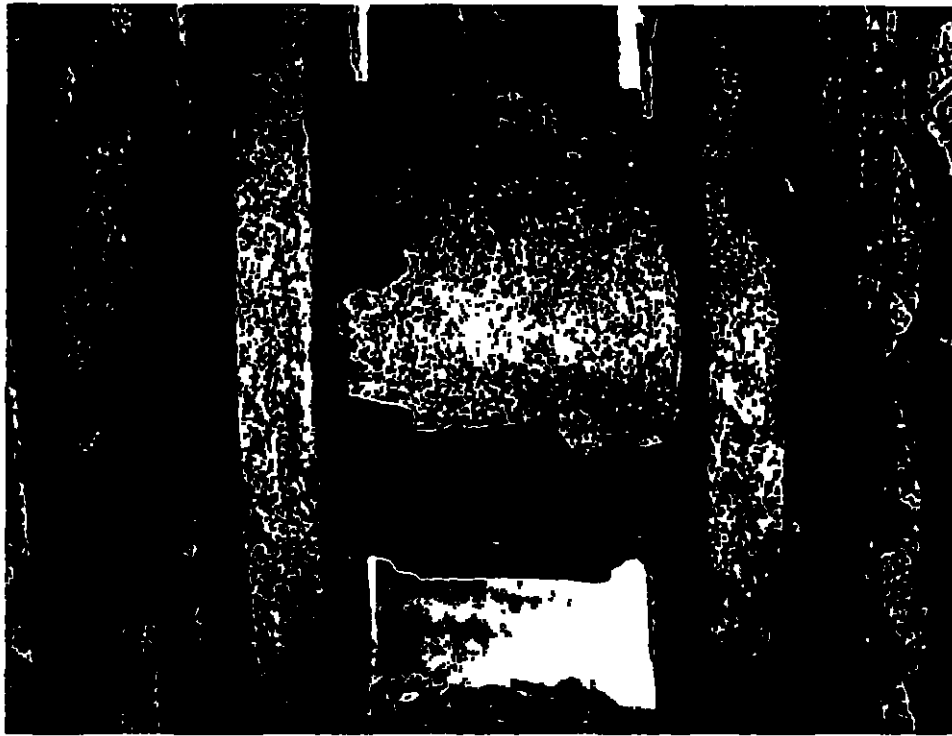


Photo 28 Pin-L3 Right Truss



Photo 29 Stringer S1-4B to Floor Beam 1-3 Connection Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

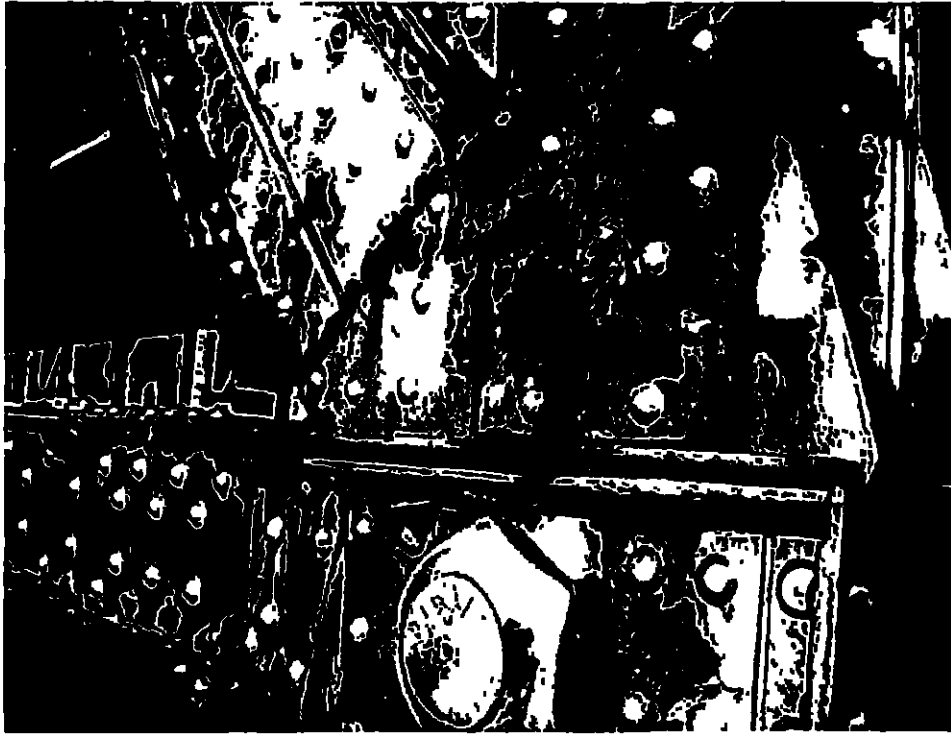


Photo 30 Bearing B1-B2 Right Truss



Photo 31 Bearing B1-B2 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 32 Member L0-L1 Left Truss



Photo 33 Member L0-L1 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 34 Member S1-2A Left Truss



Photo 35 Member FB1-1 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

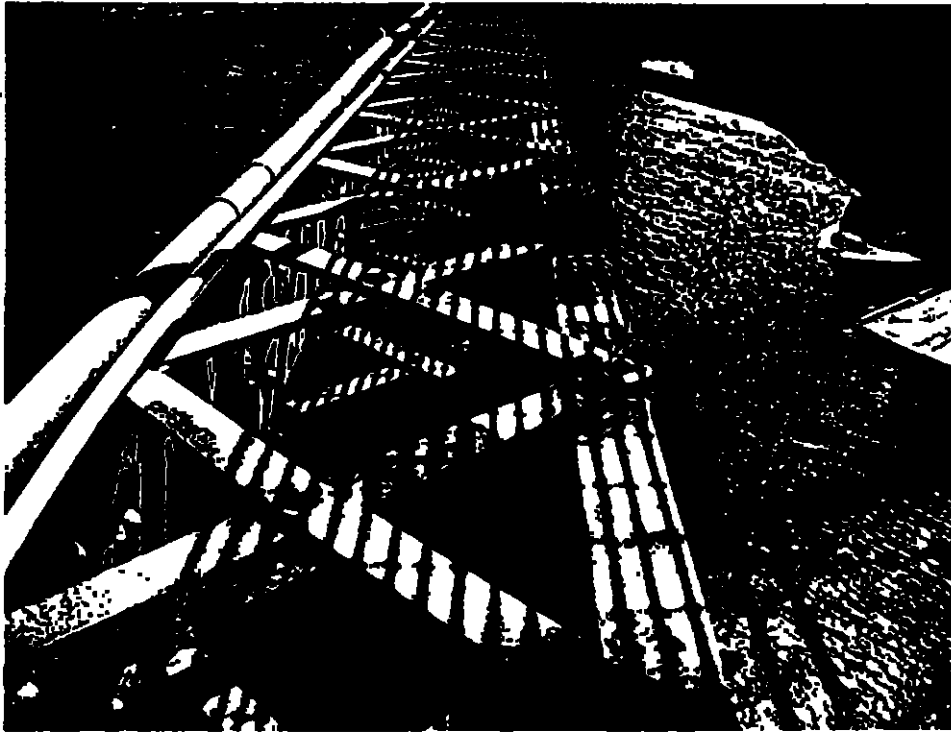


Photo 36 Member L1-L2 Left Truss

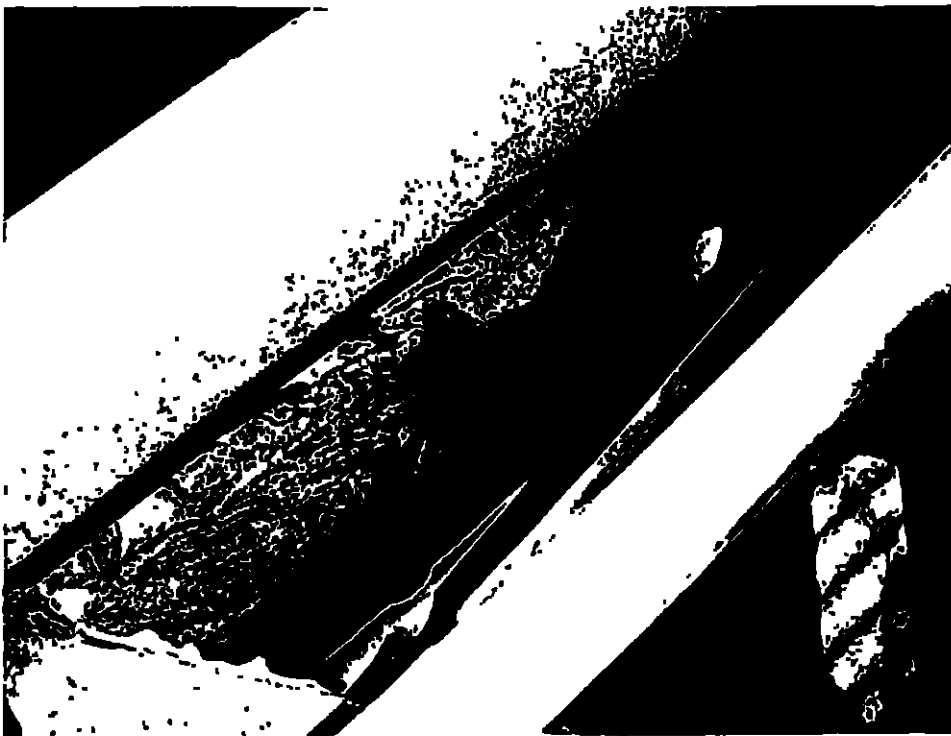


Photo 37 Member L1-L2 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 38 Member L3-U3 Left Truss



Photo 39 Member L3-U3 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

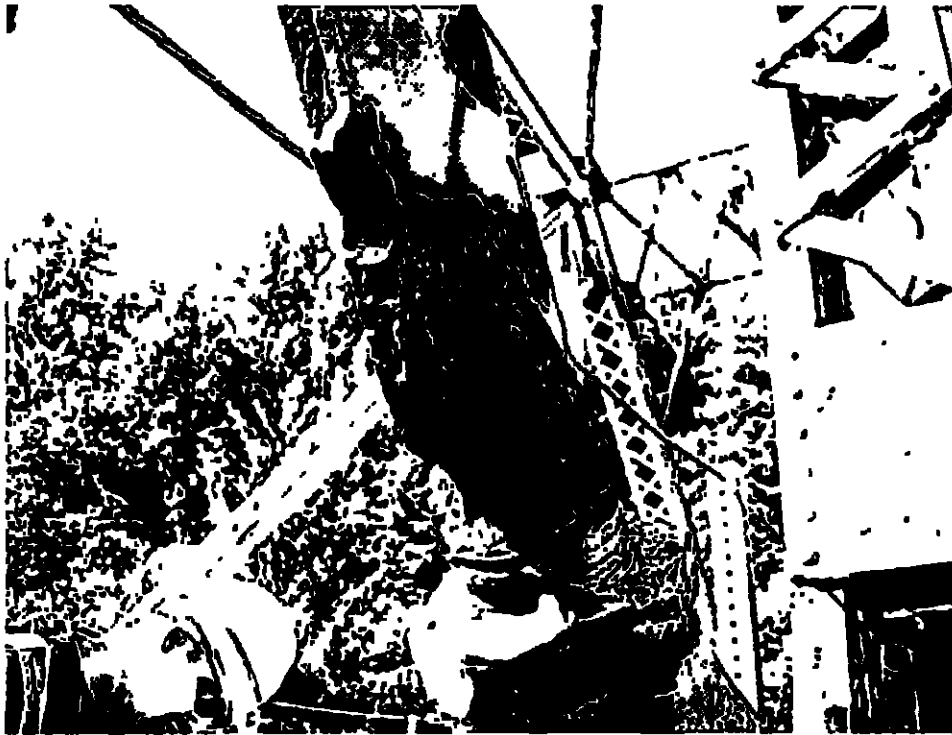


Photo 40 Member L2-U3 Left Truss



Photo 41 Member U3-L4 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

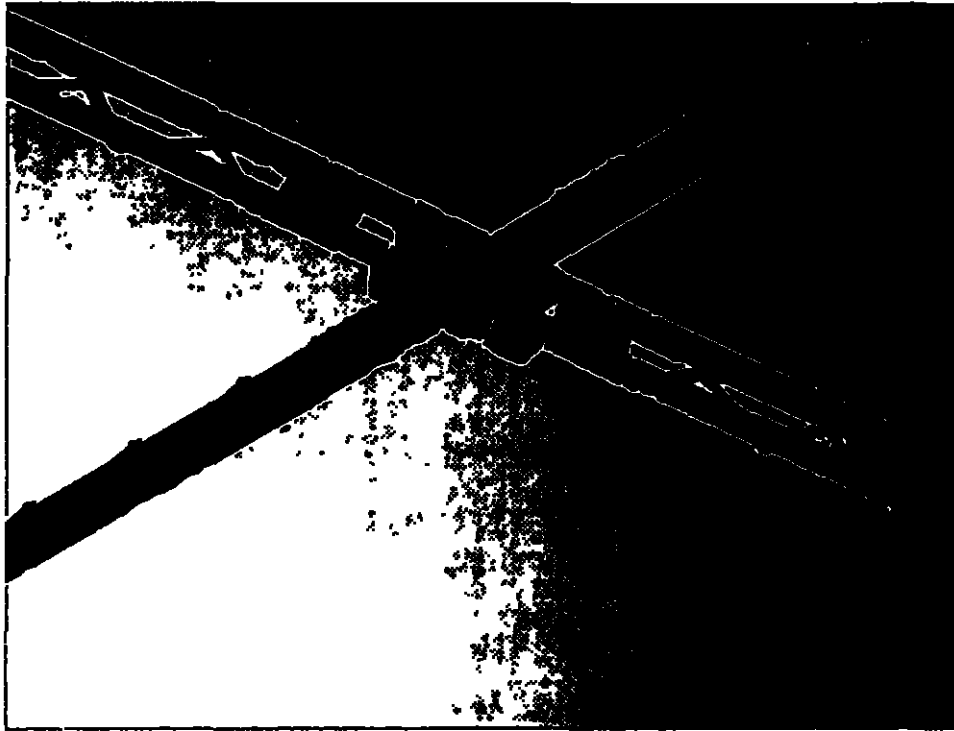


Photo 42 Typical TC bracing Left Truss

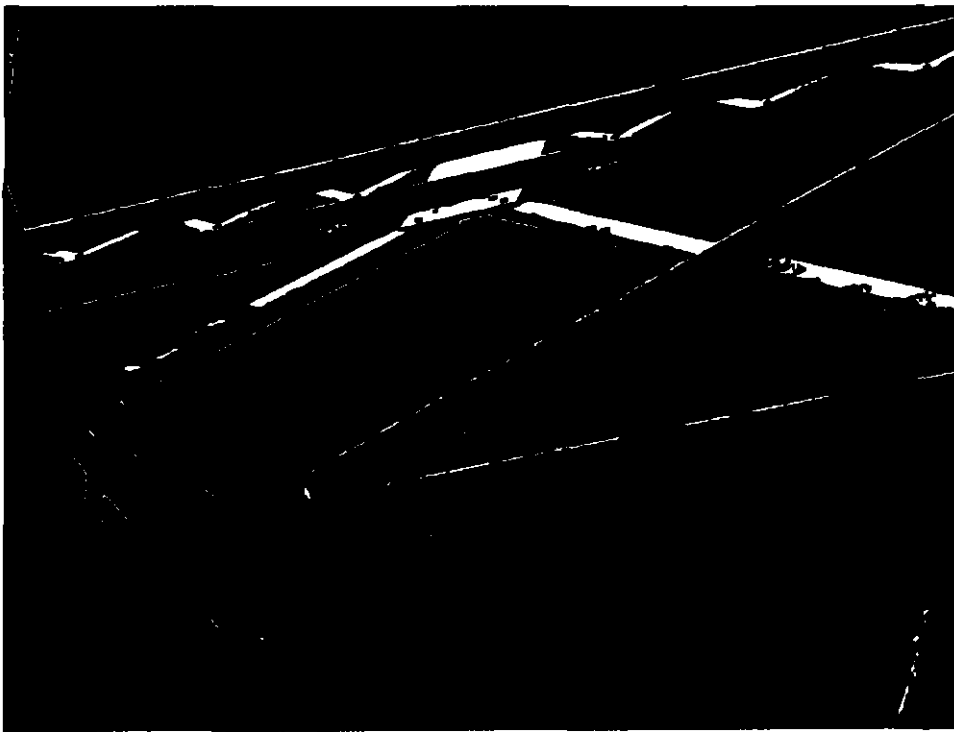


Photo 43 Typical MC bracing Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 44 Member L3-L4 Left Truss



Photo 45 Member FB1-3 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 46 L4 Lower Pin Left Truss



Photo 47 L4 Lower Pin Truss

BRIDGE INSPECTION PHOTOGRAPHS

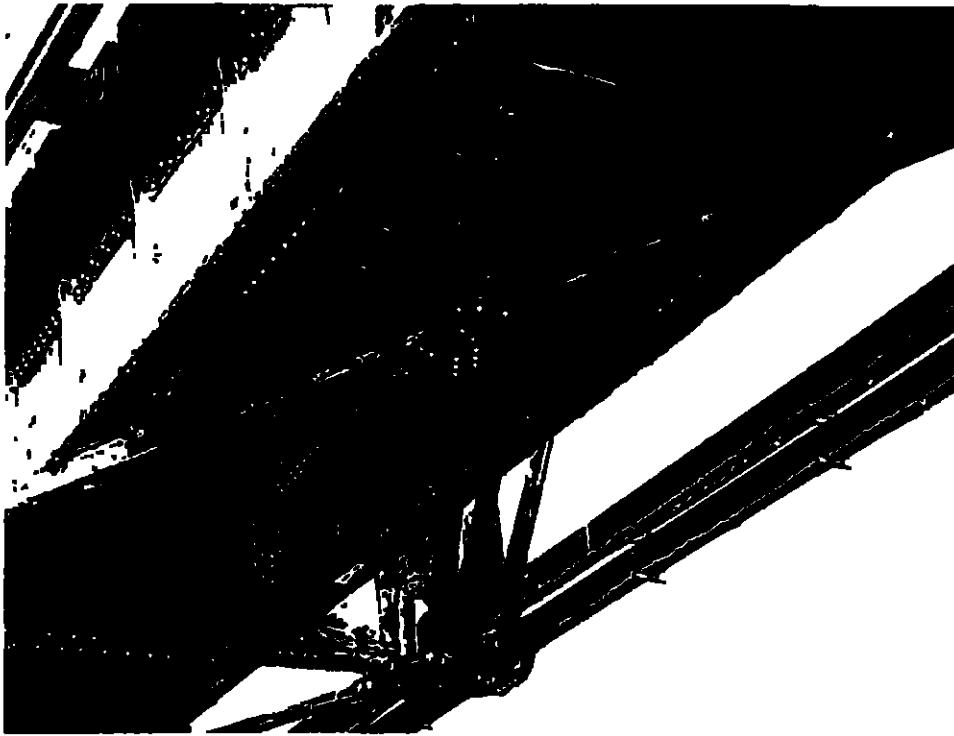


Photo 48 Stringer



Photo 49 Stringer and BC member

BRIDGE INSPECTION PHOTOGRAPHS

SPAN 2 (SWING SPAN)

BRIDGE INSPECTION PHOTOGRAPHS



Photo 50 Stringer S2-1B to Floor Beam 2-0 Connection Right Truss

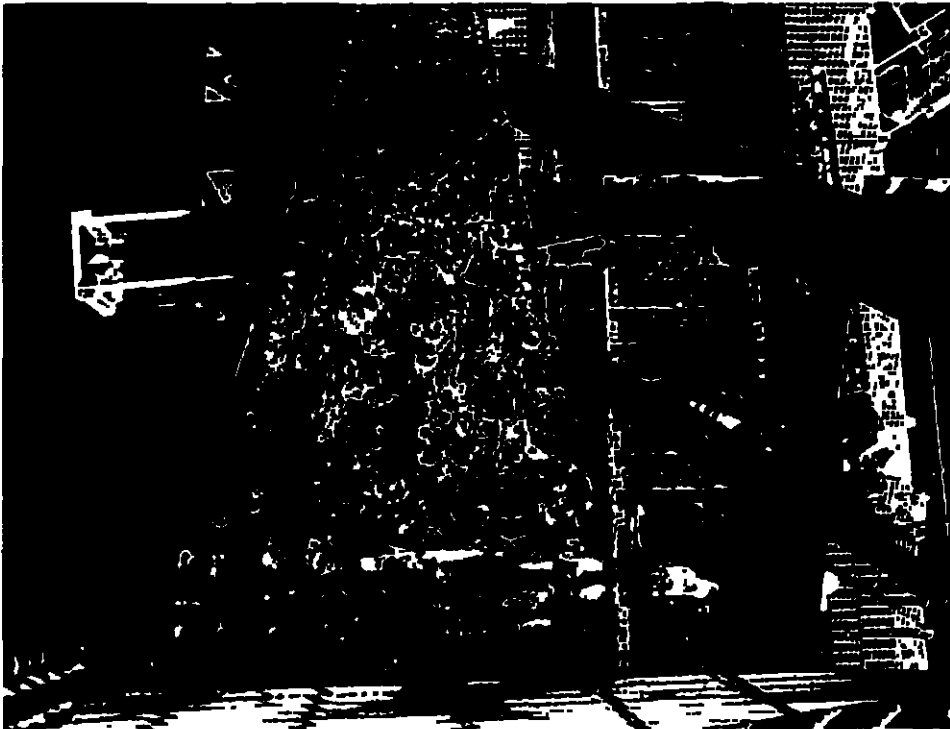


Photo 51 Member U1 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

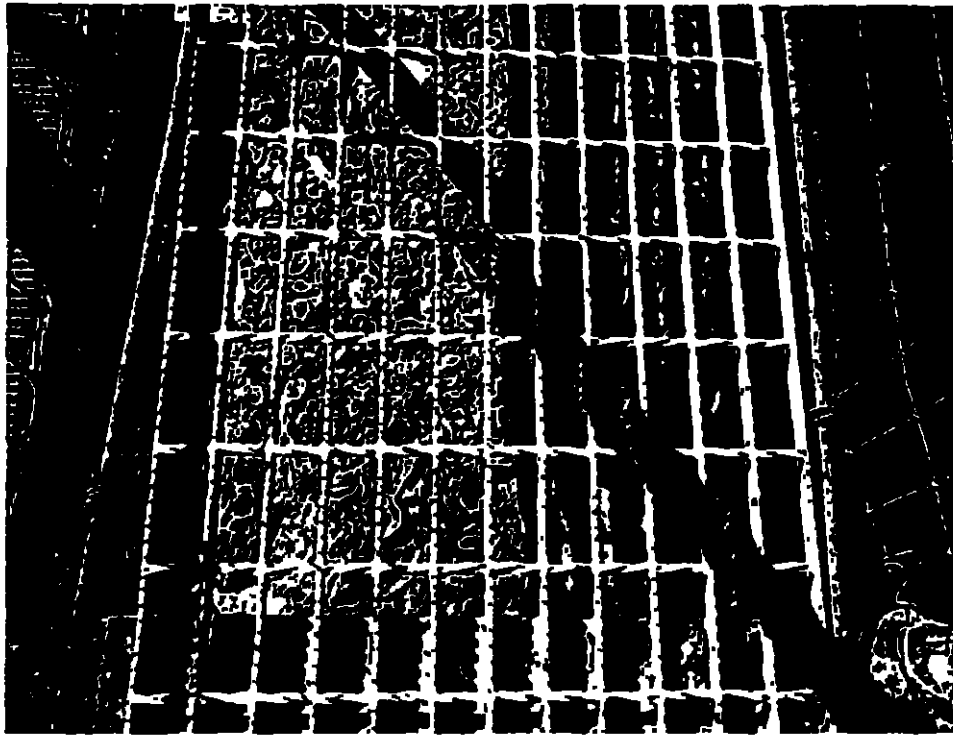


Photo 52 Member U1-U2 below walkway Right Truss



Photo 53 U1 Connection Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

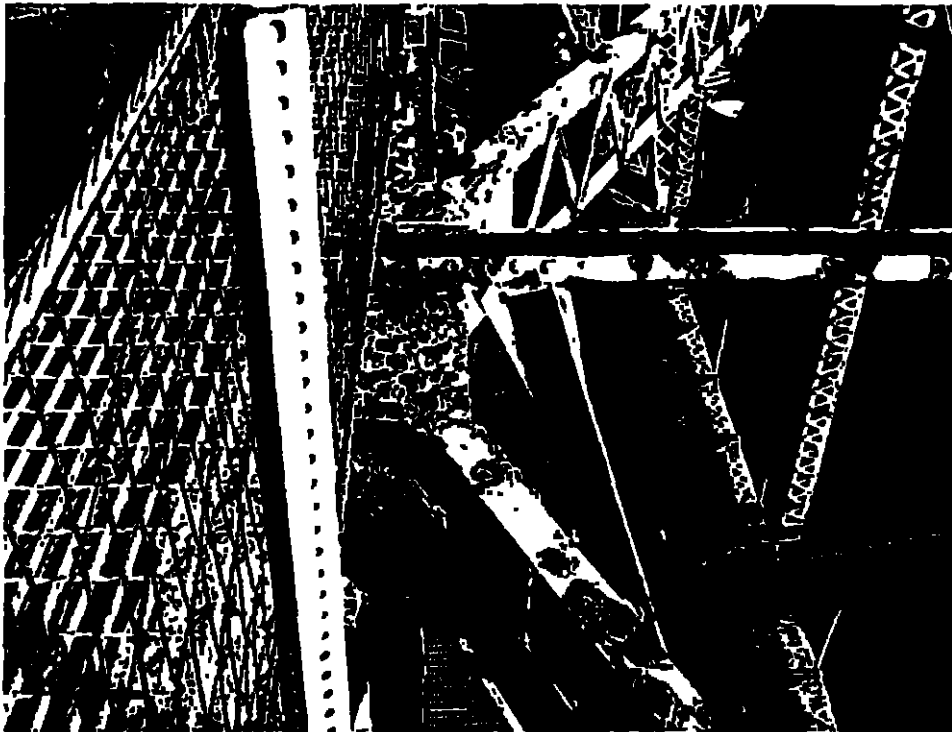


Photo 54 U4 Connection Right Truss

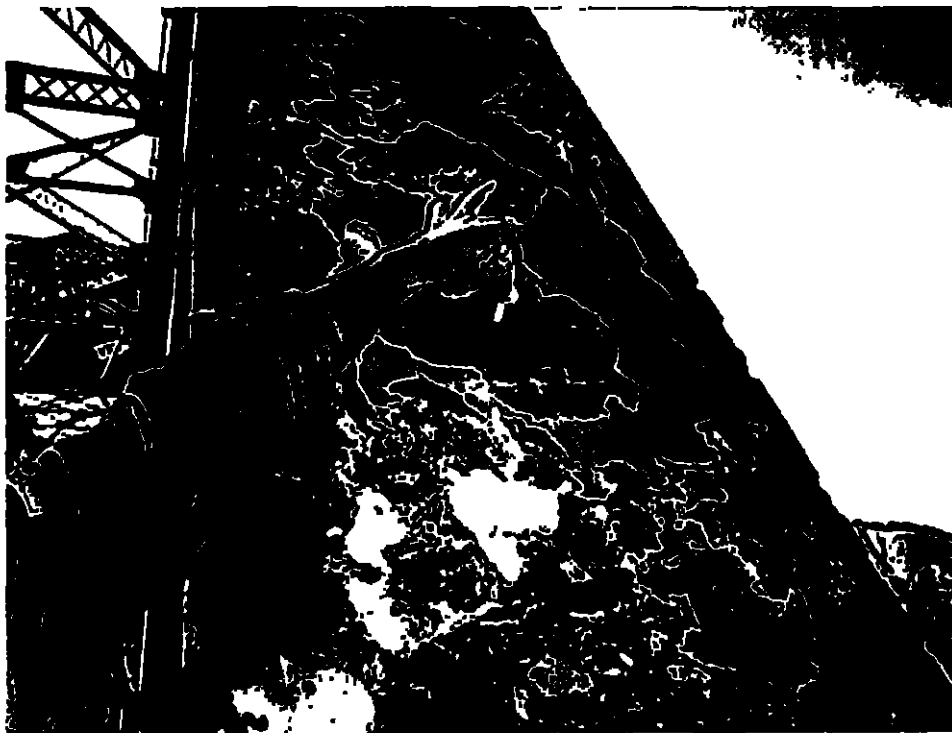


Photo 55 L0-U1 Member Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 56 Bearing B2-B1 Right Truss



Photo 57 Floor Beam 2-1 Connection Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 58 Stringer S2-2B Top Flange Right Truss

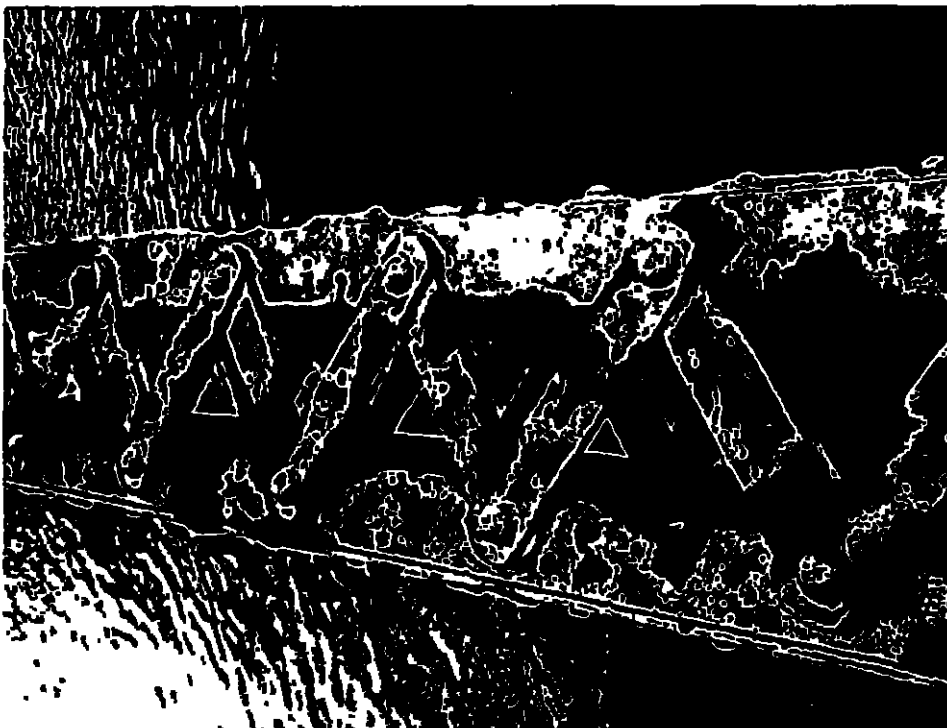


Photo 59 L1-L2 Bottom Cord Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 60 L2-U2 Right Truss



Photo 61 Stringer S2-3B Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

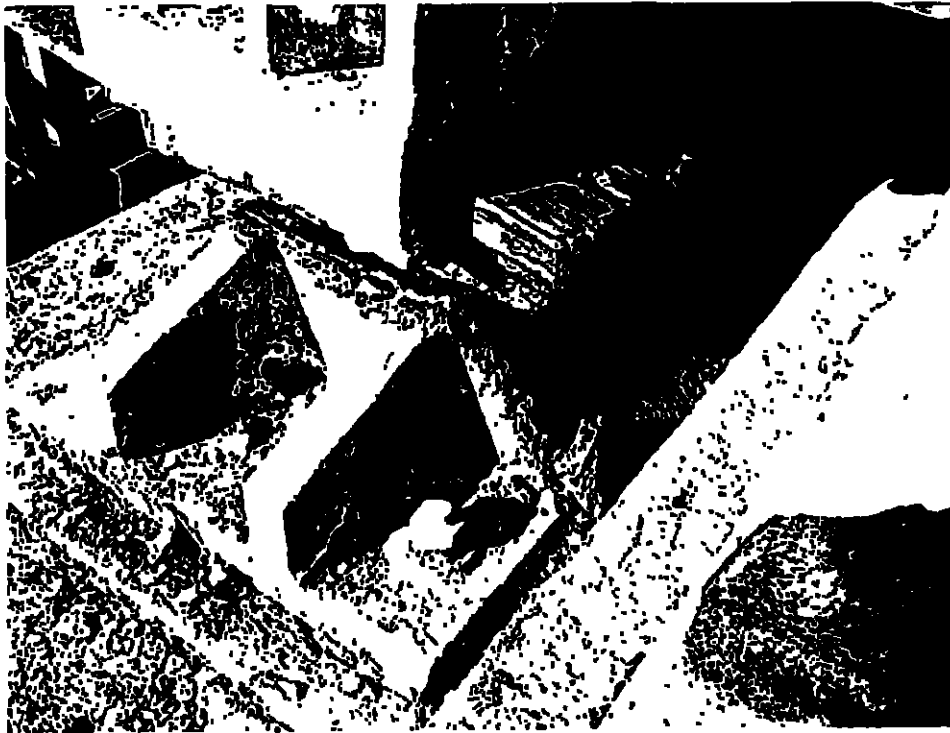


Photo 62 Bearing Assembly B2A1 Left Truss

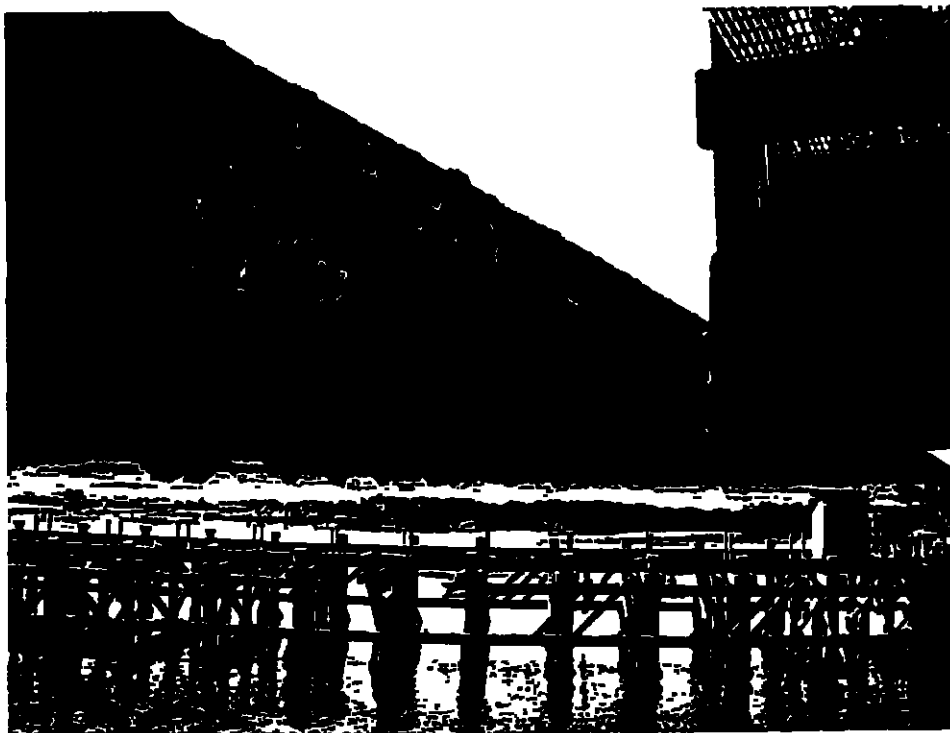


Photo 63 Member L0-L1 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

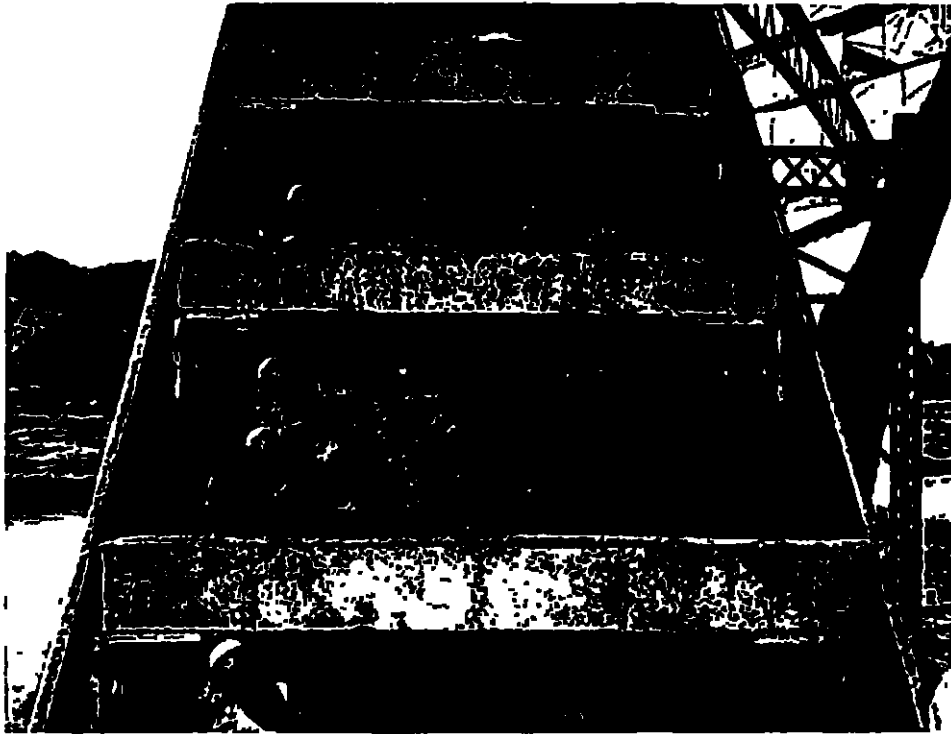


Photo 64 Member L0-U1 Left Truss

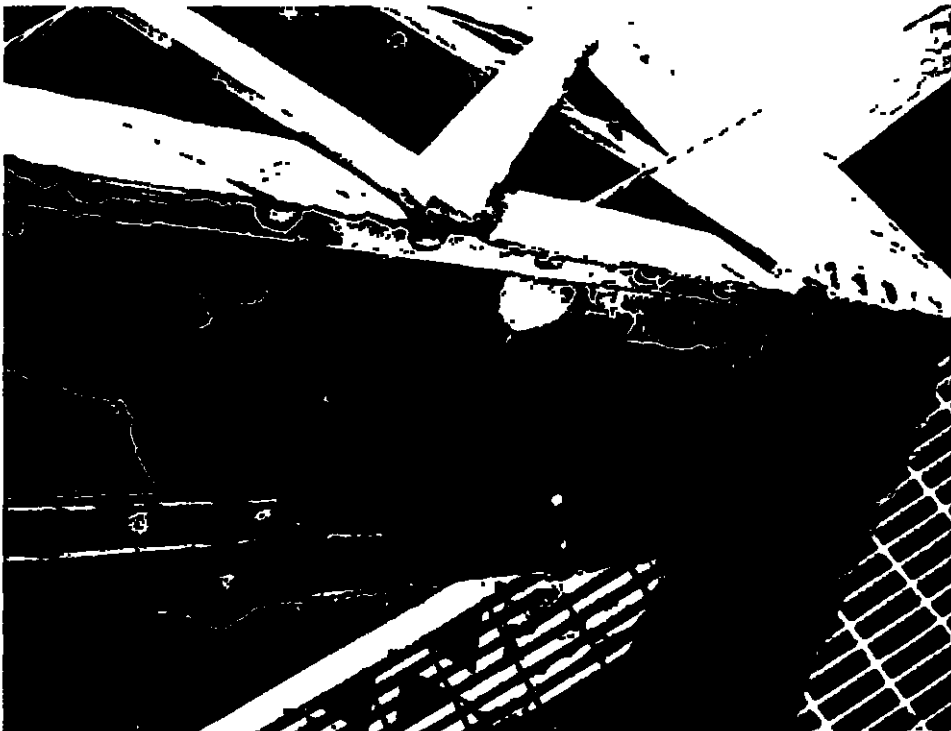


Photo 65 Member U1-L2 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 66 Member FB2-2 Left Truss

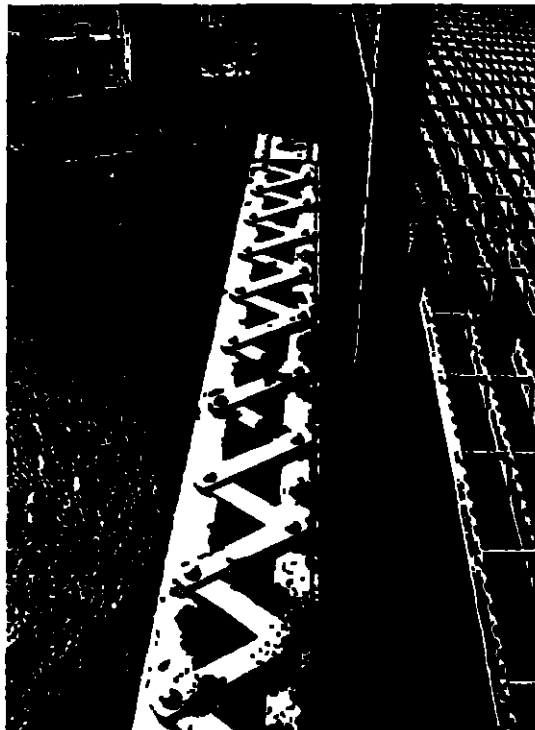


Photo 67 Member L2-L3 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 68 Member L4-U4 Left Truss



Photo 69 Middle Swing Bearing Assembly Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 70 Member L8-U8 Left Truss



Photo 71 Anchor Bolt B2A2 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 72 Lower connection Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

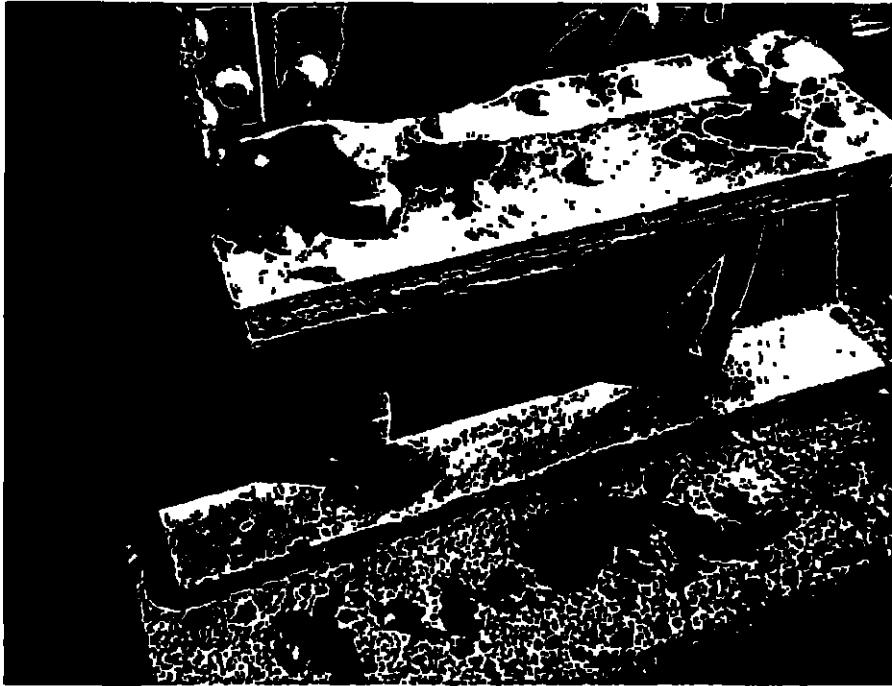


Photo 73 B3-B1 Outside Right Truss

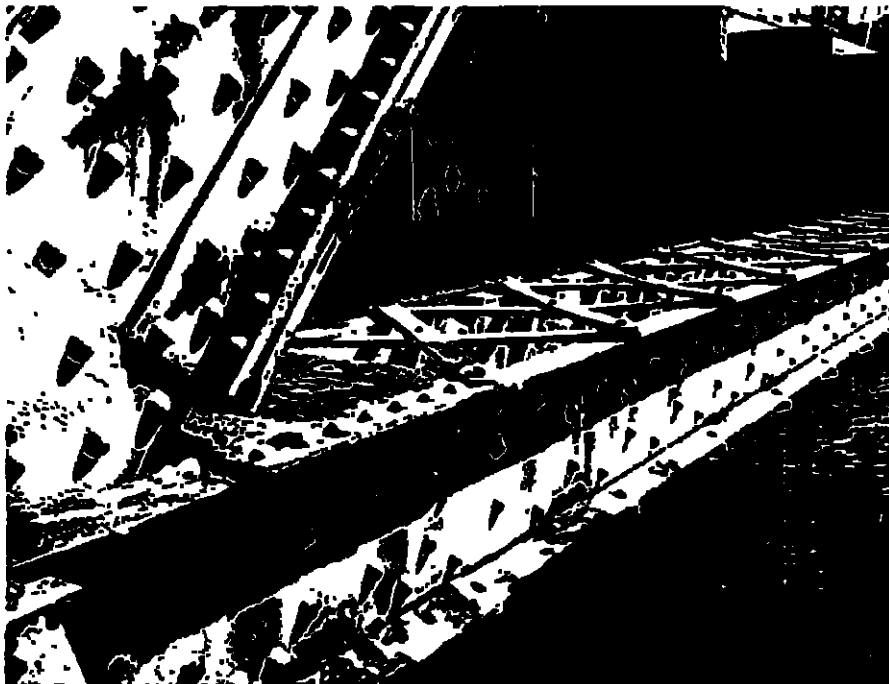


Photo 74 Member L0-L1 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

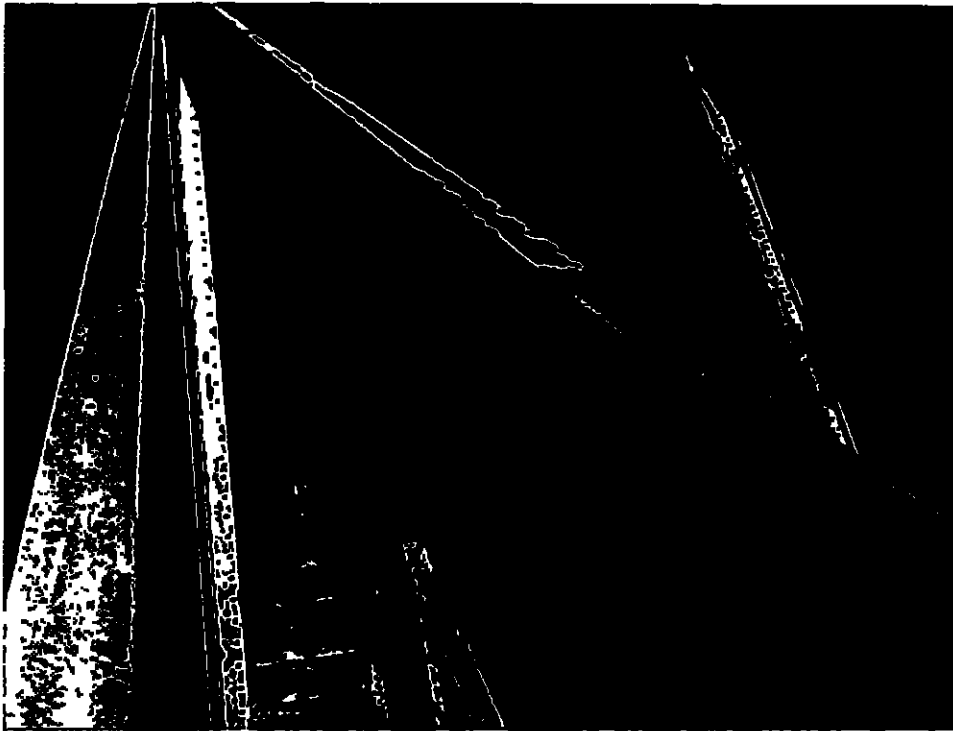


Photo 75 Member U1-L2 Right Truss

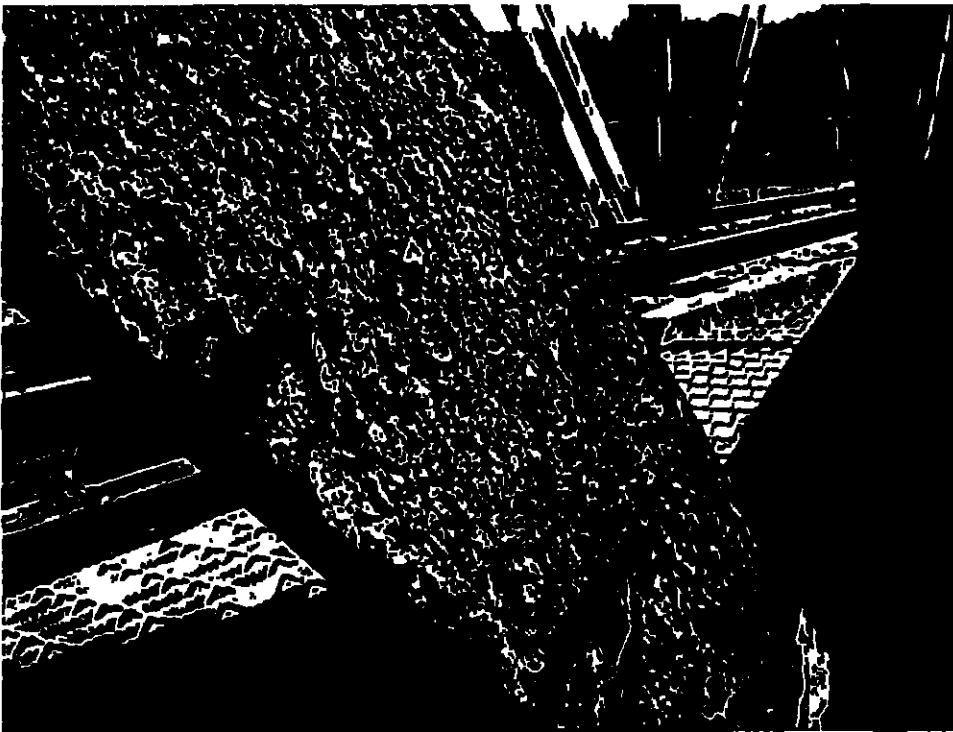


Photo 76 Member U1-L2 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 77 Floor Beam 3-2 Bottom Angle Connection Right Truss



Photo 78 Bay 3 Cross Brace Right Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 79 L2 Pin Right Truss

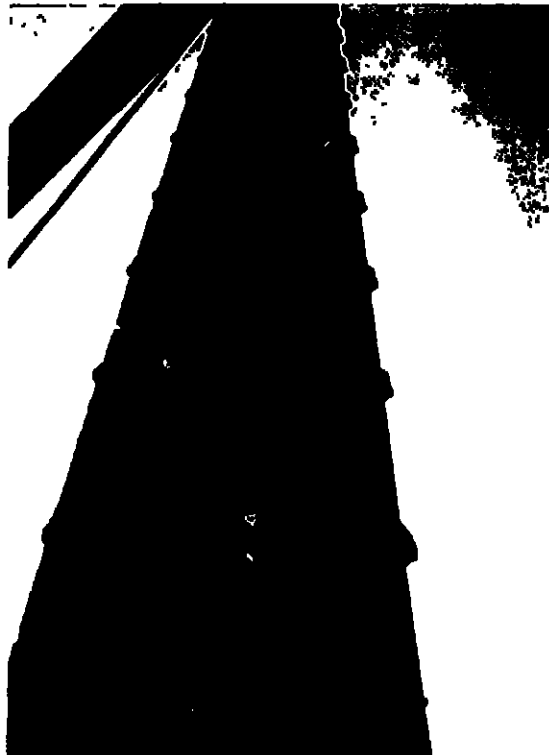


Photo 80 Member L3-U3 Right Truss

BRIDGE INSPECTION PHOTOGRAPHS

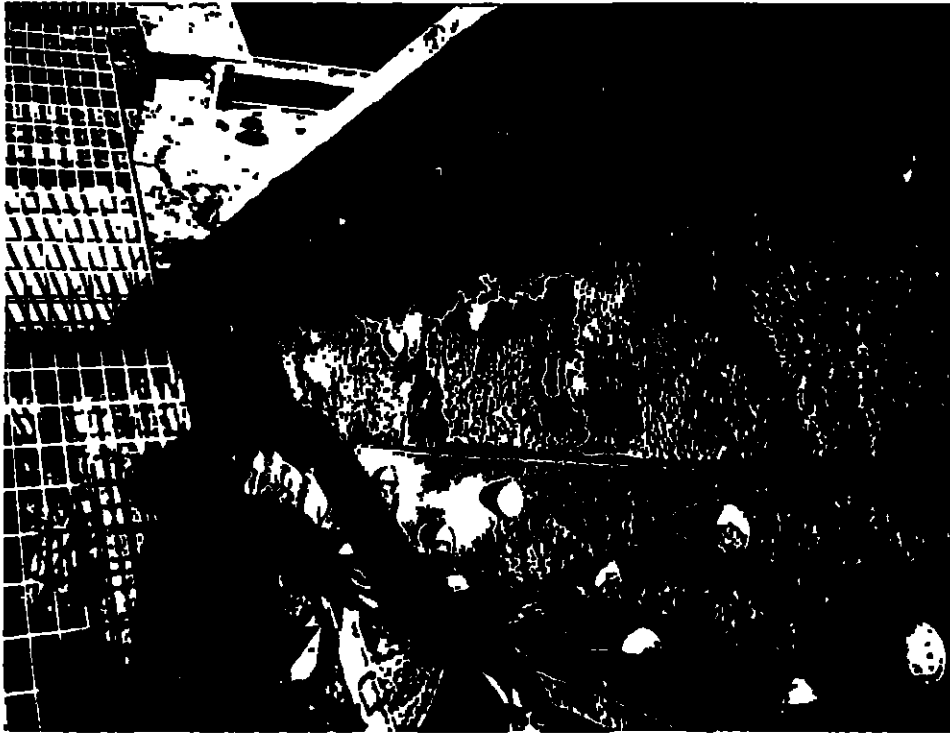


Photo 81 Member L0-U1 Left Truss

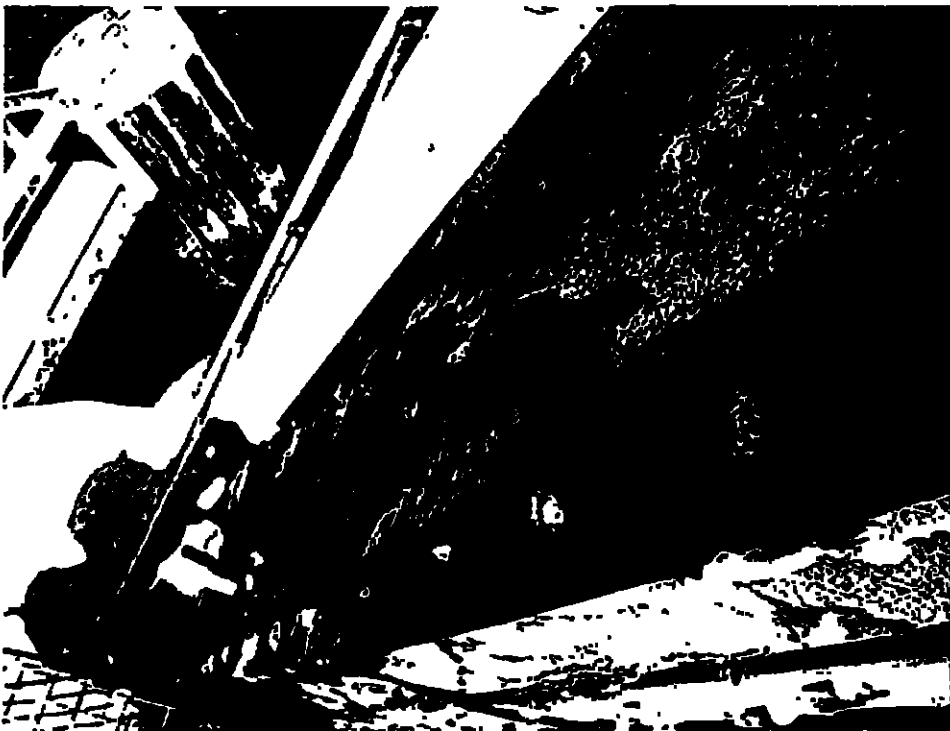


Photo 82 Member L0-U1 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 83 Member L1-U1 Left Truss



Photo 84 Member L1-U1 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 85 Member L2-U3 Left Truss



Photo 86 Member L2-U3 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 87 Member L3-U3 Left Truss

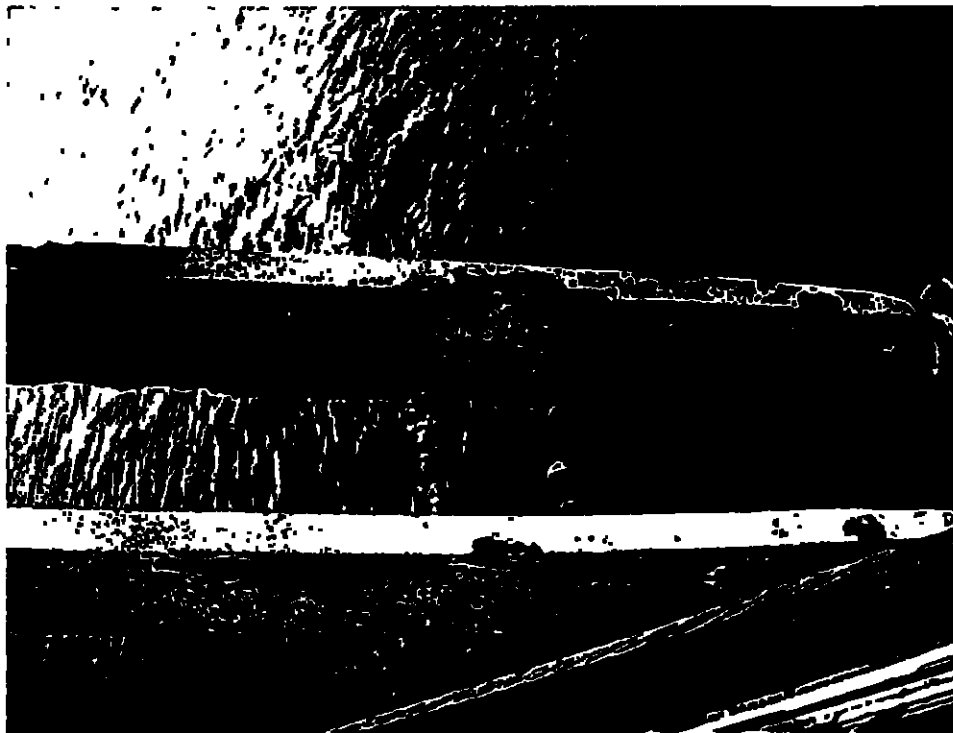


Photo 88 Member U3-L4 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 89 Member L4-U4 Left Truss



Photo 90 Member L4-U4 Left Truss

BRIDGE INSPECTION PHOTOGRAPHS

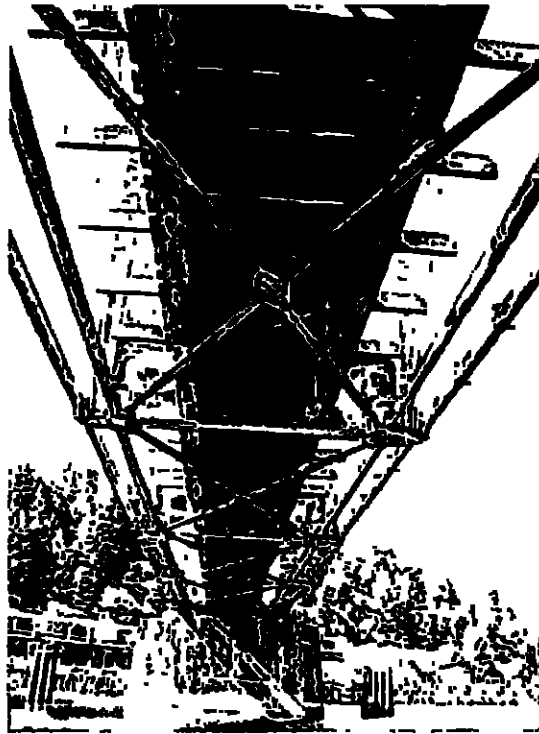


Photo 91 Stringers and BC members



Photo 92 Lower Pin Left Truss

BRIDGE INSPECTION PHOTOGRAPHS



Photo 93 Bent 2 Top Half



Photo 96 Bent 3 Bottom Half



Photo 94 Bent 2 Bottom Half



Photo 97 Bent 4



Photo 95 Bent 3 Top Half



Photo 98 Bent 5

BRIDGE INSPECTION PHOTOGRAPHS



Photo 99 Bent 6

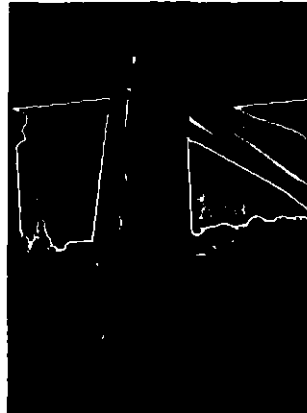


Photo 102 Bent 9



Photo 100 Bent 7



Photo 103 Bent 10

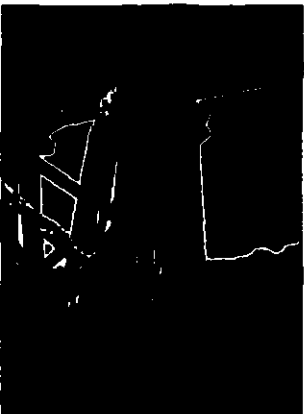


Photo 101 Bent 8

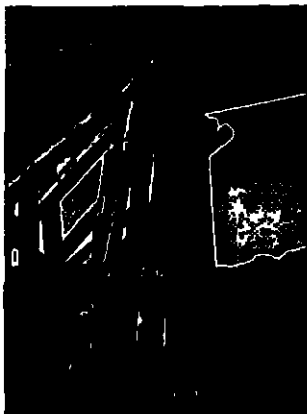


Photo 104 Bent 11

BRIDGE INSPECTION PHOTOGRAPHS



Photo 105 Bent 12



Photo 108 Bent 15



Photo 106 Bent 13



Photo 109 Bent 16



Photo 107 Bent 14



Photo 110 Bent 17

BRIDGE INSPECTION PHOTOGRAPHS



Photo 111 Bent 17 Cap



Photo 114 Bent 20



Photo 112 Bent 18



Photo 115 Bent 21



Photo 113 Bent 19



Photo 116 Bent 22

BRIDGE INSPECTION PHOTOGRAPHS



Photo 117 Bent 23



Photo 120 Bent 26



Photo 118 Bent 24



Photo 121 Bent 27



Photo 119 Bent 25



Photo 122 Bent 28

BRIDGE INSPECTION PHOTOGRAPHS



Photo 123 Bent 29



Photo 126 Bent 32



Photo 124 Bent 30



Photo 127 Bent 33



Photo 125 Bent 31



Photo 128 Bent 34

BRIDGE INSPECTION PHOTOGRAPHS



Photo 129 Bent 35



Photo 132 Bent 38



Photo 130 Bent 36

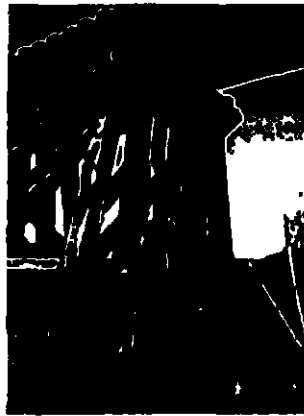


Photo 133 Bent 39



Photo 131 Bent 37



Photo 134 Bent 40

BRIDGE INSPECTION PHOTOGRAPHS



Photo 135 Bent 41



Photo 138 Bent 42 Bottom Half



Photo 136 Bent 42



Photo 139 Bent 43



Photo 137 Bent 42 Top Half



Photo 140 Bent 44

BRIDGE INSPECTION PHOTOGRAPHS



Photo 141 Bent 45



Photo 144 Bent 48



Photo 142 Bent 46



Photo 145 Bent 49



Photo 143 Bent 47



Photo 146 Bent 50

BRIDGE INSPECTION PHOTOGRAPHS



Photo 147 Bent 51



Photo 150 Bent 54



Photo 148 Bent 52



Photo 151 Bent 55



Photo 149 Bent 53



Photo 152 Bent 56

BRIDGE INSPECTION PHOTOGRAPHS



Photo 153 Bent 57

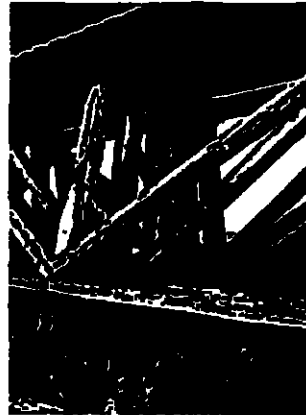


Photo 156 Bent 61



Photo 154 Bent 58



Photo 157 Bent 62



Photo 155 Bent 60



Photo 158 Bent 63

BRIDGE INSPECTION PHOTOGRAPHS



Photo 159 Bent 64

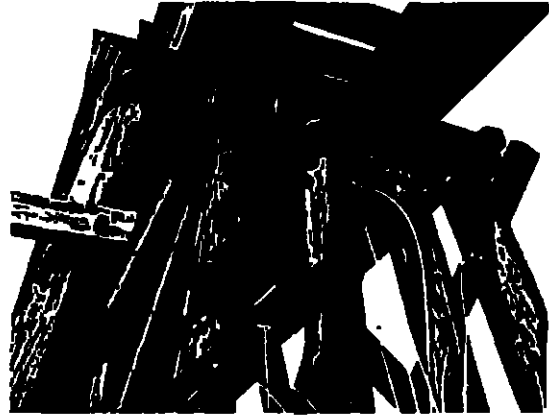


Photo 162 Bent 67



Photo 160 Bent 65



Photo 163 Bent 68



Photo 161 Bent 66



Photo 164 Bent 69 Top Half

BRIDGE INSPECTION PHOTOGRAPHS



Photo 165 Bent 69 Pile



Photo 168 Bent 72 Bottom Half



Photo 166 Bent 70



Photo 169 Bent 73



**Photo 167 Bent 71 (Left) & Bent 72
(Right)**



Photo 170 Bent 74

BRIDGE INSPECTION PHOTOGRAPHS



Photo 171 Bent 75



Photo 174 Bent 78

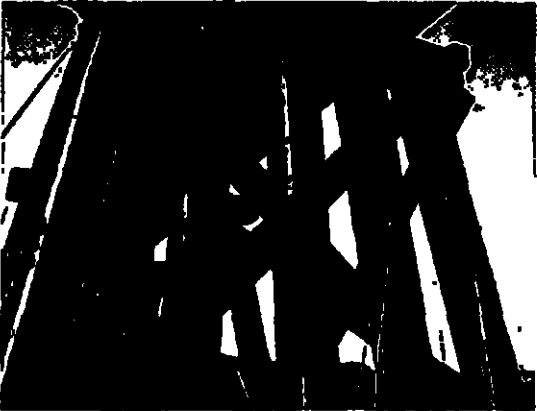


Photo 172 Bent 76



Photo 175 Bent 79 Top Half



Photo 173 Bent 77



Photo 176 Bent 79 Bottom Half

BRIDGE INSPECTION PHOTOGRAPHS



Photo 177 Bent 80



Photo 180 Bent 83



Photo 178 Bent 81



Photo 181 Bent 84



Photo 179 Bent 82



Photo 182 Bent 85

BRIDGE INSPECTION PHOTOGRAPHS



Photo 183 Bent 86



Photo 186 Bent 89



Photo 184 Bent 87



Photo 187 Bent 90



Photo 185 Bent 88



Photo 188 Bent 91

BRIDGE INSPECTION PHOTOGRAPHS



Photo 189 Bent 92



Photo 192 Bent 95



Photo 190 Bent 93



Photo 193 Bent 96



Photo 191 Bent 94

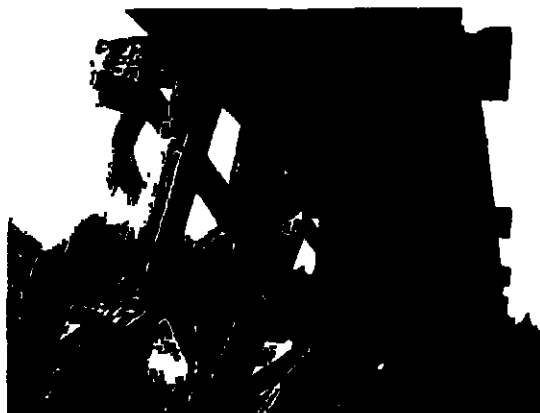


Photo 194 Bent 97

BRIDGE INSPECTION PHOTOGRAPHS



Photo 195 Bent 98



Photo 198 Bent 101



Photo 196 Bent 99



Photo 199 Bent 102



Photo 197 Bent 100



Photo 200 Bent 103

BRIDGE INSPECTION PHOTOGRAPHS

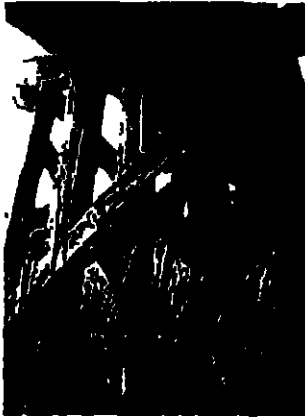


Photo 201 Bent 104



Photo 204 Bent 107



Photo 202 Bent 105



Photo 205 Bent 108



Photo 203 Bent 106



Photo 206 Bent 109

BRIDGE INSPECTION PHOTOGRAPHS



Photo 207 Bent 110

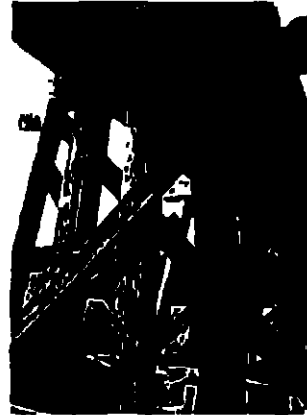


Photo 210 Bent 113



Photo 208 Bent 111



Photo 211 Bent 114

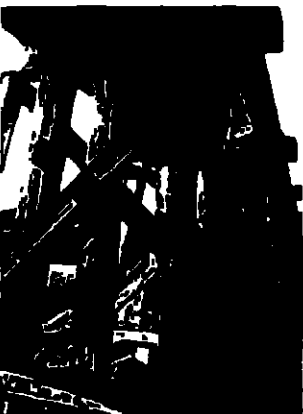


Photo 209 Bent 112



Photo 212 Bent 115

BRIDGE INSPECTION PHOTOGRAPHS

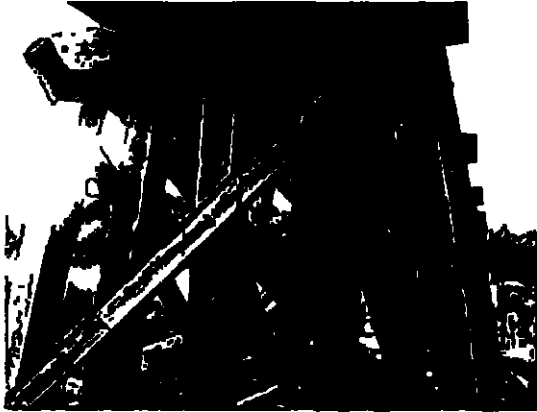


Photo 213 Bent 116



Photo 216 Bent 119



Photo 214 Bent 117



Photo 217 Bent 120



Photo 215 Bent 118



Photo 218 Bent 121

BRIDGE INSPECTION PHOTOGRAPHS



Photo 219 Bent 122



Photo 222 Bent 125



Photo 220 Bent 123



Photo 223 Bent 126



Photo 221 Bent 124



Photo 224 Bent 127

BRIDGE INSPECTION PHOTOGRAPHS

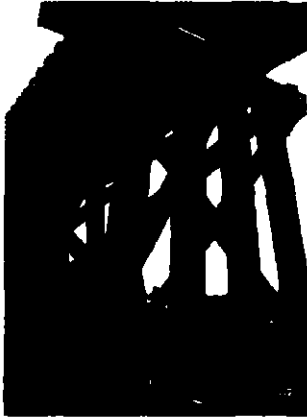


Photo 225 Bent 128



Photo 228 Bent 131



Photo 226 Bent 129



Photo 229 Bent 132



Photo 227 Bent 130



Photo 230 Bent 133

BRIDGE INSPECTION PHOTOGRAPHS



Photo 231 Bent 134



Photo 234 Bent 137



Photo 232 Bent 135

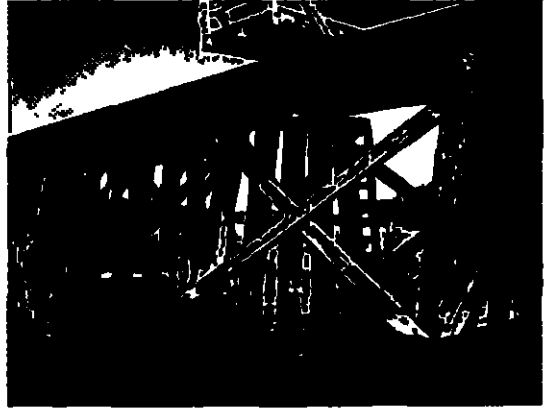


Photo 235 Bent 138



Photo 233 Bent 136



Photo 236 Bent 139

BRIDGE INSPECTION PHOTOGRAPHS

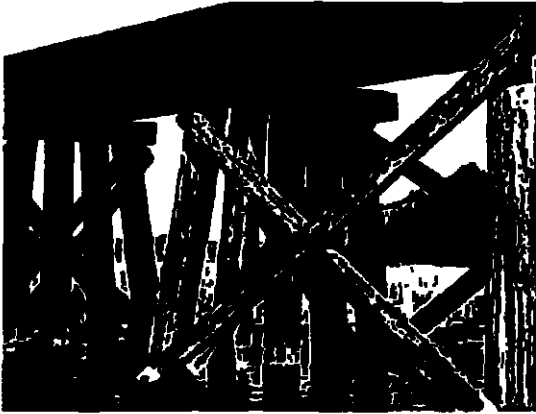


Photo 237 Bent 140



Photo 240 Bent 142



Photo 238 Bent 141



Photo 241 Bent 143



Photo 239 Bent 142



Photo 242 Bent 144

BRIDGE INSPECTION PHOTOGRAPHS



Photo 243 Bent 145

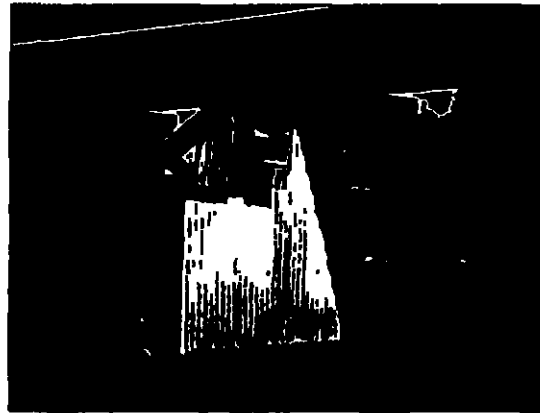


Photo 246 Bent 148



Photo 244 Bent 146

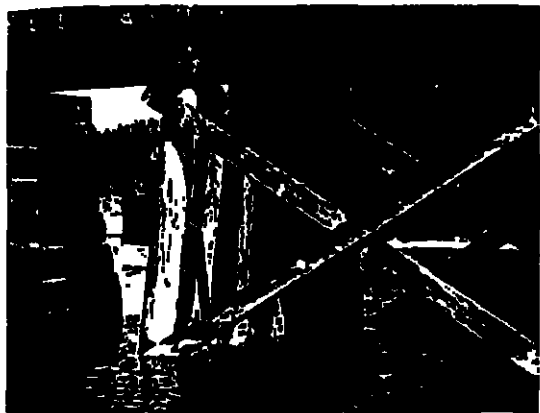


Photo 247 Bent 149



Photo 245 Bent 147



Photo 248 Bent 150

BRIDGE INSPECTION PHOTOGRAPHS

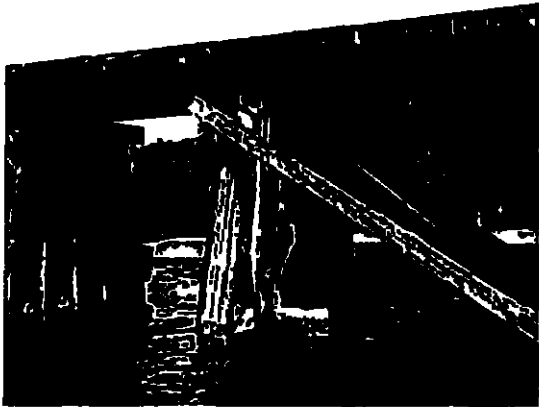


Photo 249 Bent 151

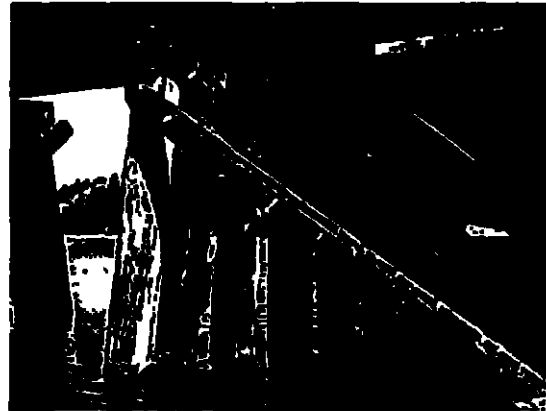


Photo 252 Bent 154

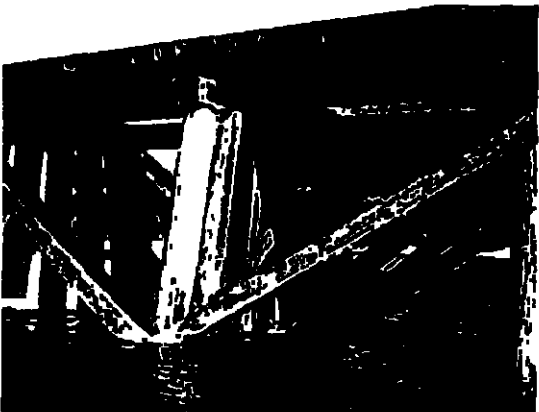


Photo 250 Bent 152



Photo 253 Bent 155



Photo 251 Bent 153



Photo 254 Bent 156

BRIDGE INSPECTION PHOTOGRAPHS



Photo 255 Bent 157

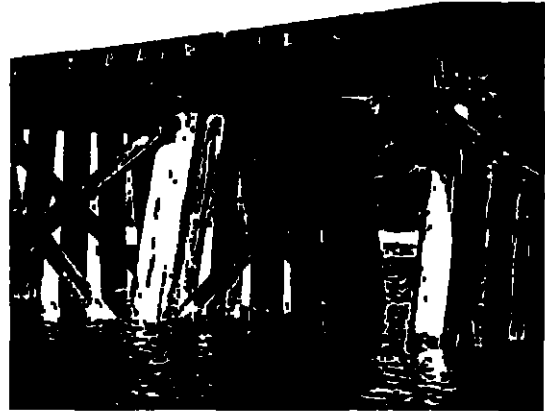


Photo 258 Bent 160



Photo 256 Bent 158



Photo 259 Bent 161



Photo 257 Bent 159



Photo 260 Bent 162

BRIDGE INSPECTION PHOTOGRAPHS



Photo 261 Bent 163

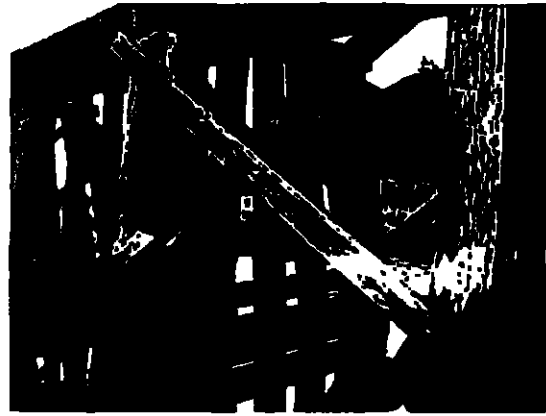


Photo 264 Bent 166



Photo 262 Bent 164



Photo 265 Bent 167



Photo 263 Bent 165



Photo 266 Bent 168

BRIDGE INSPECTION PHOTOGRAPHS



Photo 267 Bent 169



Photo 268 Bent 170