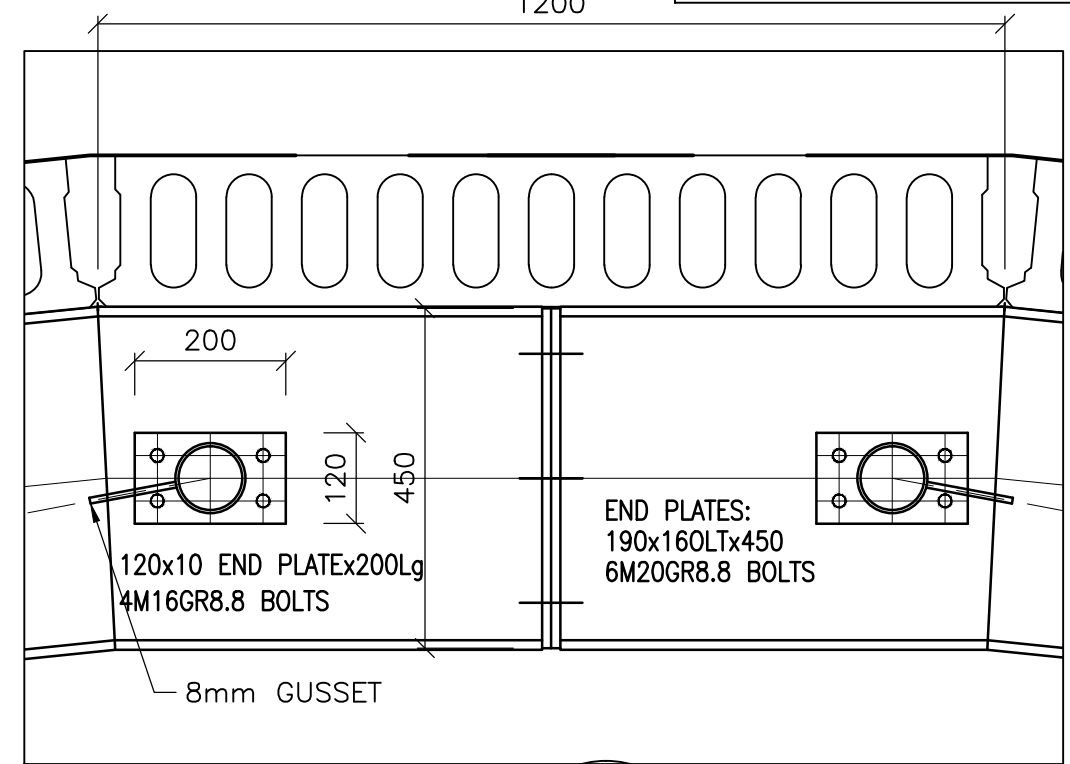
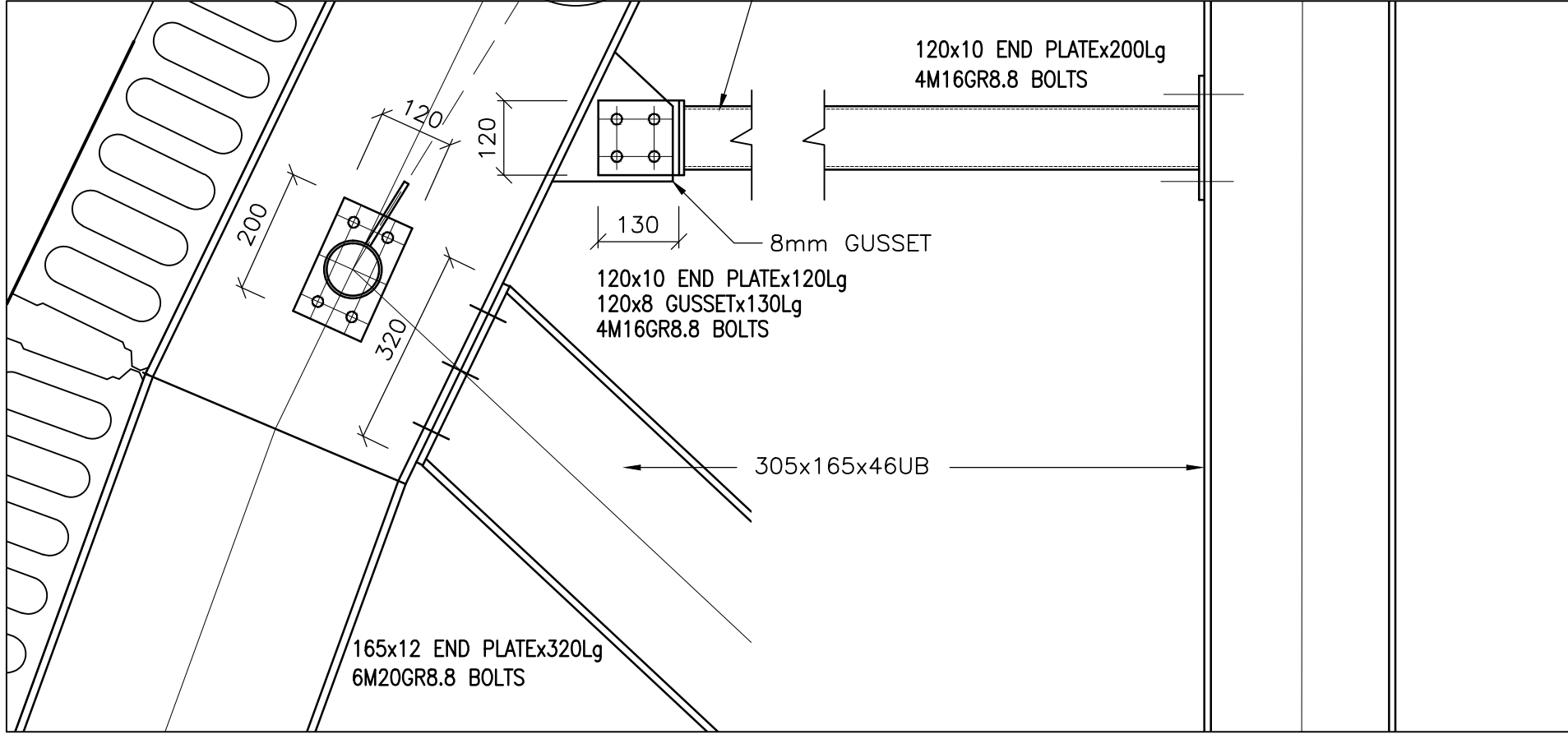


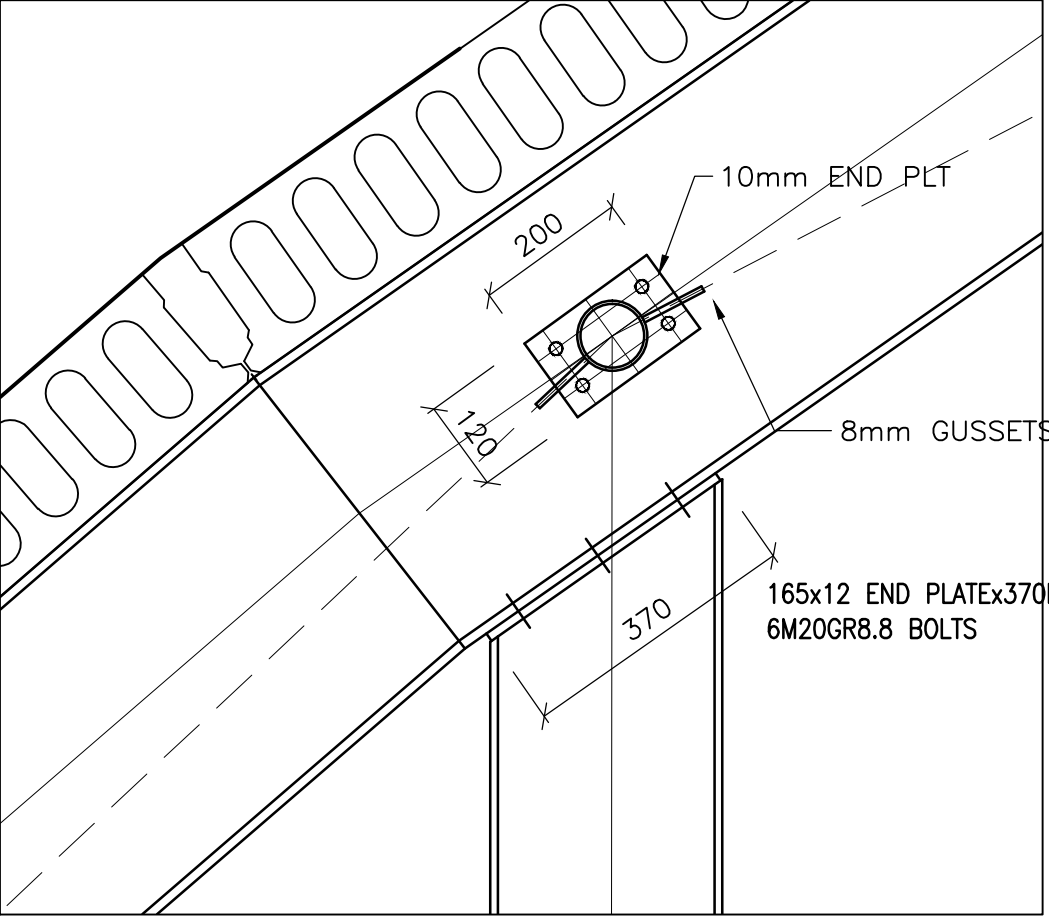
- J. STRUCTURAL STEELWORK:**
1. ALL STRUCTURAL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SABS 1200 H.
  2. WELDS SHALL CONFORM TO SABS 0167 – 1984 AND 044 SPES.
  3. ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE SHOP DRAWINGS COMMENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
  4. A COMPLETE SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION COMMENCES.
  5. ALL STRUCTURAL STEELWORK SHALL BE GRADE S355JR.
  6. ALL STRUCTURAL BOLTS SHALL BE GRADE 8.8 UNLESS OTHERWISE NOTED.
  7. WHERE TEMPORARY BRACING OR PROPPING IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL (WHERE NECESSARY) OF SUCH SUPPORTS. IF SPLICES IN TRUSSES ARE REQUIRED BECAUSE OF TRANSPORT, PROPOSAL OF THIS SHALL BE SUBMITTED TO THE ENGINEER AT AN EARLY STAGE FOR WRITTEN APPROVAL.
  8. CORROSION PROTECTION SHALL CONSIST OF:  
8.1 HOT DIPPED GALVANIZING (HEAVY DUTY)  
8.2 ALL NUTS, BOLTS AND WASHERS TO BE HOT DIPPED GALVANIZED  
8.3 ALL STEELWORK BELOW GROUND TO BE PAINTED WITH EPOXY-TAR AS WELL.
  9. WHERE APPLICABLE, GROUT SHALL BE PROVIDED UNDER BASE PLATES BEFORE ANY PRIMARY LOADS ARE APPLIED TO THE STRUCTURE.
  10. ALL WELDING TO BE 6mm FILLET WELD UNLESS OTHERWISE SHOWN.



DETAIL D5  
SCALE 1:10



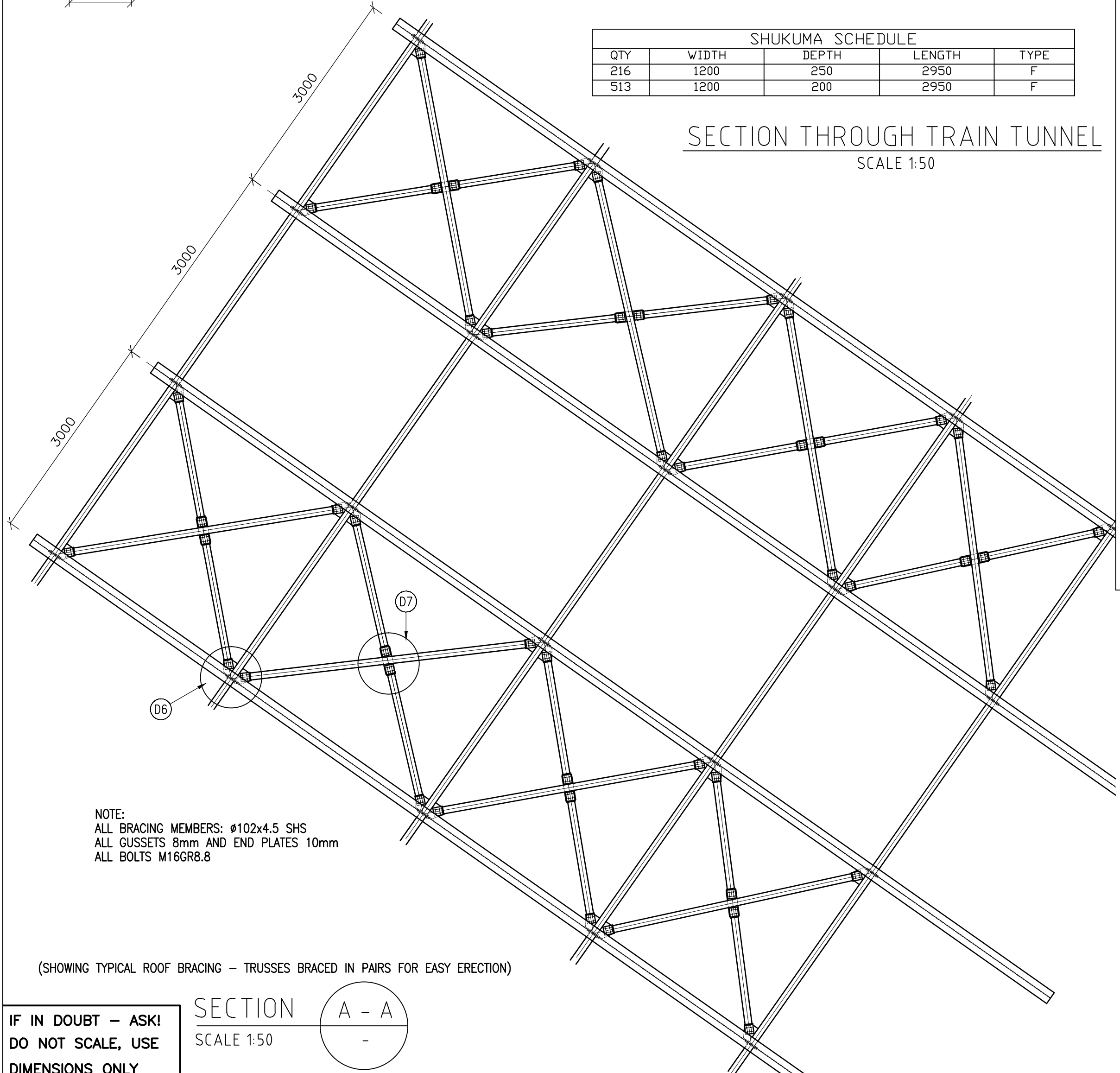
DETAIL D3  
SCALE 1:10



DETAIL D4  
SCALE 1:10

SHUKUMA SCHEDULE				
QTY	WIDTH	DEPTH	LENGTH	TYPE
216	1200	250	2950	F
513	1200	200	2950	F

SECTION THROUGH TRAIN TUNNEL  
SCALE 1:50

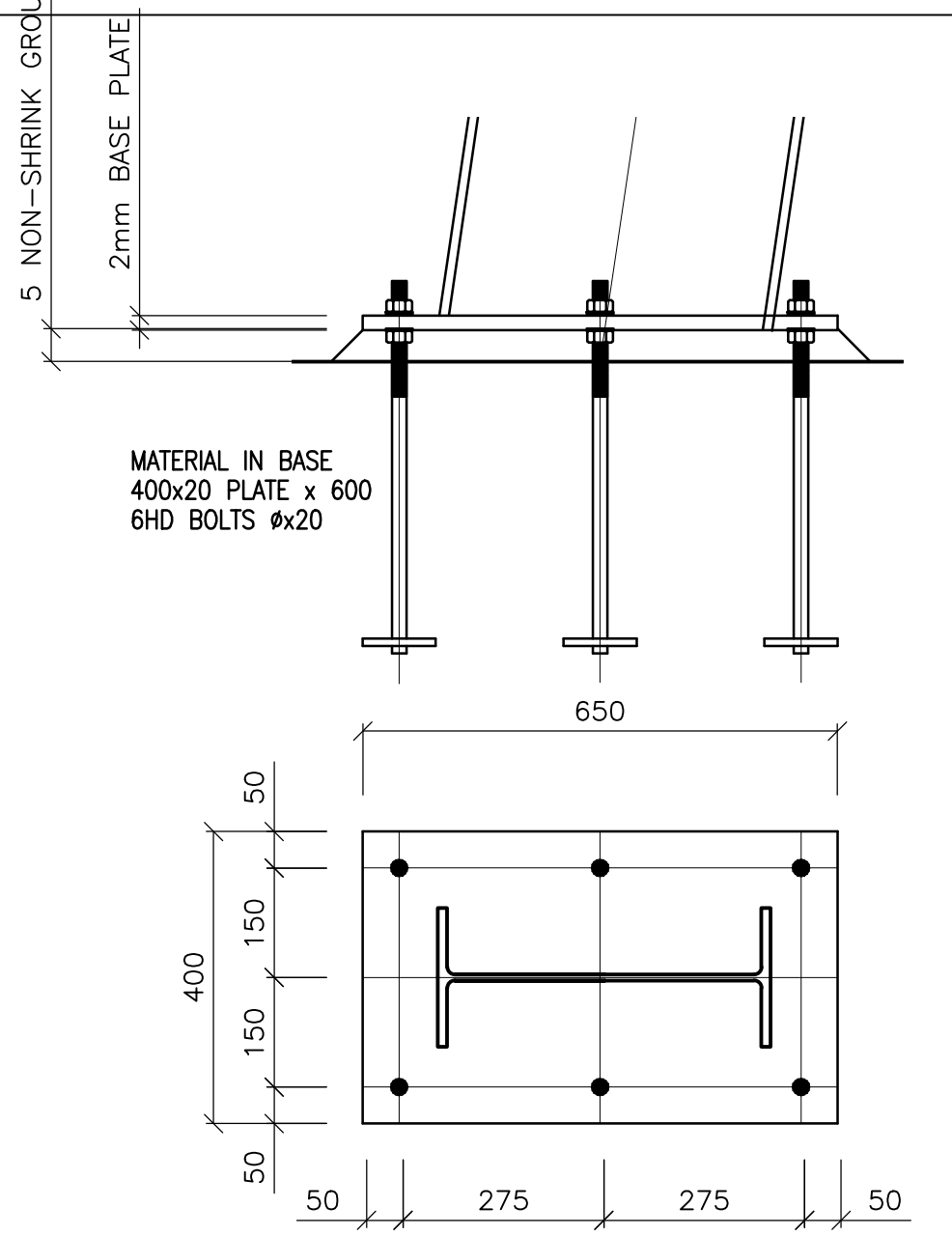


NOTE:  
ALL BRACING MEMBERS: Ø102x4.5 SHS  
ALL GUSSETS 8mm AND END PLATES 10mm  
ALL BOLTS M16GR8.8

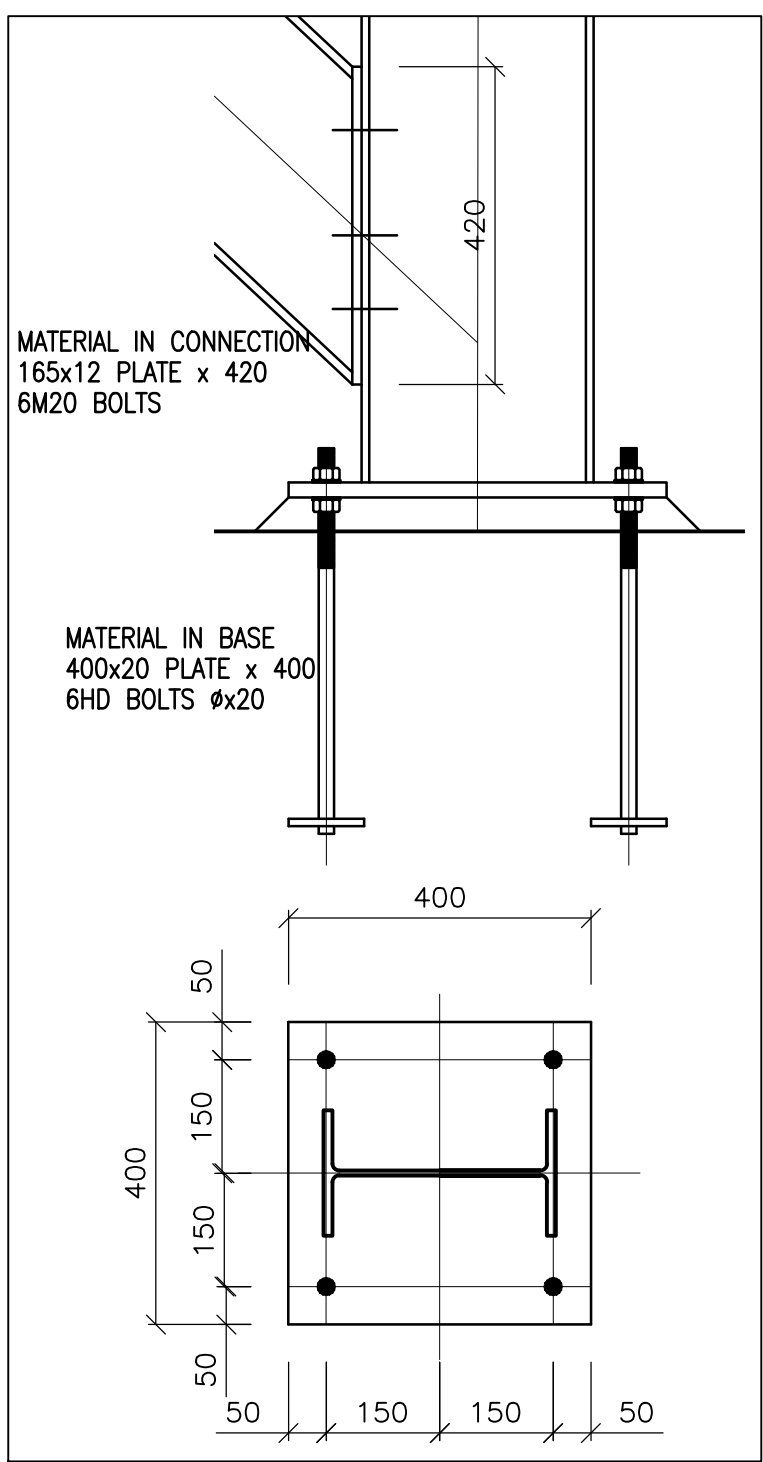
(SHOWING TYPICAL ROOF BRACING – TRUSSES BRACED IN PAIRS FOR EASY ERECTION)

IF IN DOUBT – ASK!  
DO NOT SCALE, USE  
DIMENSIONS ONLY

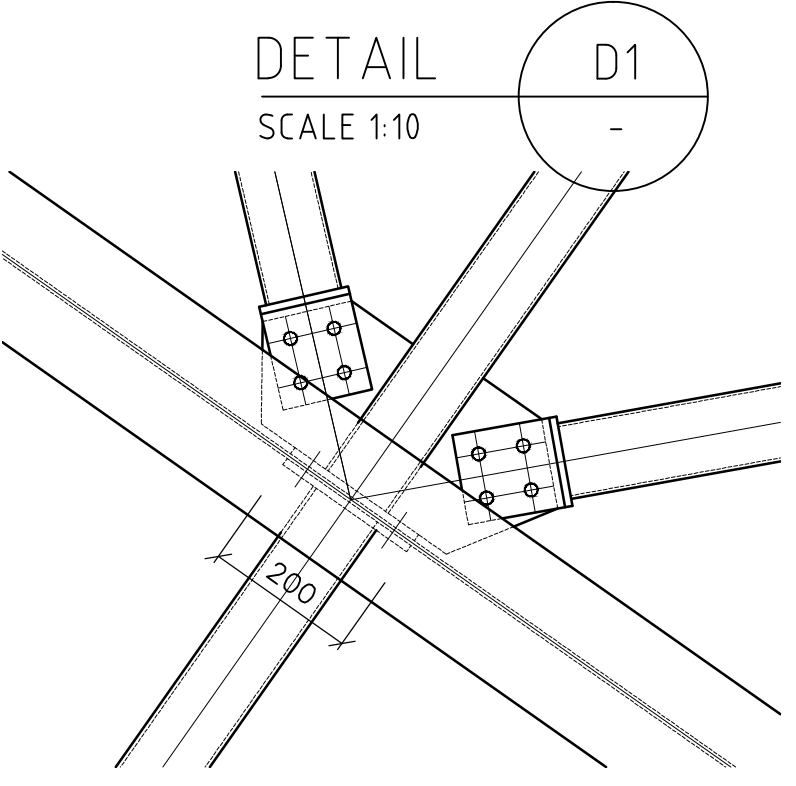
SECTION A – A  
SCALE 1:50



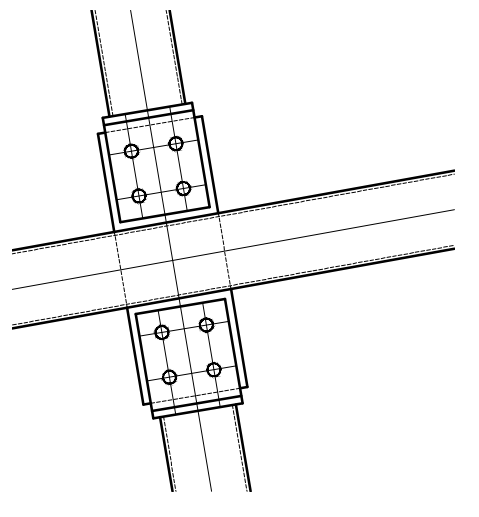
DETAIL D1  
SCALE 1:10



DETAIL D2  
SCALE 1:10



DETAIL D6  
SCALE 1:100



DETAIL D7  
SCALE 1:10

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN ANY FORM WITHOUT THE PRIOR WRITTEN CONSENT OF G SQUARED PROJECT MANAGEMENT (PTY) LTD

A	2021/04/27	RAFTERS CHANGED TO SEGMENTS			DBG
NO.	DATE	REVISION			DRAWN
<b>G SQUARED PROJECT MANAGEMENT (PTY) LTD</b> Project managers & Consulting Engineers 1 Kingston Road Adcockvale Port Elizabeth Tel: 041 374 1551 Cell: 084 444 9478 Fax: 086 546 1324 Email: don@gsquaredpm.com					
CLIENT <b>NETWORKING FOR ANIMALS</b>					
ARCHITECT / MAIN AGENT <b>G SQUARED ARCHITECTURAL</b>					
PROJECT <b>ADD ELEPHANT BRIDGE OVER ROAD AND TRAIN</b>					
DRAWING TITLE <b>TRAIN TUNNEL TYPICAL DETAILS STRUCTURAL STEELWORK IN PORTAL</b>					
DESIGNED	DBG	DATE	2020/08	SHEET SIZE	A1
DRAWN	DBG	DATE	2020/12/16	SCALE	
CHECKED					
DP3976- - S-003P A					
REVISION	A				