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04-SF, ALA-80-  
12.2/14.3, 0.0/2.7

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

File: 46.

Page 1 of 2

Assistant Resident Engineer

SFOBB East-Span  
Seismic Retrofit  
Project (SAS)

Report

Robert Kobal

Week of 2012-11-26

**SAS Bridge Travelers/Skyway cleanup**

**Mon 2012-11-26**

Attended general staff meeting.

Attended ABF/CT senior staff meeting.

Attended Champions meeting.

Observed bikepath polyester concrete mockup pour.

Discussed proposed galva-grit nonskid on OTD bikepath steel plates with Clive Endress, Zahra Sadat, Keivan Hassan, Gary Lai. Since the final product is silver-ish galvanized color, an additional coating is needed per Clive to match surrounding bikepath. FCI has proposed painting or powder coating. METS is evaluating the galva-grit process and the subsequent coating for acceptability. Clive and Zahra will pick some preferred colors for powder coating from the website so that samples can be sent for matching the contract colors.

**Tue 2012-11-27**

Attended corridor coordination meeting

Prepared for and lead the Skyway cleanup meeting, see meeting minutes.

Discussed OTD nonskid and paint/powder coating with Dave Annis, CT Maintenance Structural Steel Paint Supt. He says that he is fine with whatever coating (paint vs powder coating) we use to get color. He thinks that when they eventually will have to repaint that they would whipblast it to remove either coating and re-paint it, adding grit for non-skid if necessary.

Worked on SAS cable gate, and skyway painting,

Directed Cliff Koon to add a plan sheet for no trespass signs for SAS to CCO 210S1. The high voltage sign will also be added for the service platforms as discussed with Bill Shedd.

Worked on polyester concrete coloring and sand finish, trying to keep all contracts using consistent materials. Both ABF and Jeffco report having difficulty obtaining the product as per the information provided to me by Bill Howe (clear quartz sand, later information indicated flint). However, the fine sand aggregate used in the aggregate for polyester concrete was the clear quartz sand, except that it was too fine a grade.

ARE Report (continued)  
SAS Bridge Travelers/Skyway cleanup  
Robert Kobal

**Wed 2012-11-28**

Attended SAS senior staff meeting.

Worked on revised CCO 217S1 sheets.

Worked on SAS cable gate details.

Returned for correction Submittal 1905R105- weld report

Approved submittals 1837R6, 2152R5, actuator plug details.

**Thur 2012-11-29**

Attended Safety meeting.

Prepared for and lead the Traveler meeting- see meeting notes.

Per previous verbal requests from Clive Endress and Bill Casey, I worked on having the traveler elevating platform actuators painted white. They are currently yellow marine grade epoxy per the original specification. I contacted Tim Silke at Enerpac to determine details of the epoxy paint used. He agreed that it may be possible to simply overcoat the existing paint so as not to disturb the corrosion protection of the epoxy layer.

Worked on SAS cable gate details.

Worked on traveler paperwork with Barb McDowell.

**Friday 2012-11-30**

Attended OBG staff meeting.

Conducted meeting on the SAS cable gates (meeting notes and attendee list attached). Simulations were viewed and mounting details were discussed. It was agreed that a larger gate than currently in the plans is needed. The gate at panel point 100 should be moved out of the traffic envelope to panel point 96. Clive Endress and TYLin will work together on details of the gate appearance. CHP concurrence and more simulations were requested.

  
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Robert Kobal  
Senior TE

11/30/12

SAS cable gate meeting

Agenda

The CHP has recommended that the gate design be changed to resemble those on Carquinez, Golden Gate and the SFOBB West span.

Gates currently are to be at panel points 12 and 100 on north and south sides of the bridge. At the east end (panel point 100) the revised detail infringes on the traffic envelope. Options are :

1. cut a corner out of the gate, affecting its effectiveness and appearance,
2. move the gate up the cable to panel point 96, out of the traffic envelope but slightly more over traffic.

What are the mounting details?

Need to accommodate other details such as the messenger cable and electrical conduit and light fixtures. Are there other obstacles to be worked around?

Attached:

Proposed design

Traffic envelop views

Simulation of panel point 100, near and far

Current construction photos panel point 100 and 12.

DETAILS -  
AESTHETIC - BIRD SPIKES?  
SECOND BAND TO MOUNT?

DANE MEET W/  
TYLIN.

12/10  
2:30

~~RE~~ RECONVENE  
ADD MAINT.  
CARLOS HERRERA



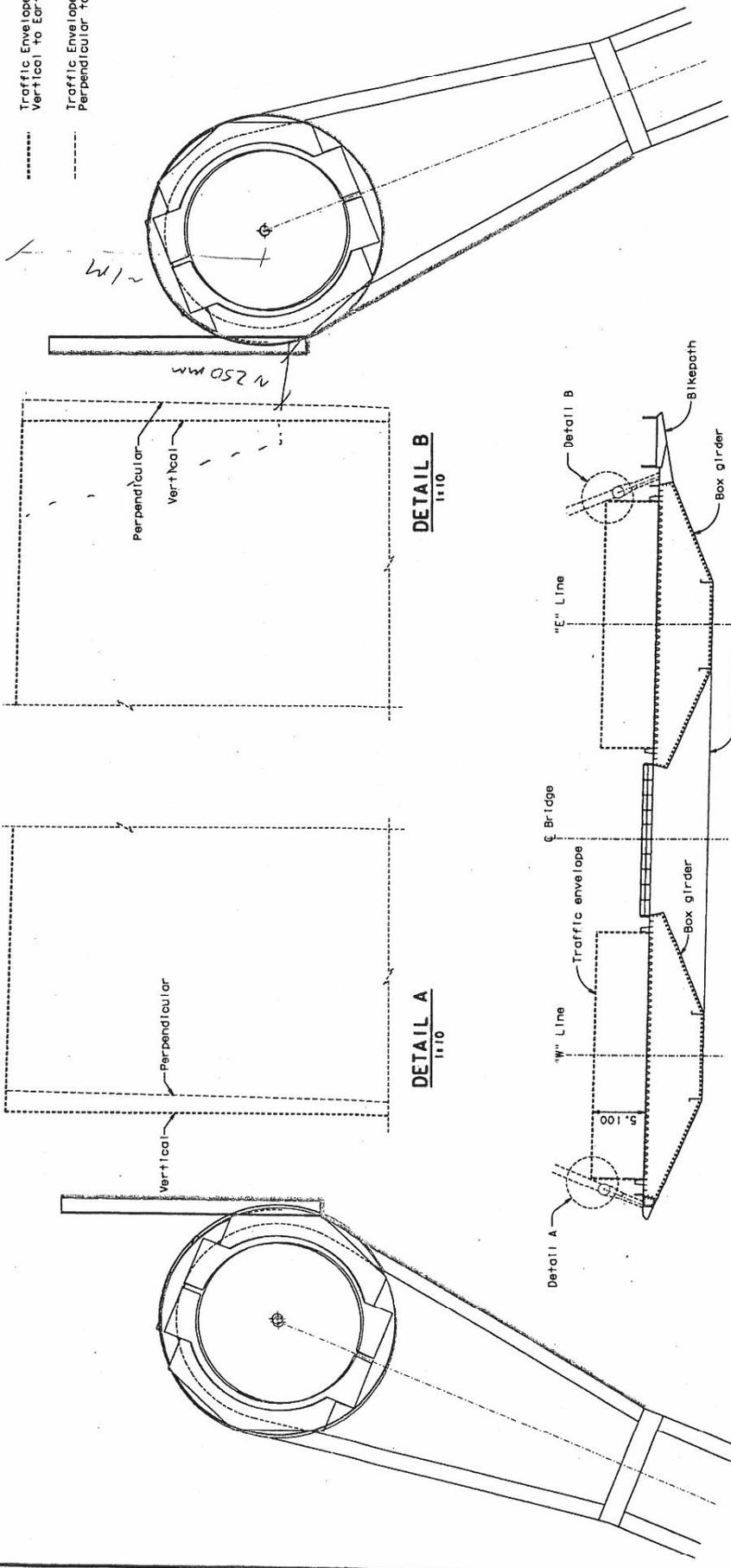
LEGEND:

○ ABF Estimate 2011

○ DJV Estimate 2011

----- Traffic Envelope Vertical to Earth

----- Traffic Envelope Perpendicular to Deck



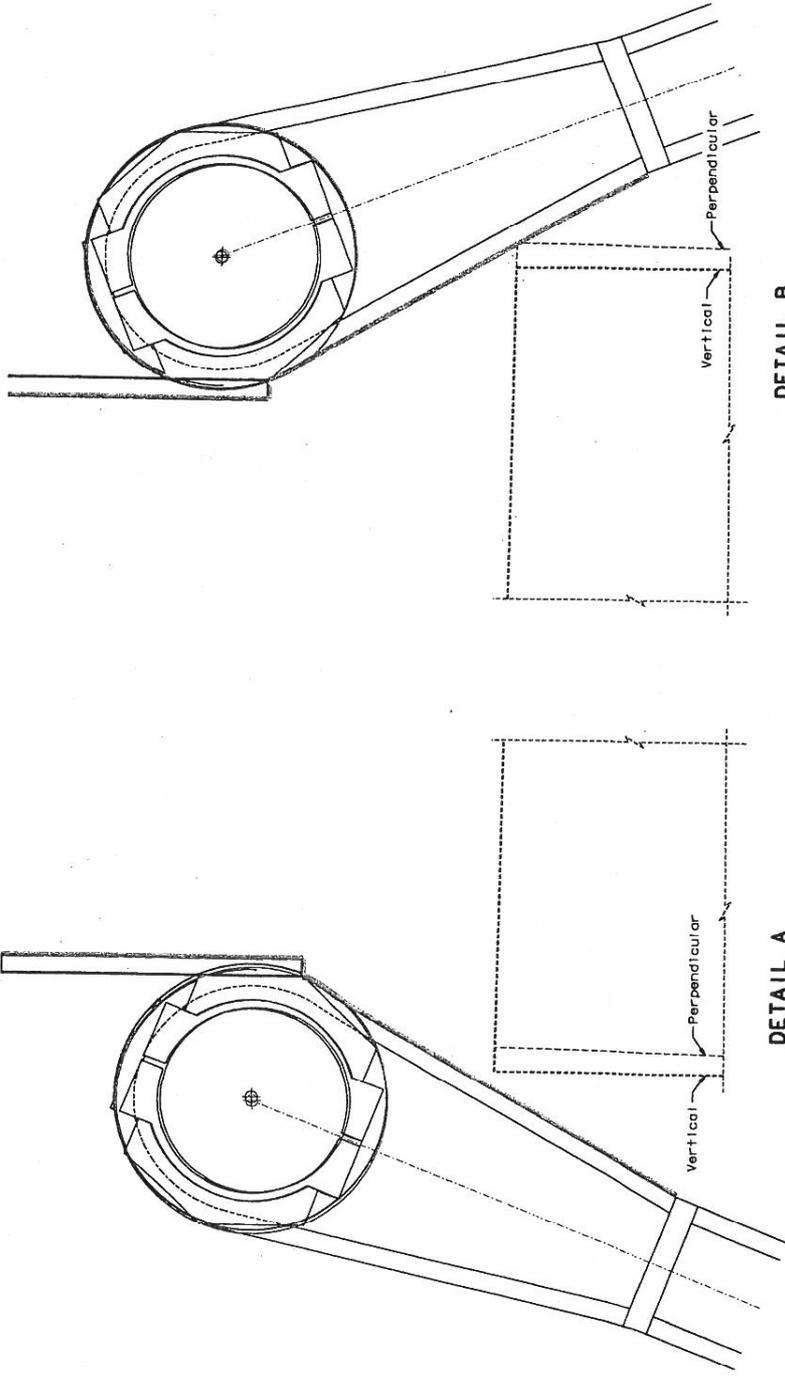
NOTES:

1. Caltrans Highway Design Manual specifies that the 5.1 m vertical clearance shall be measured vertical to the earth.

Date: 2011-05-11  
 File Name: TRAFFIC ENVELOPE @ PP 100 SK-03

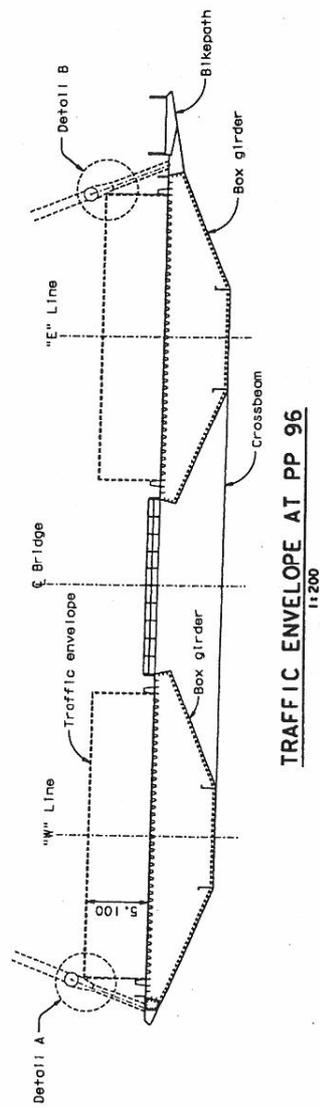
LEGEND:

-  ABF Estimate 2011
-  DJV Estimate 2011
-  Traffic Envelope Vertical to Earth
-  Traffic Envelope Perpendicular to Deck



DETAIL A  
1:10

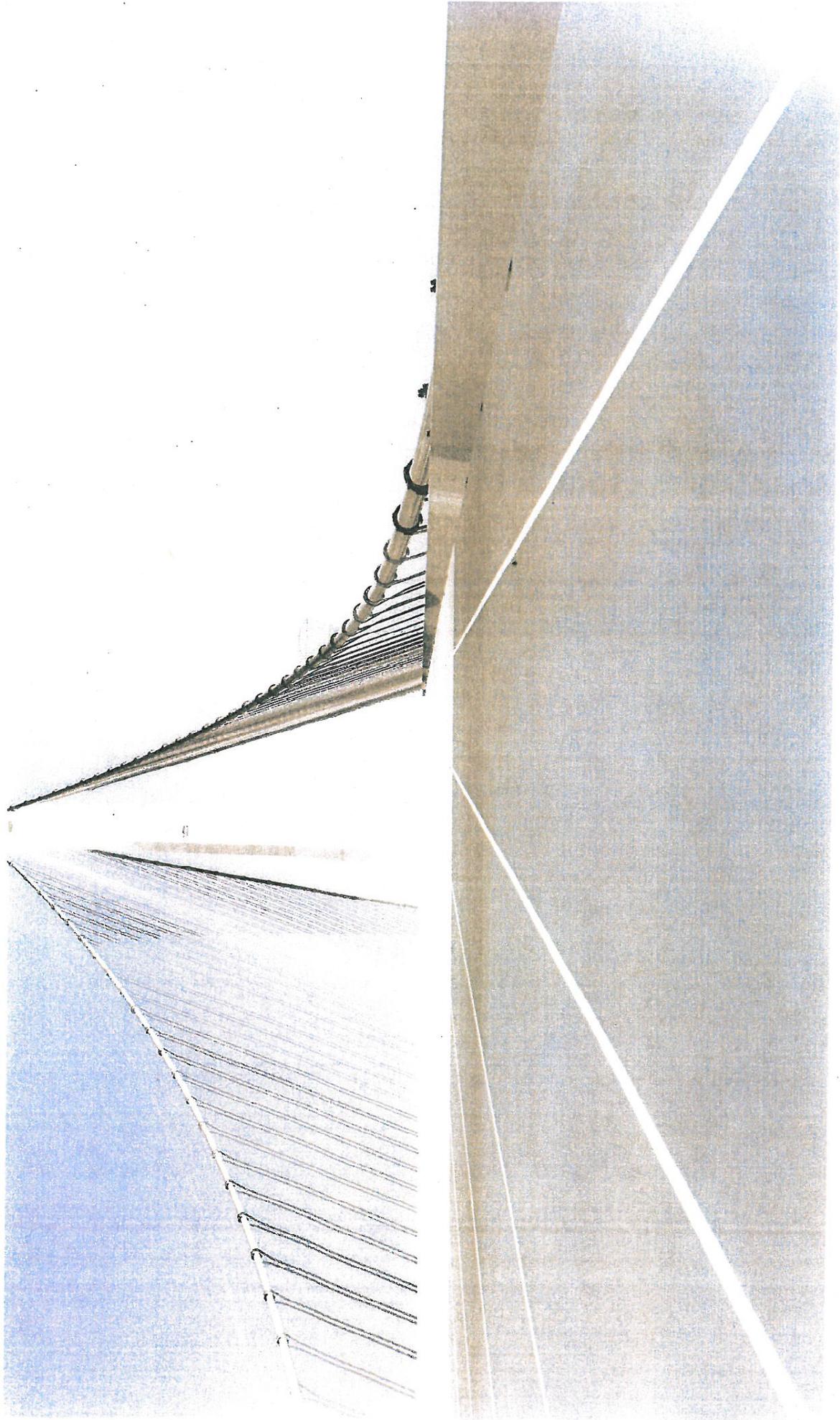
DETAIL B  
1:10



NOTES:

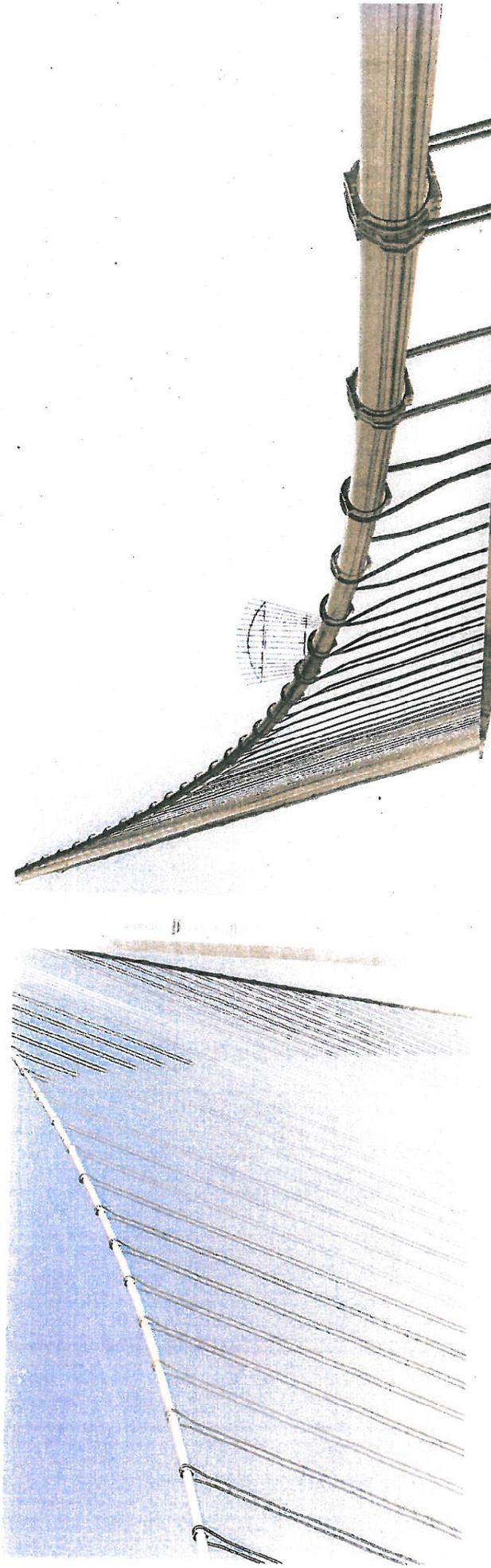
1. Caltrans Highway Design Manual specifies that the 5.1 m vertical clearance shall be measured vertical to the earth.

Date: 2011-05-11  
File Name: TRAFFIC ENVELOPE @ PP 96 SK-01



@ PP100

RIGHT-LANE-A - L2.PN15

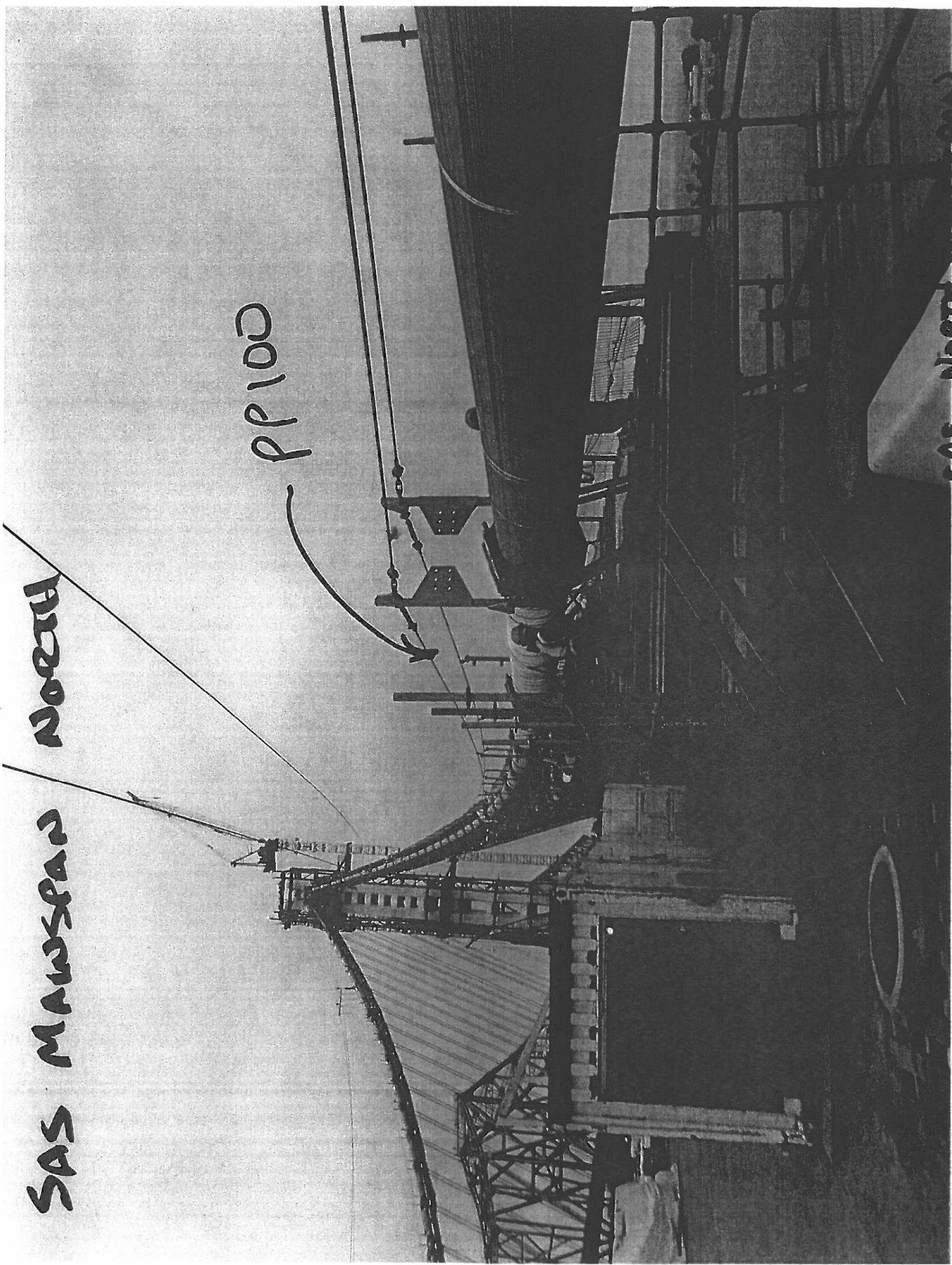


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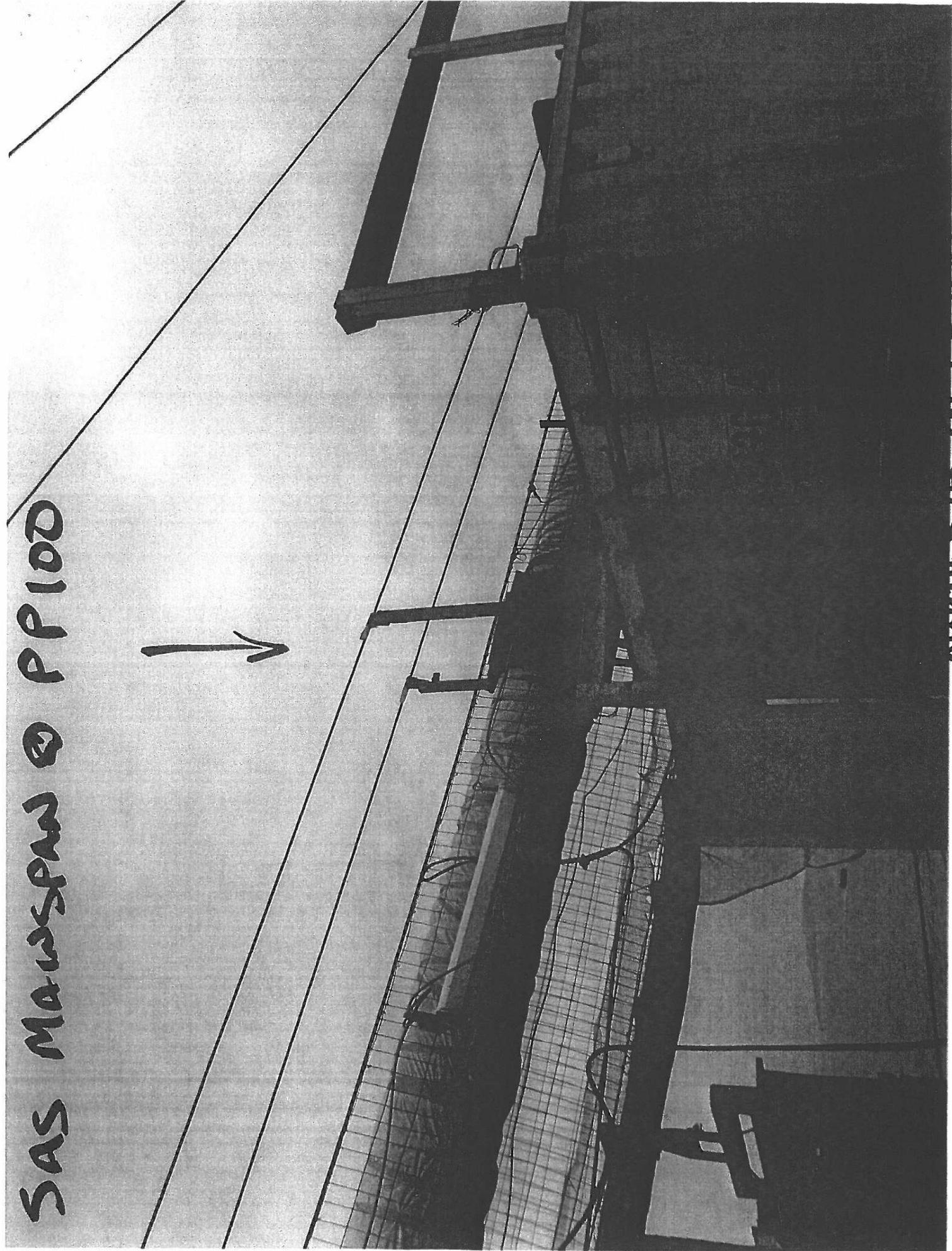
SAS MAWSPAN NORTH

PP100

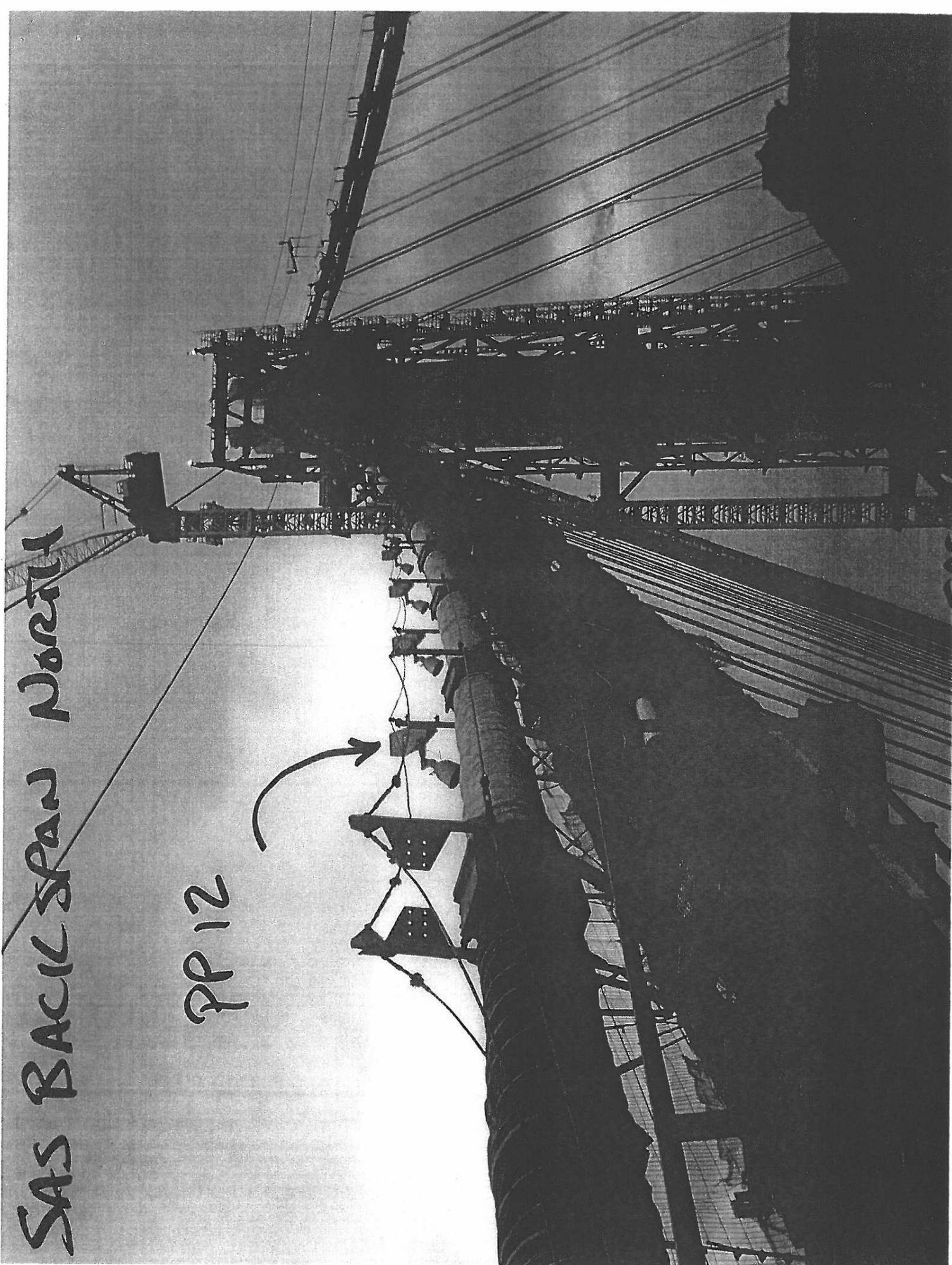
SAS NORTH MAWSPAN



SAS MAWSPAN @ PPIOD

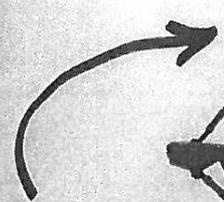


MAWSPAN @ PPIOD



SAS BACIL SPAN NORTH

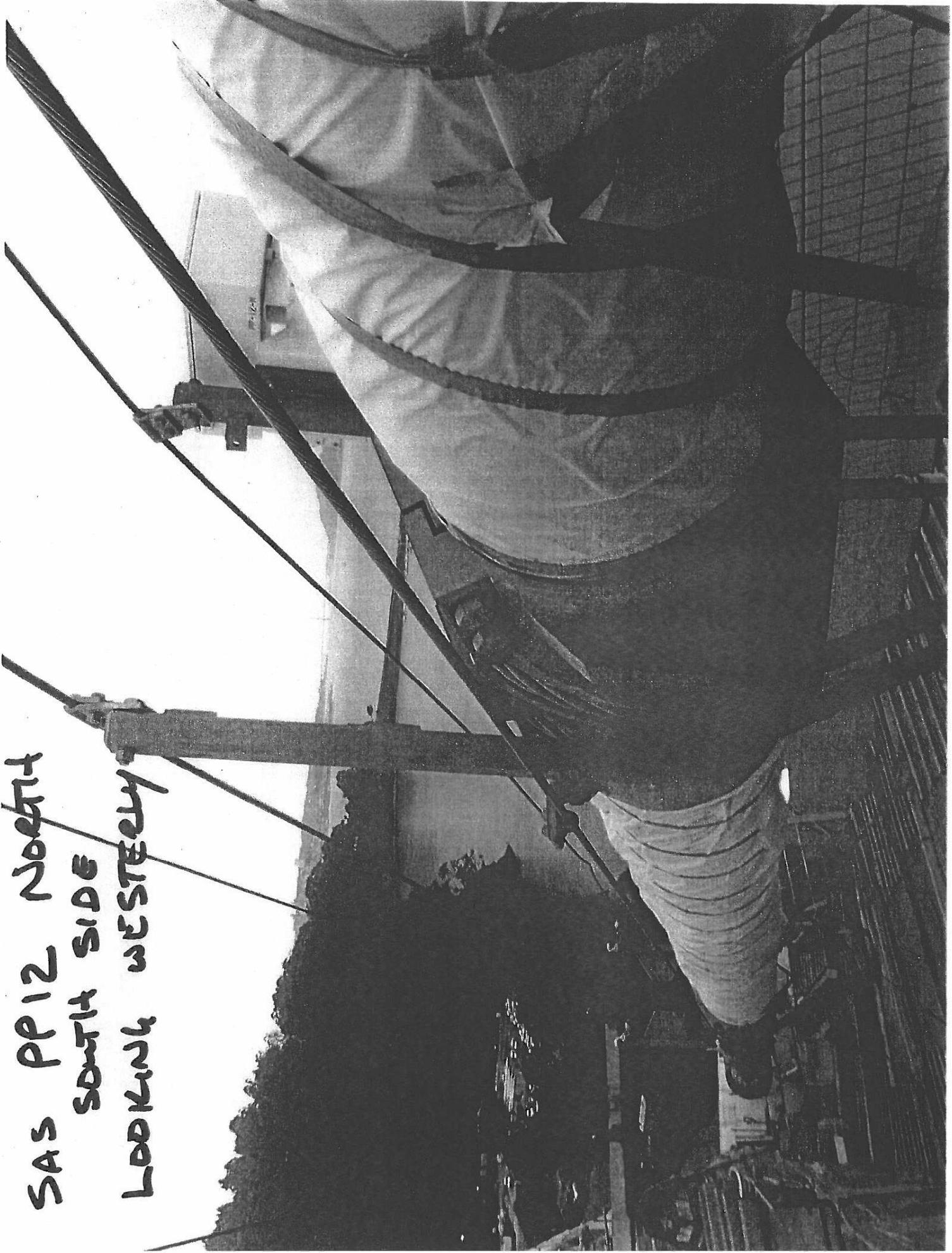
PP 12



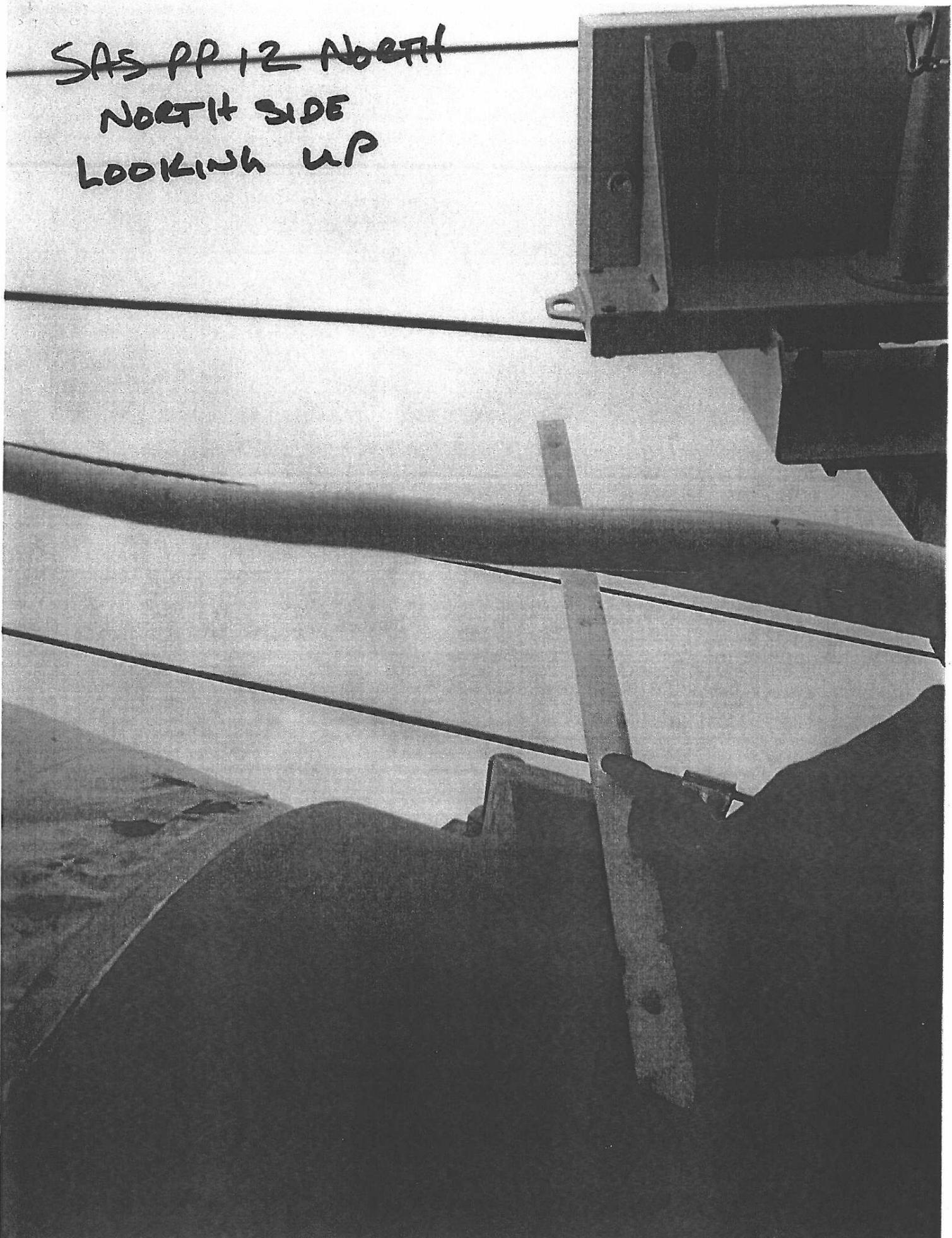
SAS PP 12 NORTH  
NORTH SIDE  
LOOKING WESTERLY



SAS PP12 NORTH  
SOUTH SIDE  
LOOKING WESTWARD



SAS PP 12 NORTH  
NORTH SIDE  
LOOKING UP



Cable Security GATE MTG #1

11/30/12 12PM

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NAME	ORGANIZATION	PHONE
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Bob Brignano	CT	510-774-6276

NEXT MTG. 12/10/12 @ 12:30 PM