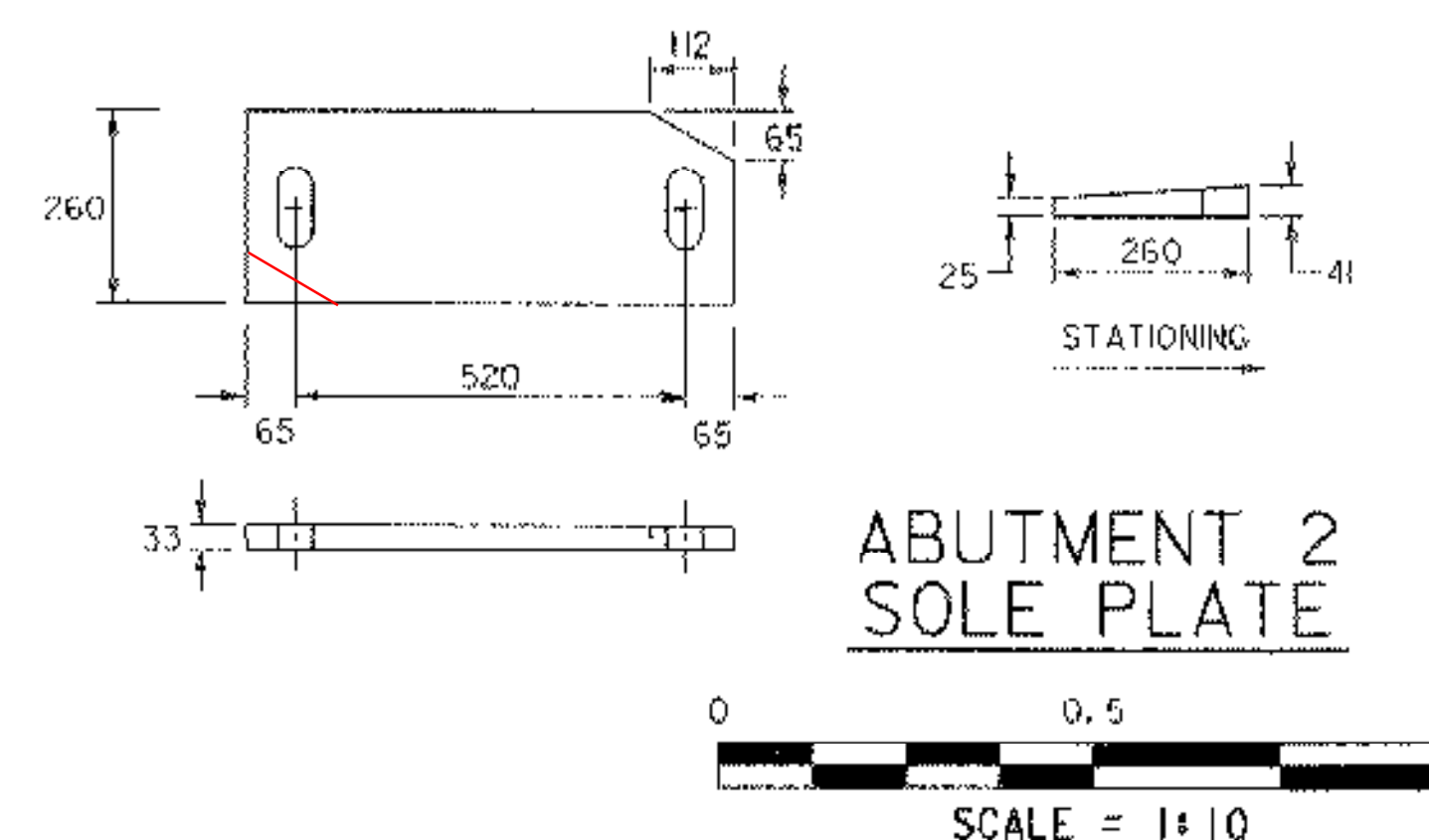
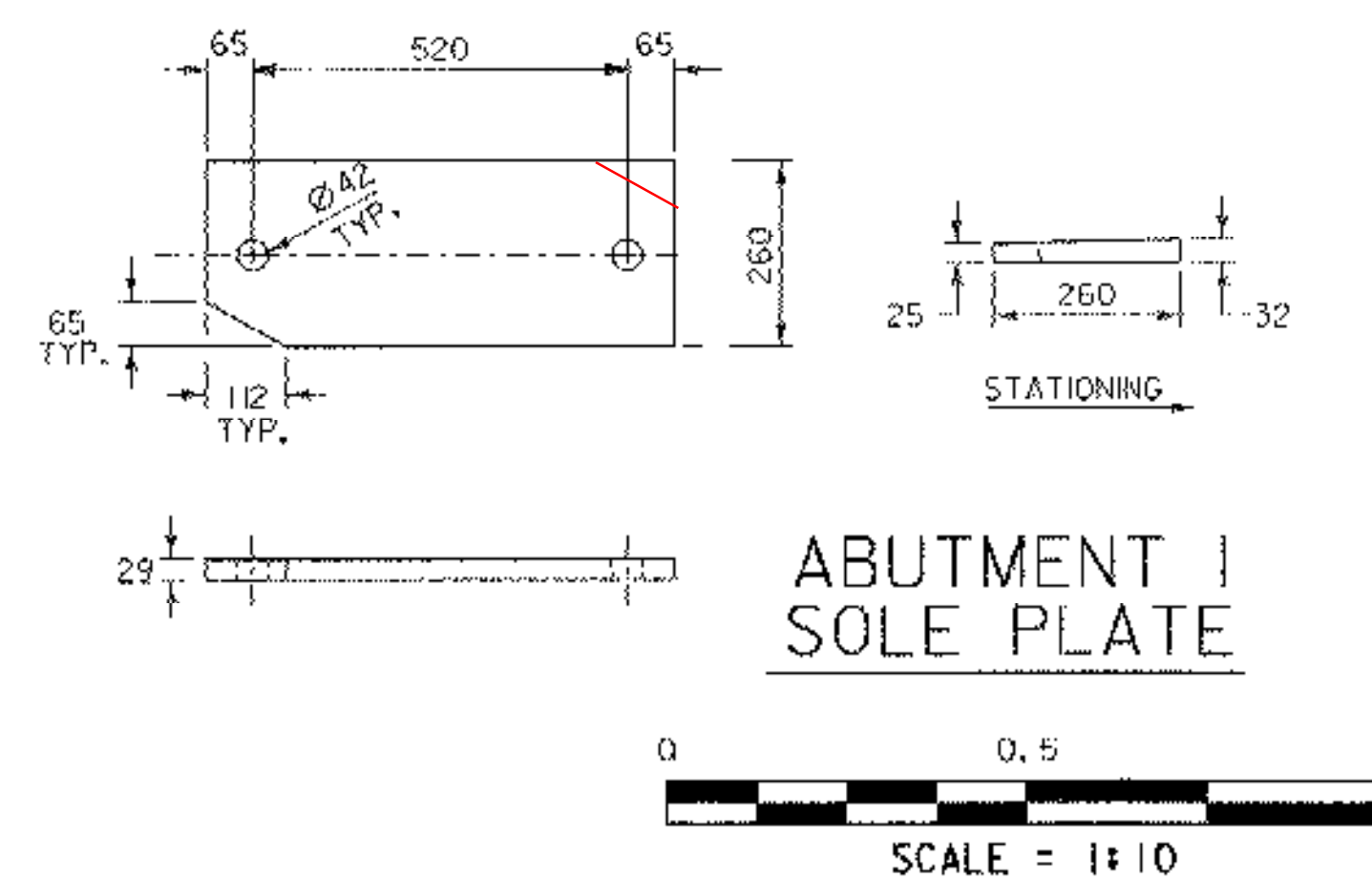
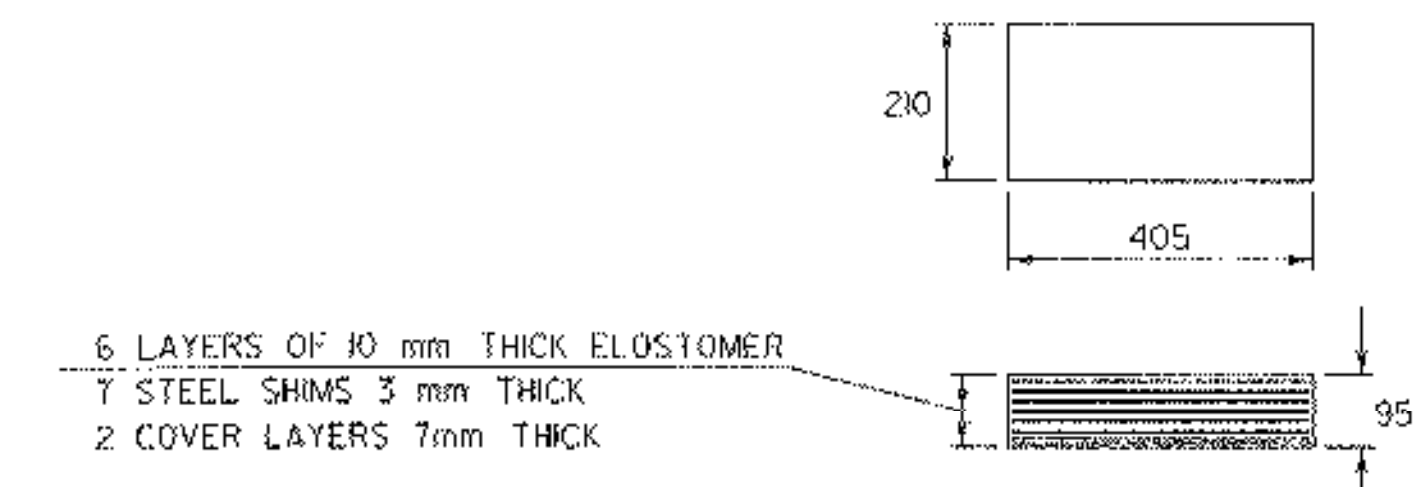
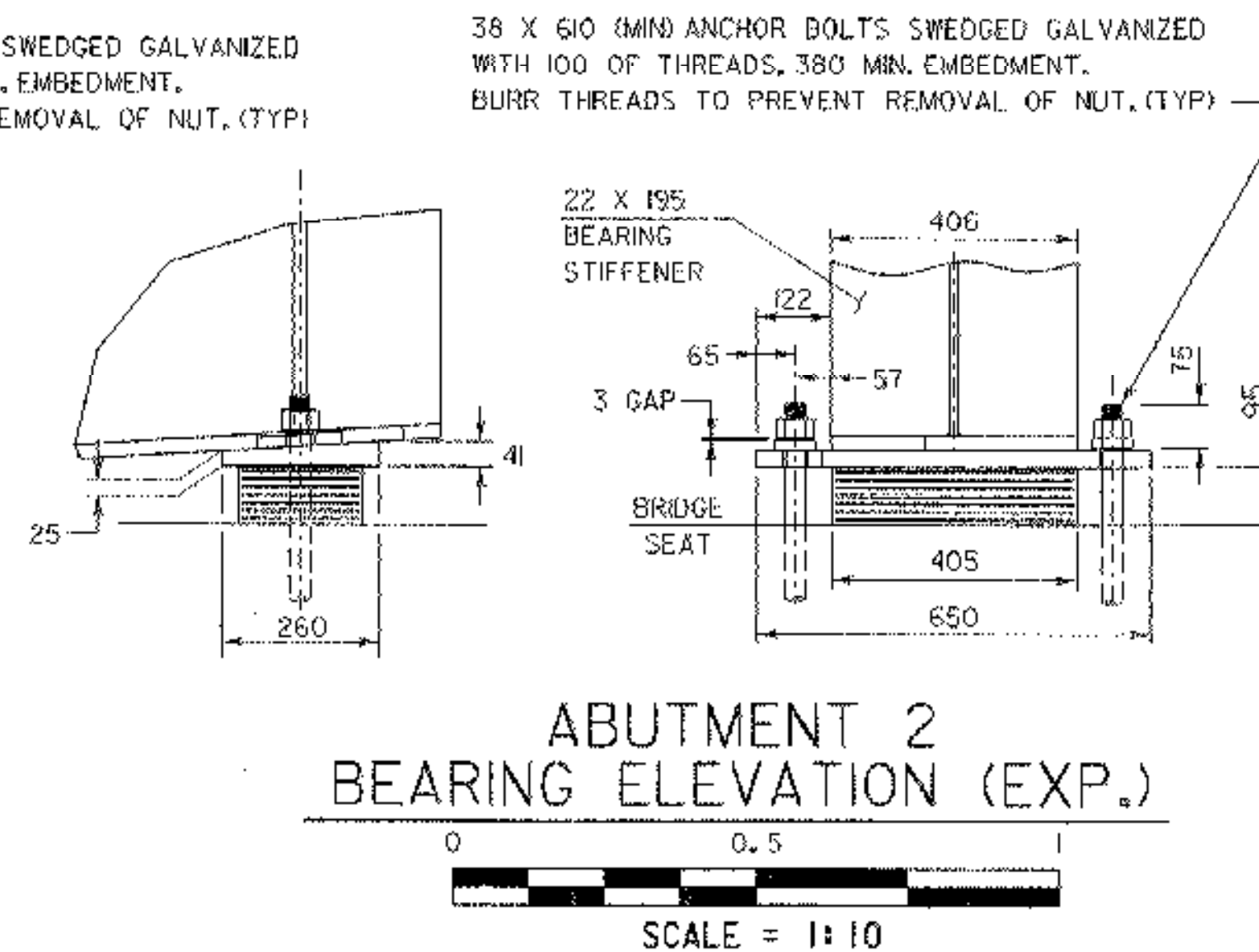
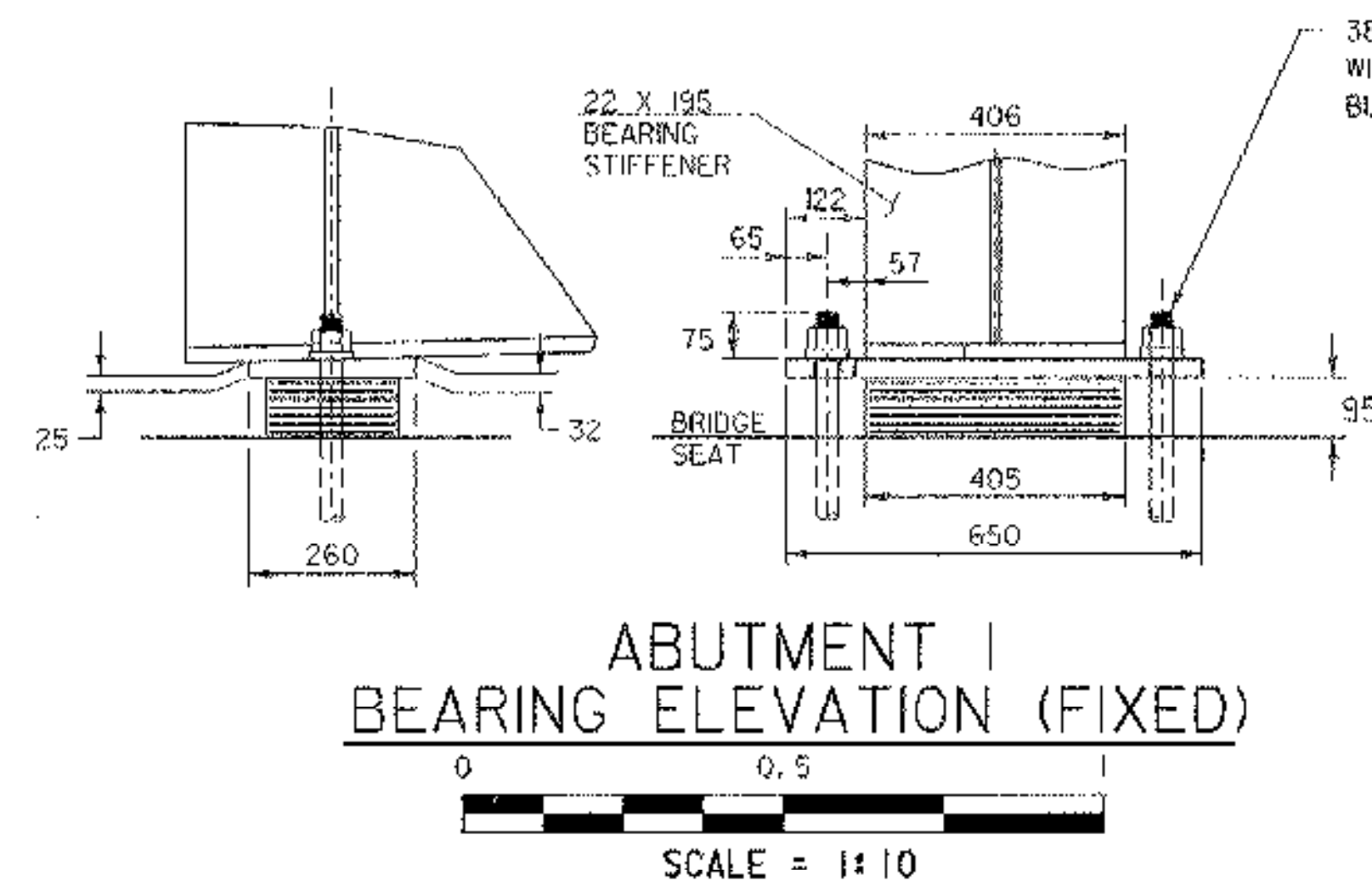
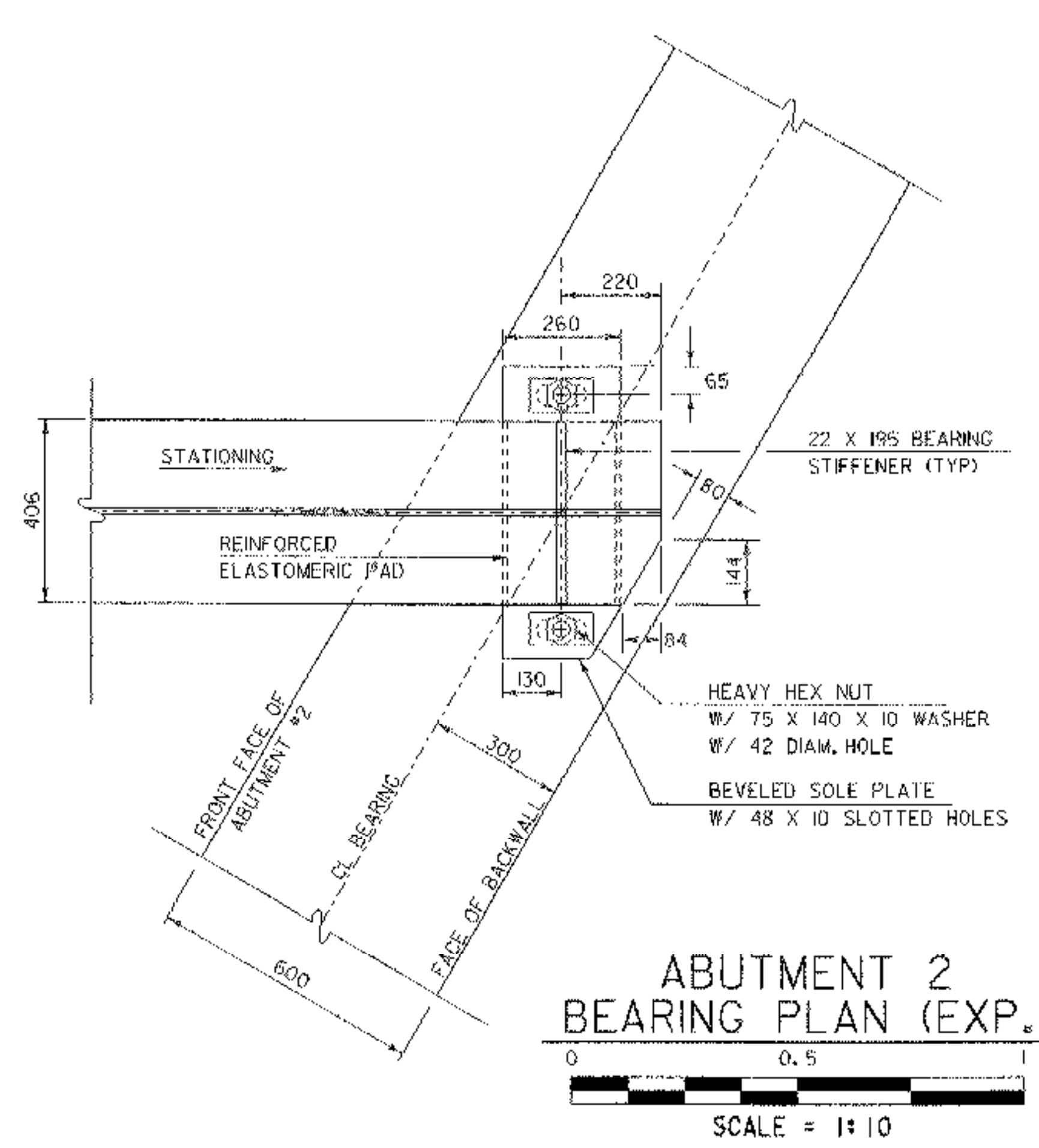
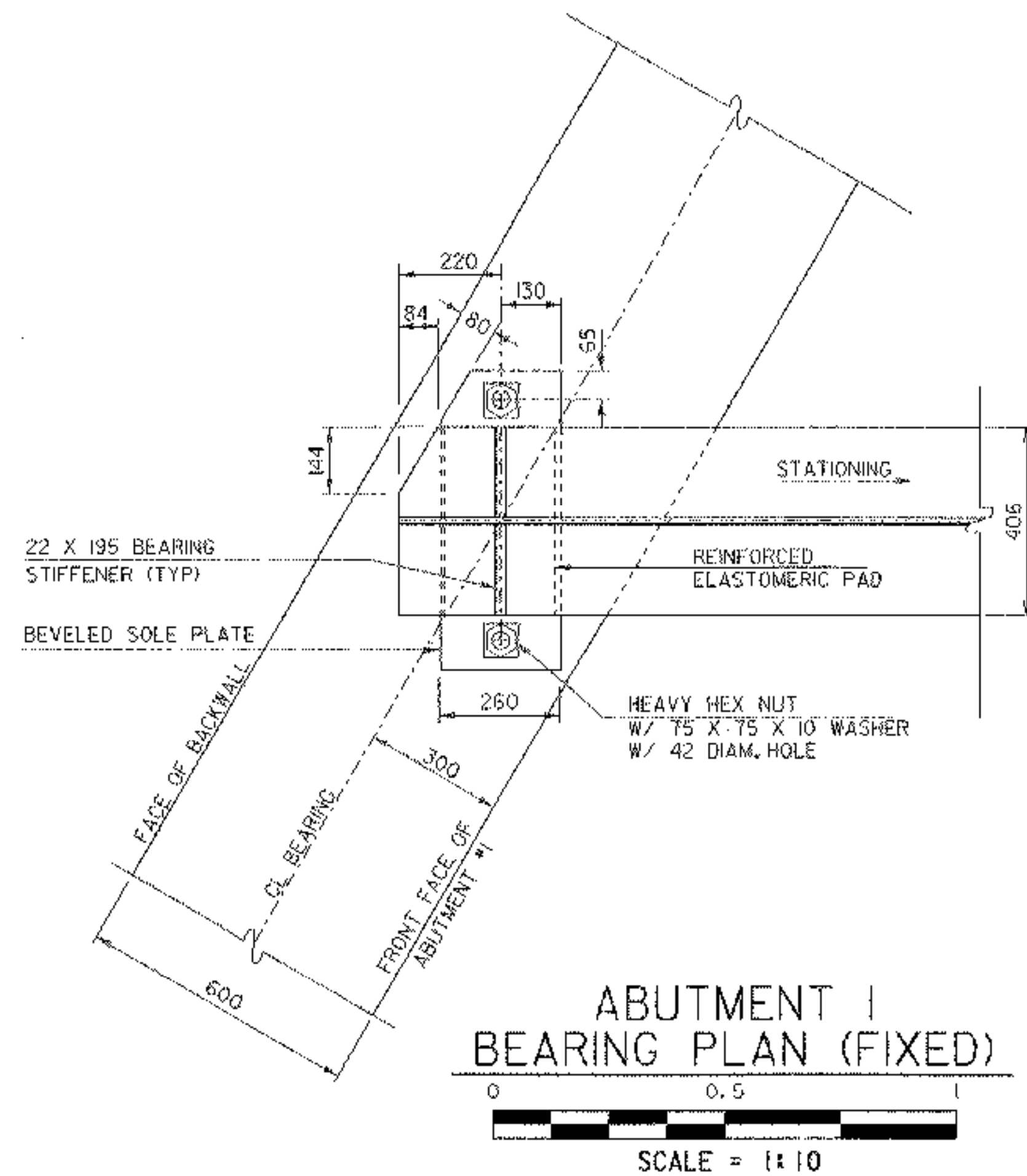


BEARING DEVICE NOTES

- BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.0 "BEARING DEVICE ASSEMBLY (ELASTOMERIC)" AND SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731.
- AREAS OF GALVANIZED AND METALIZING DAMAGED BY WELDING AND/OR HANDLING SHALL BE REPAIRED BY METALIZING IN ACCORDANCE WITH ASTM A 760/760M.
- PAYMENT FOR ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "BEARING DEVICE ASSEMBLY (ELASTOMERIC)". ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER AASHTO M 232/M 232M.
- ALL STEEL IN BEARING DEVICES SHALL BE AASHTO M 270/M 270M GRADE 345.
- ALL REINFORCEMENT BETWEEN LAYERS OF ELASTOMER SHALL BE STEEL AASHTO M270/M 270M GRADE 250. ALL INTERNAL STEEL PLATES SHALL BE SAND BLASTED AND FREE OF COATINGS, RUST, AND MILL SCALE. THE PLATES SHALL BE FREE OF SHARP EDGES AND BURRS.
- STEEL REINFORCED ELASTOMERIC BEARINGS SHALL HAVE A MINIMUM OF 3MM EDGE SEAL OF ELASTOMER INTEGRAL WITH THE BEARING OVER ALL INTERNAL PLATES.
- FOR ELASTOMERIC BEARINGS, ALL MATERIALS AND FABRICATION SHALL BE PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, EDITION 2002 AND ITS LATEST REVISIONS AND AASHTO M 251/M 251M.
- ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET. THE ALTERNATE SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN AND SHALL BE DESIGNED PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 2002 EDITION AND ITS LATEST REVISIONS.
- BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATIVE CONFIGURATION.
- DESIGN CRITERIA:
 - DESIGN ROTATION = 0.015 RADIANS
 - BEARING ARE DESIGNED AS PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, EDITION 2002 AND ITS LATEST REVISIONS, SECTION 14, METHOD B.
 - VERTICAL DESIGN LOAD PER BEARING :

ABUTMENT BEARINGS

- RDL = 390 KN
- RLL = 345 KN
- TEMPERATURE RANGE = -25°C TO +45°C
- ELASTOMER SHALL HAVE NOMINAL HARDNESS OF 60 ON SHORE 'A' SCALE. ELASTOMER SHALL HAVE A SHEAR MODULUS BETWEEN 0.896 MPa AND 1.172 MPa. THE RAW ELASTOMER SHALL BE VIRGIN NEOPRENE CLASSIFIED AS LOW TEMPERATURE GRADE 4 AS DEFINED IN TABLE 18.4.5.1- 1A OF AASHTO, DIVISION II, SECTION 18.
- NO FABRIC REINFORCEMENT WILL BE ALLOWED IN ELASTOMERIC PADS
- THE STEEL SOLE PLATES SHALL BE HOT BONDED TO THE REINFORCED ELASTOMERIC PAD DURING THE VULCANIZATION PROCESS. THE STEEL SURFACES TO BE BONDED TO THE PAD SHALL NOT BE METALIZED.
- THE ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F568M CLASS 8.8.



BEARING DETAIL SHEET

PROJECT NAME: MENDON	PLT DATE: 18-NOV-2005
PROJECT NUMBER: BRO 1443(35)	DRAWN BY: K. RUTTER
FILE NAME: /str5/951290/sj290brg.dgn	CHECKED BY: T.A. SUMNER
PROJECT MANAGER: C. KELLER	SHEET 50 OF 94
DESIGNED BY: J. GEORGE	