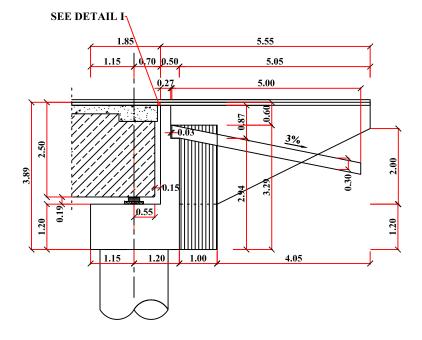


Scale 1:100



Section A-A at Abutment Scale 1:100

IQ-17-001

JAPANESE BRIDGE ARCHITECTURAL & CIVIL ENGINEERING DESIGN SERVICES

AL-ANBAR - IRAQ

GENERAL DIRECTORATE FOR ROAD AND BRIDGES

CIVIL DESIGN

MUHANED SHALLAL

ABUTMENT

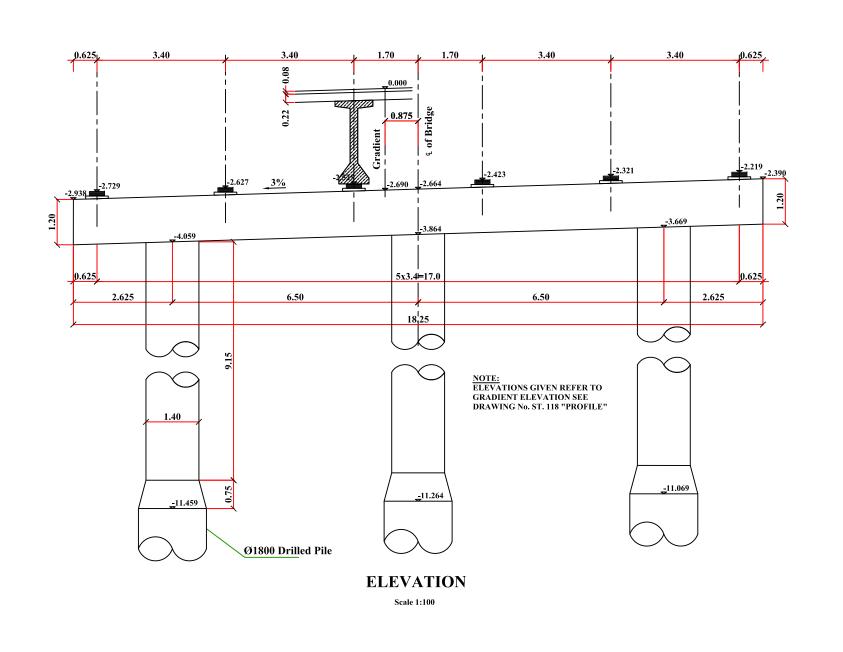
ST.122 AS SHOWING

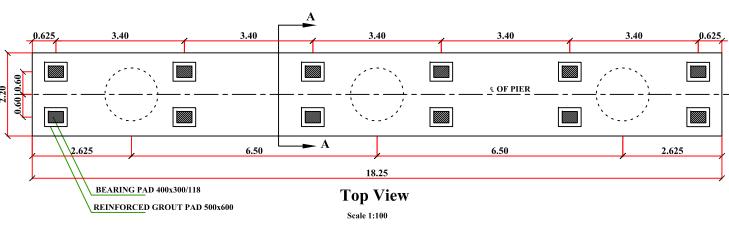
MUHANED SHALLAL

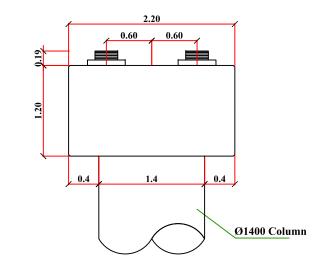
MARCH 2017



REFERENCE: REFERENCE:
CONTRACT DRAWINGS
STRUCTURES, PART SIX, VOLUME A
R9/A, SECTION: BAGHD. WEST-HABBANIYA
S.54.1 THARTHAR CANAL BRIDGE

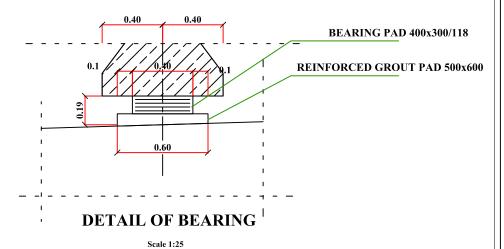


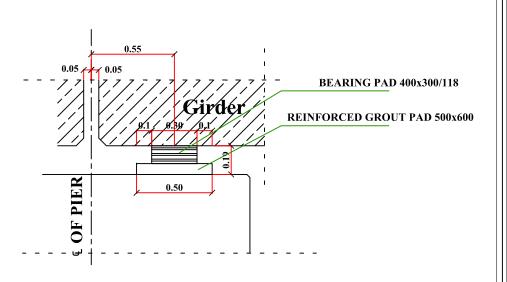


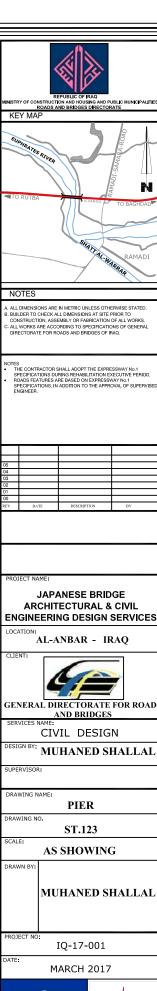


Section A-A at Pier

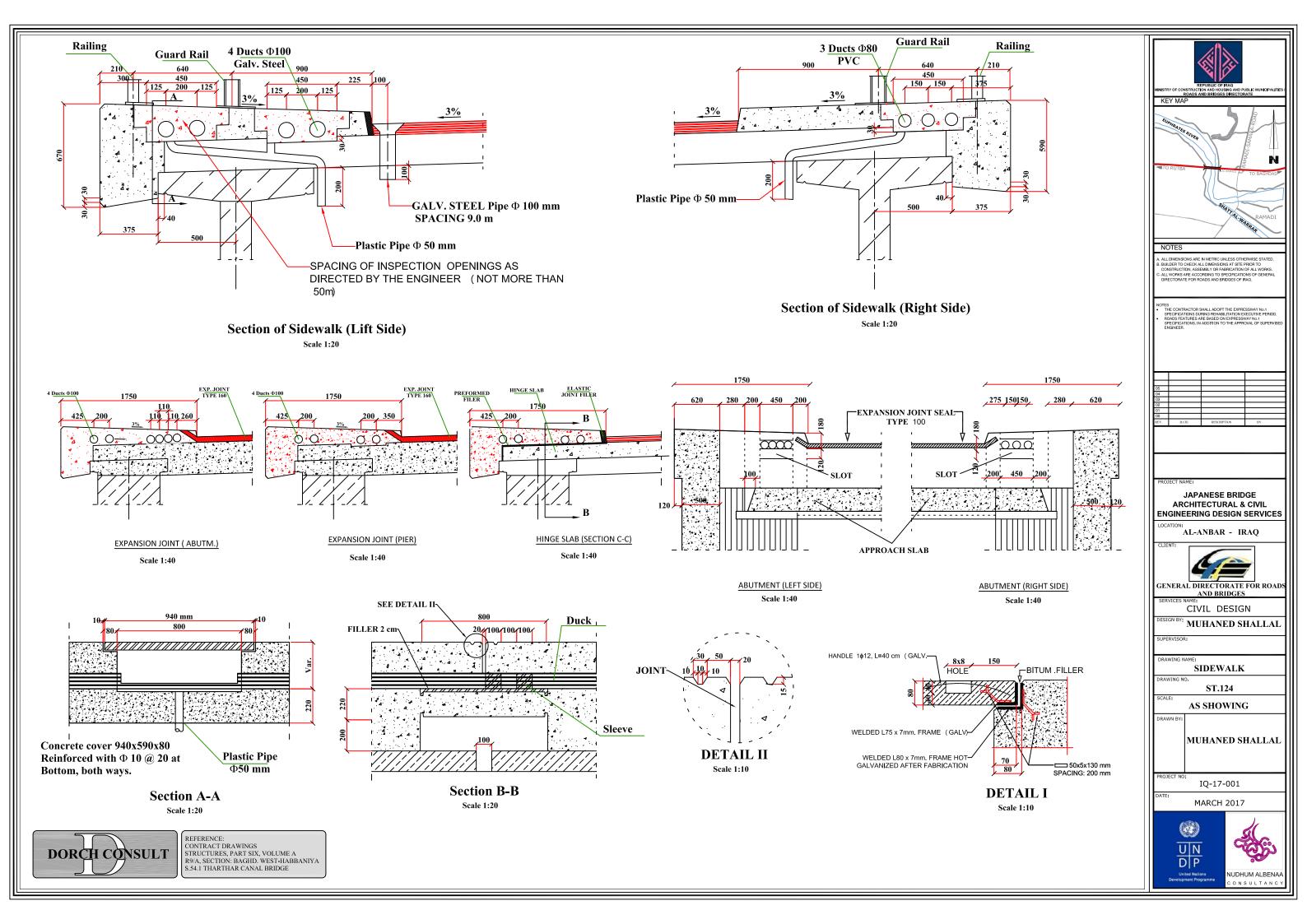
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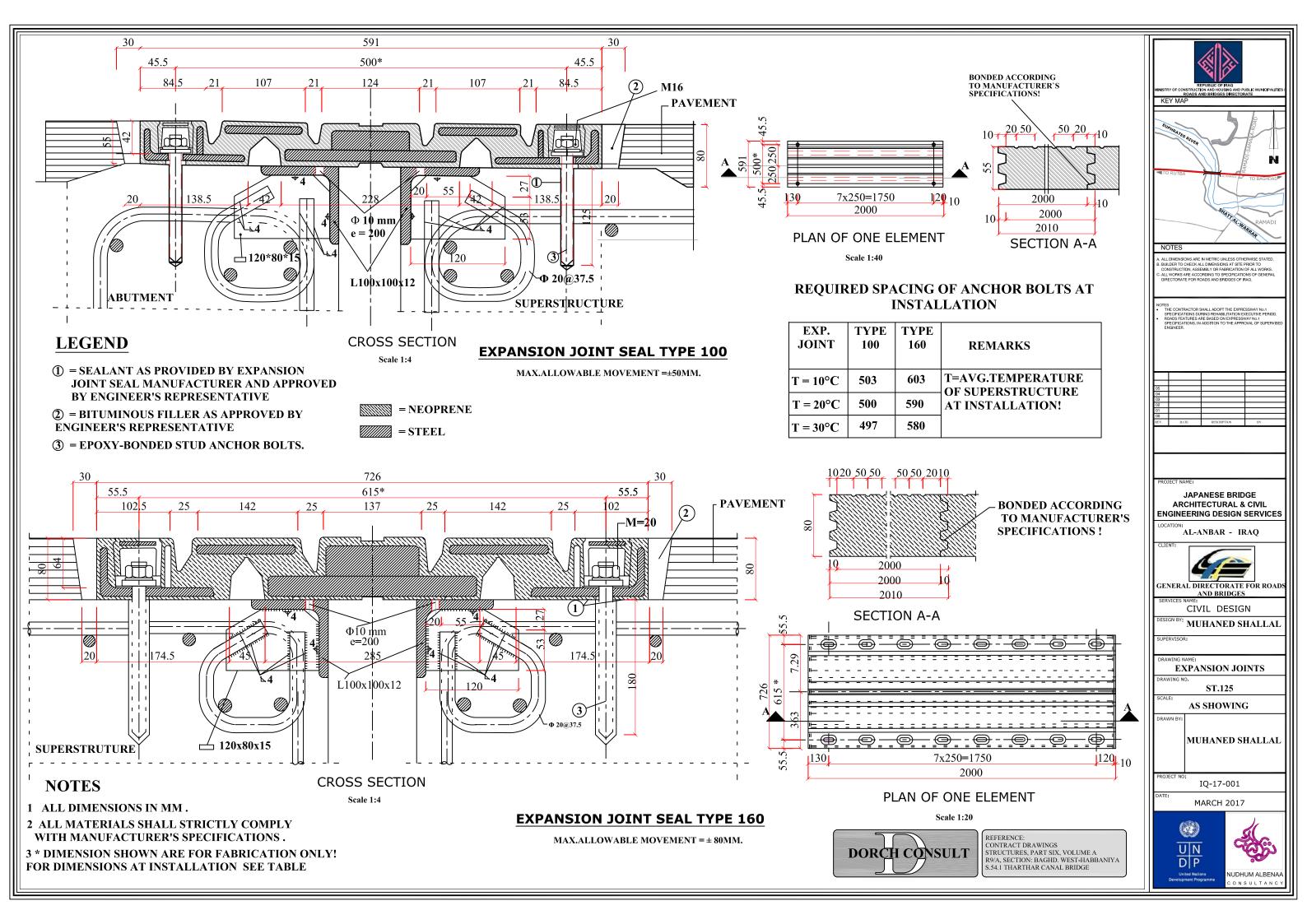


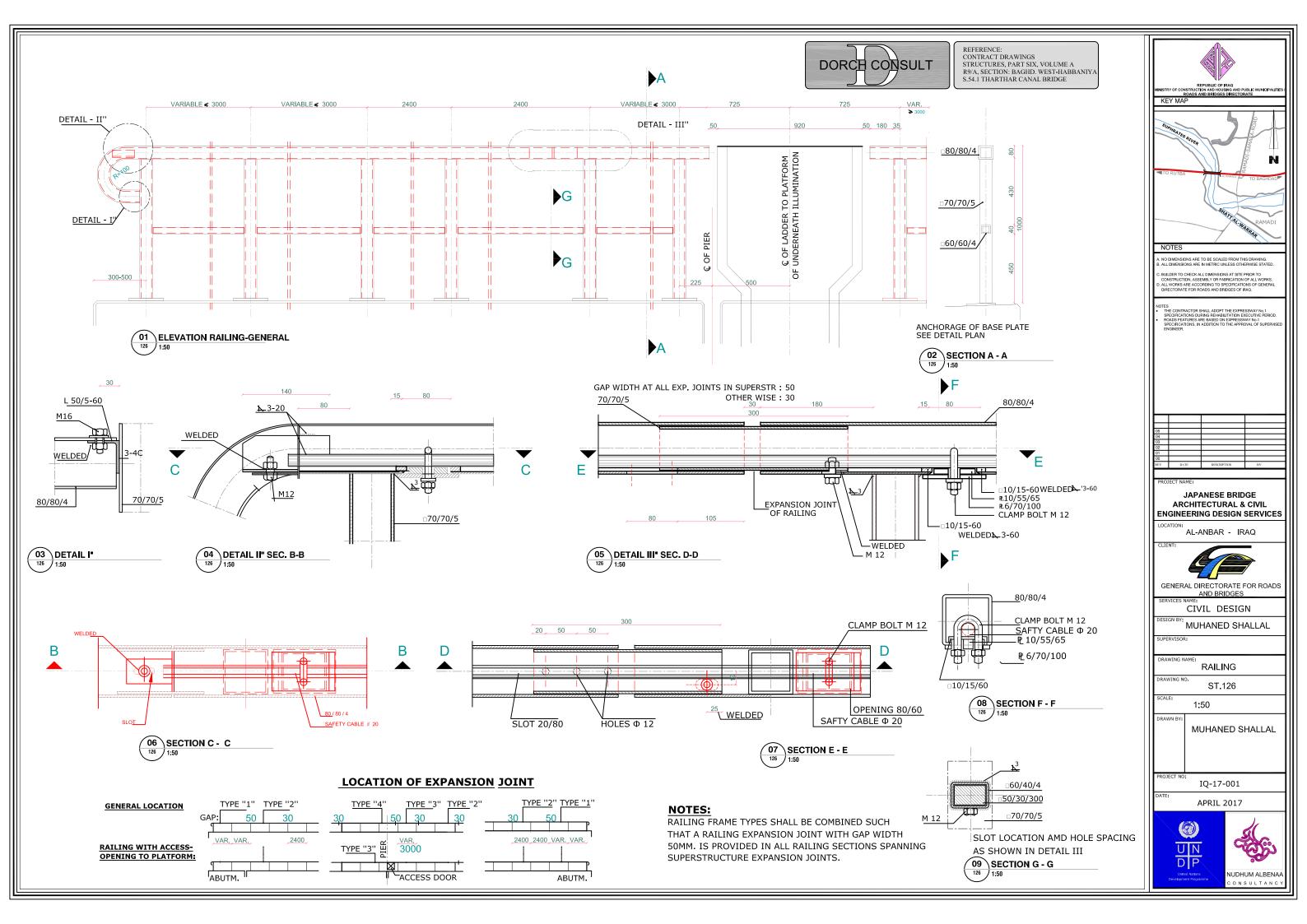


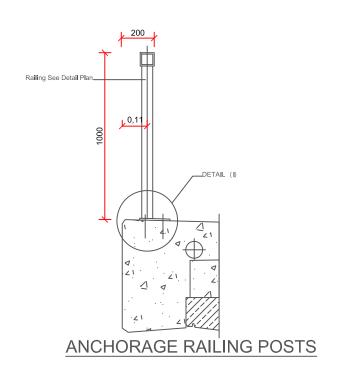






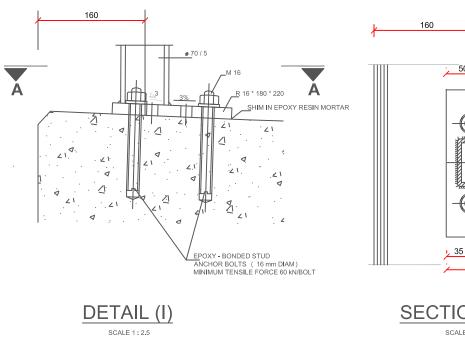






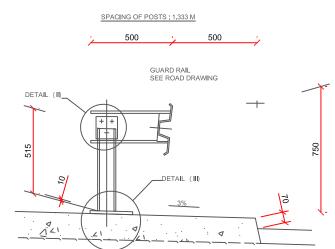
CROSS SECTION

SCALE 1:10





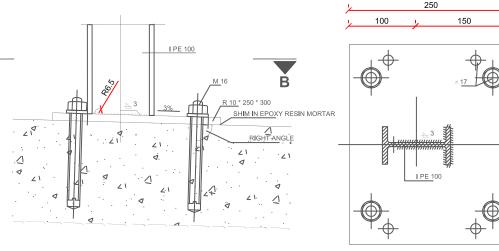
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ANCHORAGE GUARD RAIL POSTS

CROSS SECTION

SCALE 1:10

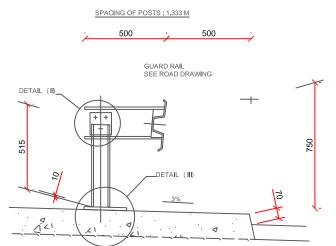


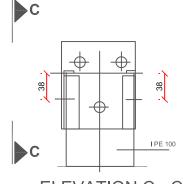
SCALE 1:2.5

SECTION B-B SCALE 1:2.5

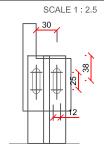
25 | 35 |

35 1,25





ELEVATION C - C



DETAIL "II"

SCALE 1:2.5



JAPANESE BRIDGE ARCHITECTURAL & CIVIL ENGINEERING DESIGN SERVICES

AL-ANBAR - IRAQ

CIVIL DESIGN

MUHANED SHALLAL

DRAWING NAME: ANCHORAGE RAILING POST AND GUARD RAIL POST

DRAWING NO. ST. 127

AS SHOWING

MUHANED SHALLAL

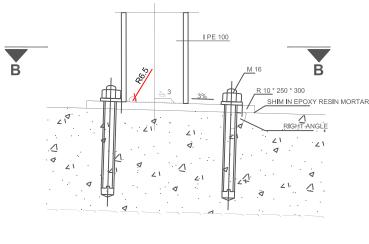
IQ-17-001

APRIL 2017

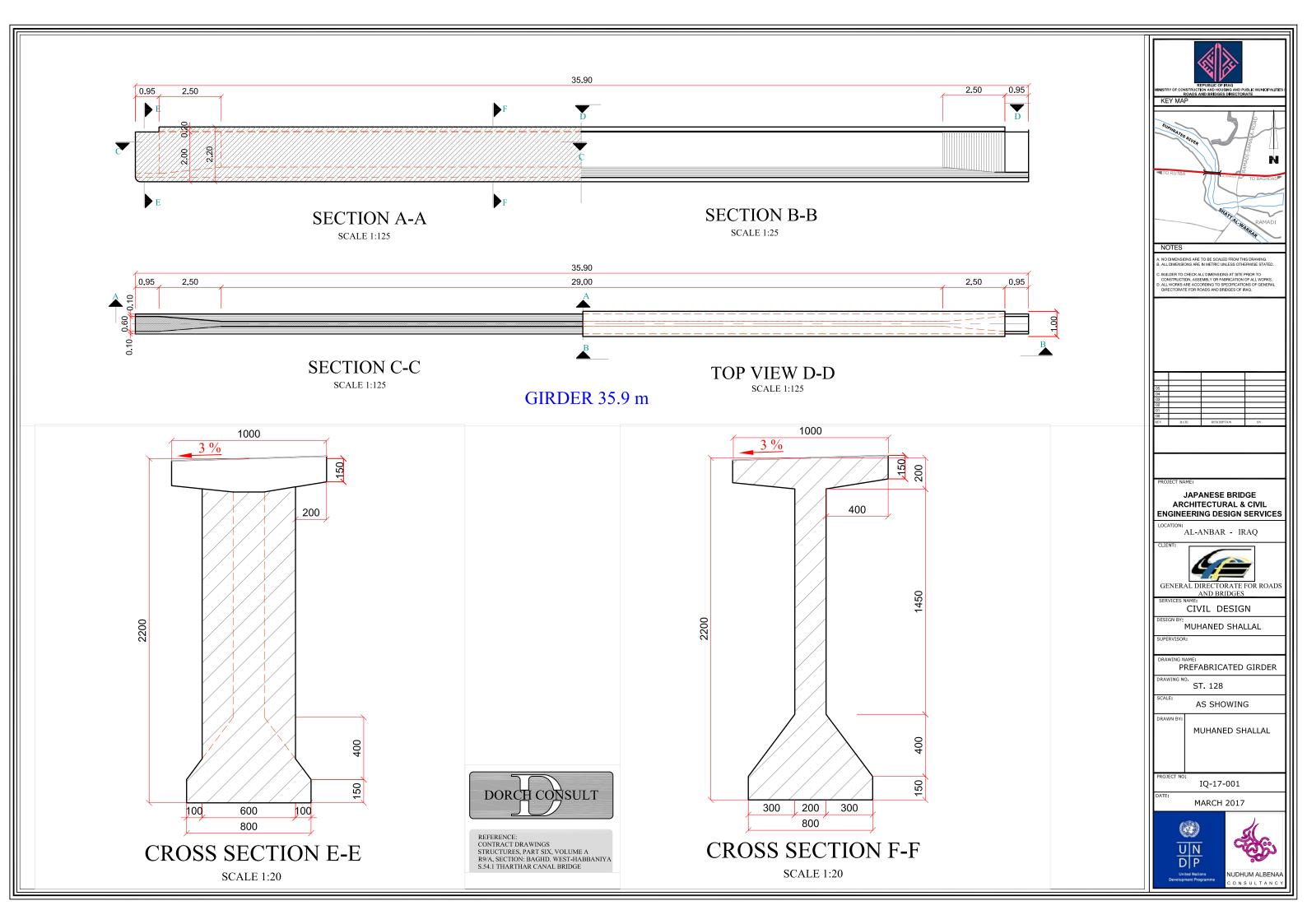


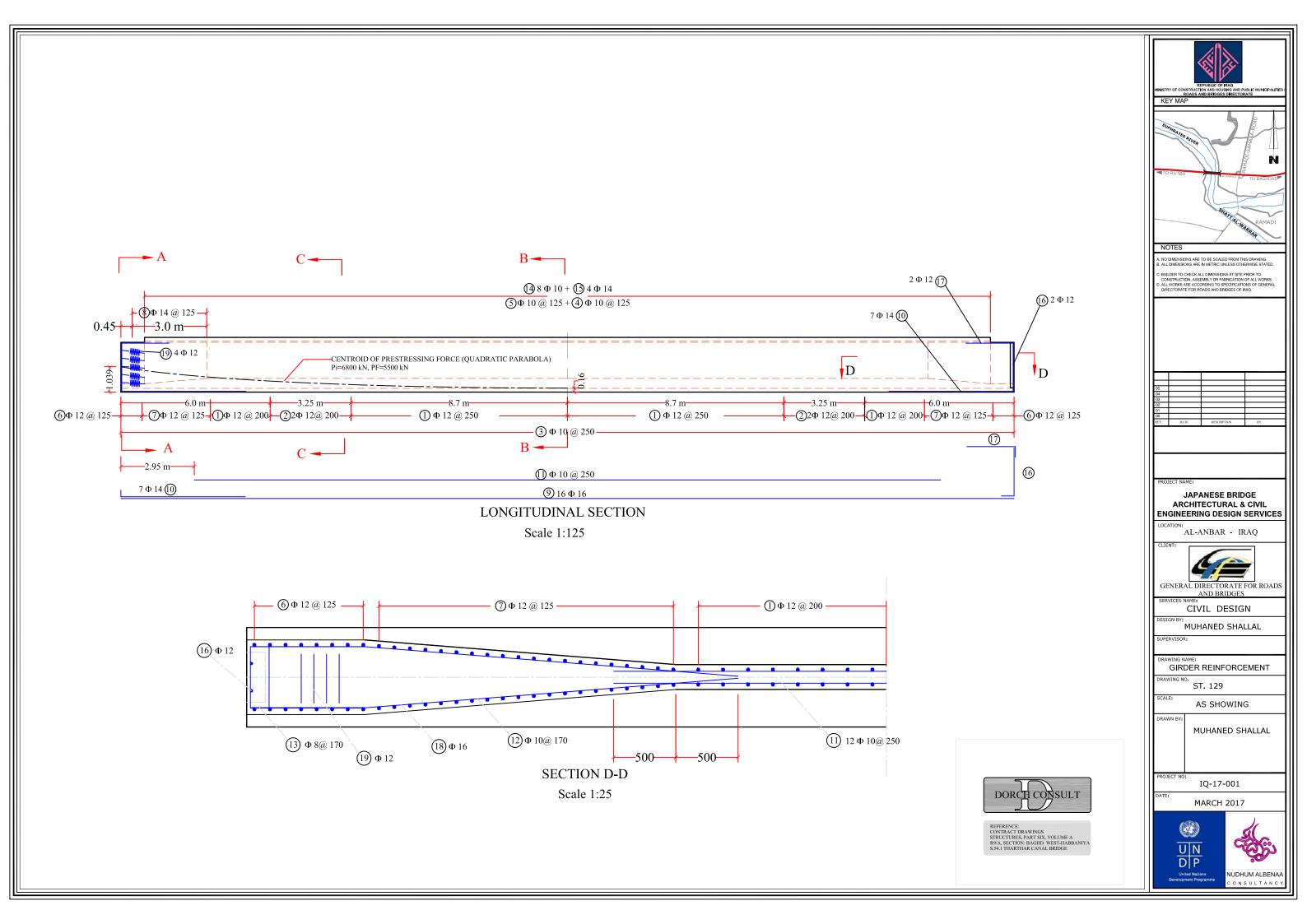


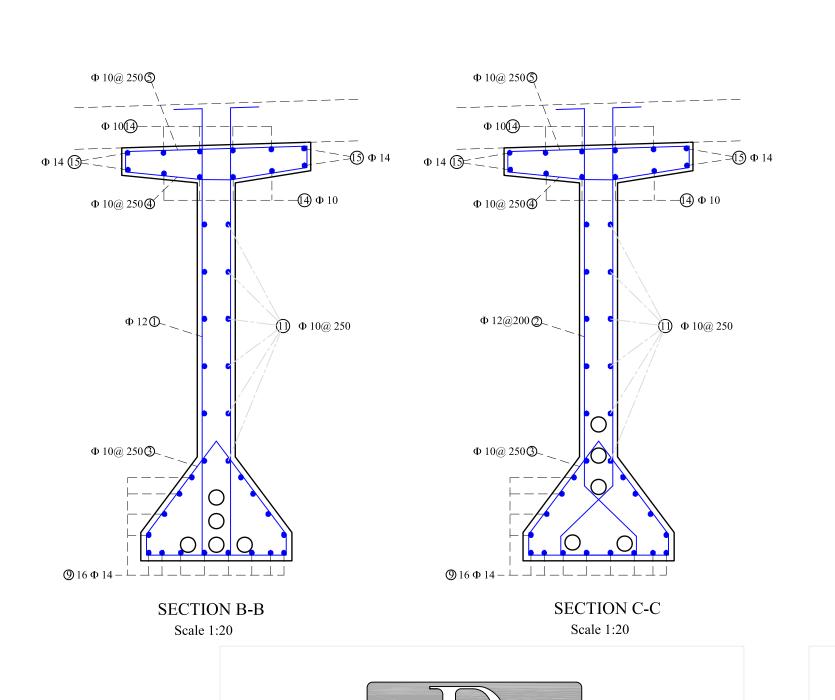
REFERENCE: CONTRACT DRAWINGS STRUCTURES, PART SIX, VOLUME A R9/A, SECTION: BAGHD, WEST-HABBANIYA S.54.1 THARTHAR CANAL BRIDGE



DETAIL (III)







DORCH CONSULT

STRUCTURES, PART SIX, VOLUME A

R9/A, SECTION: BAGHD. WEST-HABBANIYA S.54.1 THARTHAR CANAL BRIDGE

CONTRACT DRAWINGS

Ф 14@ 125®~ Φ 12 (17)--(18) Φ 14 0 0 Φ 12@ 125**%**~ (12) Φ 10@ 170 4Ф1219 per tendon Ф 10@ 250 🕄 -**(**1) 7 Ф 14

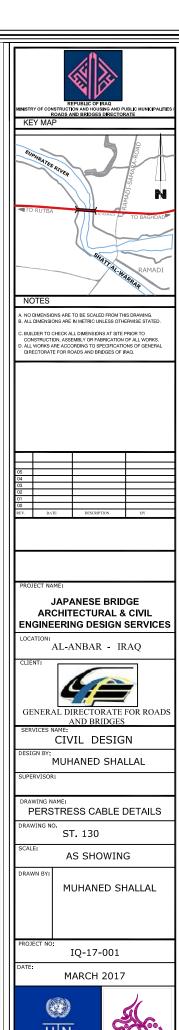
SECTION A-A

Scale 1:20

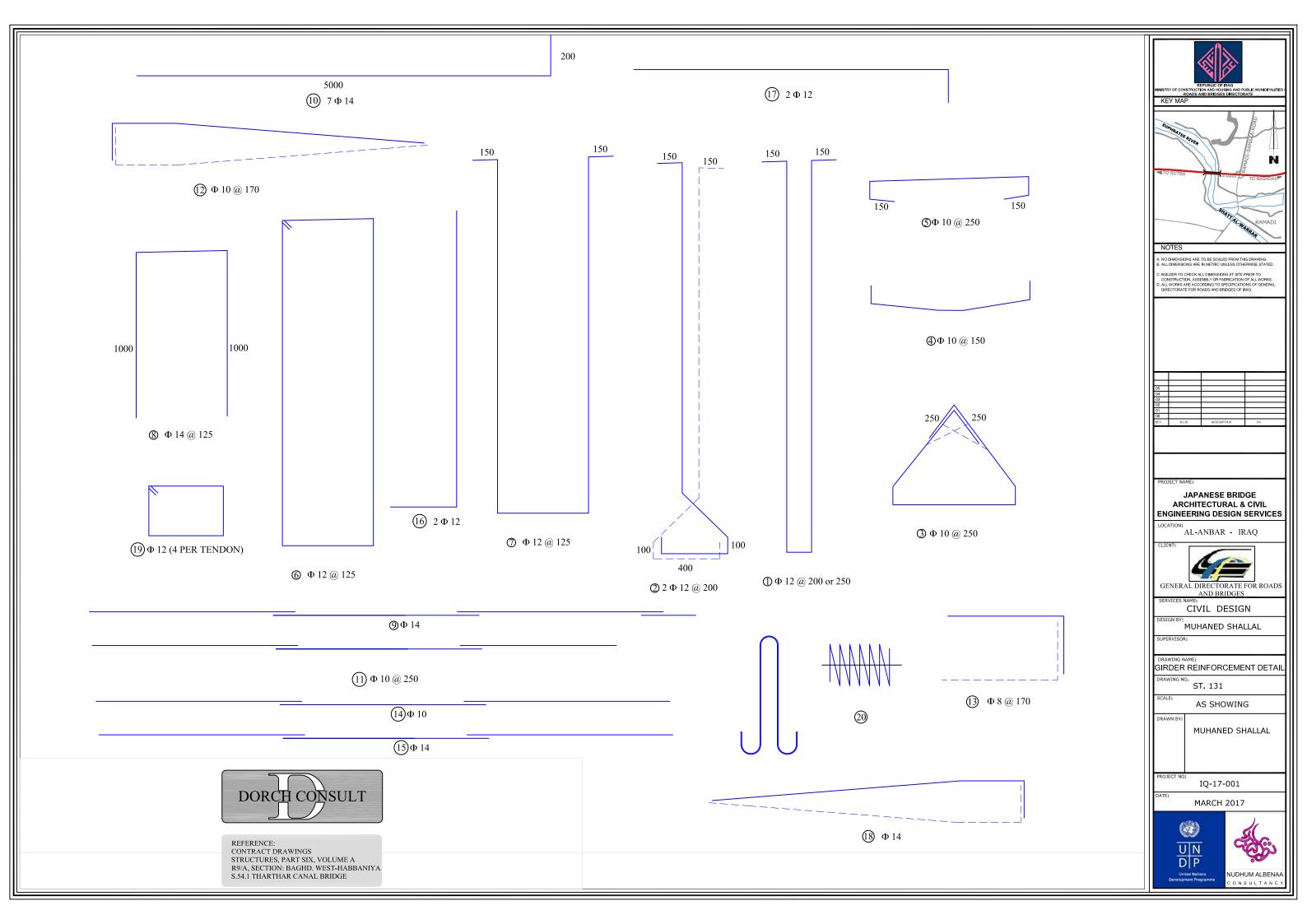
- TWO STAGES AS FOLLOWS:
 - 2 ND STAGE: 100 % OF TOTAL PRESTRESSING 3MONTHS AFTER CONCRETING WHEN NORMAL CEMENT (CLASS 350F ACC.TO DIN 1164) IS USED OR 2 MONTHS AFTER CONCRETING WHEN HIGH
- 2. THE DECK SLAB SHALL BE PLACED NOT LATER THAN 6

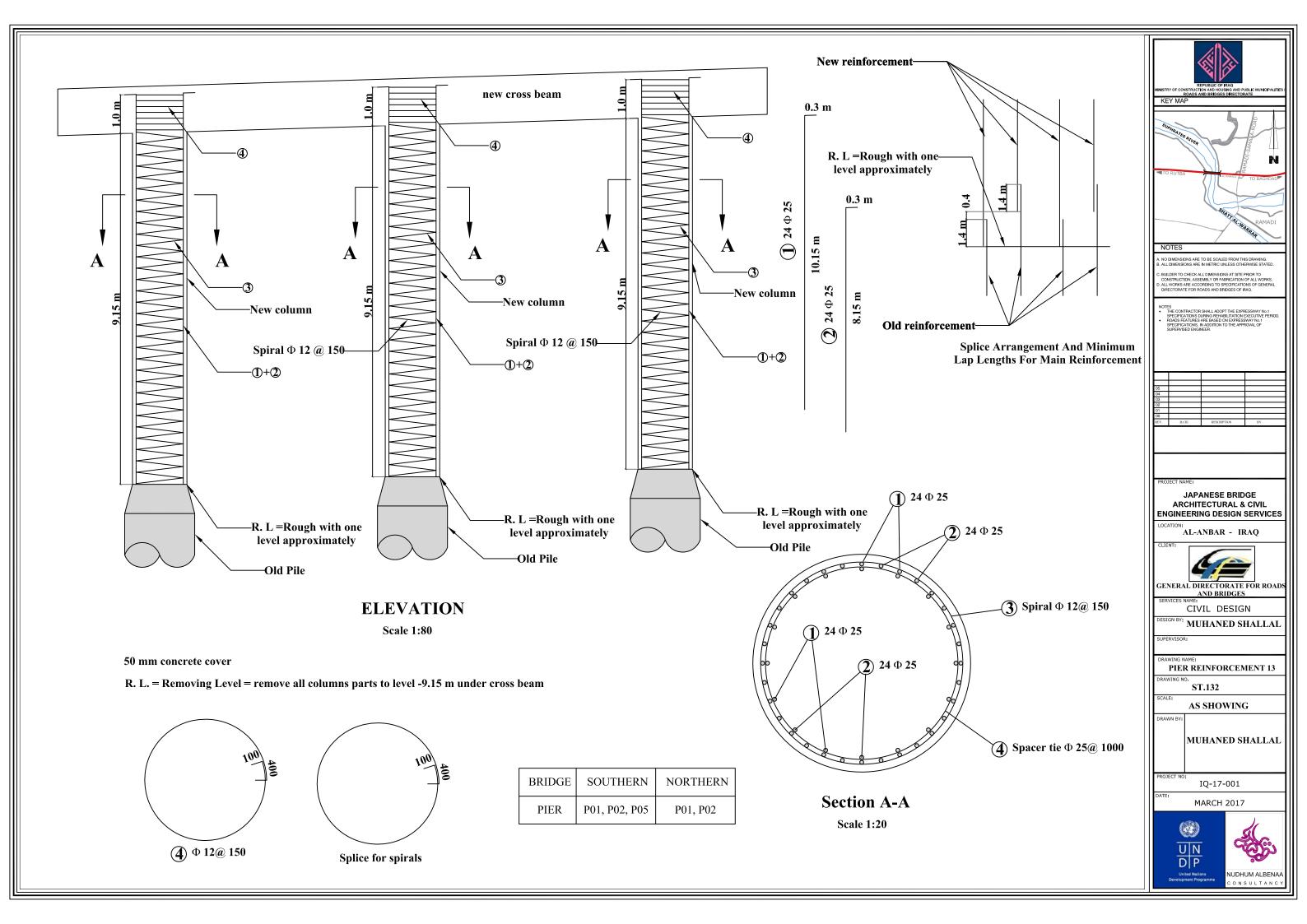


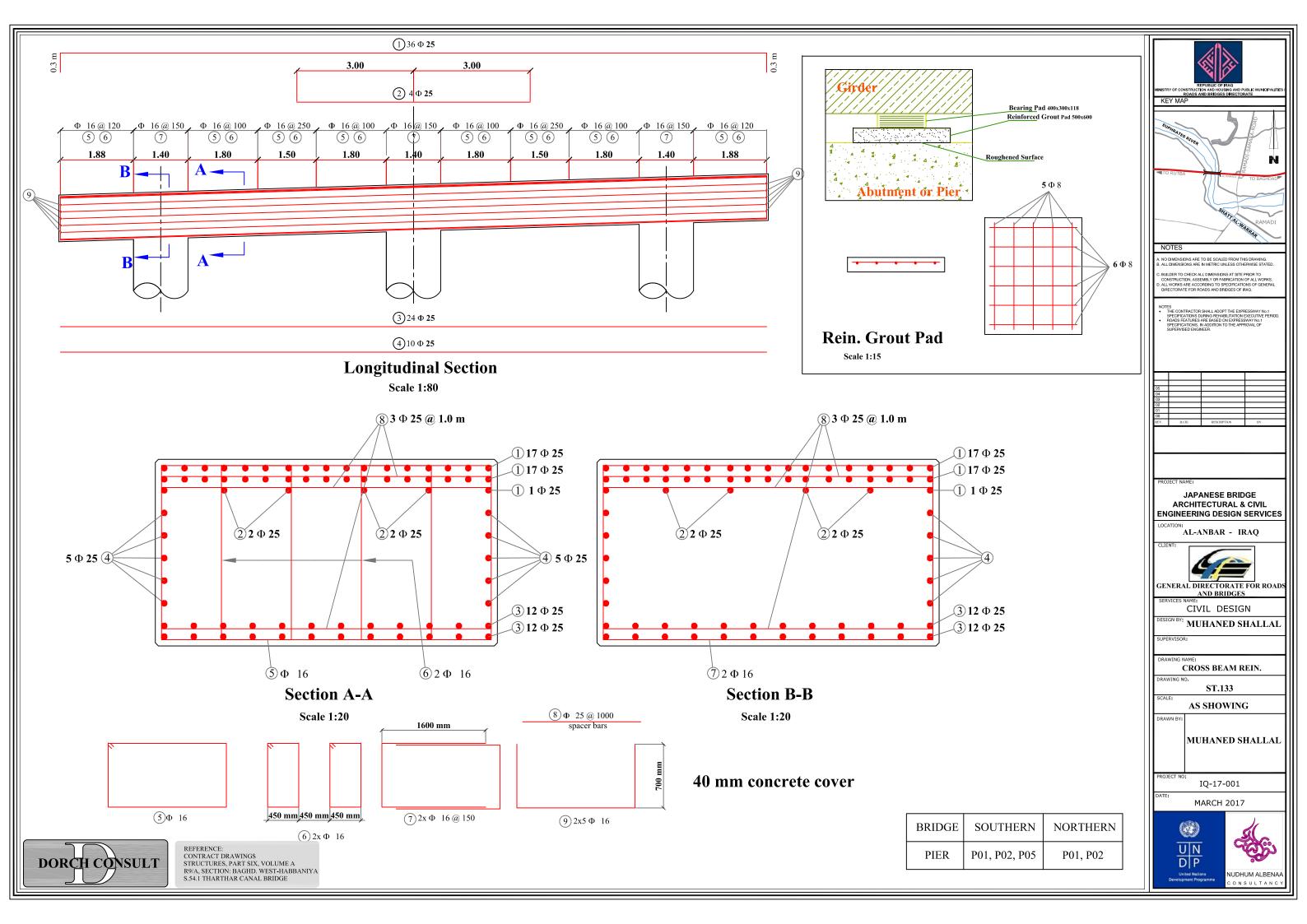
- 1. SHRINKAGE EFFECTS THE GIRDERS SHALL BE STRESSED IN
 - 1 ST STAGE: 30 % OF TOTAL PRESTRESSING AFTER CONCRETE HAS ATTAINED A CUBE STRENGTH OF 32 MPa.
 - EARLY STRENGTH CEMENT (CLASS 350F ACC. TO DIN 1164) IS USED
- MONTHS AFTER CONCRETING OF GIRDERS.



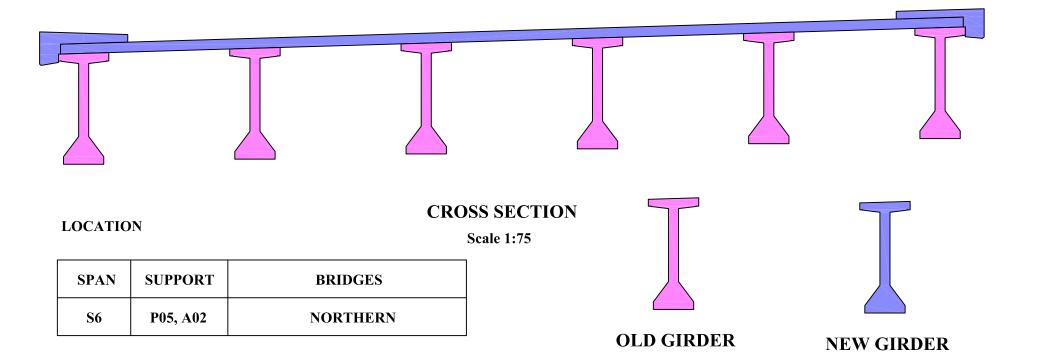
DP



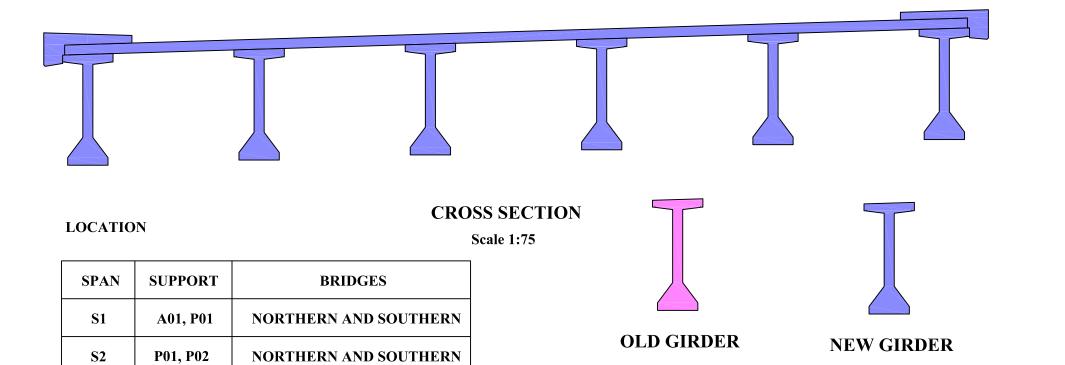




NEW DECK SLAB WITH OLD GIRDER



NEW DECK SLAB WITH NEW GIRDER



P02, P03

P04, P05

P05, A02

S3

S5

S6

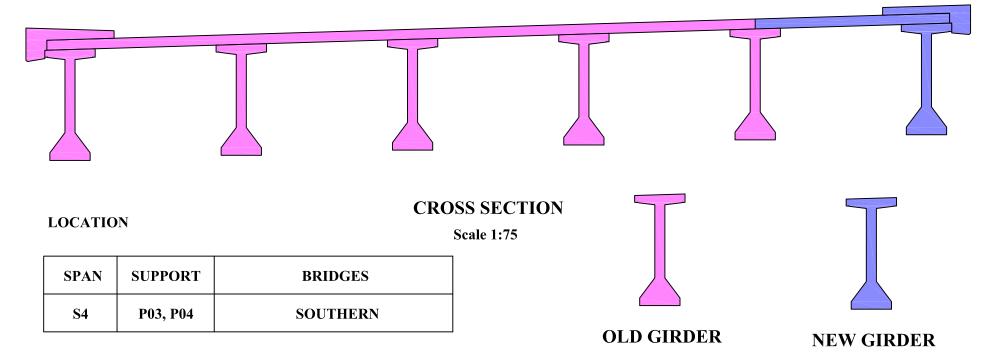
NORTHERN AND SOUTHERN

SOUTHERN

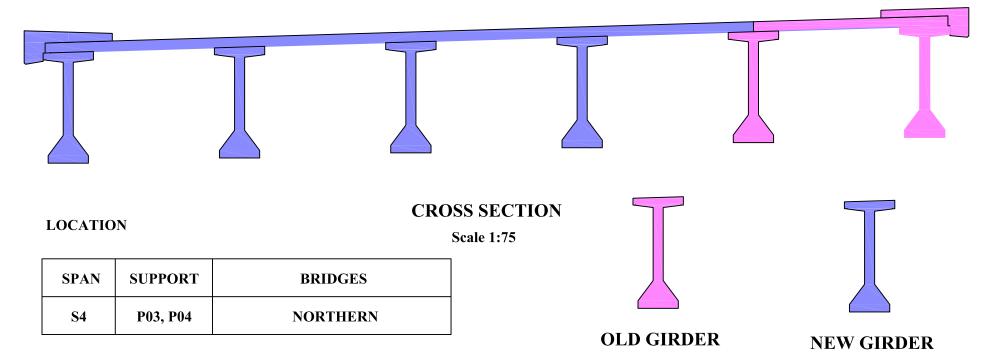
SOUTHERN

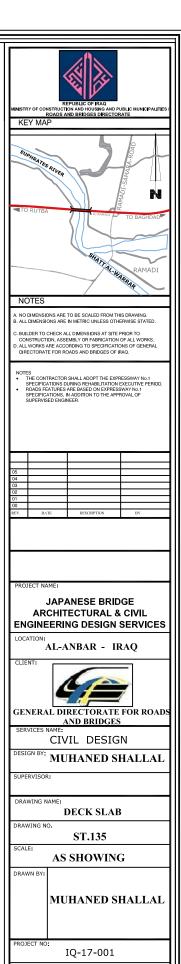


FIVE OLD GIRDERS WITH ONE NEW GIRDER SIDE WALK ONE NEW AND OTHER OLD DECK SLAB 20% NEW

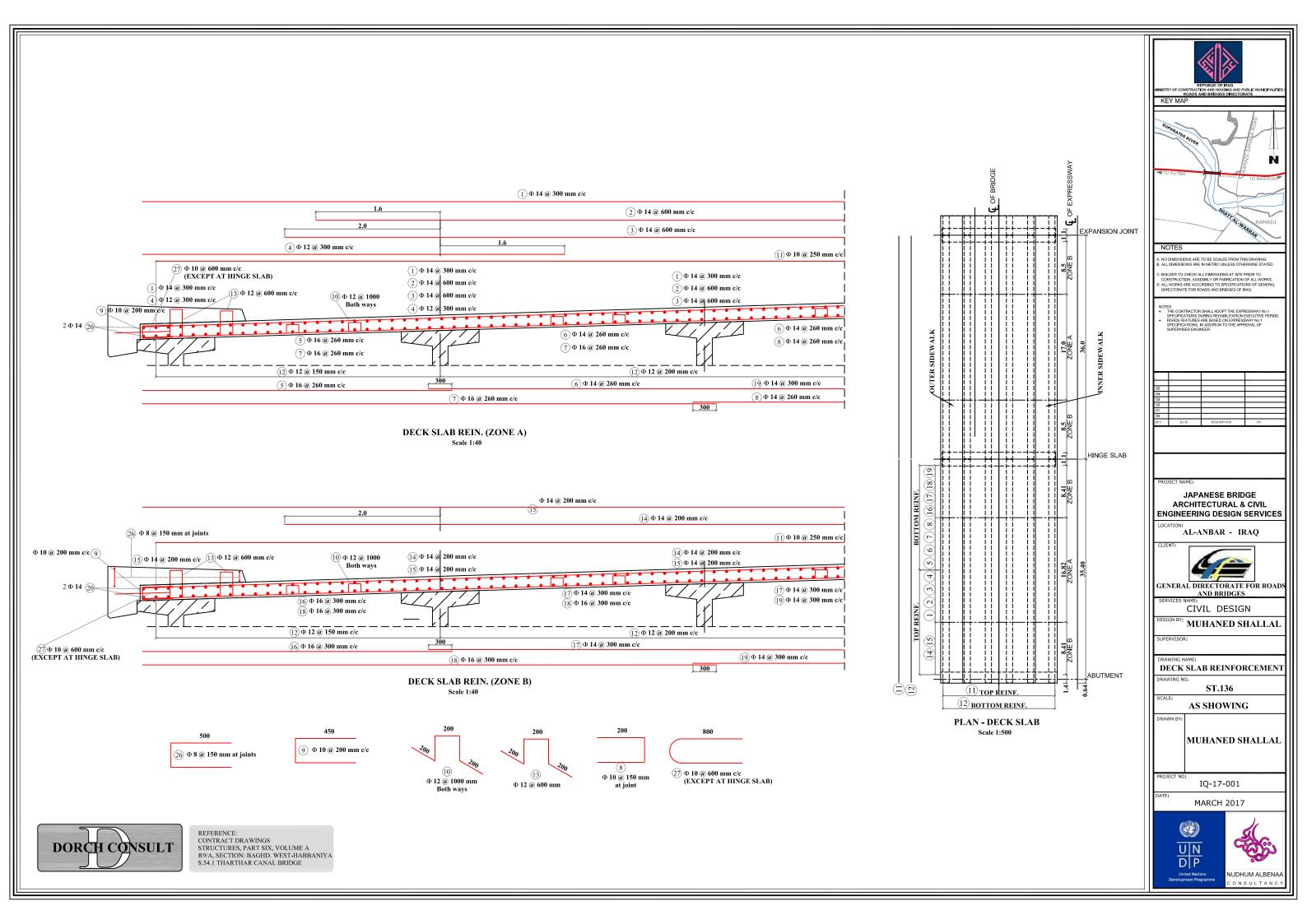


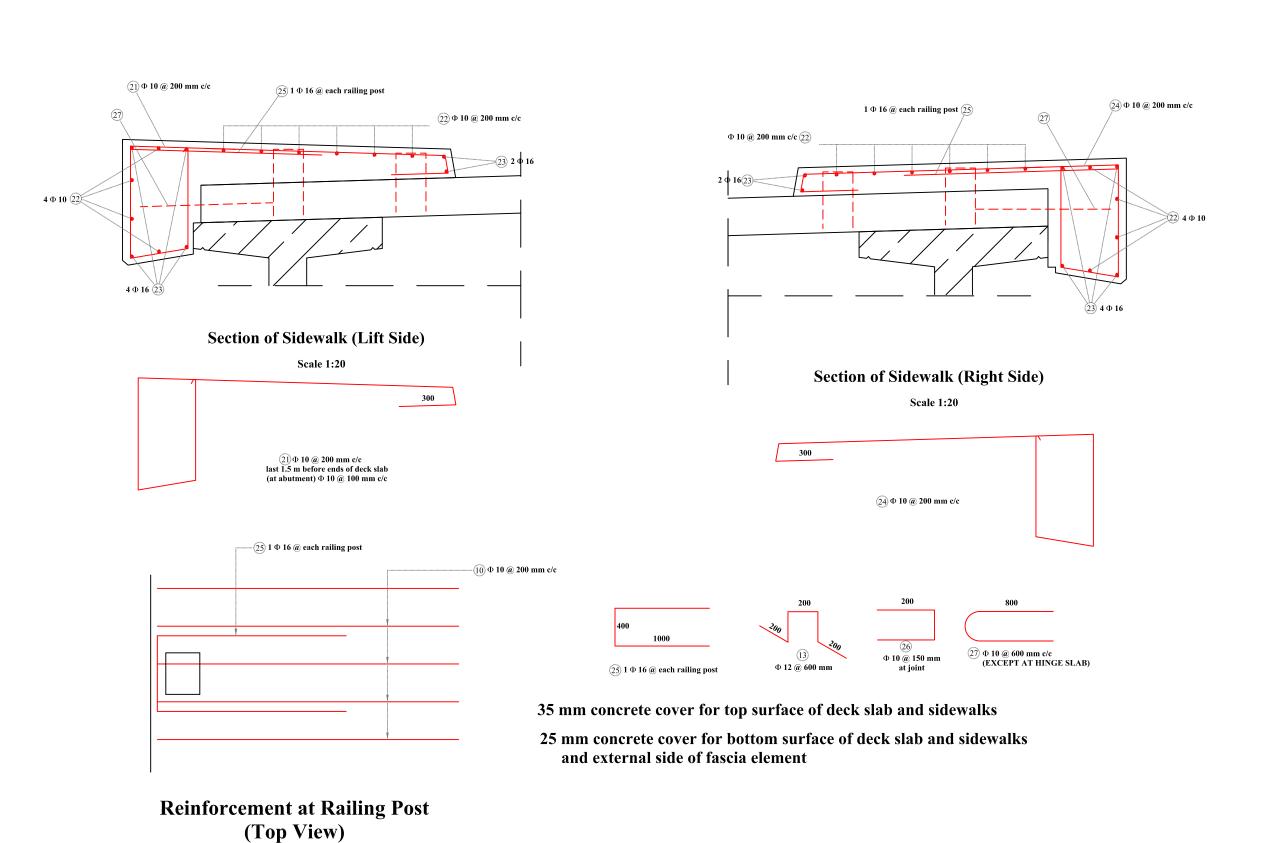
TWO OLD GIRDERS WITH FOUR NEW GIRDERS SIDE WALK ONE NEW AND OTHER OLD DECK SLAB 80% NEW

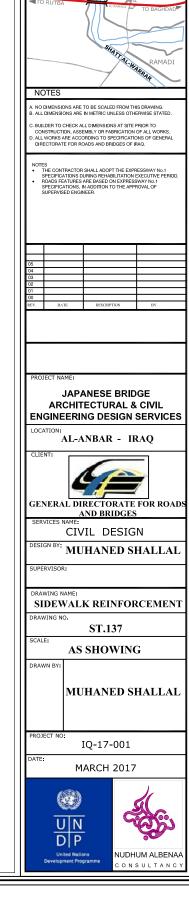




MARCH 2017



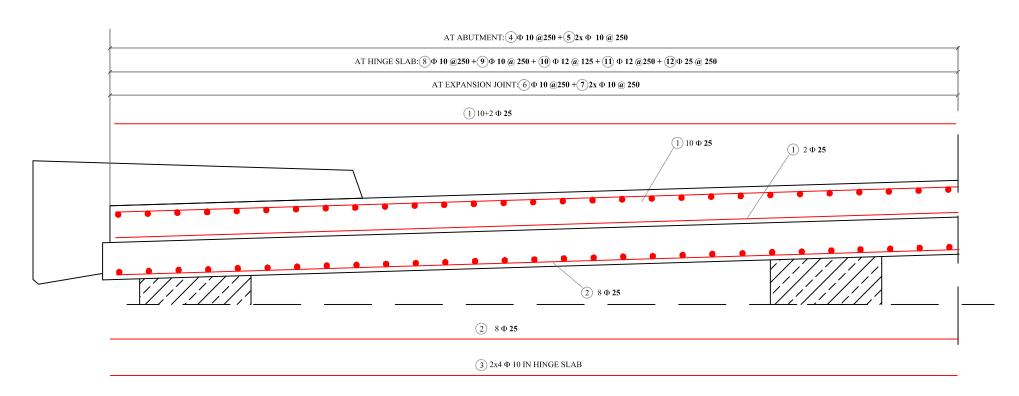




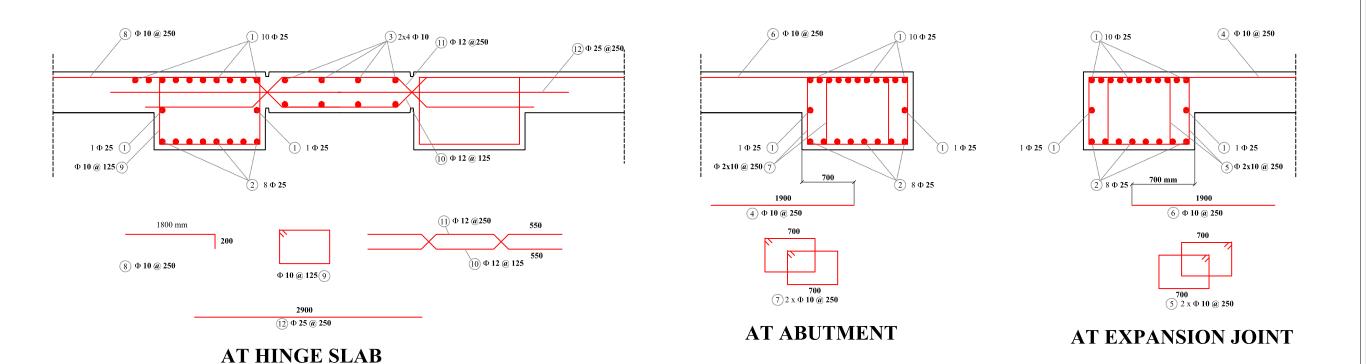


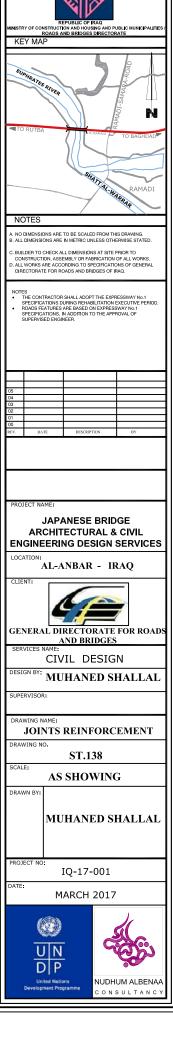
REFERENCE: CONTRACT DRAWINGS STRUCTURES, PART SIX, VOLUME A R9/A, SECTION: BAGHD. WEST-HABBANIYA S.54.1 THARTHAR CANAL BRIDGE

Scale 1:20



CROSS SECTION AT END OF BEAM

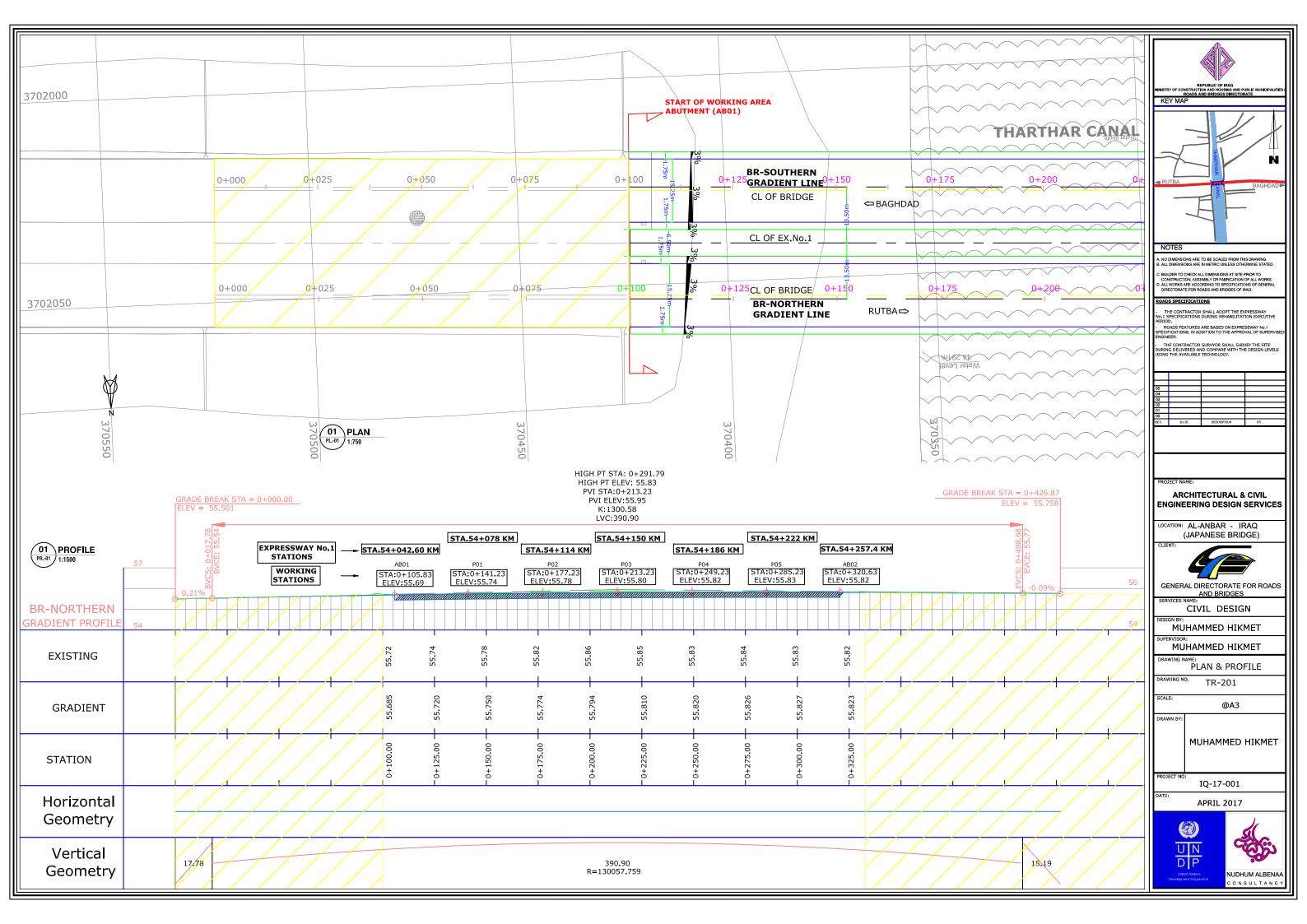


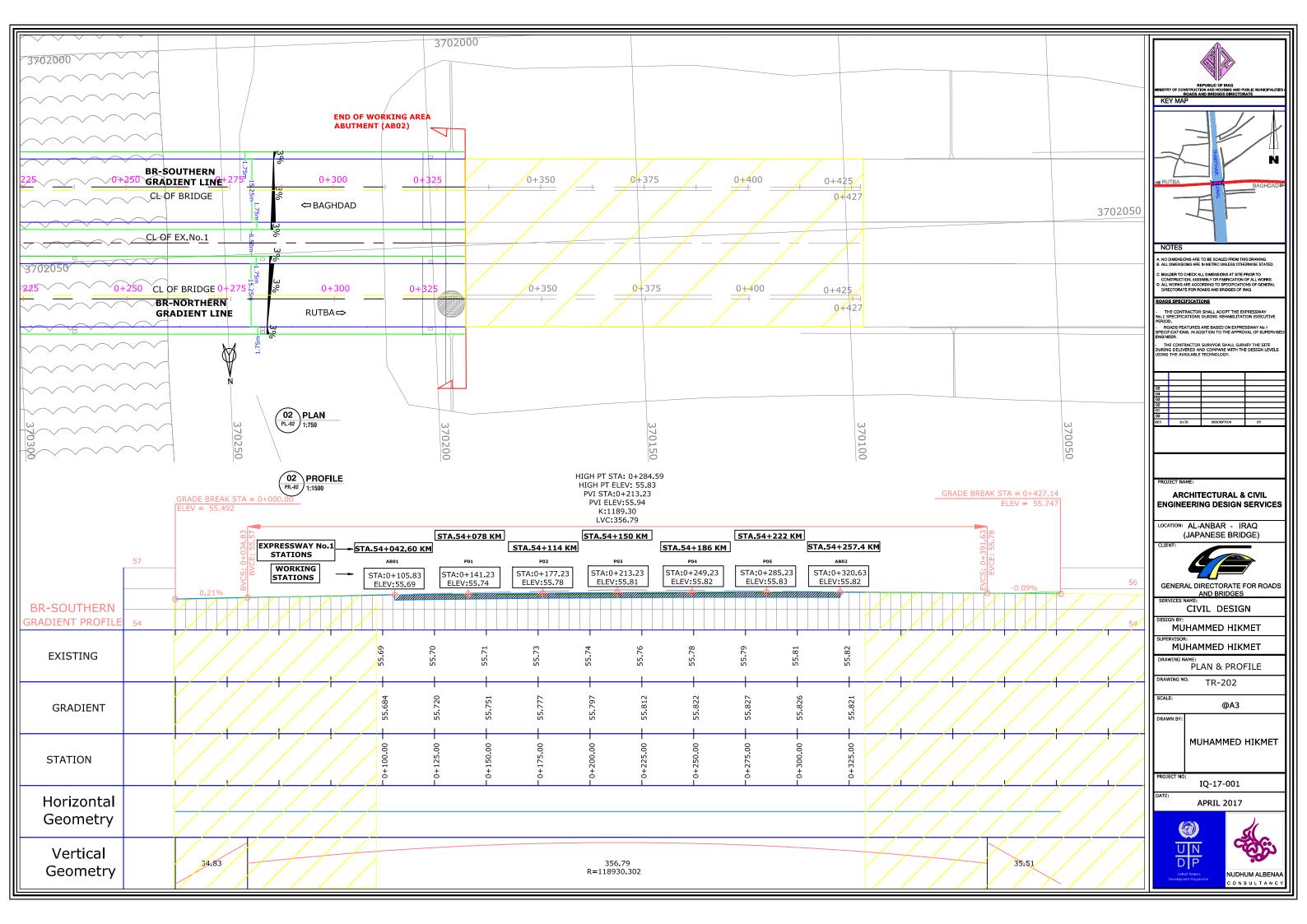


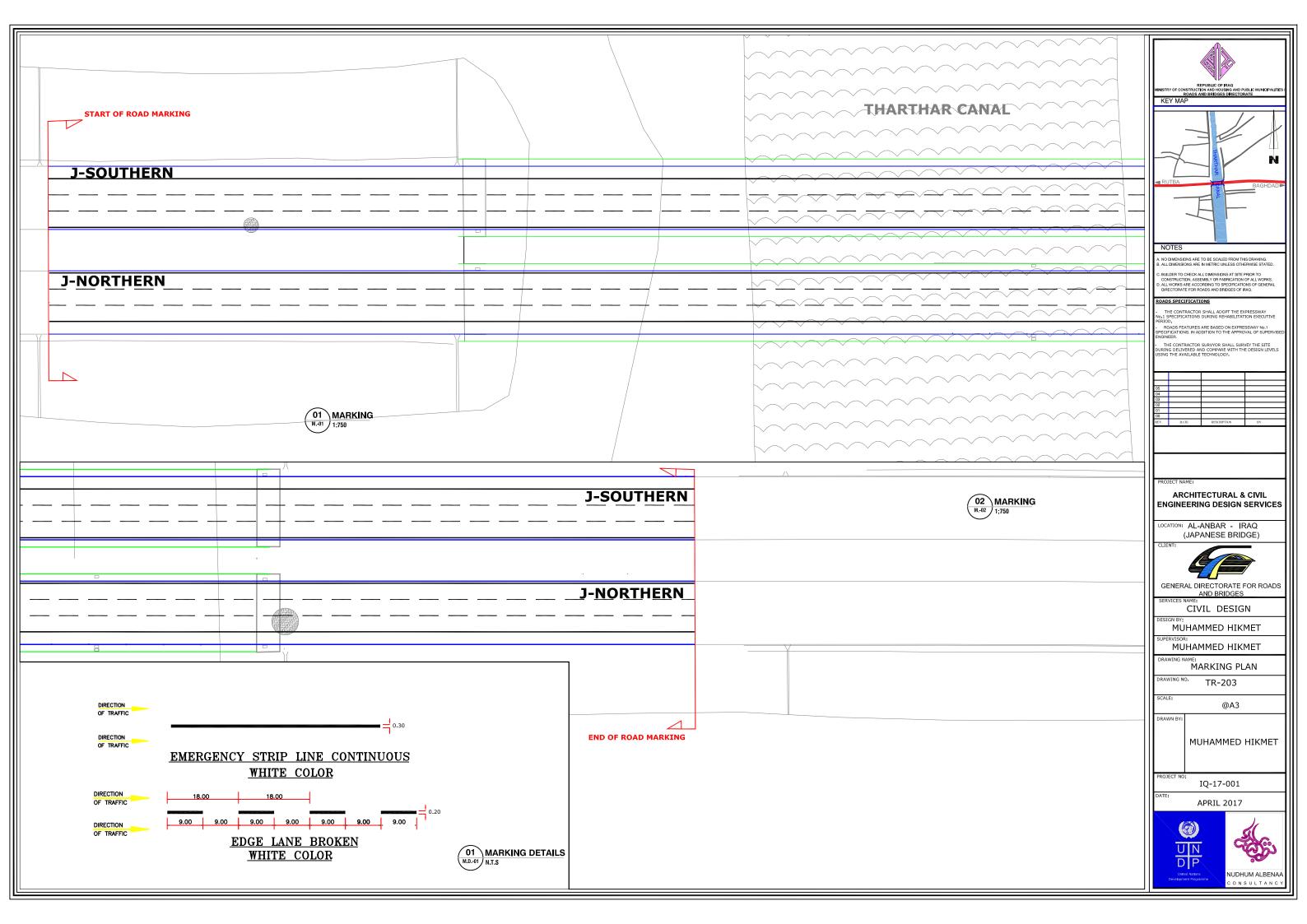


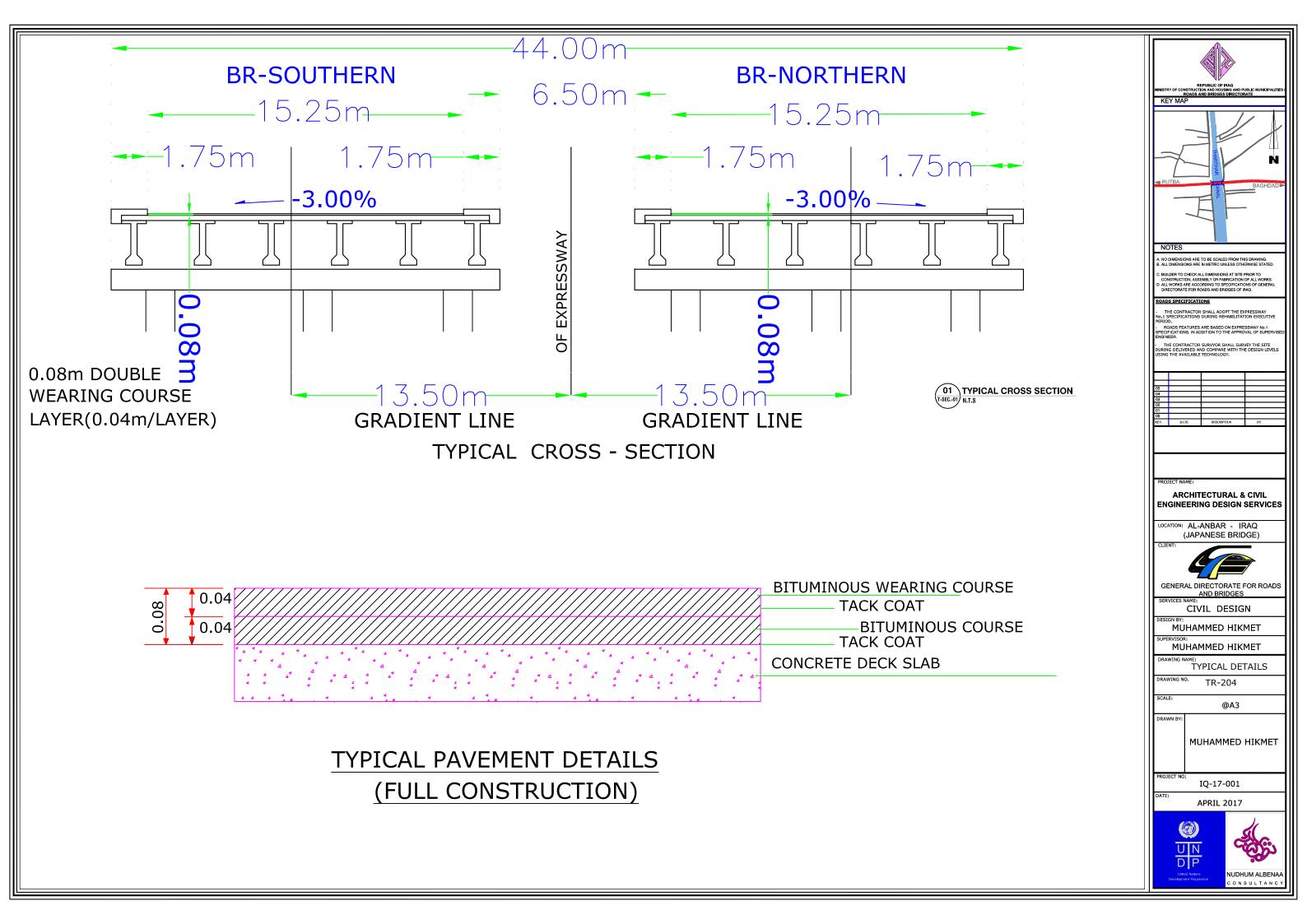
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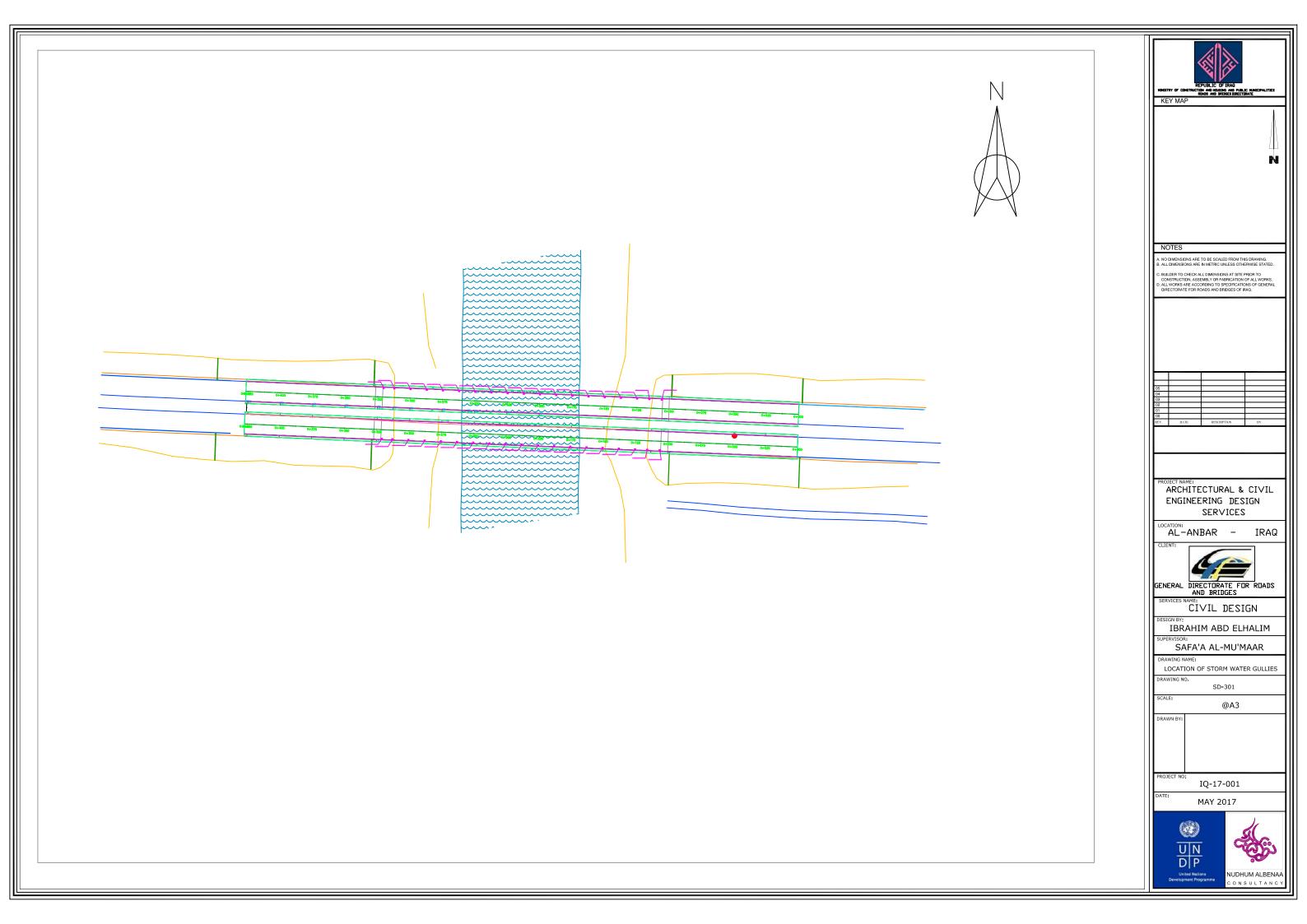






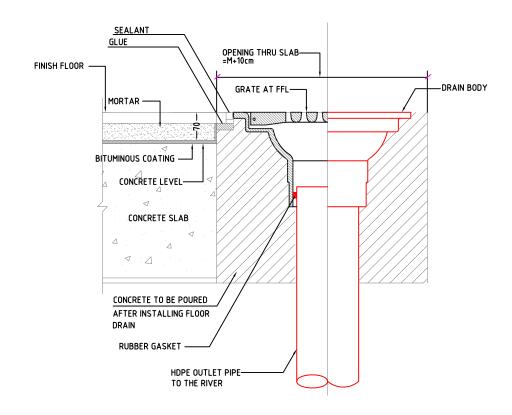






NOTES:

Specifications Pipe Connections of Storm Drainage Should Follow the Specifications,
 Details and Construction Procedures of Sewarage Works



STORM WATER GULLTY (N.T.S.)

