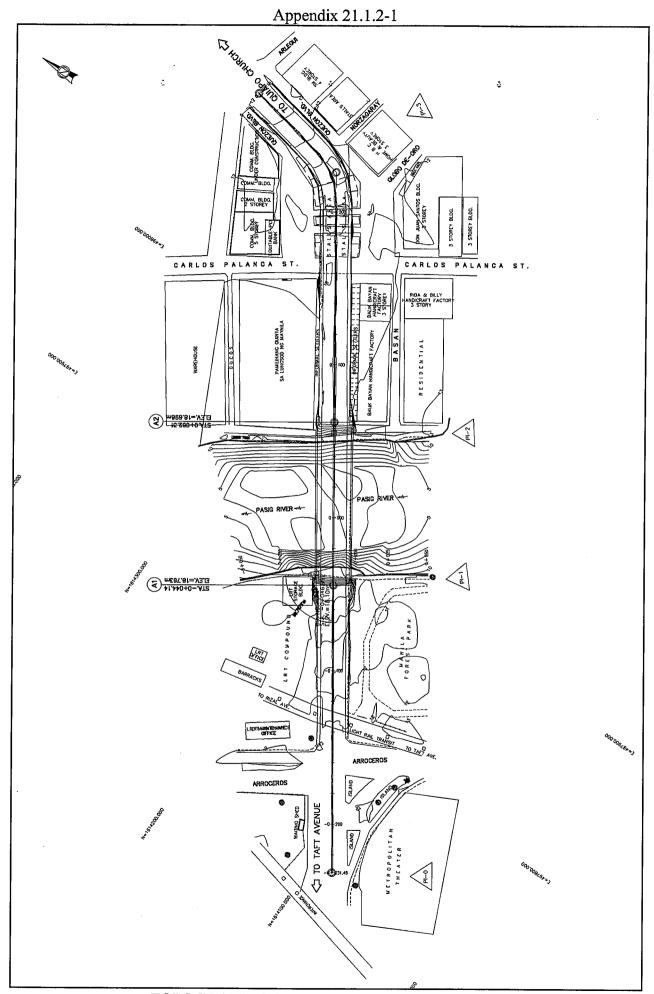
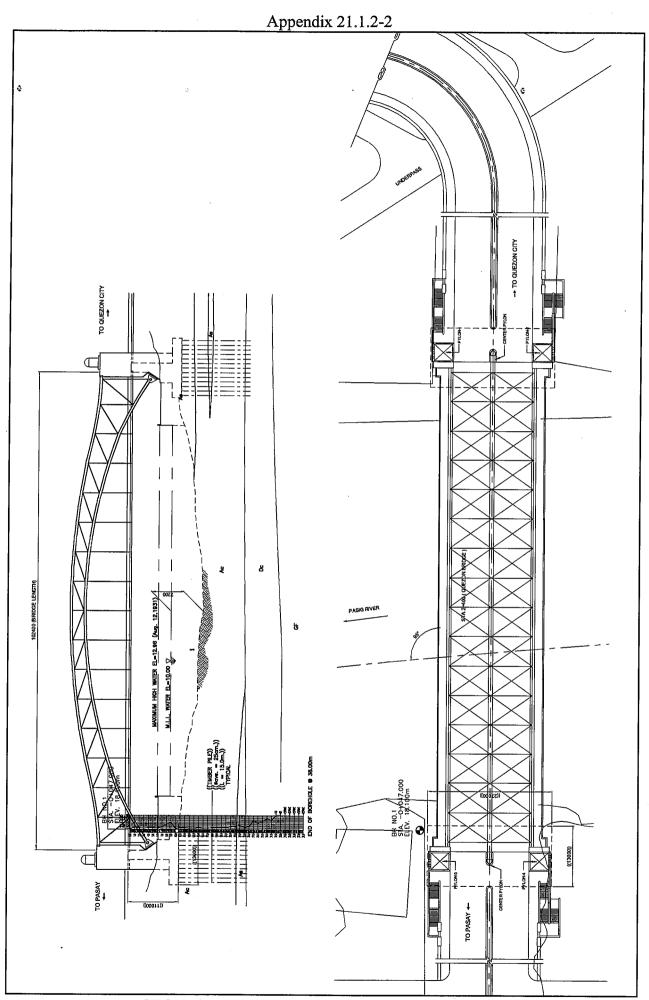
## **CHAPTER 21**

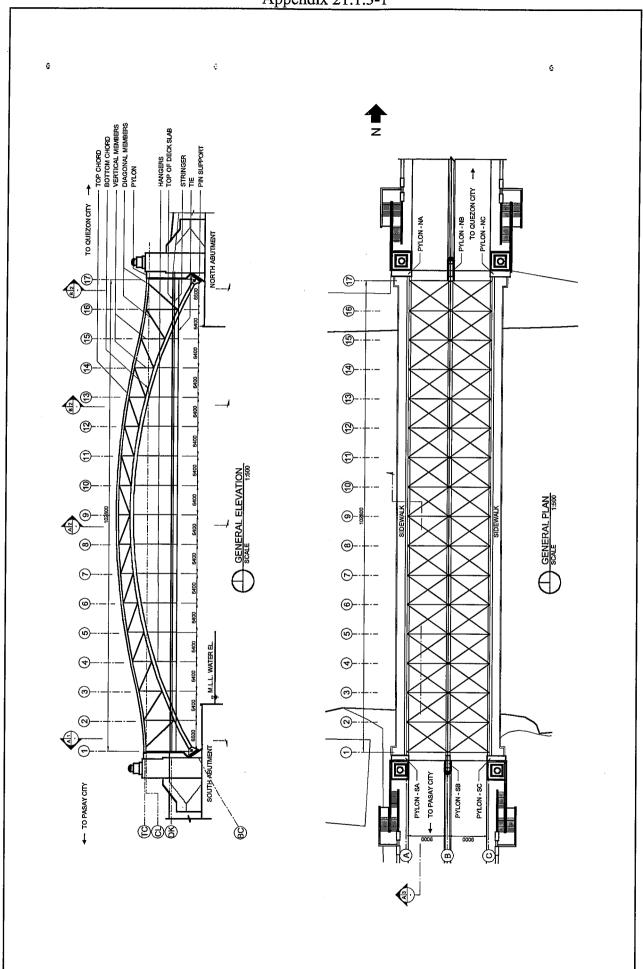
## FEASIBILITY STUDY OF QUEZON BRIDGE REHABILITATION PLAN



TOPOGRAPHIC SURVEY OF QUEZON BRIDGE



GEOTECHNICAL SURVEY OF QUEZON BRIDGE

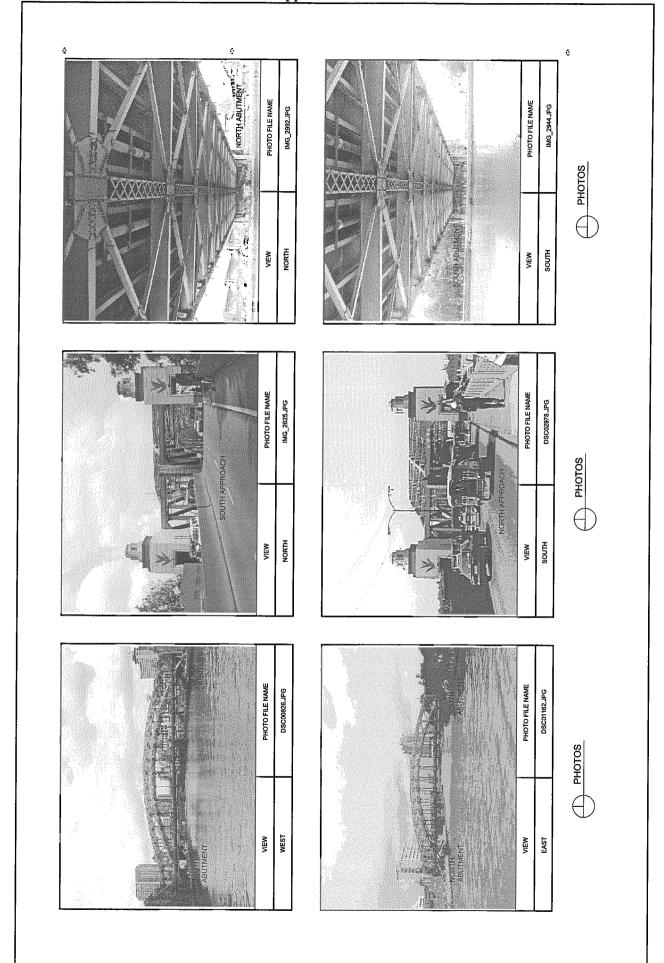


GENERAL PLAN AND ELEVATION OF QUEZON BRIDGE

Appendix 21.1.3-2 SWAY BRACES AT GL TC VERTICAL SWAY BRACES Ç CROSS BEAM · STRINGERS **©**-<u>\_</u> **@** TOP OF SIDEWALK SWAY BRACES AT GL TC VERTICAL SWAY BRACES - CROSS BEAM TOP OF ROAD DECK TOP OF SIDEWALK - TIE (i) **(a)** (S) (8) (3) TOP OF ROAD DECK TOP OF SIDEWALK -

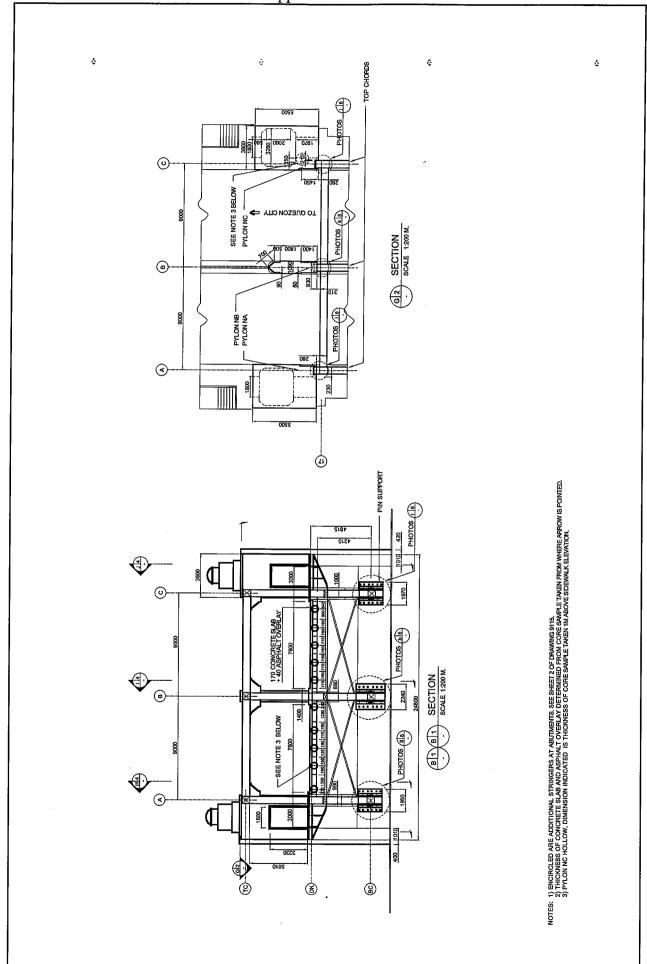
SECTION AT GRID LINE 9 AND GRID LINE 13

PARTIAL ELEVATION FROM GRID LINE 1 TO GRID LINE 9

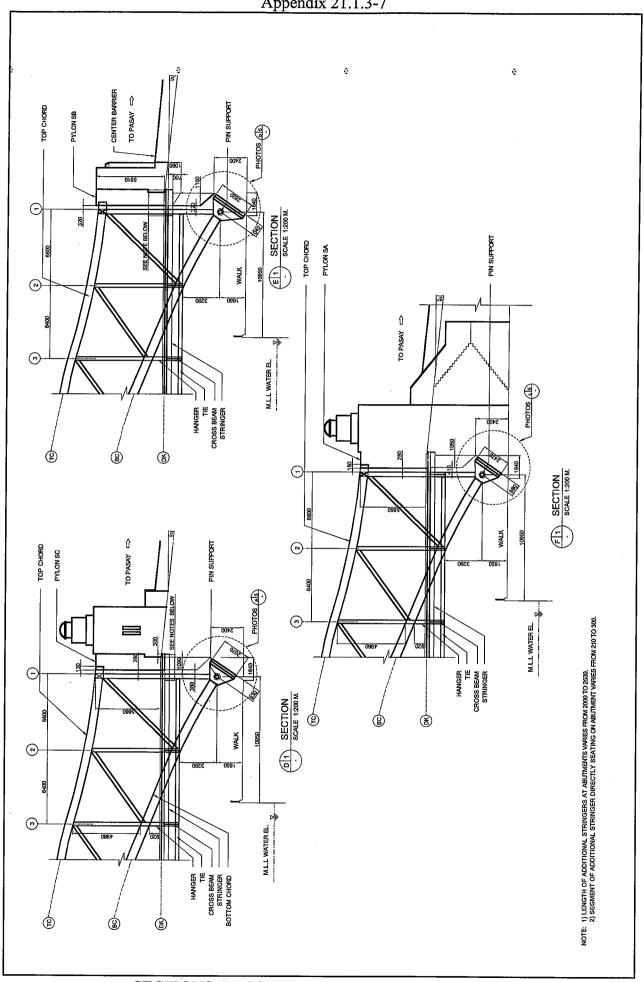


PHOTOS OF SPAN, APPROACHES AND DECK FRAME

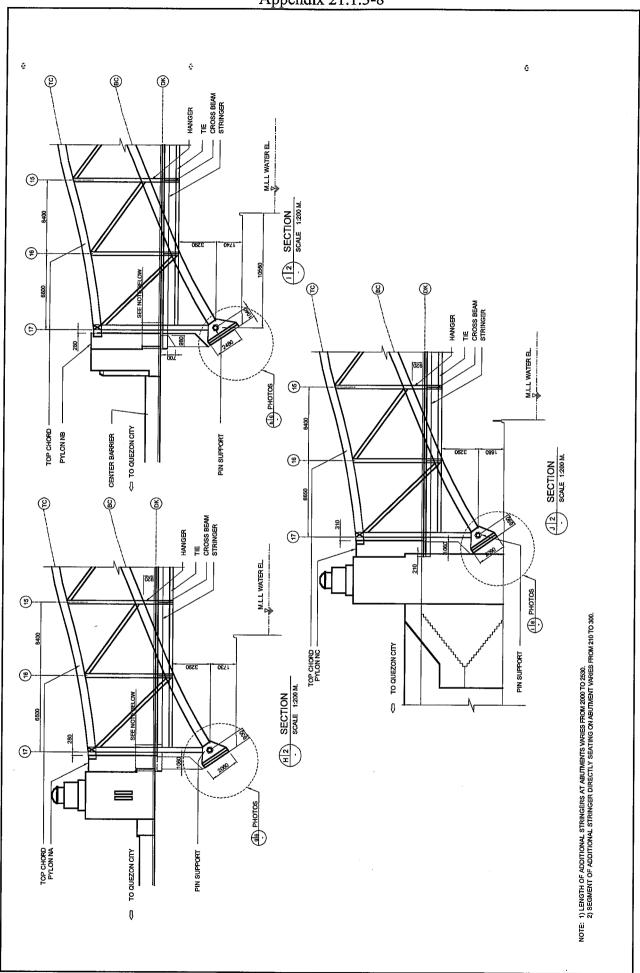
SECTION NEAR GRID LINE 1, SECTION OF SOUTH PYLONS



SECTION NEAR GRID LINE 17, SECTION OF NORTH PYLONS



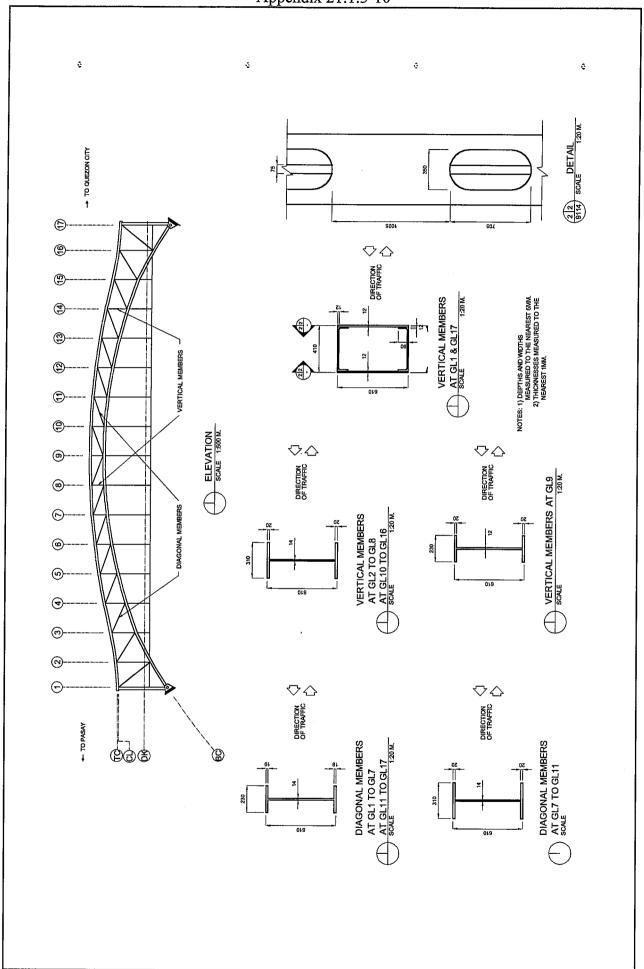
SECTIONS AT SOUTH ABUTMENT AND PYLONS



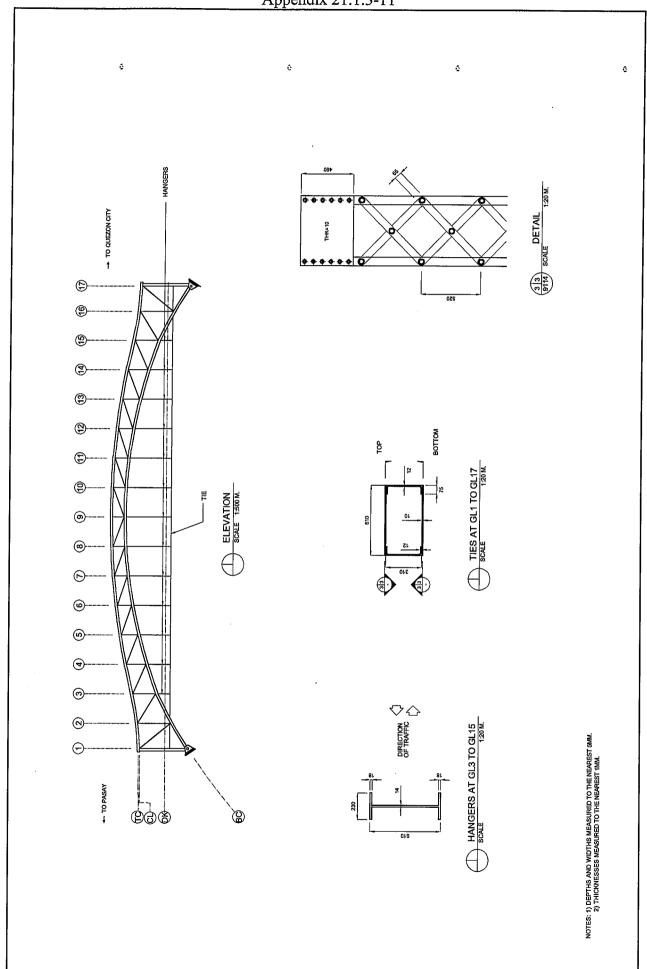
SECTION AT NORTH ABUTMENT AND PYLONS

Appendix 21.1.3-9 ê ê ē воттом сноя 230 → TO QUEZON CITY **(£) @** SCALE 1:500 M. **6** ⊕ 560 (c) 4 **⊚ ⊗**  $\odot$ NOTES: 1) DEPTHS AND WIDTHS MEASURED TO THE NEAREST 6MM. 2) THICKNESSES MEASURED TO THE NEAREST 1MM. ← TO PASAY **\$** 610 560 TOP CHORD воттом снокр 현

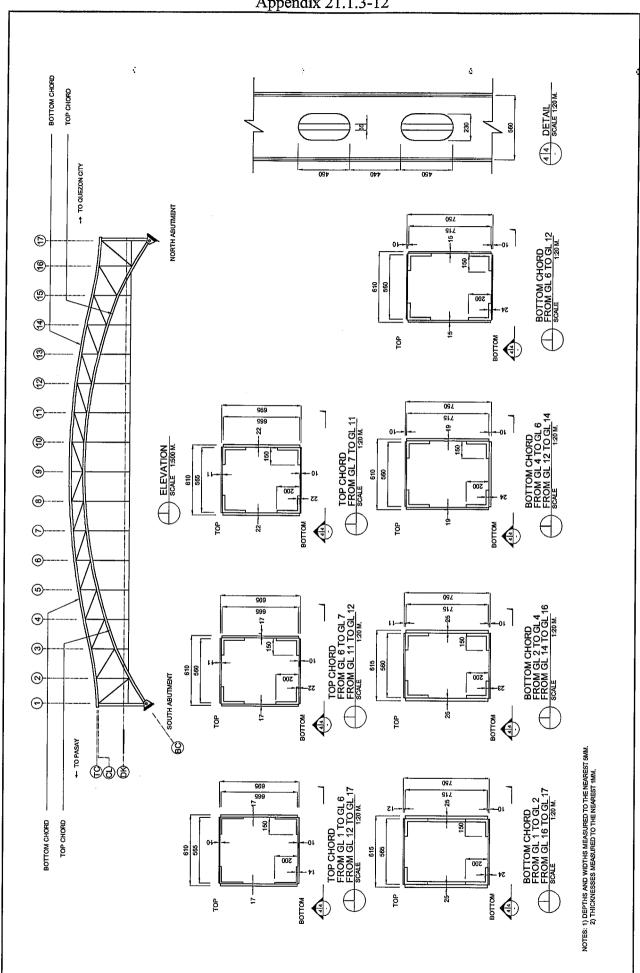
DETAIL OF TRUSS A AND TRUSS C TOP CHORD AND BOTTOM CHORD MEMBERS



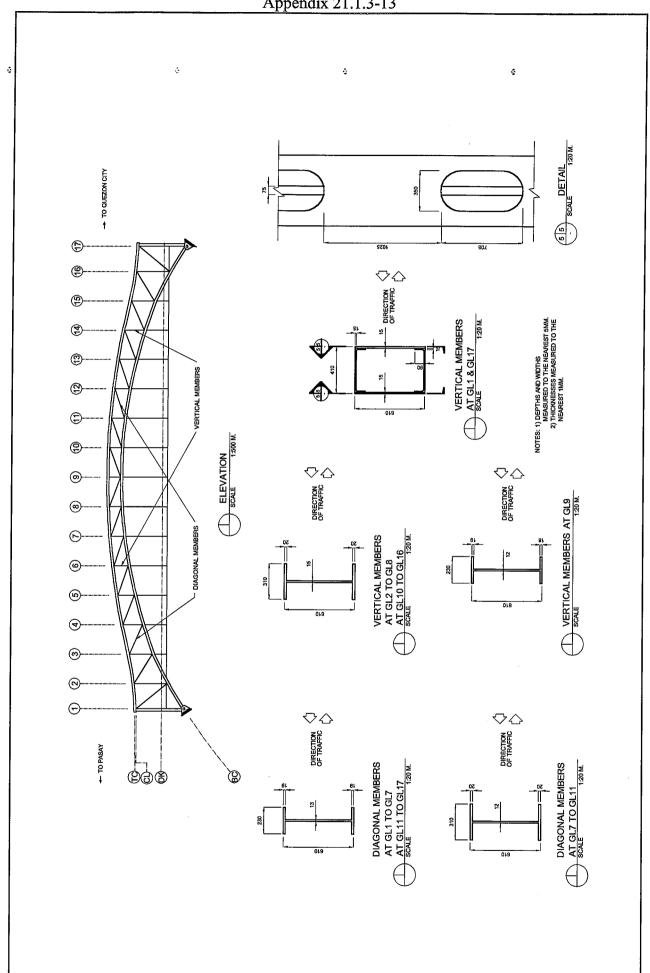
DETAILS OF TRUSS A AND TRUSS C - DIAGONAL AND VERTICAL MEMBERS



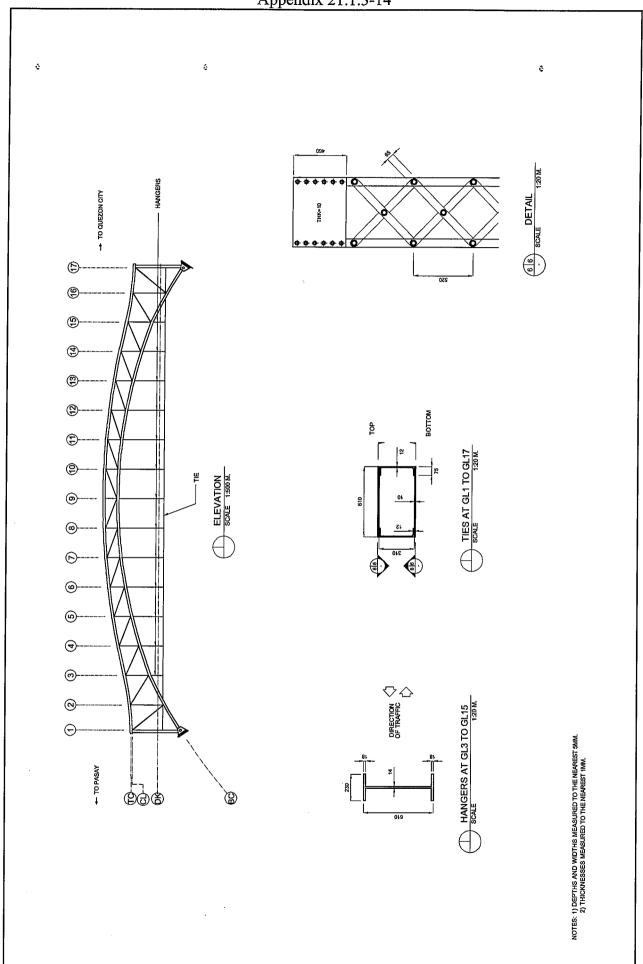
DETAILS OF TRUSS A AND TRUSS C - HANGERS AND TIES



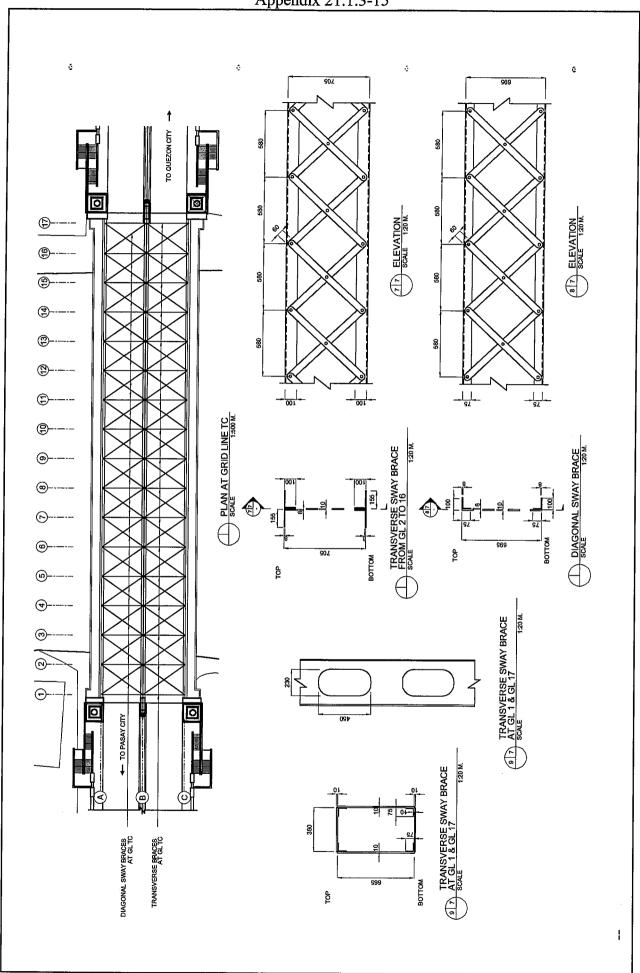
DETAIL OF TRUSS B - TOP CHORD AND BOTTOM CHORD MEMBERS



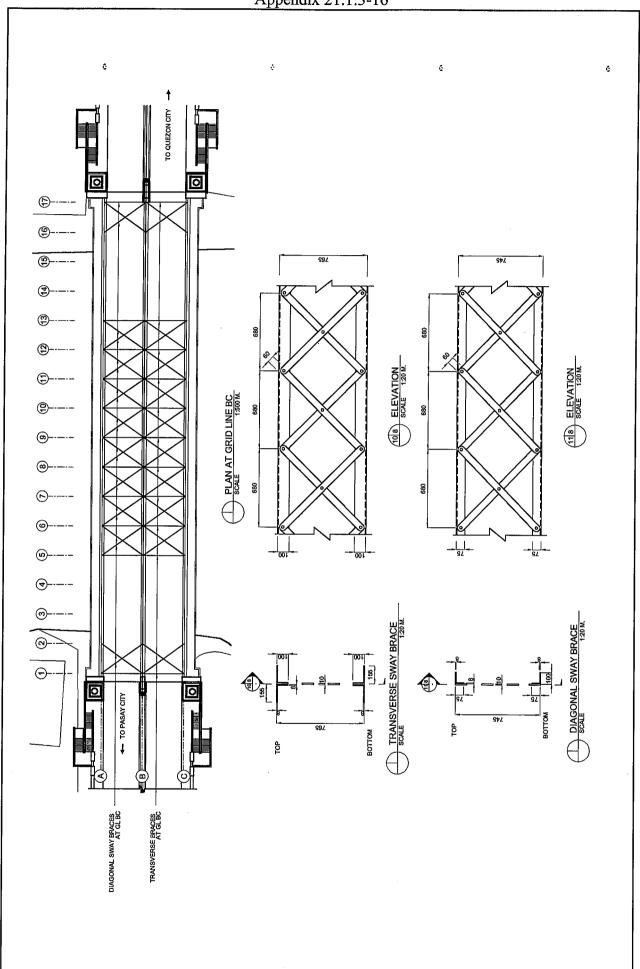
DETAIL OF TRUSS B - DIAGONAL MEMBERS AND VERTICAL MEMBERS



DETAILS OF TRUSS B - HANGERS AND TIES

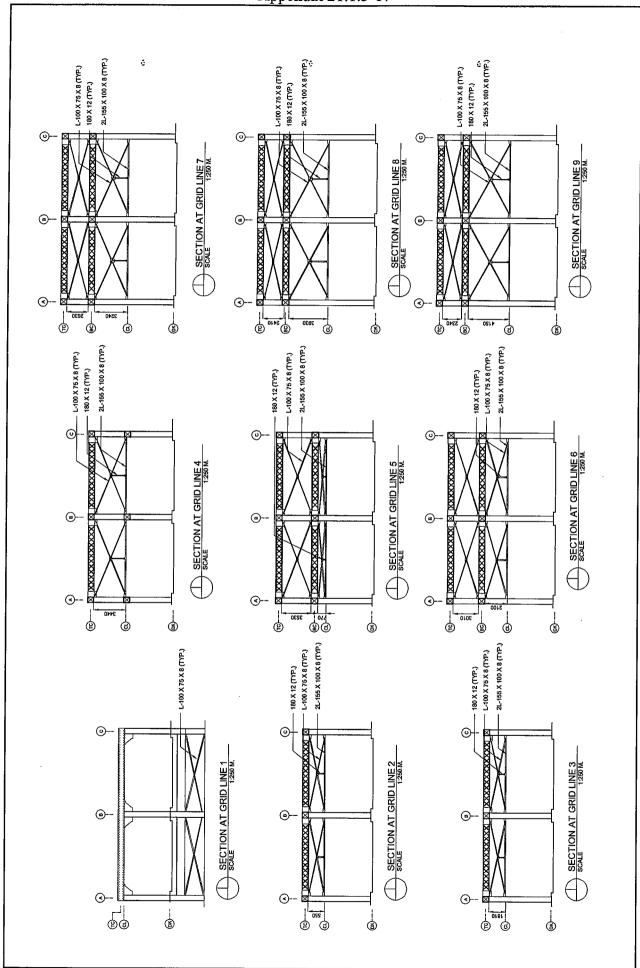


DETAILS OF SWAY BRACES AT GRID LINE TC

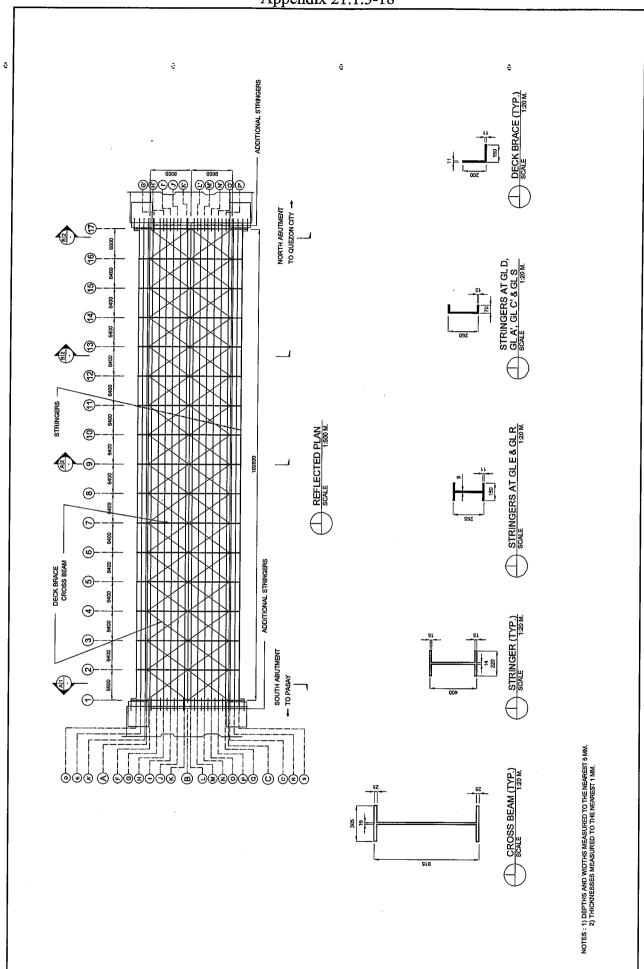


DETAILS OF SWAY BRACES AT GRID LINE BC

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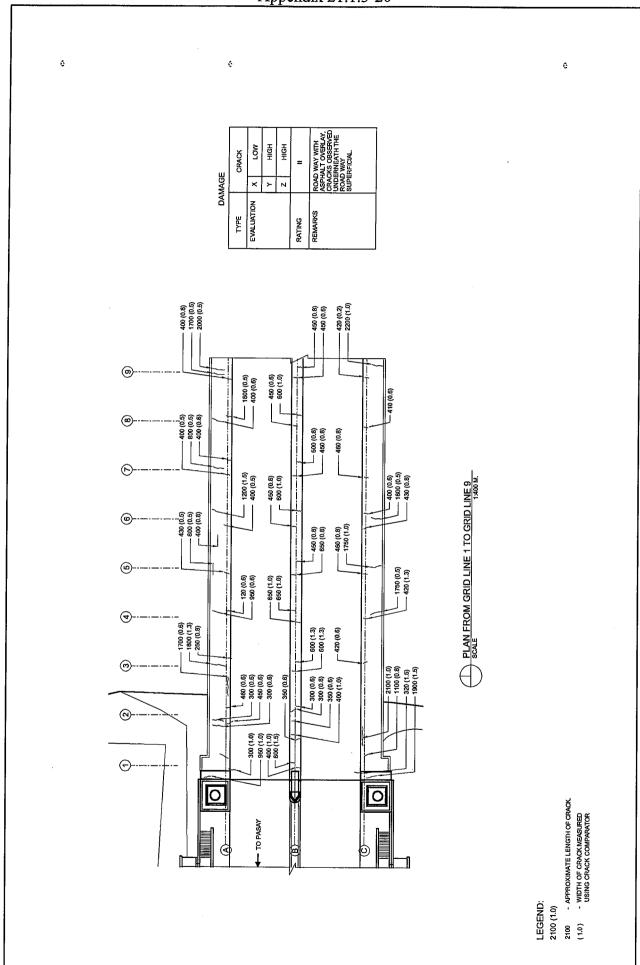
DETAILS OF VERTICAL SWAY BRACES



DETAILS OF DECK FRAME MEMBERS

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DETAILS OF DECK FRAME MEMBERS - ADDITIONAL STRINGERS



CRACKS ON SIDEWALK AND MEDIAN FROM GRID LINE 1 TO GRID LINE 9

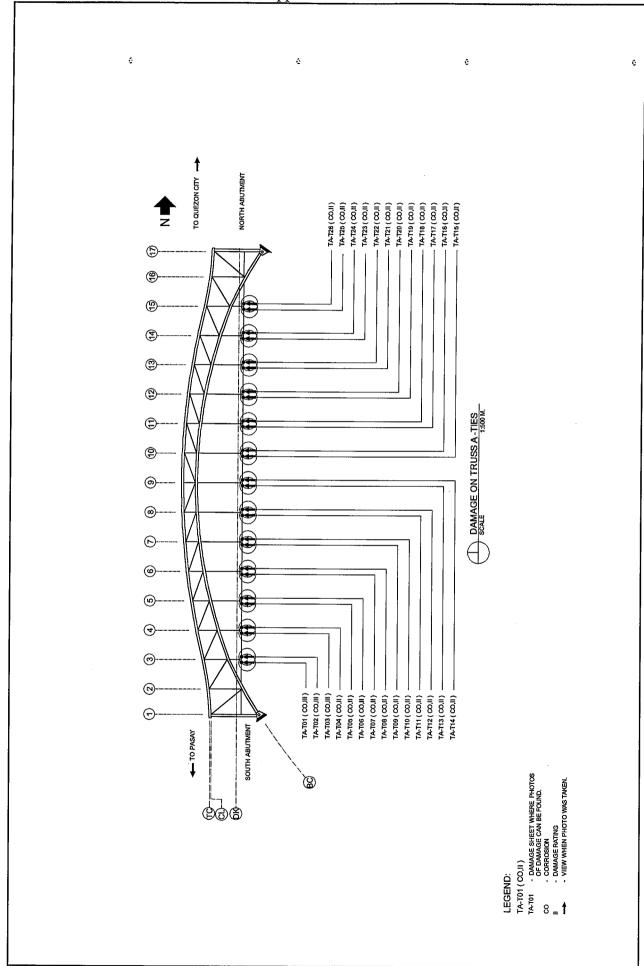
CRACKS ON SIDEWALK AND MEDIAN FROM GRID LINE 9 TO GRID LINE 17

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DAMAGE ON TRUSS A - PIN SUPPORTS, TOP & BOTTOM CHORDS AND VERTICAL MEMBERS

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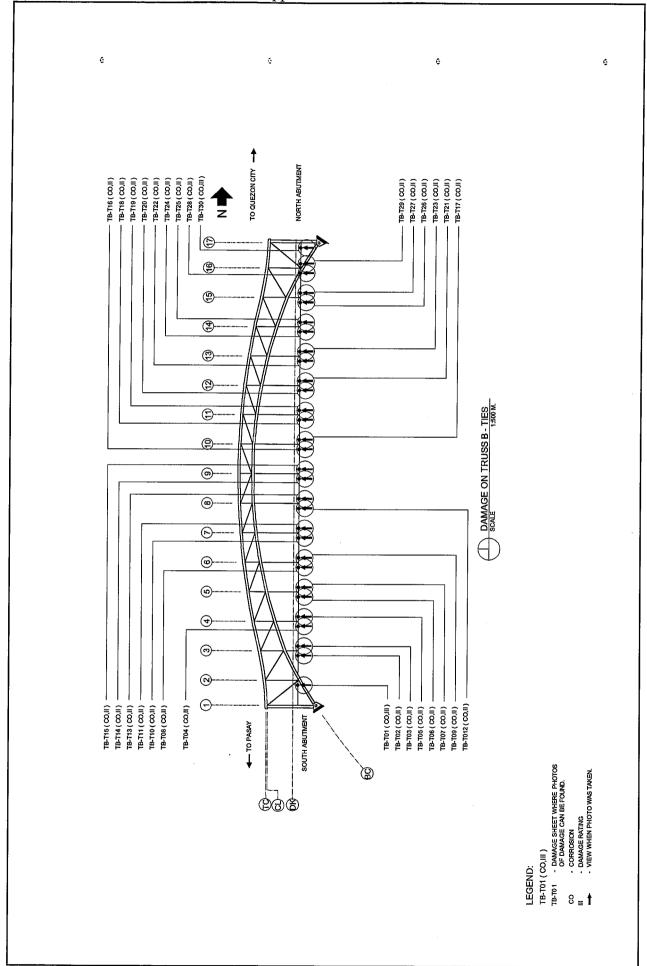


DAMAGE ON TRUSS B - PIN SUPPORTS, TOP & BOTTOM CHORDS AND VERTICAL MEMBERS

DAMAGE ON TRUSS B - HANGERS

TB-H01 ( CO,III ) LEGEND:

8 ₌ 1 <



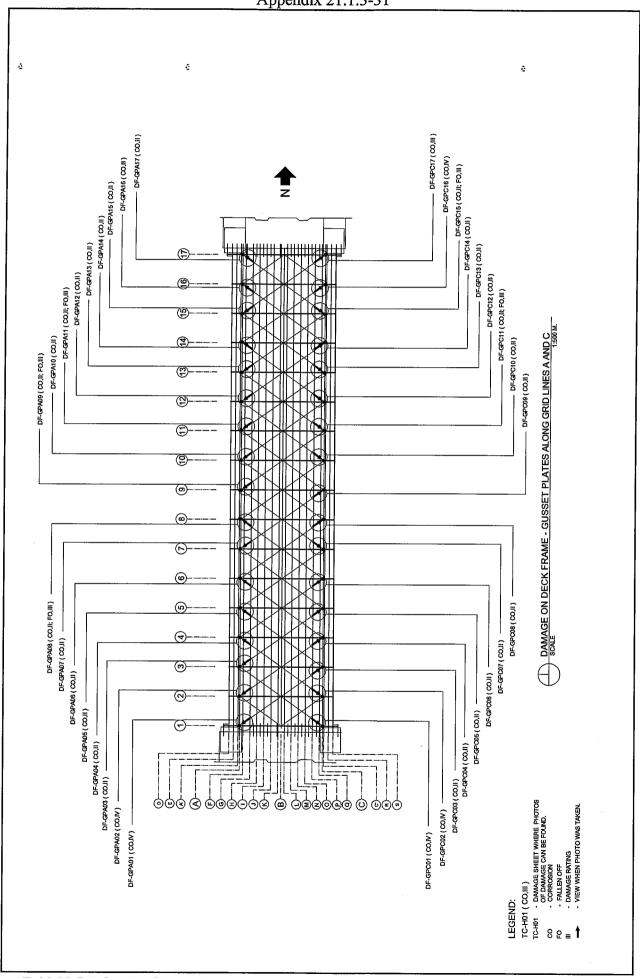
DAMAGE ON TRUSS B - TIES

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DAMAGE ON TRUSS C - PIN SUPPORTS, TOP & BOTTOM CHORDS AND VERTICAL MEMBERS

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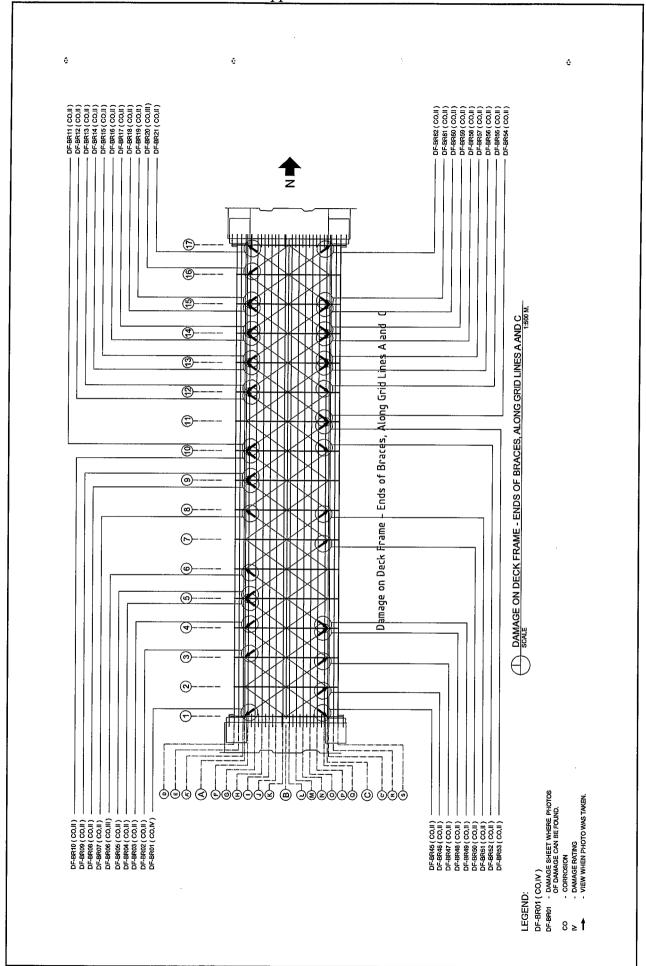
DAMAGE ON DECK FRAME - GUSSET PLATES ALONG GRID LINES A AND C

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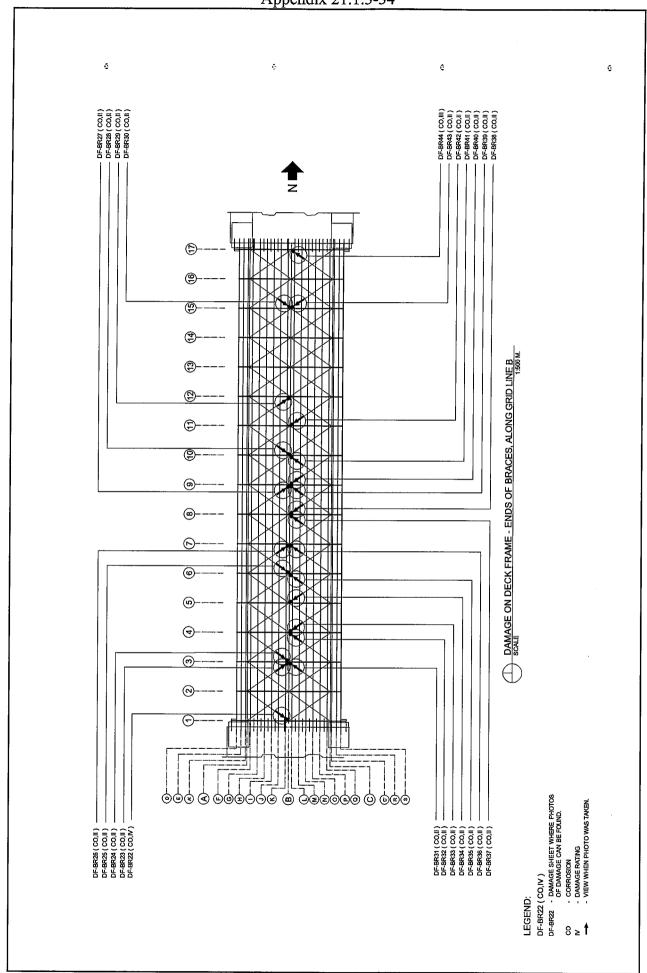
DAMAGE ON DECK FRAME - GUSSET PLATES ALONG GRID LINE B

LEGEND:

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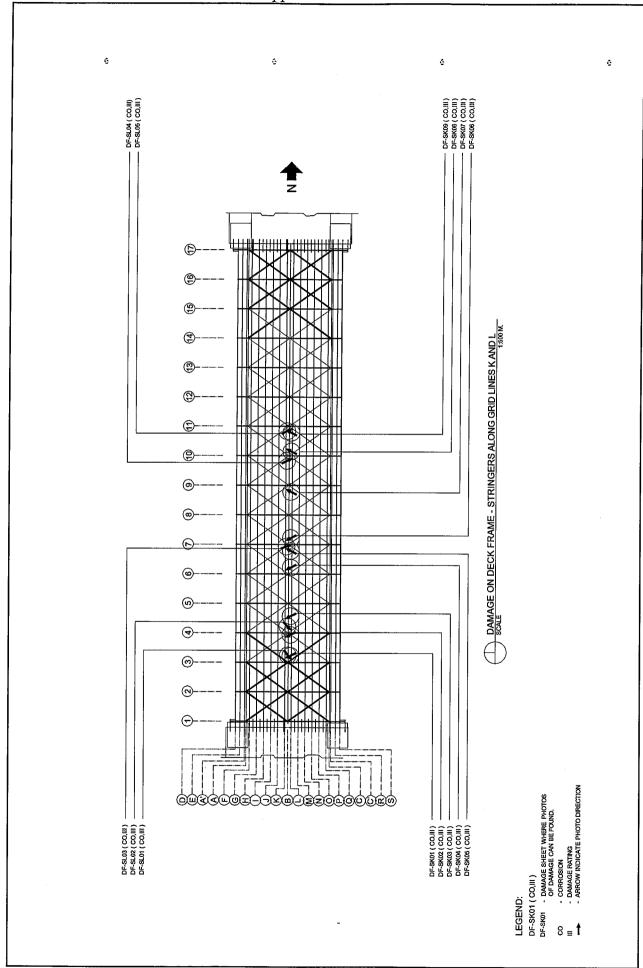
DAMAGE ON DECK FRAME - ENDS OF BRACES, ALONG GRID LINES A AND C



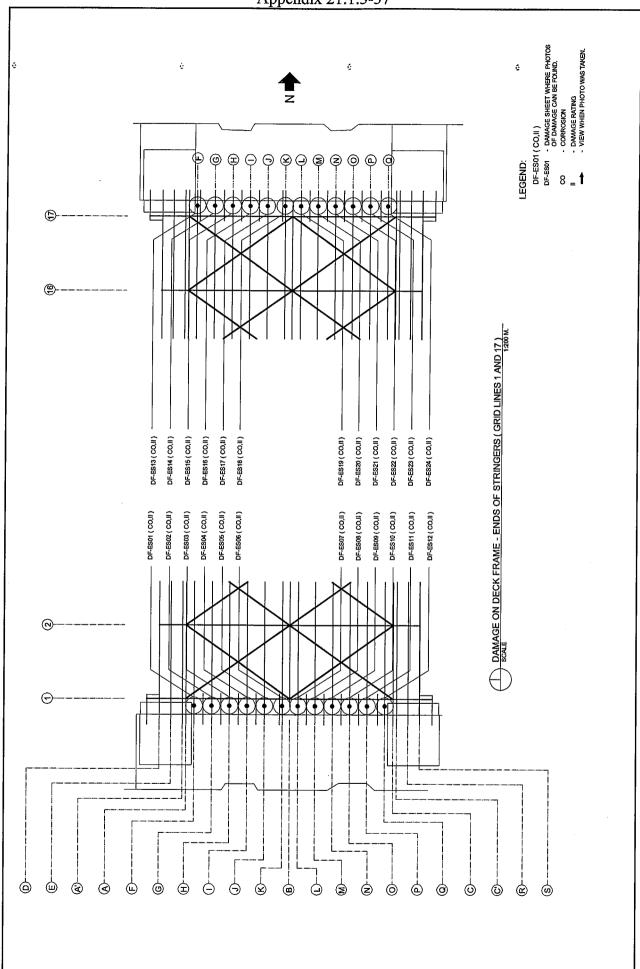
DAMAGE ON DECK FRAME - ENDS OF BRACES, ALONG GRID LINE B

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DAMAGE ON DECK FRAME - STRINGERS ALONG GRID LINES F AND Q

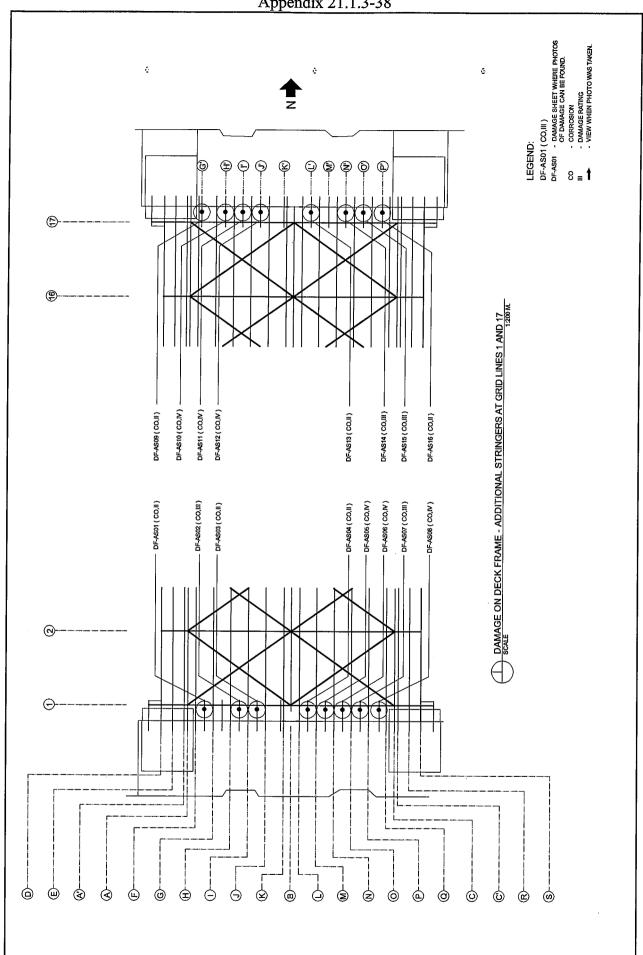


DAMAGE ON DECK FRAME - STRINGERS ALONG GRID LINES K AND L

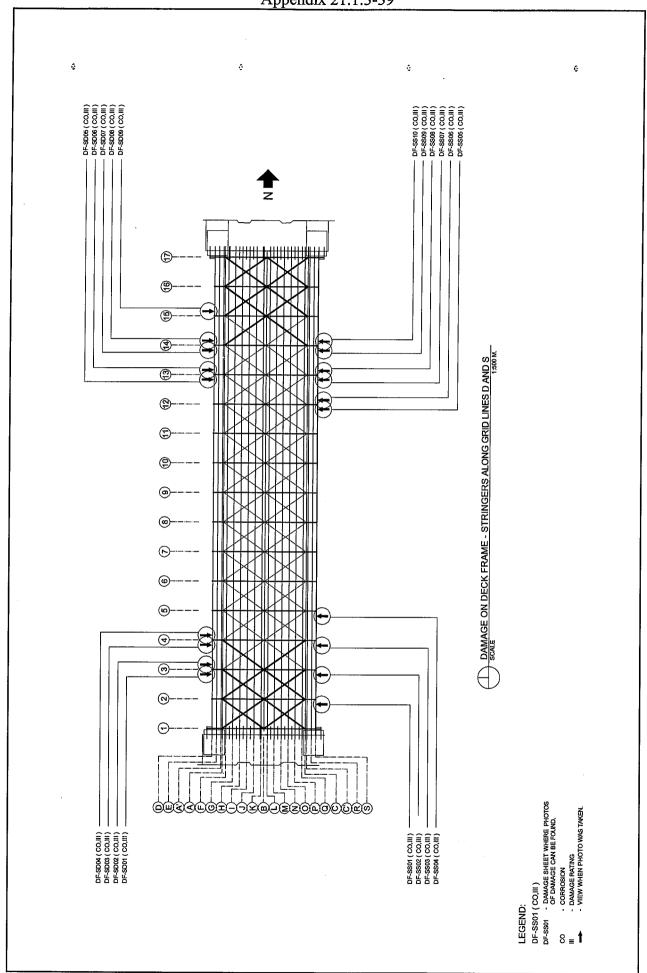


DAMAGE ON DECK FRAME - ENDS OF STRINGERS (GRID LINES 1 AND 7)

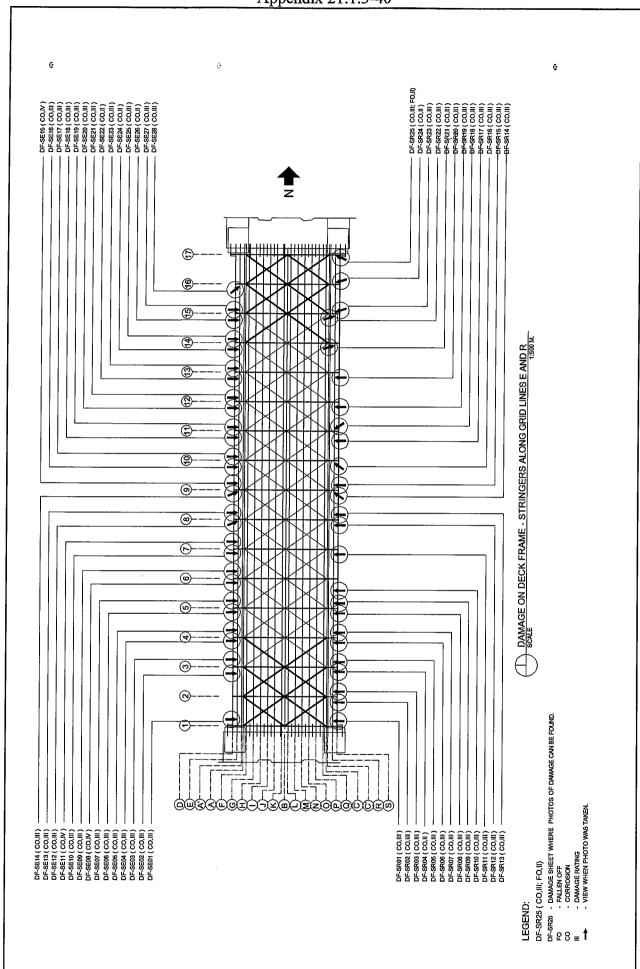
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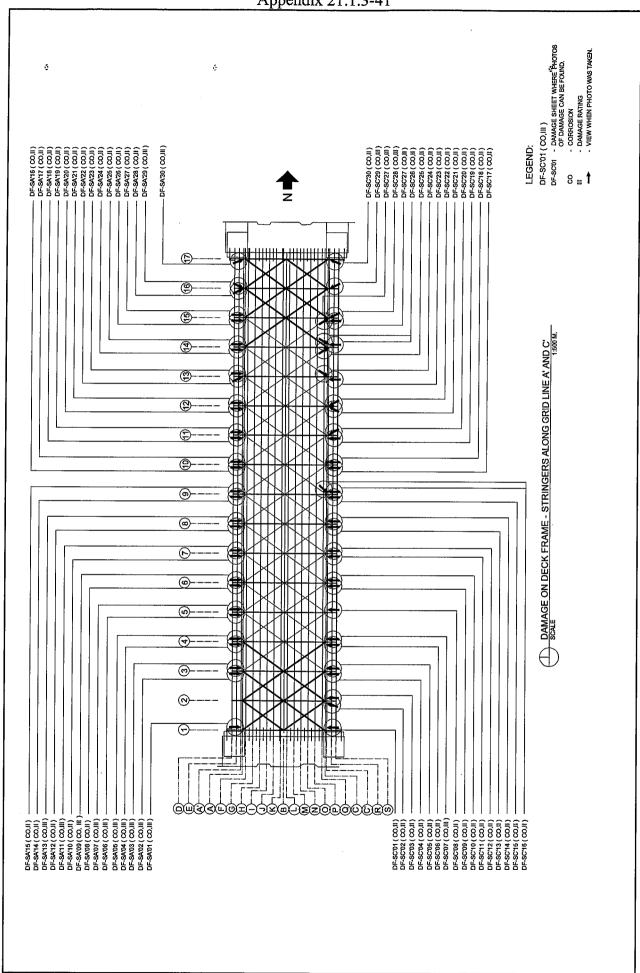
DAMAGE ON DECK FRAME - ADDITIONAL STRINGERS AT GRIDLINES 1 AND 17



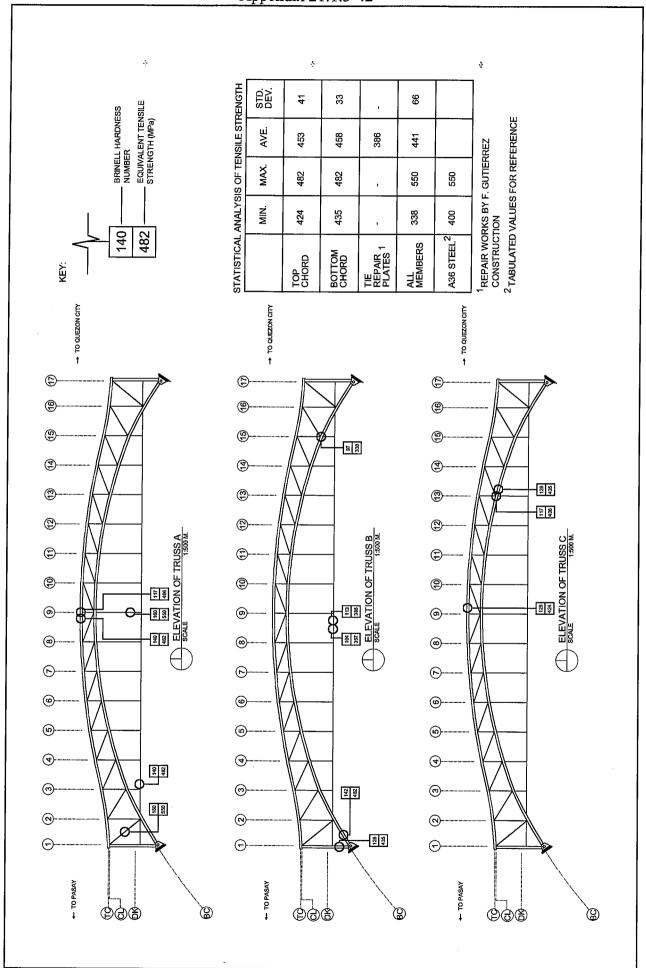
DAMAGE ON DECK FRAME - STRINGERS ALONG GRID LINES D AND S



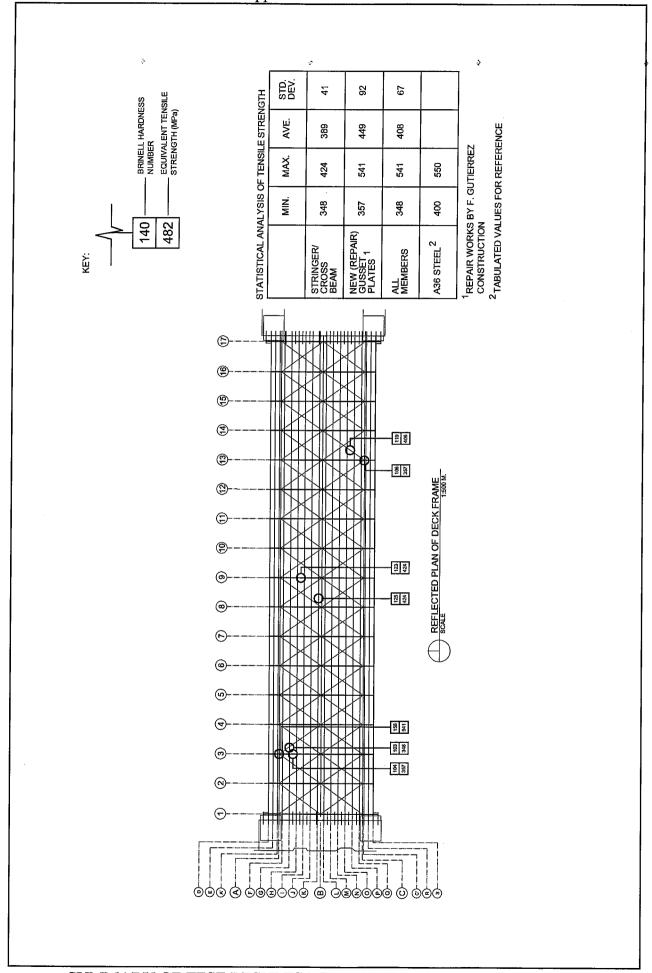
DAMAGE ON DECK FRAME - STRINGERS ALONG GRID LINES E AND R



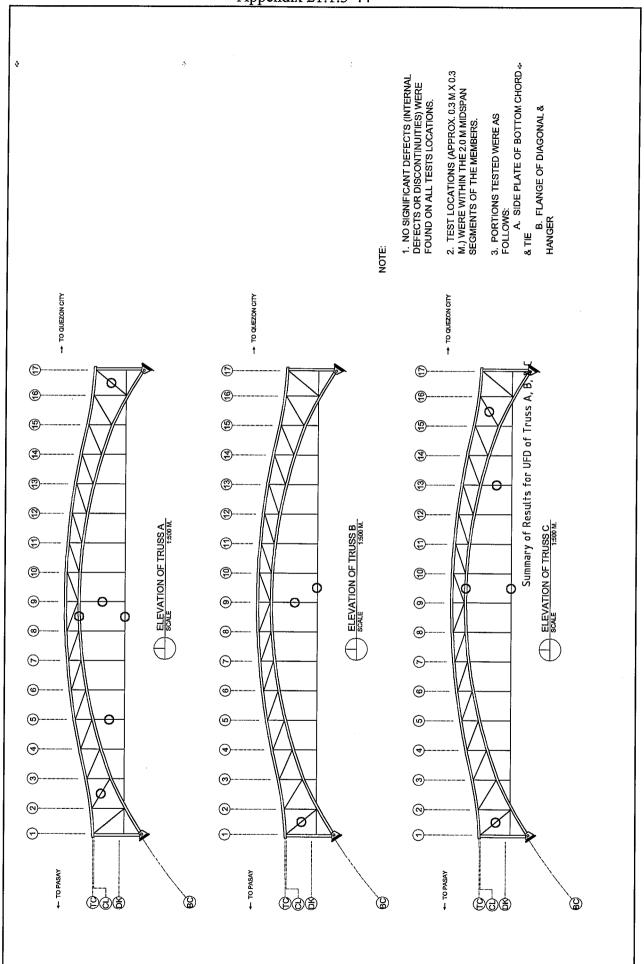
DAMAGE ON DECK FRAME - STRINGERS ALONG GRID LINES A' AND C'



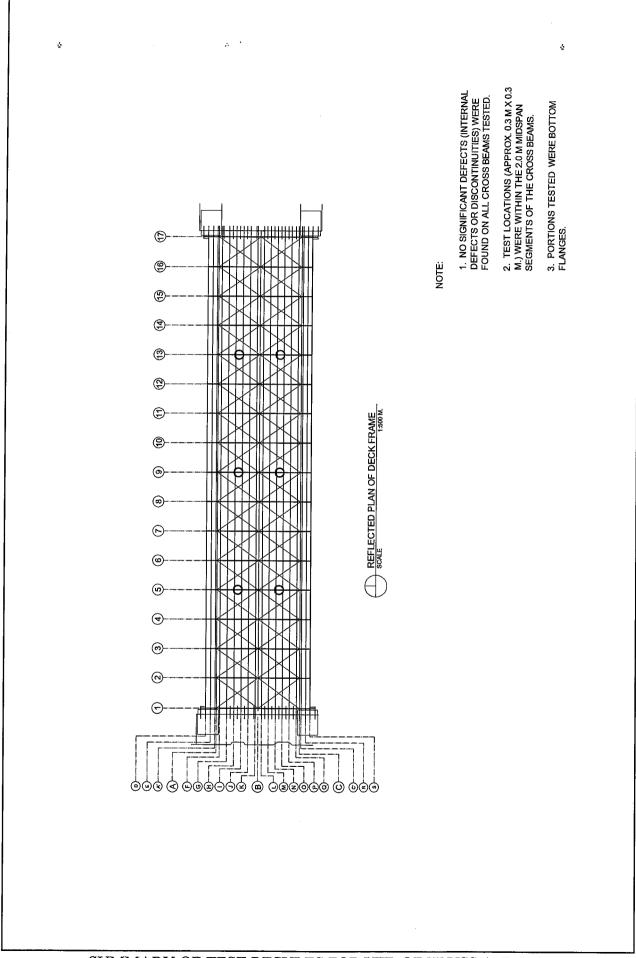
SUMMARY OF TEST RESULTS FOR HARDNESS OF TRUSS A, B & C

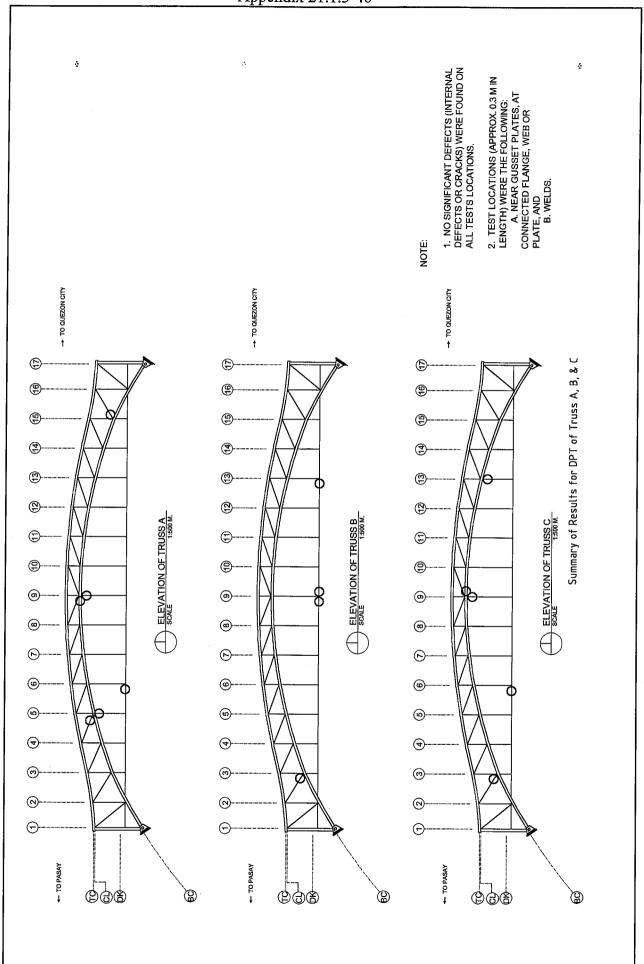


SUMMARY OF TEST RESULTS FOR HARDNESS OF TRUSS A, B & C

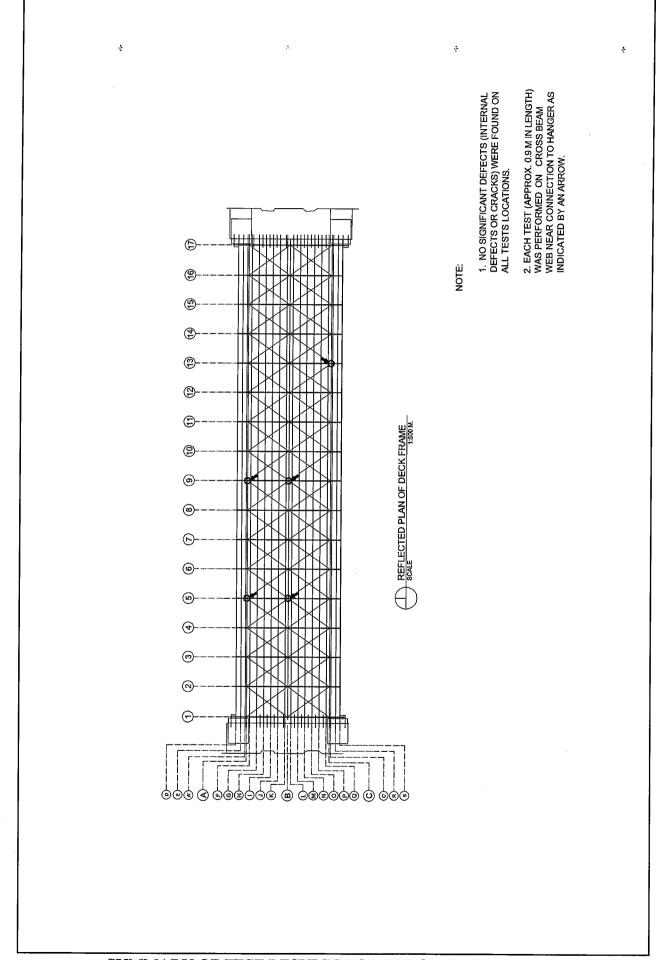


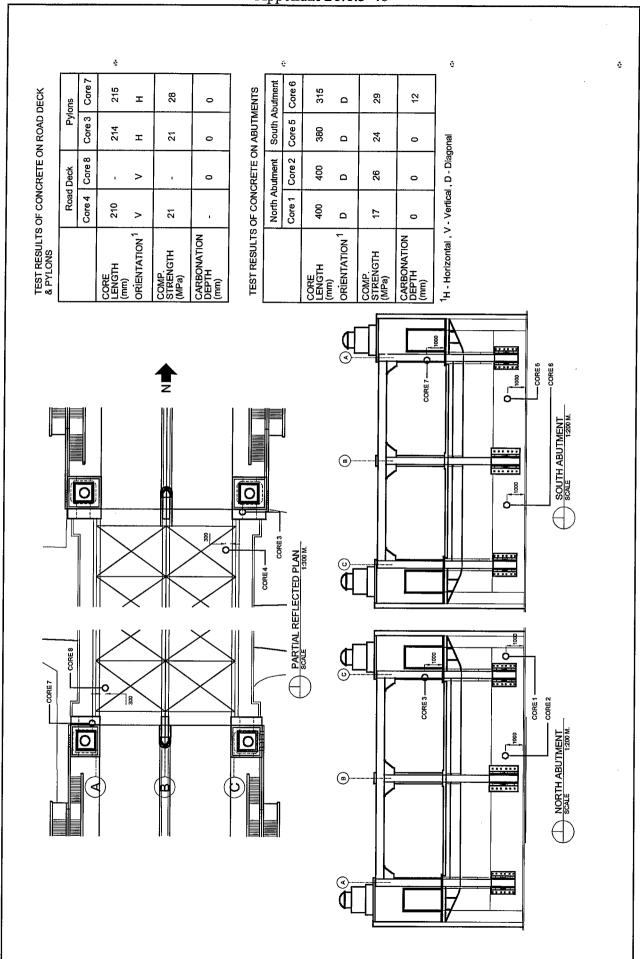
SUMMARY OF TEST RESULTS FOR UFD OF TRUSS A, B & C





SUMMARY OF TEST RESULTS FOR DPT OF TRUSS A, B & C





SUMMARY OF RESULTS FOR CONCRETE TESTING