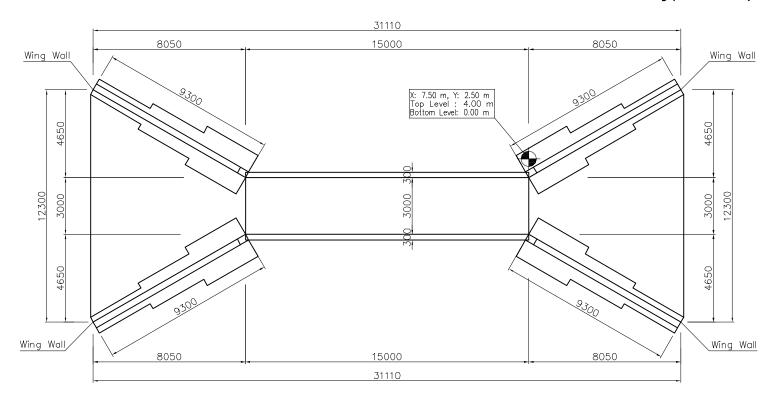
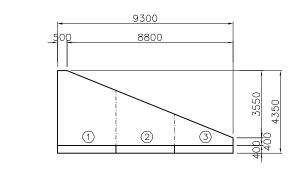
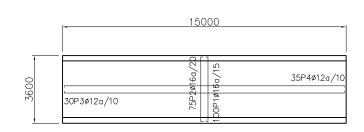


Box Culvert Structural Details (2) 3000x3000 Type A (1 Cell)



Plan View Scale: 1/100



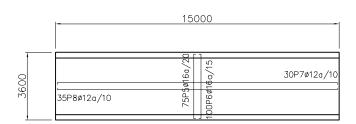


9300

3100 3100 3100

External Face

Inner Face



Top Slab scale: 1/100

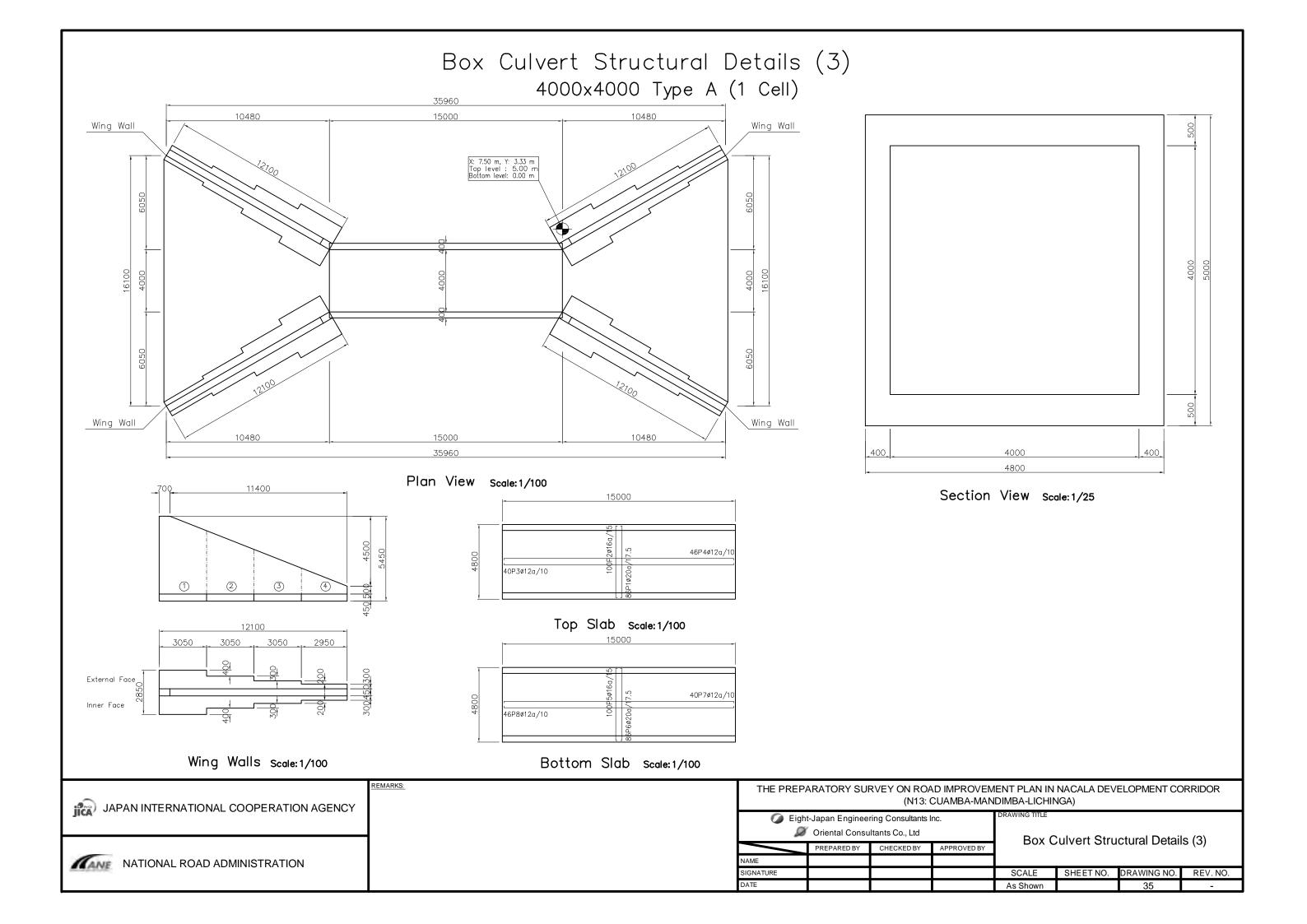
Wing Walls Scale: 1/100

Bottom Slab scale: 1/100

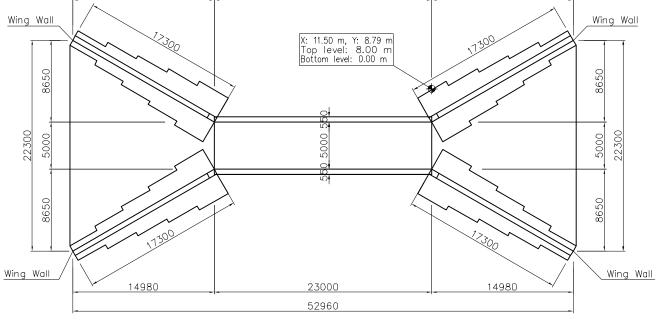


| THE PREPARATORY SURVEY ON ROAD IMPROVEMENT PLAN IN NACALA DEVELOPMENT CORRIDOR (N13: CUAMBA-MANDIMBA-LICHINGA) | | | | | | | |
|---|-------------|------------|-------------|------------------------------------|-----------|-------------|----------|
| Eight-Japan Engineering Consultants Inc. Oriental Consultants Co., Ltd | | | | Box Culvert Structural Details (2) | | | |
| NAME | PREPARED BY | CHECKED BY | APPROVED BY | DOX Guivert Structural Details (2) | | | |
| SIGNATURE | | | | SCALE | SHEET NO. | DRAWING NO. | REV. NO. |
| DATE | | | | As Shown | | 34 | - |

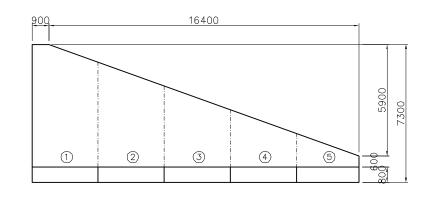
Section View Scale: 1/25

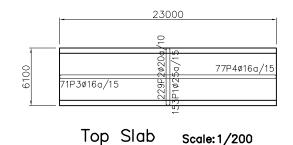


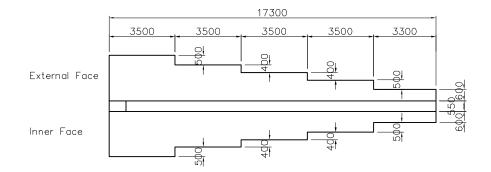
Box Culvert Structural Details (4) 5000x5000 Type A (1 Cell) Wing Wall Wing Wall Wing Wall Wing Wall Battom level: 8.00 m Battom level: 0.00 m

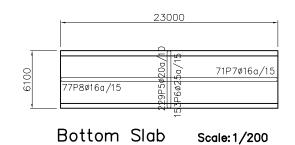


Plan View Scale: 1/200









Wing Walls Scale: 1/100

THE PREPARATORY SURVEY ON ROAD IMPROVEMENT PLAN IN NACALA DEVELOPMENT CORRIDOR (N13: CUAMBA-MANDIMBA-LICHINGA)

Section View Scale: 1/40

MANE NATIONAL ROAD ADMINISTRATION

JAPAN INTERNATIONAL COOPERATION AGENCY

COAMBA-MANDIMBA-LICHINGA)

Fight-Japan Engineering Consultants Inc.

Oriental Consultants Co., Ltd

PREPARED BY CHECKED BY APPROVED BY

NAME

SIGNATURE

SIGNATURE

SCALE SHEET NO. DRAWING NO. REV. NO.

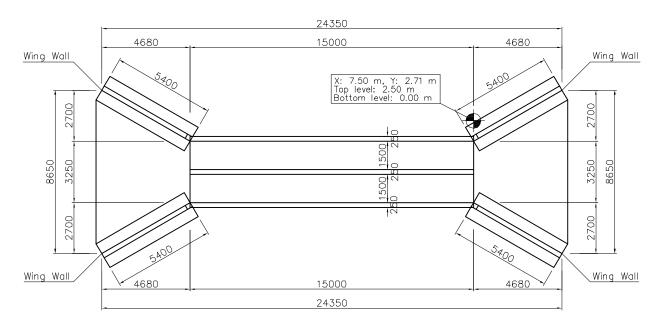
As Shown

As Shown

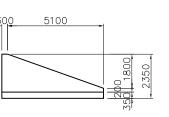
36 -

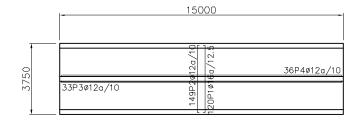
Box Culvert Structural Details (5) 1500x1500 Type A (2 Cells)

Section View Scale: 1/25

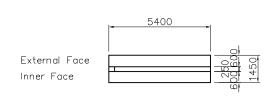


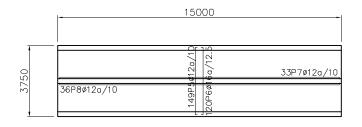
Plan View Scale: 1/100





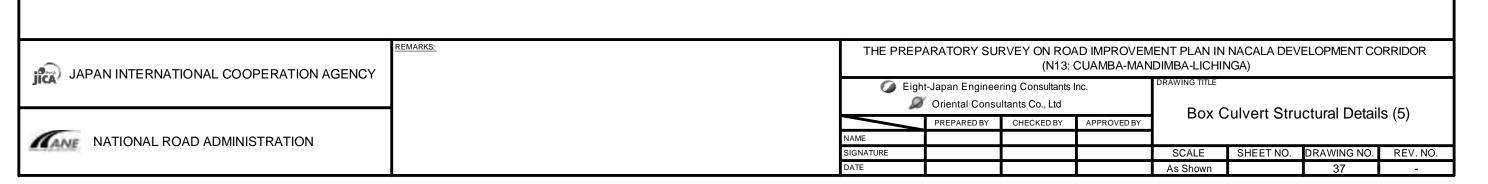
Top Slab Scale: 1/100



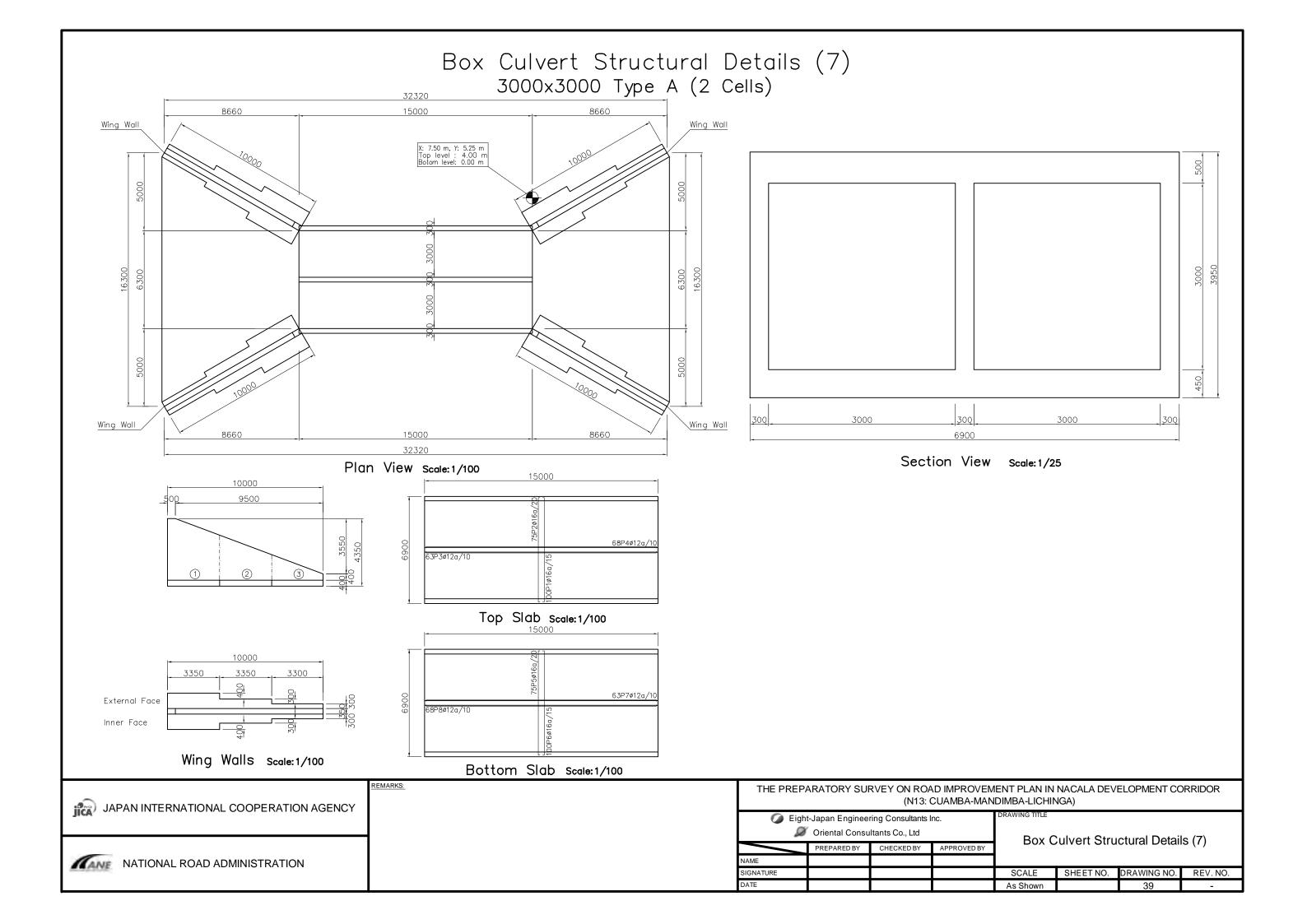


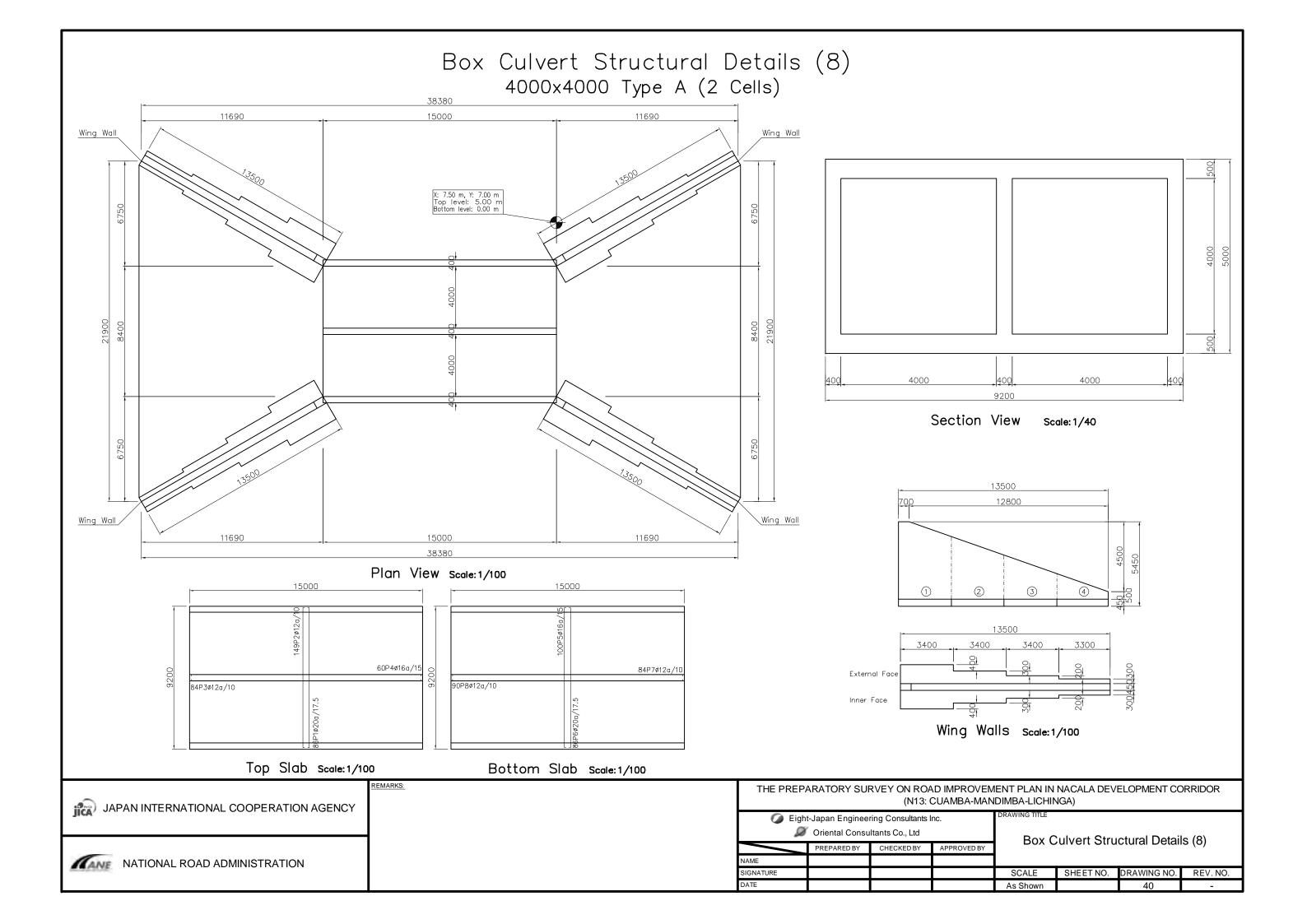
Wing Walls Scale: 1/100

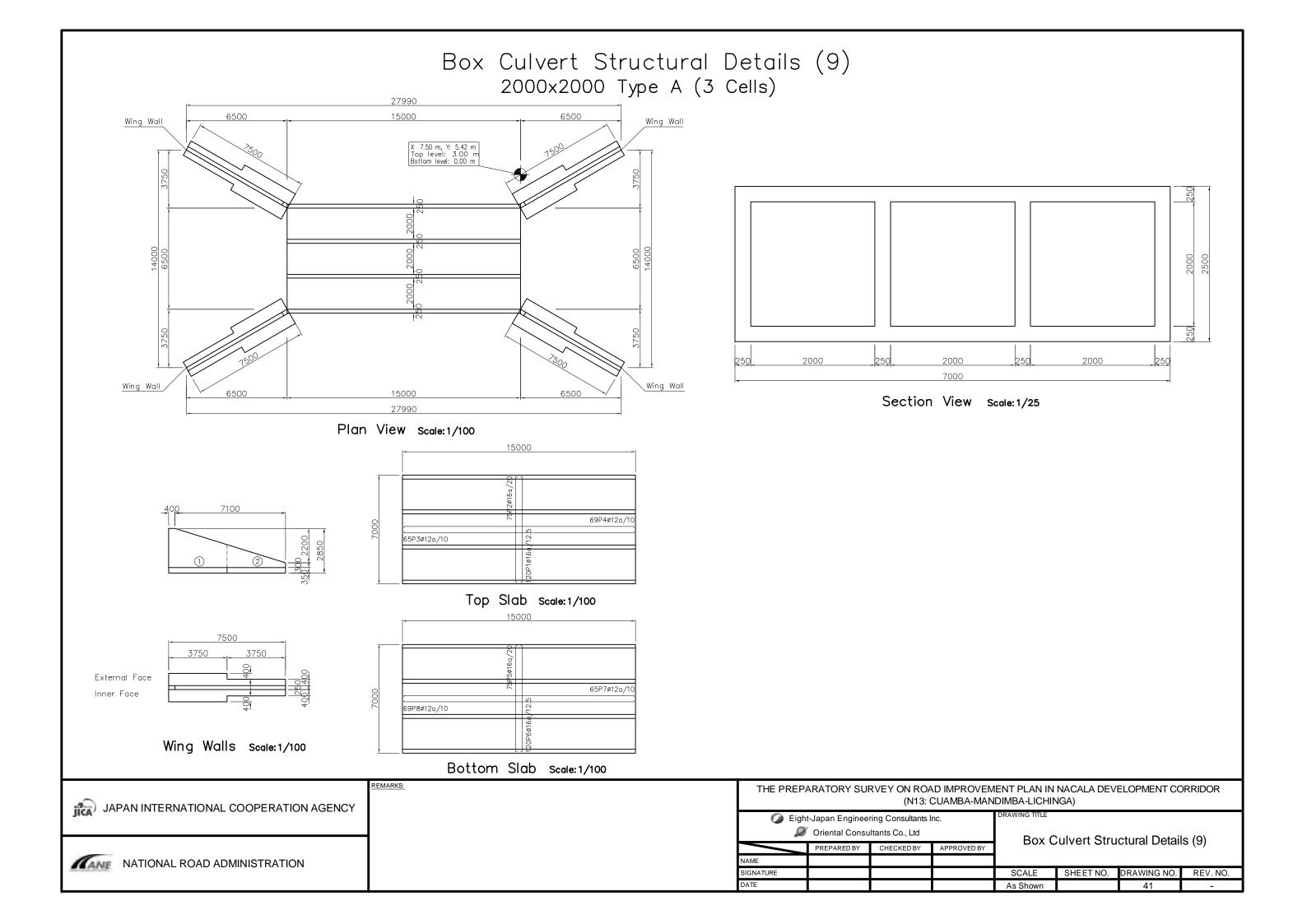
Bottom Slab Scale: 1/100

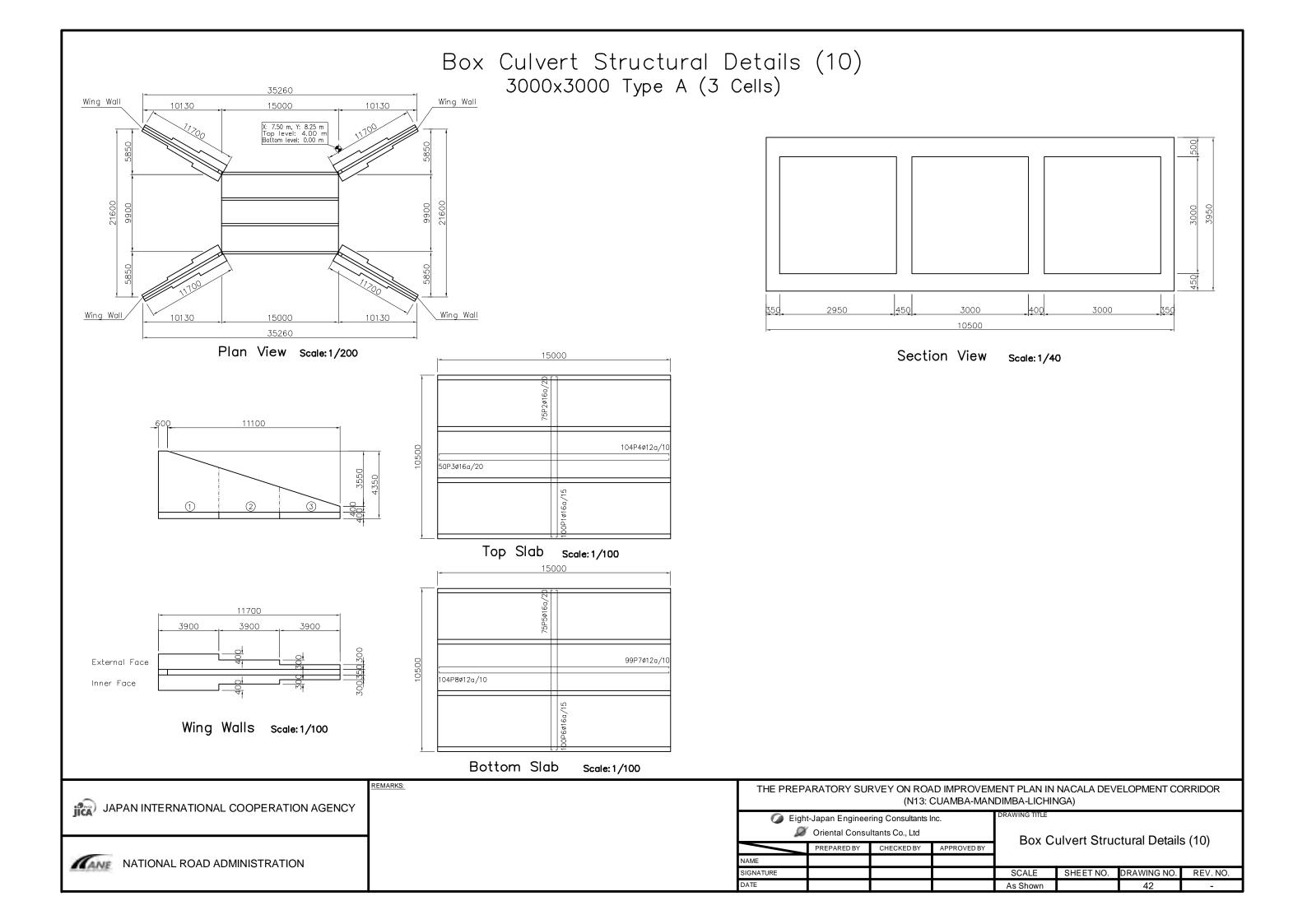


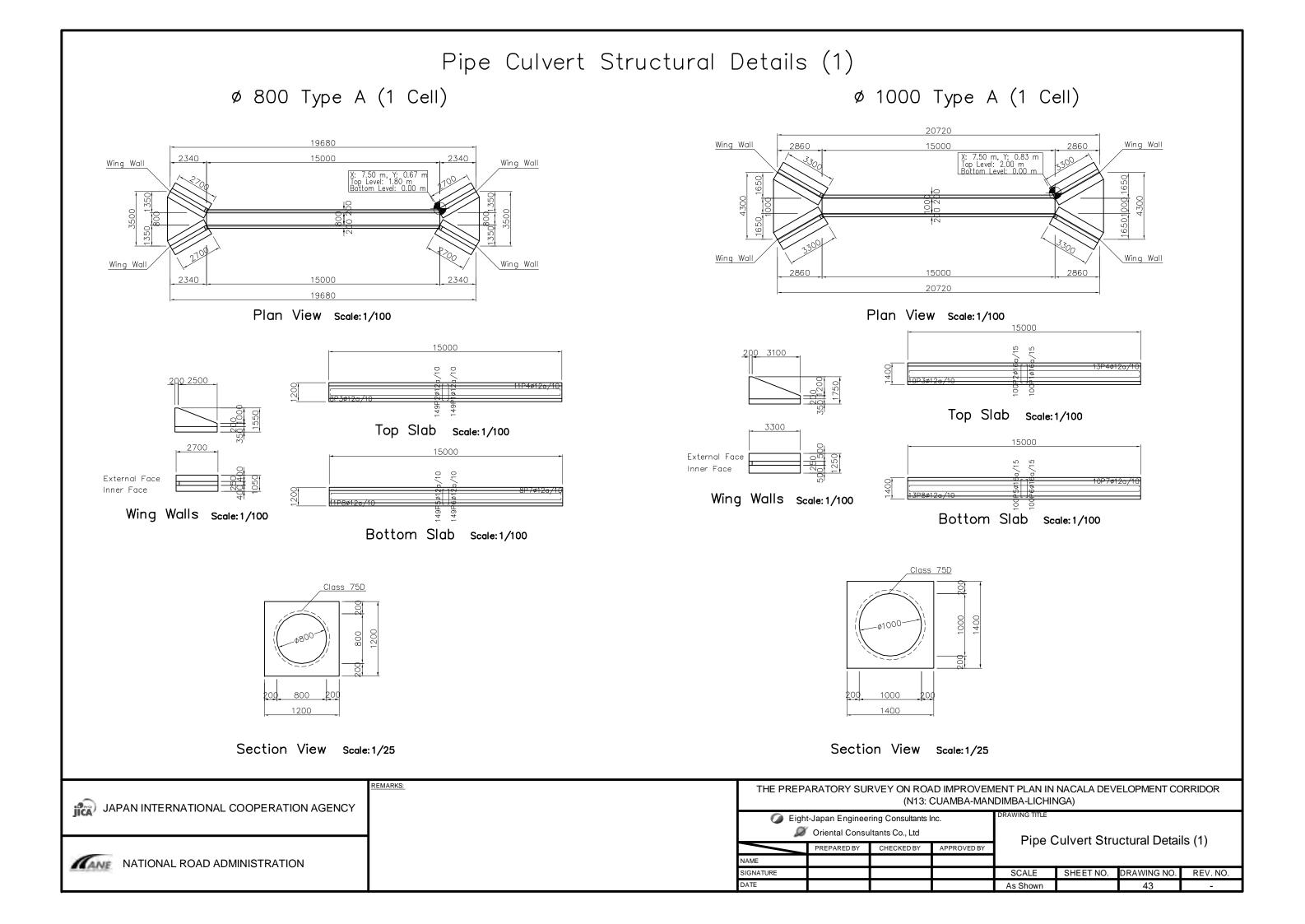
Box Culvert Structural Details (6) 2000x2000 Type A (2 Cells) 27990 Wing Wall Wing Wall X: 7.50 m, Y: 3.54 m Top level : 3.00 m Bottom level: 0.00 m Wing Wall Wing Wall 4750 27990 Section View Scale: 1/25 Plan View Scale: 1/100 7500 46P4ø12a/10 43P3ø12a/10 Top Slab Scale: 1/100 43P7ø12a/10 External Face 46P8ø12a/10 Inner Face Wing Walls Bottom Slab Scale: 1/100 Scale: 1/100 REMARKS: THE PREPARATORY SURVEY ON ROAD IMPROVEMENT PLAN IN NACALA DEVELOPMENT CORRIDOR (N13: CUAMBA-MANDIMBA-LICHINGA) JAPAN INTERNATIONAL COOPERATION AGENCY Eight-Japan Engineering Consultants Inc. Oriental Consultants Co., Ltd. Box Culvert Structural Details (6) CHECKED BY APPROVED BY MATIONAL ROAD ADMINISTRATION SCALE SHEET NO. DRAWING NO. REV. NO.

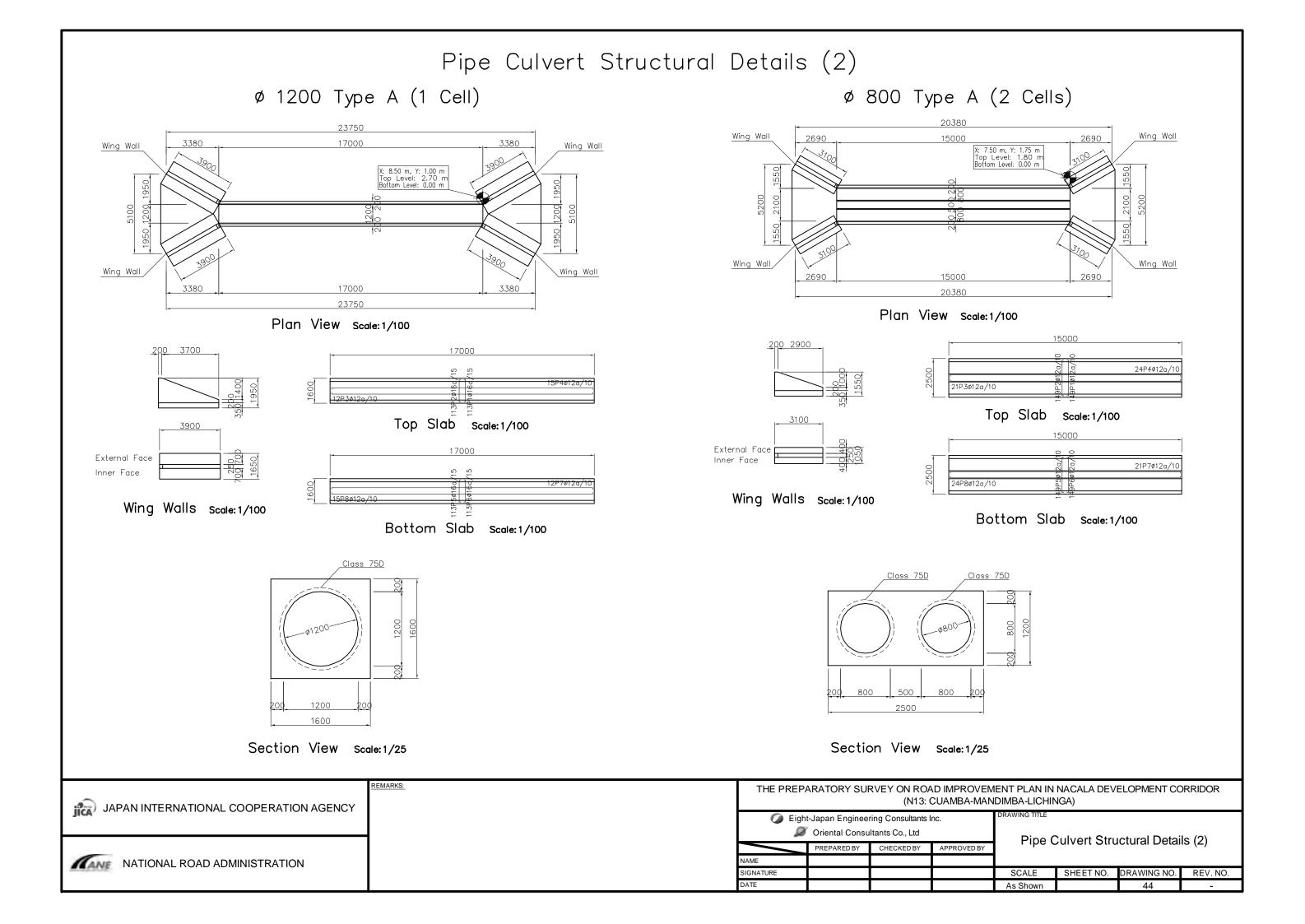


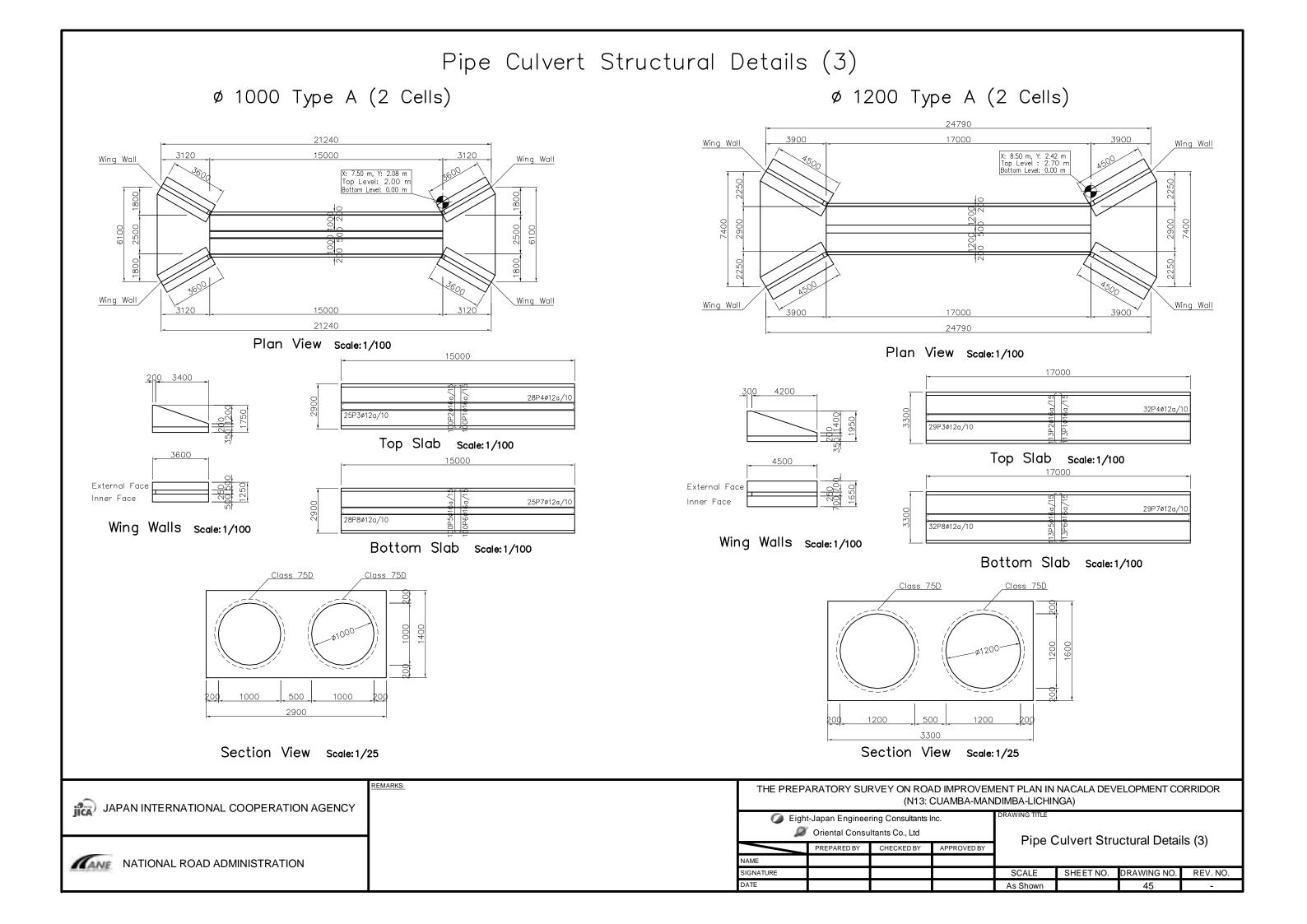




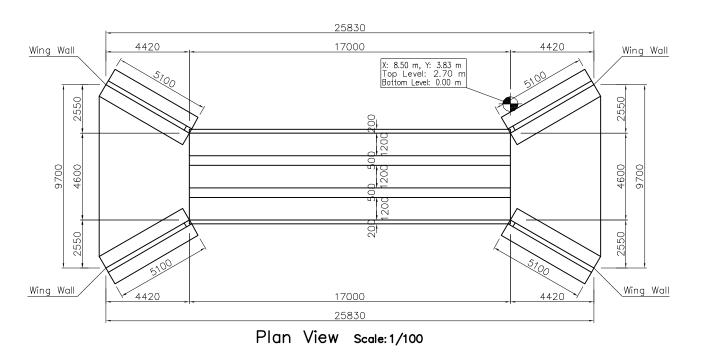


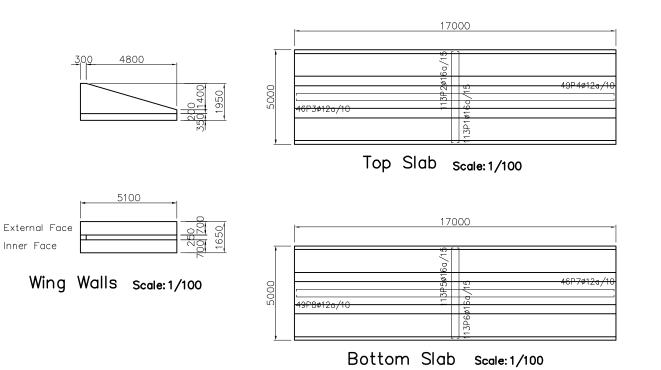


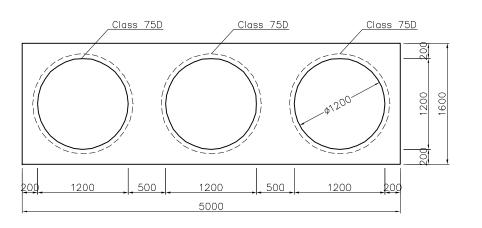




Pipe Culvert Structural Details (4) ø 1200 Type A (3 Cells)



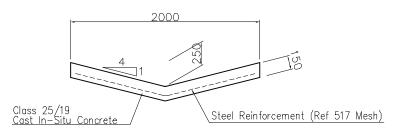




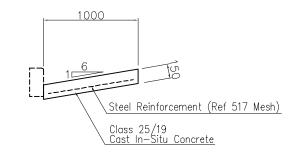
Section View Scale: 1/25



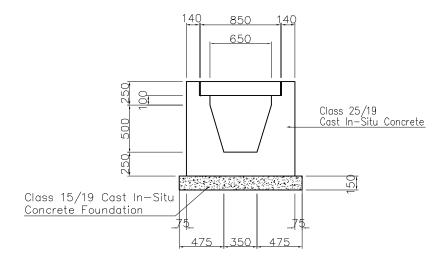
Drainage Details



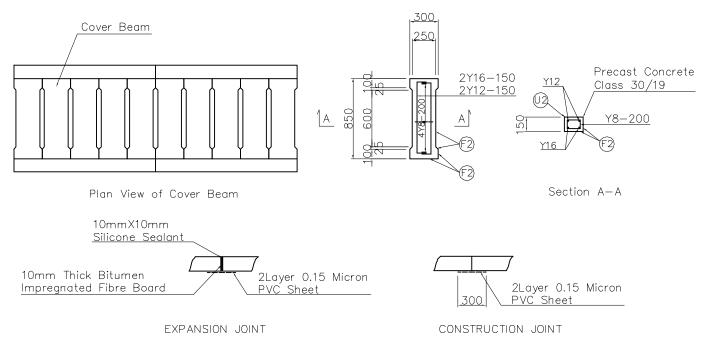
Type 1 Drain Scale: 1/20



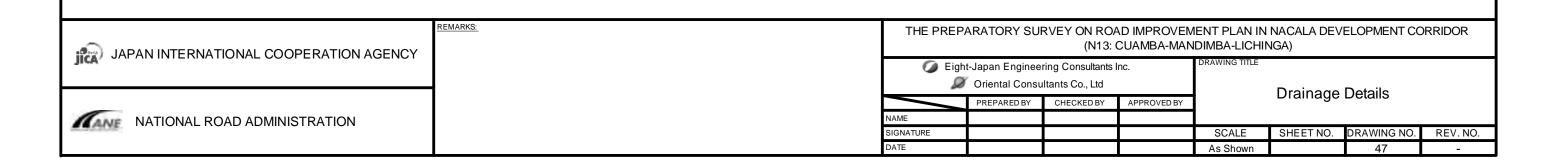
Type 2 Drain Scale: 1/20



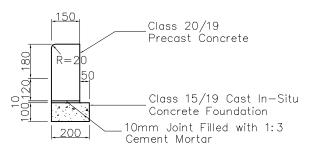
Type 3 Drain Scale: 1/20

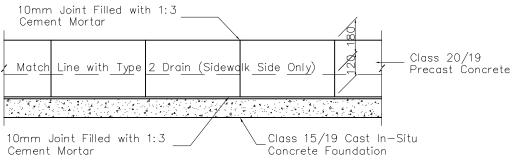


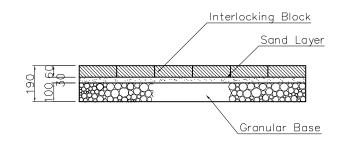
Joint Details All Drains Not to Scale



Ancillary Work



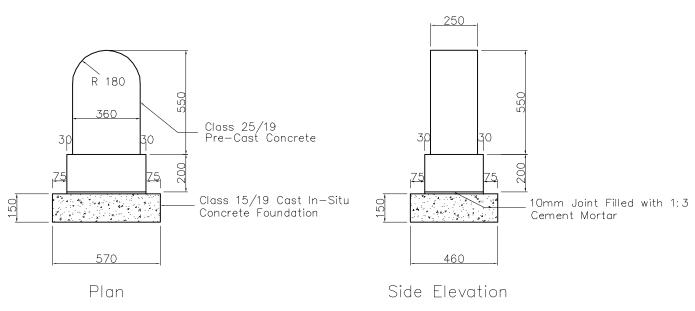


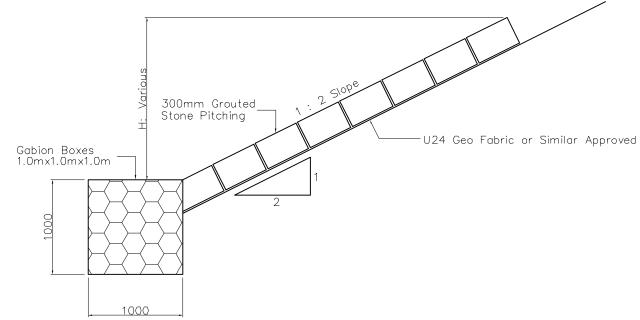


Concrete Kerb Scale: 1/10

SABS 927-1969 TYPE 1

Detail Composition of Sidewalk scale: 1/10



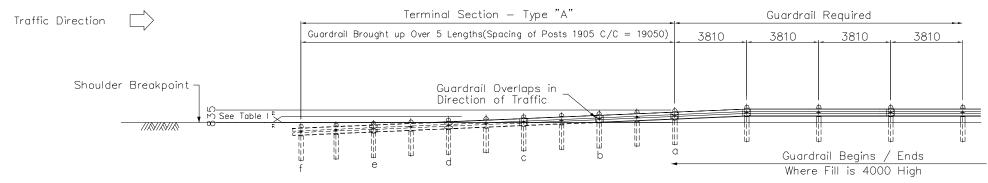


Typical Detail of A km-Marker Scale: 1/10

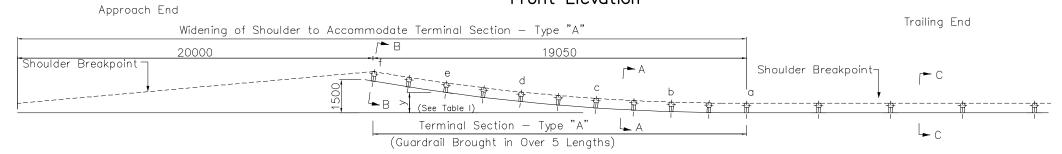
Typical Detail of Bank Erosion Protection Scale: 1/20



Guardrail Placing Details



Front Elevation



Plan Typical Details of Terminal Sections Scale: 1/100

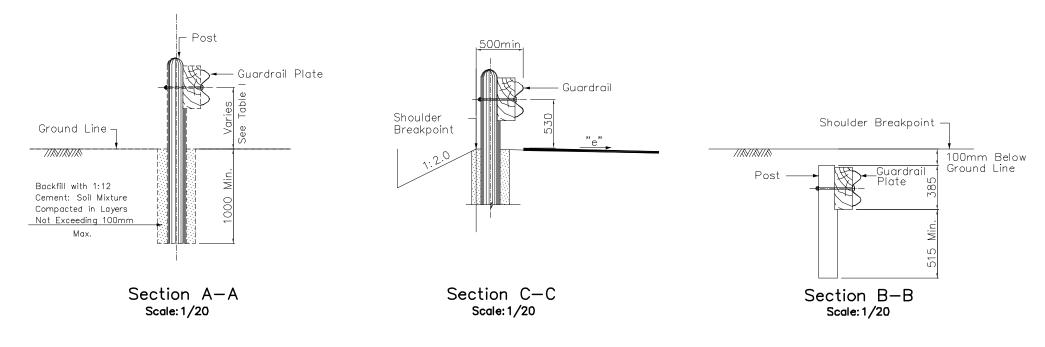


Table I Placing of Poles at Parabolic Terminal Sections Horizontal Vertical Off-Sets Off - Sets for for Parabolic Parabolic Terminal Section Terminal (Measured from Sections Top of Post) Y (mm) X (mm) 60 33 240 133 540 299

Notes on Erection Details

- The Holes for Timber Posts Shall be of Sufficient Size to Permit Proper Setting of the Posts and to Allow Sufficient Room for Backfilling.
- 2. At Least 1.0m of Post Shall be Embedded in the Ground.
- 3. Holes for Timber Posts Shall be Spaced to Suite the Standard Length of Guardrail Supplied.
- Holes Shall be Backfilled with 12:1 Soil: Cement Mixture at Optimum Moisture Content in Compacted Layers not Exceeding 100mm.

Without Concrete Side Drain

