

GENERAL

- G.1 THESE GENERAL NOTES ARE RELEVANT TO ALL DRAWINGS SET, VIZ: -99094-1 TO 5.
- G.2 THESE NOTES ARE SUPPLEMENTARY TO AND DO NOT REPLACE SPECIFICATION TO WHICH THE CONTRACTOR MUST CONFORM.
- G.3 ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
- G.4 **LOADING**
 THE REFURBISHED BRIDGE IS TO BE FOR FOOT TRAFFIC ONLY AND THE DECKING HAS BEEN DESIGNED FOR A MAX. DISTRIBUTED LIVE LOAD OF 5 kPa OR POINT LOAD OF 1.8 kN. GUARDRAIL LOADING IS 0.35 kN/m IN, OUT OR DOWN.
 THESE LOADS ARE SIGNIFICANTLY LESS THAN THE ORIGINALS DESIGN LOADS FOR THE BRIDGE STRUCTURE AND THE EXTENT OF STRUCTURAL REPAIR IS AIMED AT APPROXIMATING THE ORIGINAL CAPACITY OF THE BRIDGE AND TO MINIMIZE THE EFFECTS OF FURTHER CORROSION.
- G.5 OBTAIN THE SUPERINTENDENT'S APPROVAL BEFORE MAKING ANY PENETRATIONS OR ALTERATIONS TO ANY STRUCTURAL ELEMENT, THAT ARE NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS.

CONCRETE

- C.1 ALL CONCRETE SHALL BE MANUFACTURED, PLACED AND CURED IN ACCORDANCE WITH AS 3600. CONCRETE SHALL BE GRADE N25, MAX. AGGREGATE 20, SLUMP 40-80, MINIMUM LAPS: S.6 FABRIC: 2 EDGE BARS PER SHEET PLUS 25 mm.
 SUBMIT DETAILS FOR ANY SITE MIXED CONCRETE PRIOR TO CONSTRUCTION.

STRUCTURAL STEELWORK

- S.1 ALL NEW STRUCTURAL STEEL SHALL BE GRADE 300, UNLESS NOTED, AND COMPLY WITH AS 3678, 3679.1 AND 3679.2.
 - S.2 ALL STRUCTURAL STEEL PLATES AND ROUNDS SHALL BE GRADE 250, UNLESS NOTED, AND COMPLY WITH AS 3678 AND 3679.1
 - S.3 ALL CIRCULAR HOLLOW SECTIONS SHALL BE GRADE C250, UNLESS NOTED, AND COMPLY WITH AS 1163.
 - S.4 ALL MATERIALS, WORKMANSHIP AND PROCEDURES SHALL COMPLY WITH AS 4100.
 - S.5 ALL CLEATS SHALL BE 10 mm THICK UNLESS NOTED OTHERWISE.
 - S.6 WELD STRUCTURAL STEEL WITH E48XX ELECTRODES.
 - (a) ALL WELDS SHALL BE IN ACCORDANCE WITH AS 1554.1.
 - (b) ALL BUTT WELDS AND WELDS NOMINATED BY NOTE OR SYMBOL ON THE DRAWINGS SHALL BE SP (STRUCTURAL PURPOSE) WELDS.
 - (c) UNLESS NOTED OTHERWISE, ALL WELDS FOR BEAM WEB PLATE AND END PLATE BOLTED CONNECTIONS SHALL BE A CONTINUOUS 6 mm SP (STRUCTURAL PURPOSE) FILLET WELD ALL ROUND.
 - (d) UNLESS NOTED OTHERWISE, JOIN ALL NEW UNBOLTED ELEMENTS IN CONTACT WITH A CONTINUOUS 5 mm GP (GENERAL PURPOSE) FILLET WELD ALL ROUND.
 - (e) THOROUGHLY REMOVE ALL WELD SPATTER AND SLAG AFTER WELDING.
- ALL BOLTS SHALL BE M16-8.8/TF UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE HOT DIP GALV. AND THREADS MAY BE INCLUDED IN SHEAR PLANE UNLESS NOTED OTHERWISE.
- THE FOLLOWING SYMBOLS AND DEFINITIONS APPLY TO BOLTS:
- | | |
|------|--|
| 2M16 | 2 NO. 16 DIAMETER METRIC BOLTS |
| 8.8 | HIGH STRENGTH STRUCTURAL GRADE 8.8 TO AS 1252 |
| 4.6 | COMMERCIAL GRADE 4.6 TO AS 1111 |
| S | INSTALLED TO SNUG TIGHTENED CONDITION TO AS 4100 |
| TF | TENSIONED BY THE PART TURN METHOD TO AS 4100 FOR A FRICTION TYPE JOINT |
- PROVIDE A WASHER UNDER THE ROTATING COMPONENT OF EACH NUT AND BOLT ASSEMBLY. PROVIDE WASHERS UNDER BOTH BOLT HEAD AND NUT FOR SLOTTED OR OVERSIZE HOLES.
- S.7 VERIFY ALL RELEVANT SITE DIMENSIONS BEFORE COMMENCING SHOP DRAWINGS.
 - S.8 AT LEAST SEVEN WORKING DAYS PRIOR TO THE ANTICIPATED COMMENCEMENT OF FABRICATION, SUBMIT TWO SETS OF SHOP DRAWINGS TO M J CONSULTING ENGINEERS FOR REVIEW.
 THIS REVIEW IN NO WAY EXEMPTS THE CONTRACTOR FROM RESPONSIBILITY FOR THE WORK SHOWN ON THE DRAWINGS, AND THE CONTRACTOR REMAINS FULLY RESPONSIBLE FOR ALL DIMENSIONS AND AGREEMENT WITH THE CONTRACT.
 SHOP DRAWINGS SHALL BE THOROUGHLY CHECKED BY THE CONTRACTOR FOR COMPLETENESS AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS BEFORE SUBMITTING THEM TO M J CONSULTING ENGINEERS.
 DO NOT COMMENCE FABRICATION OF STEELWORK UNTIL THE RELEVANT SHOP DRAWING HAS BEEN STAMPED "FABRICATION MAY PROCEED" BY M J CONSULTING ENGINEERS.

PREPARE ALL SURFACES, FOR NEW GUARDRAIL AND DECKING STEELWORK, UNLESS NOTED OTHERWISE, FOR PAINTING BY EXPOSING WHITE METAL BY ABRASIVE BLASTING TO AS 1627 PART 4, CLASS 2-1/2. PAINT WITH AN APPROVED INORGANIC ZINC-SILICATE PAINT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO GIVE A MINIMUM DRY FILM OF 0.075 mm WITH 0.3 kg/m² ZINC.

WHERE INSTRUCTED BY THE SUPERINTENDENT, PREPARE AND PAINT ANY SECTIONS OF THE EXISTING BRIDGE STRUCTURE AS SPECIFIED IN APPENDIX No. 5 OF THE SPECIFICATION.

RETAIN THE SERVICES OF, AND PAY ALL COSTS FOR AN APPROVED STEEL FABRICATION INSPECTION SERVICE TO:

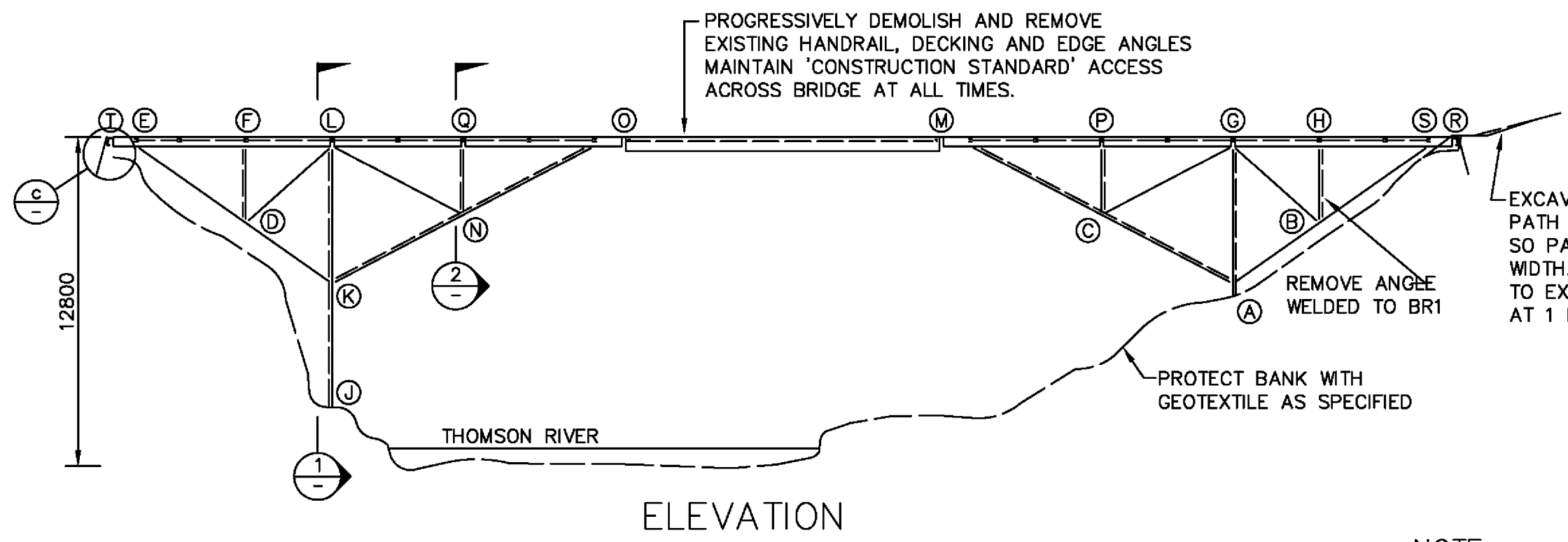
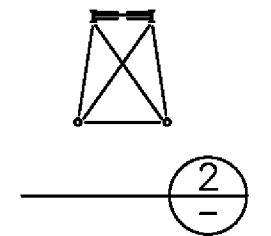
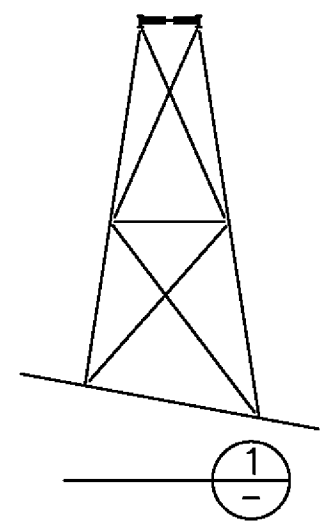
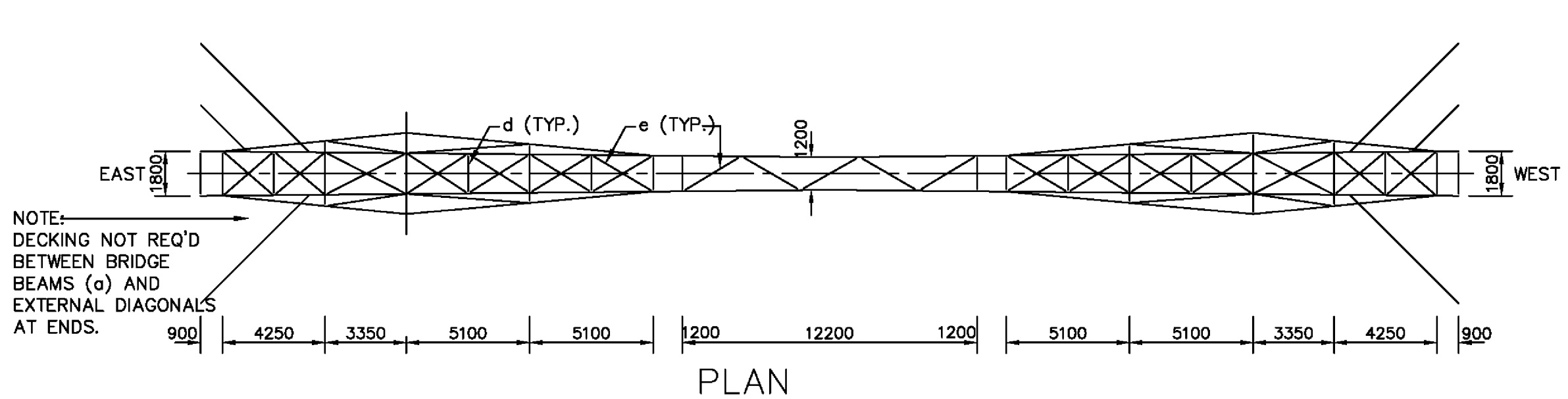
- (a) CONDUCT ALL NECESSARY INSPECTIONS OF STEEL FABRICATION AND ERECTION TO ENSURE THAT ALL WORKMANSHIP COMPLIES WITH THIS SPECIFICATION, WITH PARTICULAR ATTENTION TO:
 - TESTING AND APPROVAL OF WELDING PROCEDURES AND OPERATORS,
 - PREPARATION AND FIT UP OF JOINTS,
 - QUALITY, SIZE AND LENGTHS OF WELDS,
 - PREPARATION FOR SHOP PAINTING,
 - SHOP PAINTING,
 - HIGH STRENGTH BOLTING TECHNIQUE,
 - ERECTION PROCEDURES INCLUDING SITE WELDING AND TOUCH UP PAINTING.
 - PREPARATION AND APPLICATION OF PAINT TOP COATS.
- (b) SUBMIT REPORTS TO THE SUPERINTENDENT, WITH COPIES TO THE CONTRACTOR AND THE STRUCTURAL STEELWORK SUBCONTRACTOR, DETAILING PROGRESS OF THE WORK, WHILE FABRICATION AND/OR ERECTION IS IN PROGRESS.
- (c) ON COMPLETION OF FABRICATION AND ERECTION, ISSUE THE SUPERINTENDENT WITH A CERTIFICATE STATING THAT ALL WORKMANSHIP COMPLIES WITH THE SPECIFICATION.

TIMBER

- T.1 FABRICATE, FIX AND ERECT ALL STRUCTURAL TIMBER MEMBERS IN ACCORDANCE WITH AS 1684, AS 1720 AND THE TIMBER FRAMING MANUAL.
- T.2 CARRY OUT ALL STRUCTURAL TIMBER CONSTRUCTION UNDER THE SUPERVISION OF A PERSON CONVERSANT WITH THE REQUIREMENTS OF AS 1684, AS 1720 AND THE TIMBER FRAMING MANUAL.
- T.3 TIMBER TYPES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. F11 UNSEASONED YELLOW STRINGY BARK OF MINIMUM DURABILITY CLASS 2.
- T.4 DECKING SHALL BE IN SINGLE LENGTHS.
- T.5 ALL TIMBER USED SHALL BE SELECT STOCK FREE FROM WARPS, WAINS & EXCESSIVE KNOTS. ALLOW TO REPLACE ANY TIMBER WHICH EXHIBITS DEFECTS DURING THE CONTRACT MAINTENANCE PERIOD.

REFURBISHMENT OF POVERTY POINT BRIDGE
WALHALLA
STRUCTURAL FRAMING PLAN, ELEVATION & SECTIONS

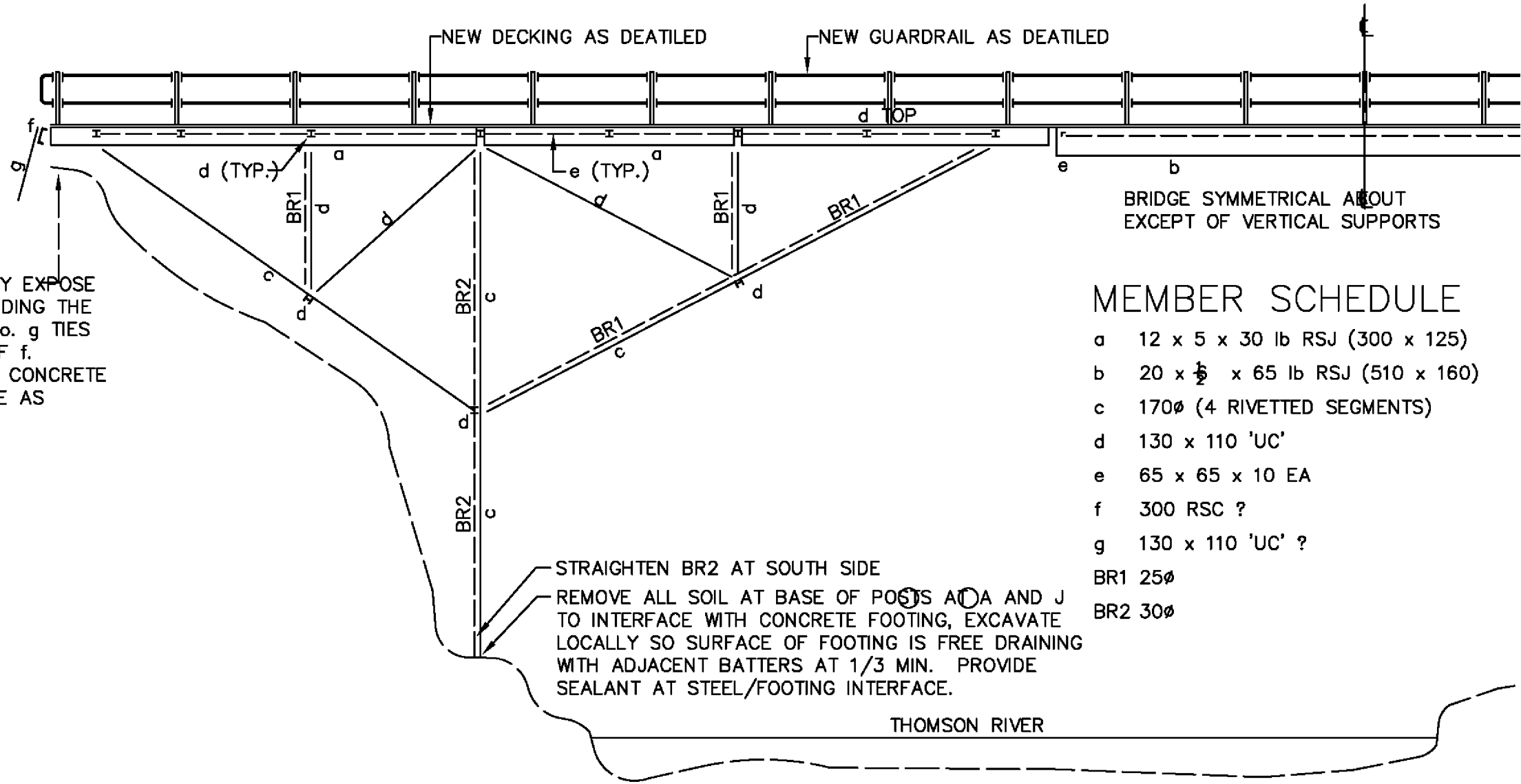
DRG. No. 99094-2
DESIGNED F.P.
APPROVED _____
DATE 16-3-01
SCALE 1:200
FILE No. 909402



- NOTE:
1. FOR NOTES REFER TO DRG. No. 99094-1.
 2. REFER TO DRG. No. 99094-3 FOR MEMBER SIZES AND NEW HANDRAIL.

REFURBISHMENT OF POVERTY POINT BRIDGE
WALHALLA
FRAMING DETAILS

DRG. No. 99094-3
DESIGNED F.P.
APPROVED
DATE 16-3-01
SCALE 1:100
FILE No. 909402



EXCAVATE TO COMPLETELY EXPOSE BRIDGE STRUCTURE INCLUDING THE TOP 500mm OF THE 2 No. g TIES BELOW THE UNDERSIDE OF f. REPAIR g IF INSTRUCTED, CONCRETE ENCASE g AND REINSTATE AS DETAIL 'c'.

STRAIGHTEN BR2 AT SOUTH SIDE
REMOVE ALL SOIL AT BASE OF POSTS A AND J TO INTERFACE WITH CONCRETE FOOTING, EXCAVATE LOCALLY SO SURFACE OF FOOTING IS FREE DRAINING WITH ADJACENT BATTERS AT 1/3 MIN. PROVIDE SEALANT AT STEEL/FOOTING INTERFACE.

MEMBER SCHEDULE

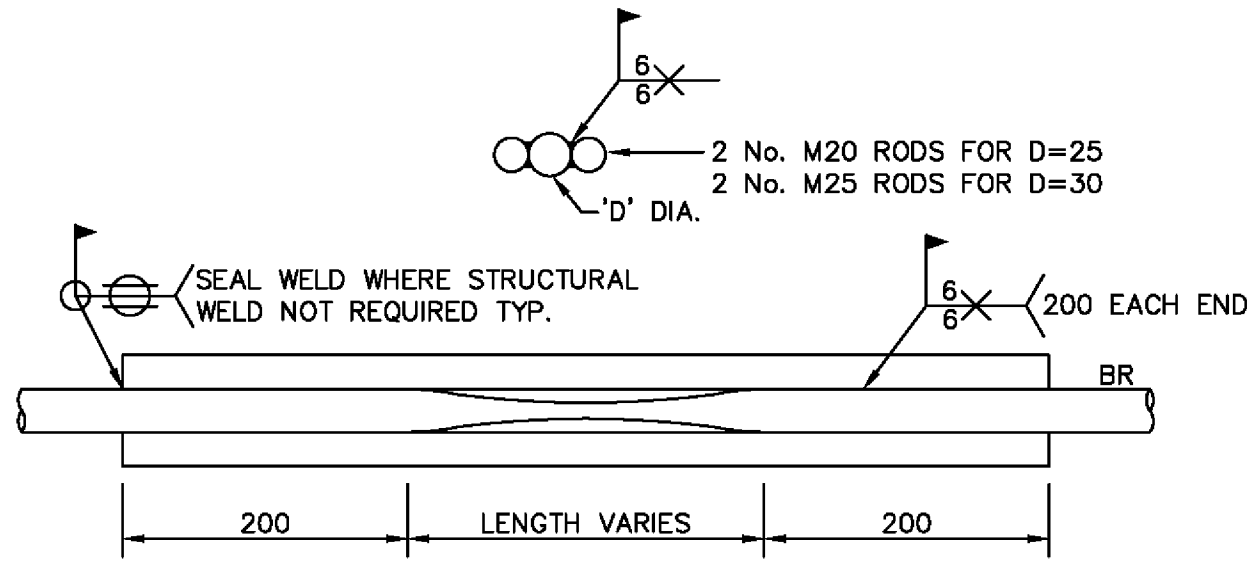
- a 12 x 5 x 30 lb RSJ (300 x 125)
- b 20 x $\frac{1}{2}$ x 65 lb RSJ (510 x 160)
- c 170 ϕ (4 RIVETTED SEGMENTS)
- d 130 x 110 'UC'
- e 65 x 65 x 10 EA
- f 300 RSC ?
- g 130 x 110 'UC' ?
- BR1 25 ϕ
- BR2 30 ϕ

NOTE:

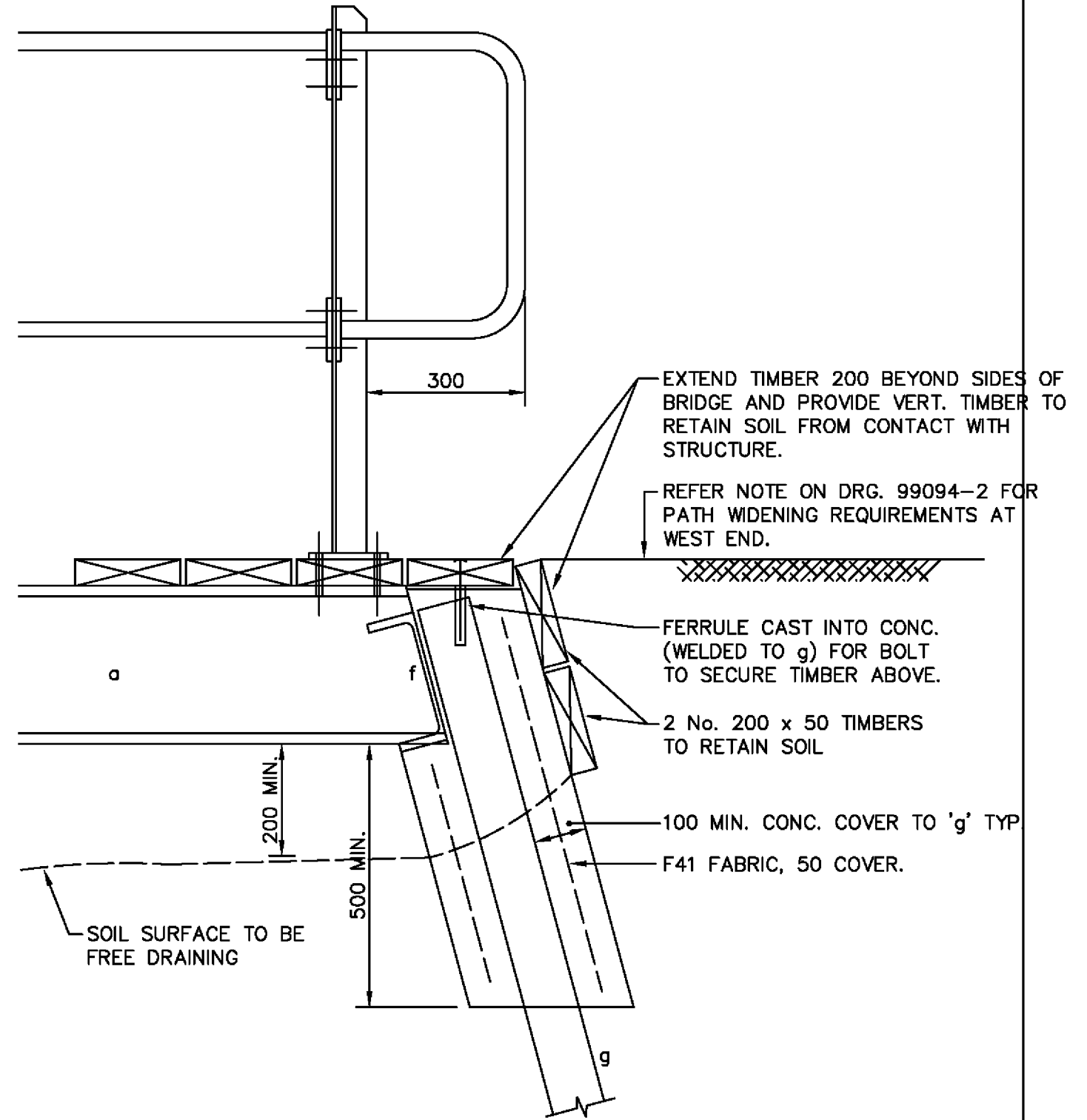
1. ALL MEMBER SIZES & DIMENSIONS ARE APPROXIMATE ONLY, CONFIRM ACTUAL SIZES ON SITE IF NECESSARY.
2. FOR NOTES REFER TO DRG. No. 99094-1.

REFURBISHMENT OF POVERTY POINT BRIDGE
WALHALLA
DETAILS

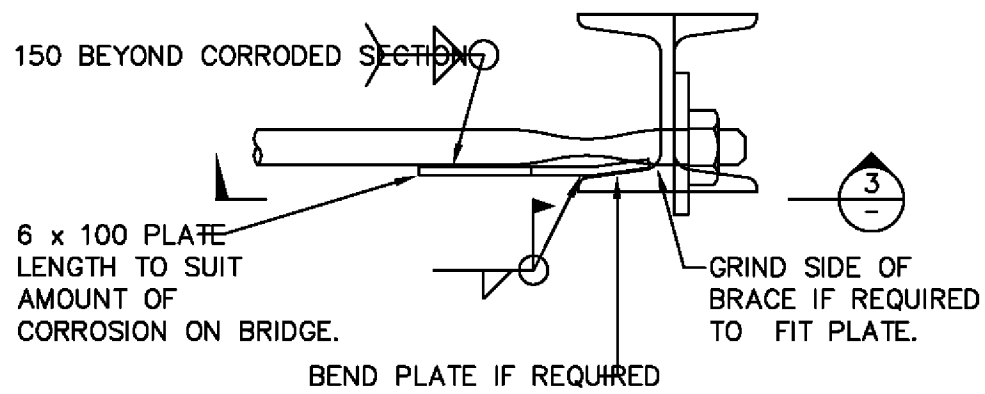
DRG. No. 99094-5
DESIGNED F.P.
APPROVED _____
DATE 16-3-01
SCALE AS NOTED
FILE No. 909402



DETAIL 'b'
SCALE 1 : 5



DETAIL 'c' REINSTATEMENT AT ENDS
SCALE 1 : 10

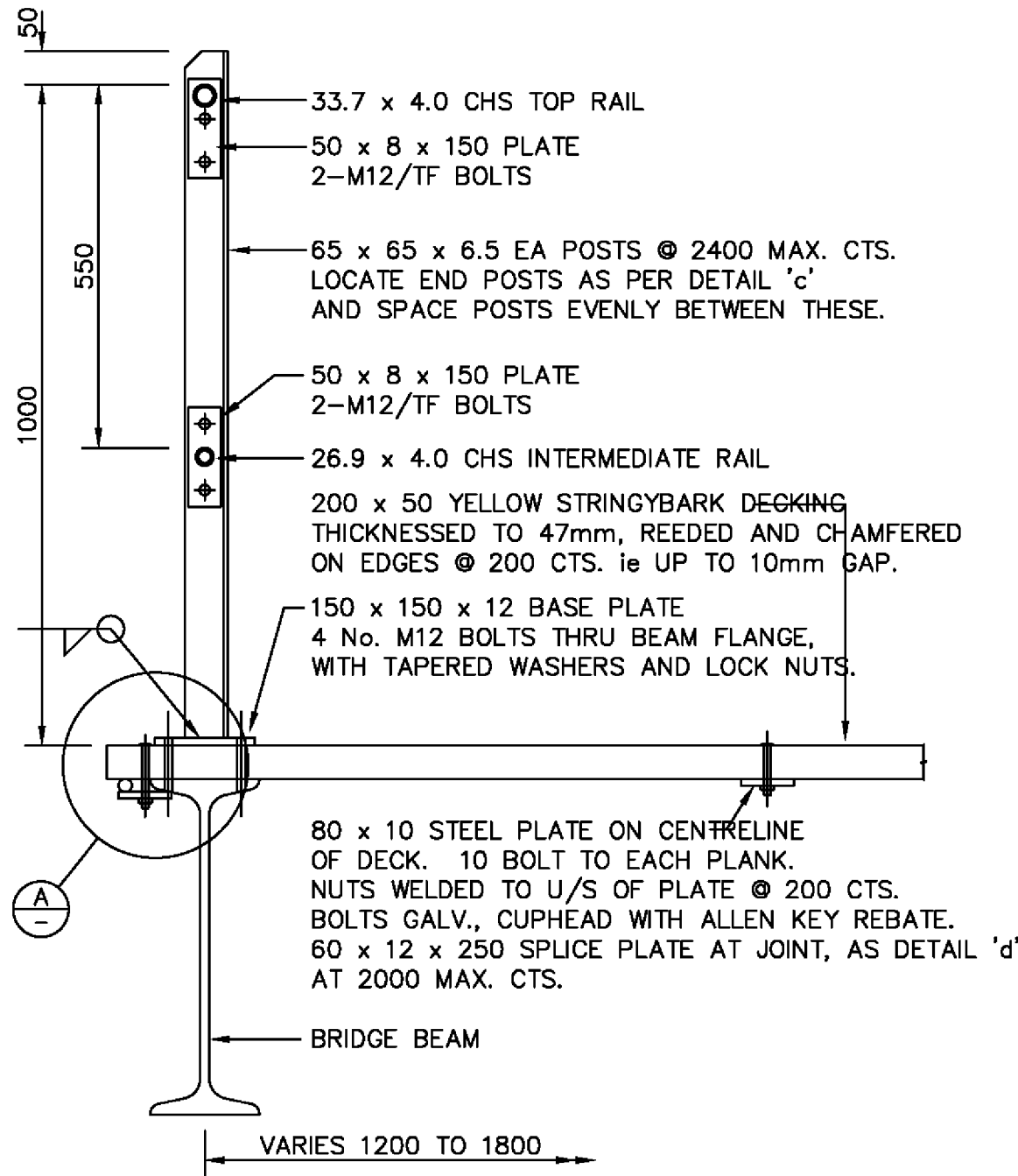


DETAIL 'a' - PLAN
SCALE 1 : 5

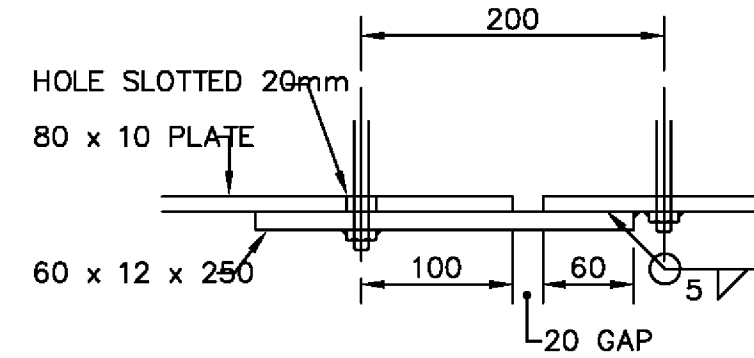
SCALE 1 : 5 (3)

NOTE:

1. FOR NOTES REFER TO DRG. No. 99094-1.

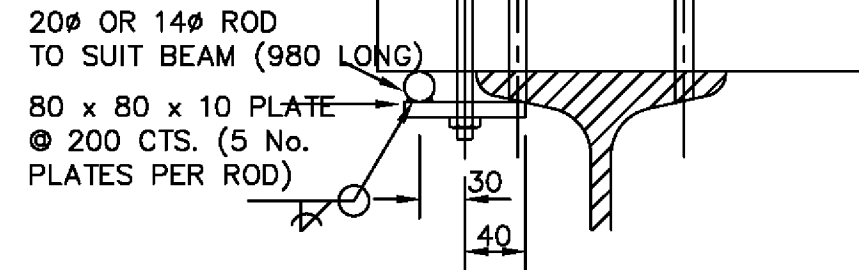


TIMBER DECK AND GUARDRAIL DET,
SCALE 1 : 10



SPLICE DETAIL 'd'
SCALE 1 : 5

SITE DRILL HOLE IN TIMBER,
BOLT HARD UP AT EDGE
OF BEAM.
10 HOT DIP GALV.
COACH SCREWS



SCALE 1 : 5

NOTE:

1. FOR NOTES REFER TO DRG. No. 99094-1.