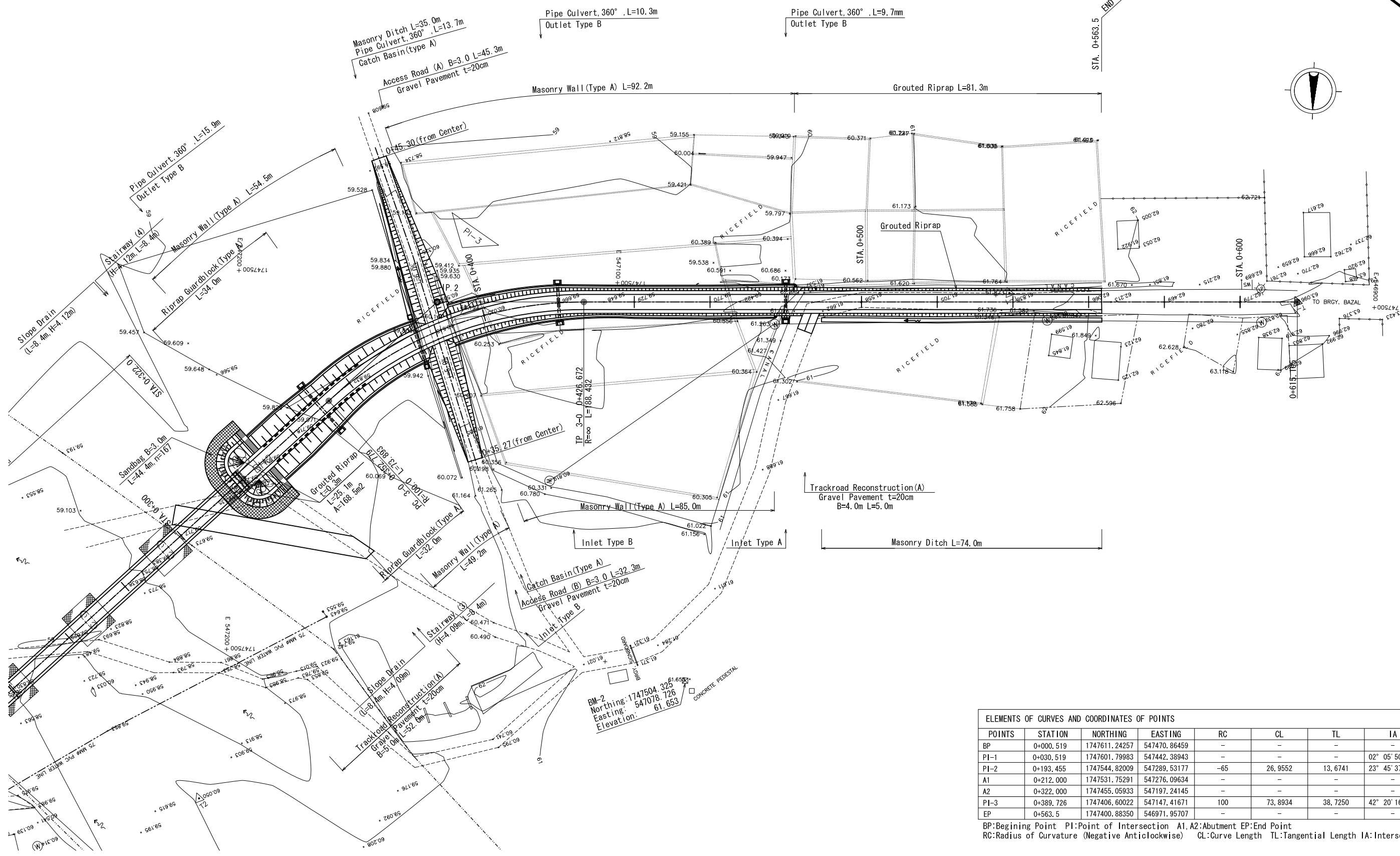
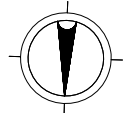


ELEMENTS OF CURVES AND COORDINATES OF POINTS

| POINTS | STATION | NORTHING | EASTING | RC | CL | TL | IA |
|--------|-----------|---------------|--------------|-----|---------|---------|----------------|
| BP | 0+000.519 | 1747611.24257 | 547470.86459 | - | - | - | - |
| PI-1 | 0+030.519 | 1747601.79983 | 547442.38943 | - | - | - | 02° 05' 50.67" |
| PI-2 | 0+193.455 | 1747544.82009 | 547289.53177 | -65 | 26.9552 | 13.6741 | 23° 45' 37.17" |
| A1 | 0+212.000 | 1747531.75291 | 547276.09634 | - | - | - | - |
| A2 | 0+322.000 | 1747455.05933 | 547197.24145 | - | - | - | - |
| PI-3 | 0+389.726 | 1747406.60022 | 547147.41671 | 100 | 73.8934 | 38.7250 | 42° 20' 16.17" |
| EP | 0+563.5 | 1747400.88350 | 546971.95707 | - | - | - | - |

BP: Beginning Point PI: Point of Intersection A1, A2: Abutment EP: End Point
 RC: Radius of Curvature (Negative Anticlockwise) CL: Curve Length TL: Tangential Length IA: Intersection Angle

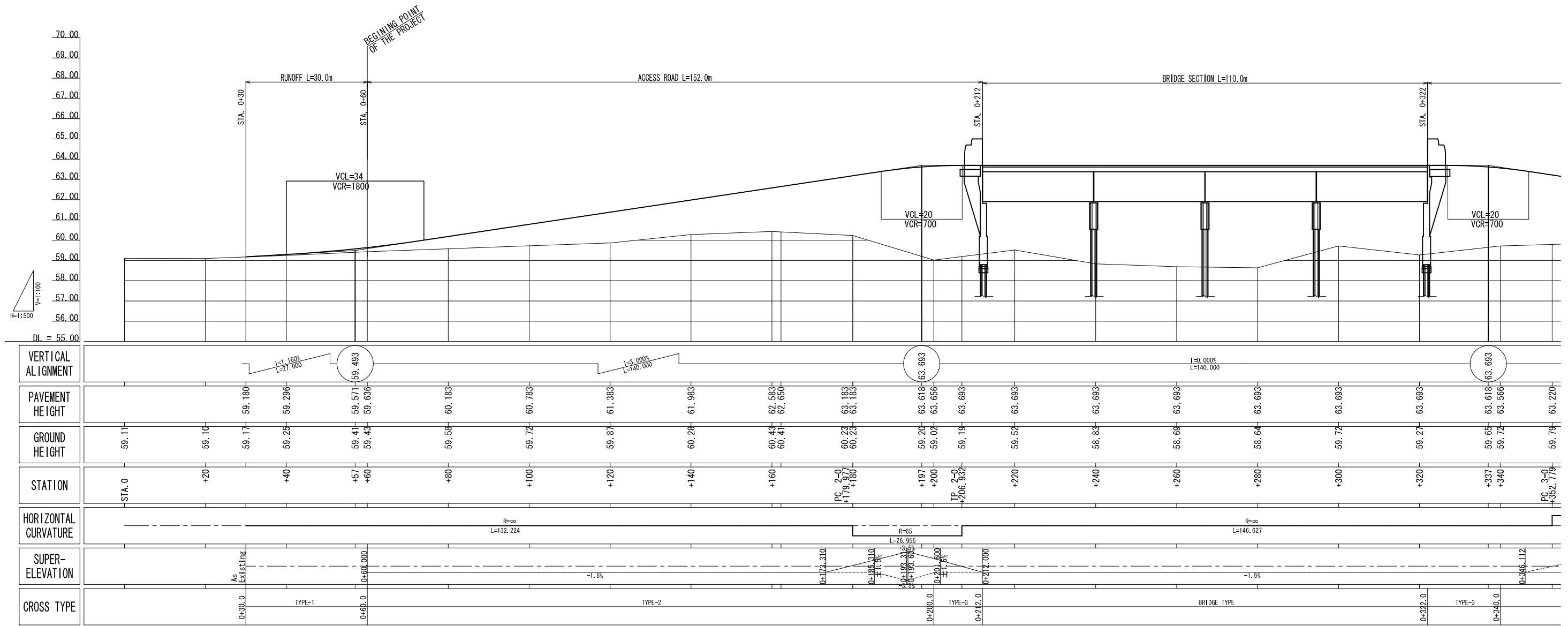
(1) (2)

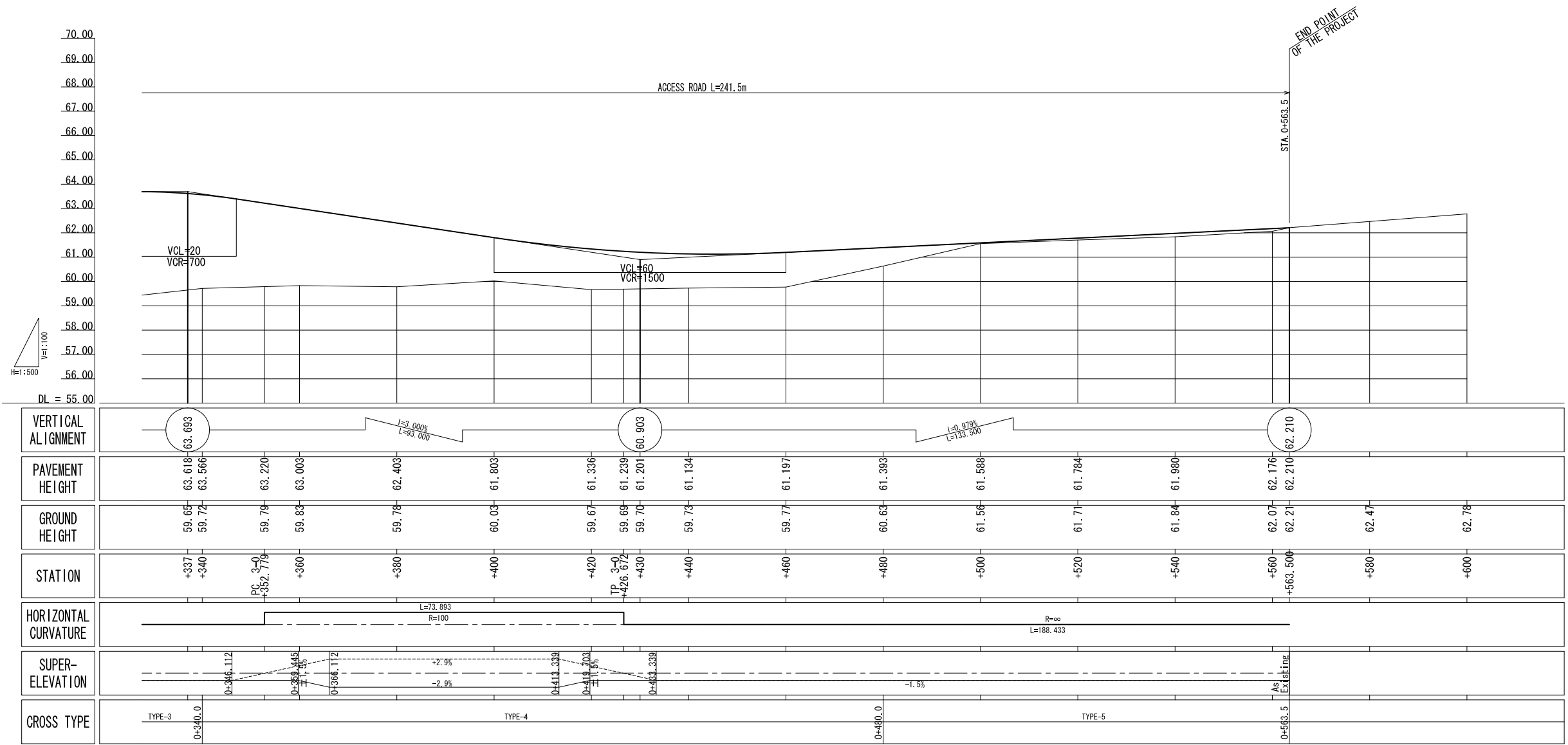


ELEMENTS OF CURVES AND COORDINATES OF POINTS

| POINTS | STATION | NORTHING | EASTING | RC | CL | TL | IA |
|--------|-----------|---------------|--------------|-----|---------|---------|----------------|
| BP | 0+000.519 | 1747611.24257 | 547470.86459 | - | - | - | - |
| PI-1 | 0+030.519 | 1747601.79983 | 547442.38943 | - | - | - | 02° 05' 50.67" |
| PI-2 | 0+193.455 | 1747544.82009 | 547289.53177 | -65 | 26.9552 | 13.6741 | 23° 45' 37.17" |
| A1 | 0+212.000 | 1747531.75291 | 547276.09634 | - | - | - | - |
| A2 | 0+322.000 | 1747455.05933 | 547197.24145 | - | - | - | - |
| PI-3 | 0+389.726 | 1747406.60022 | 547147.41671 | 100 | 73.8934 | 38.7250 | 42° 20' 16.17" |
| EP | 0+563.5 | 1747400.88350 | 546971.95707 | - | - | - | - |

BP: Beginning Point PI: Point of Intersection A1, A2: Abutment EP: End Point
 RC: Radius of Curvature (Negative Anticlockwise) CL: Curve Length TL: Tangential Length IA: Intersection Angle





DEPARTMENT OF AGRARIAN REFORM
THE REPUBLIC OF THE PHILIPPINES

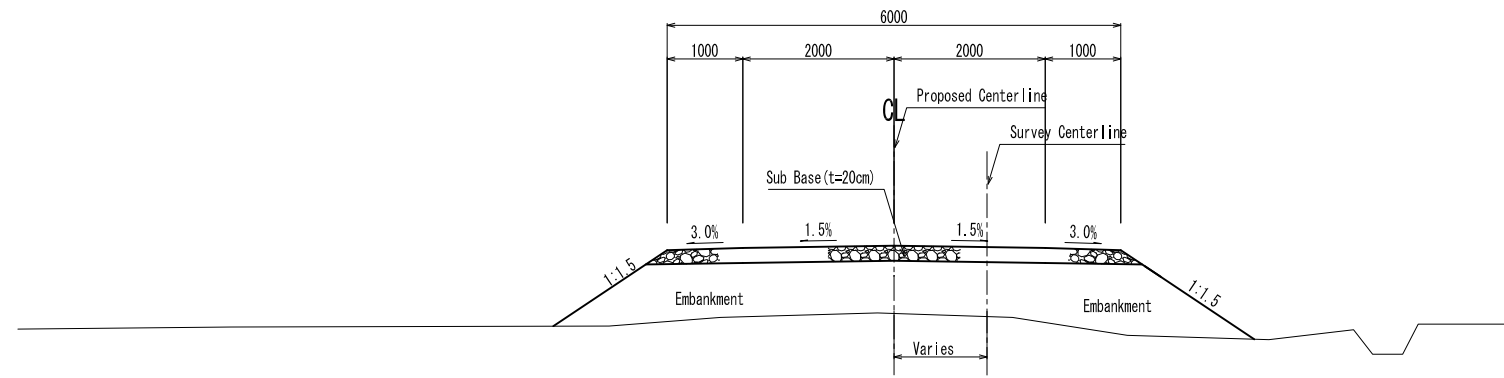
BASIC DESIGN STUDY
ON THE BRIDGE CONSTRUCTION PROJECT
FOR EXPANDED AGRARIAN REFORM
COMMUNITIES DEVELOPMENT

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.

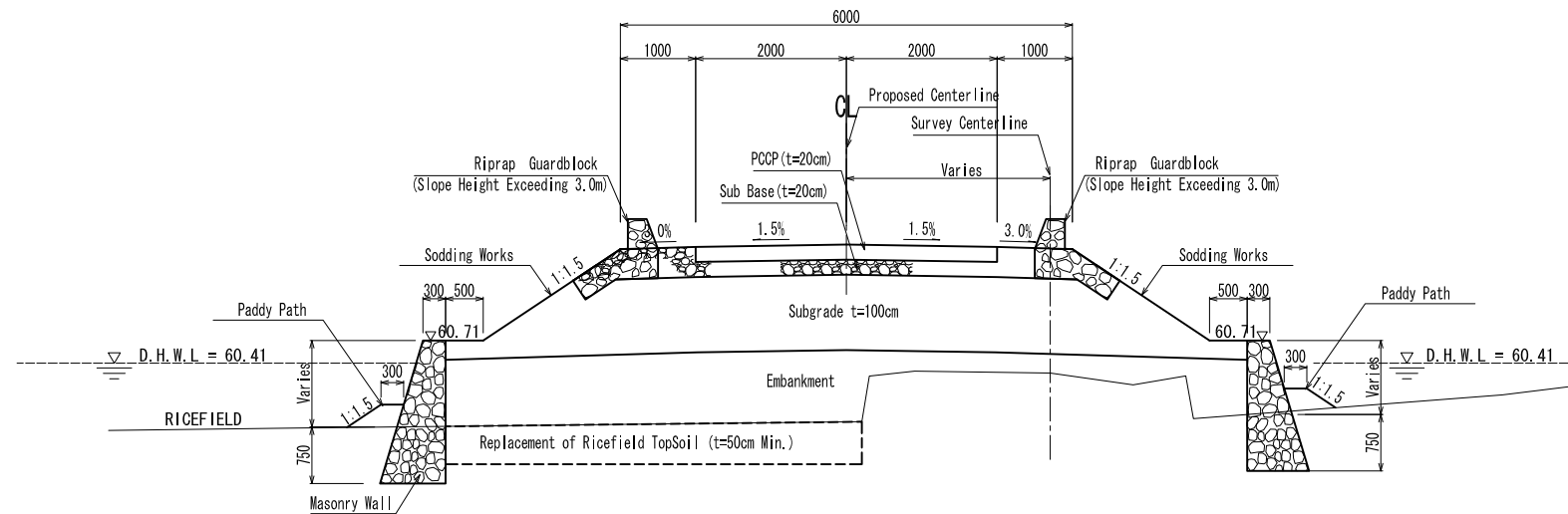
TITLE : BAZAL BRIDGE
ROAD PROFILE (2/2)

SCALE
H=1:500
V=1:100

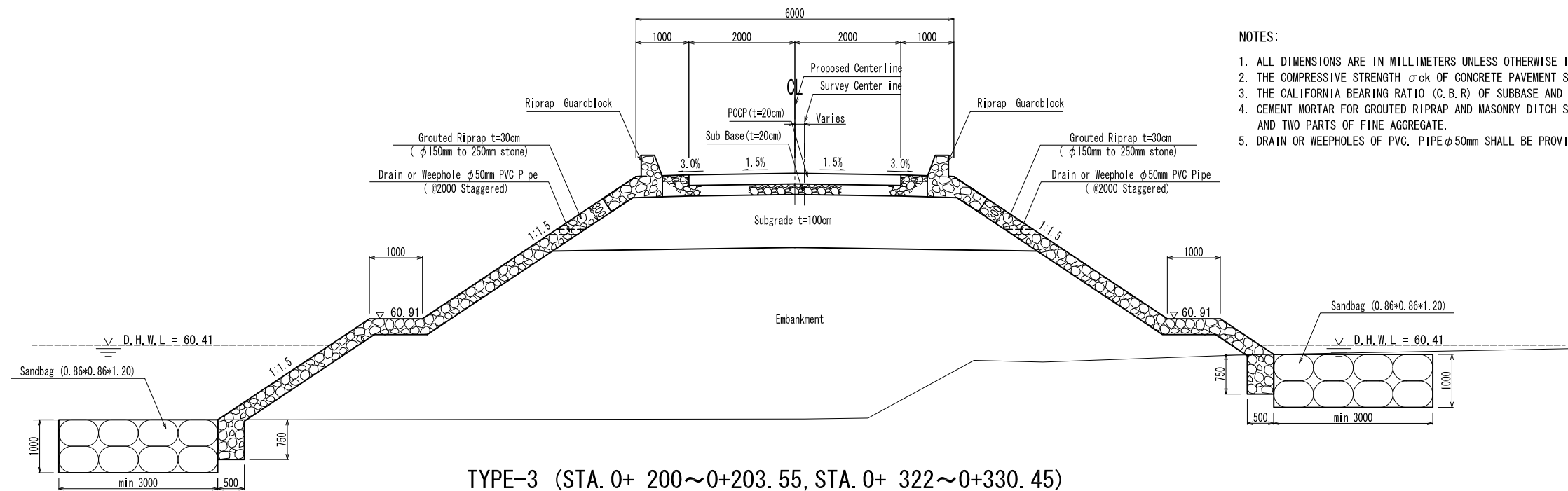
Drawing No.
B05



TYPE-1 (STA. 0+30~0+60 RUNOFF SECTION)



TYPE-2 (STA. 0+ 60~0+203.55)



TYPE-3 (STA. 0+ 200~0+203.55, STA. 0+ 322~0+330.45)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. THE COMPRESSIVE STRENGTH σ_{ck} OF CONCRETE PAVEMENT SHALL BE 24N/mm² (BENDING STRENGTH $\sigma_{28} = 4.0$ N/mm²).
3. THE CALIFORNIA BEARING RATIO (C.B.R) OF SUBBASE AND SUBGRADE SHALL BE 80 AND 6 RESPECTIVELY.
4. CEMENT MORTAR FOR GROUTED RIPRAP AND MASONRY DITCH SHALL BE ONE PART PORTLAND CEMENT AND TWO PARTS OF FINE AGGREGATE.
5. DRAIN OR WEEPHOLES OF PVC. PIPE $\phi 50$ mm SHALL BE PROVIDED AT 2.0m STAGGERED.

DEPARTMENT OF AGRARIAN REFORM
THE REPUBLIC OF THE PHILIPPINES

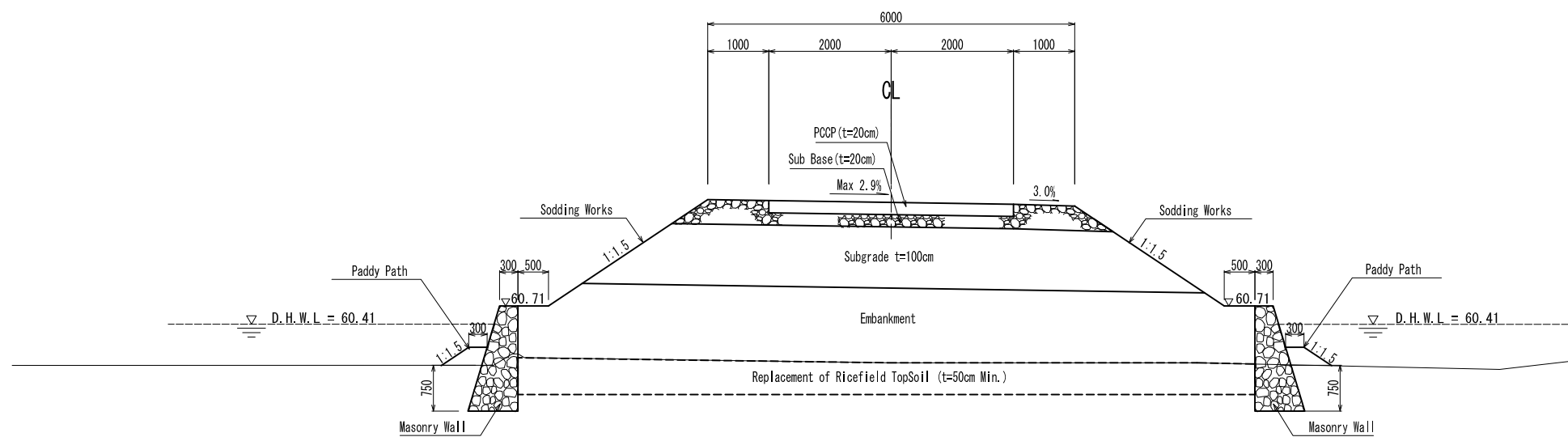
BASIC DESIGN STUDY
ON THE BRIDGE CONSTRUCTION PROJECT
FOR EXPANDED AGRARIAN REFORM
COMMUNITIES DEVELOPMENT

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.

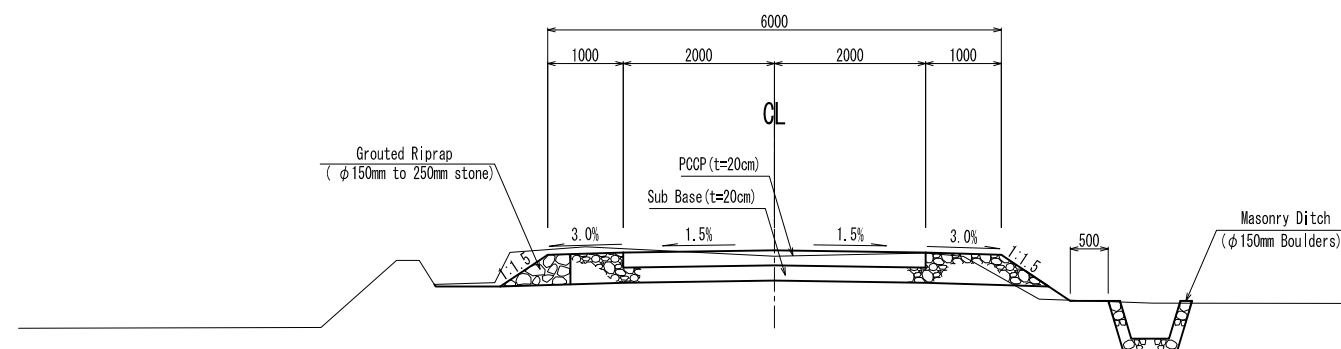
TITLE : BAZAL BRIDGE
TYPICAL CROSS SECTION
OF ROAD SECTION (1/2)

SCALE
S=1:50

Drawing No.
B06



TYPE-4 (STA. 0+ 330.45~0+480)



TYPE-5 (STA. 0+ 480~0+563.5)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. THE COMPRESSIVE STRENGTH σ_{ck} OF CONCRETE PAVEMENT SHALL BE 24N/mm² (BENDING STRENGTH $\sigma_{28} = 4.0$ N/mm²).
3. THE CALIFORNIA BEARING RATIO (C.B.R) OF SUBBASE AND SUBGRADE SHALL BE 80 AND 6 RESPECTIVELY.
4. CEMENT MORTAR FOR GROUTED RIPRAP AND MASONRY DITCH SHALL BE ONE PART PORTLAND CEMENT AND TWO PARTS OF FINE AGGREGATE.
5. DRAIN OR WEEPHOLES OF PVC. PIPE $\phi 50$ mm SHALL BE PROVIDED AT 2.0m STAGGERED.

DEPARTMENT OF AGRARIAN REFORM
THE REPUBLIC OF THE PHILIPPINES

BASIC DESIGN STUDY
ON THE BRIDGE CONSTRUCTION PROJECT
FOR EXPANDED AGRARIAN REFORM
COMMUNITIES DEVELOPMENT

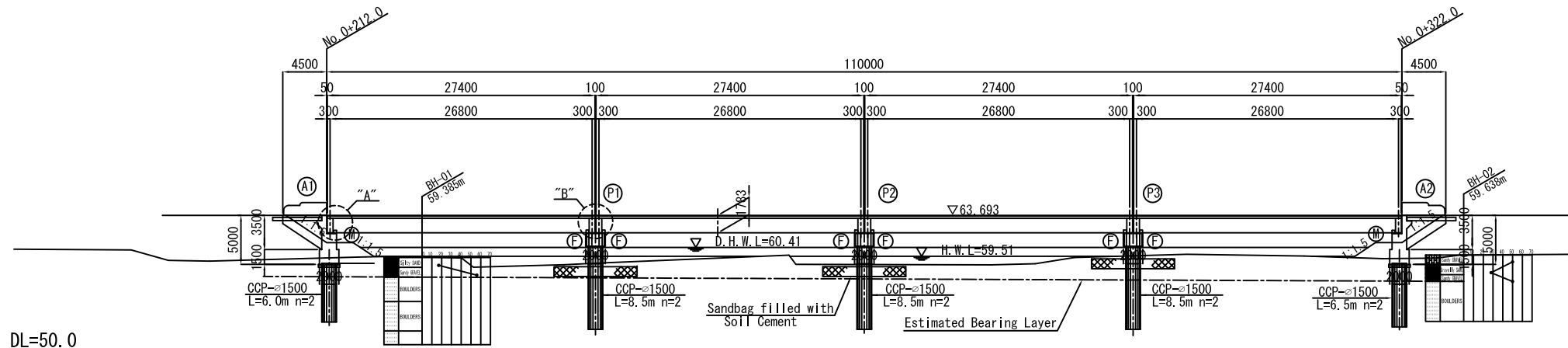
JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.

TITLE : BAZAL BRIDGE
TYPICAL CROSS SECTION
OF ROAD SECTION (2/2)

SCALE
S=1:50

Drawing No.
B07

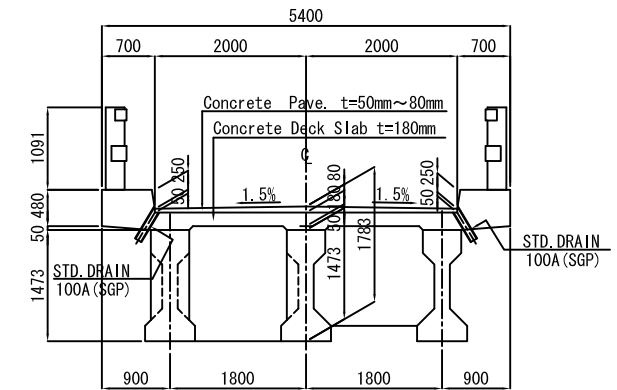
GENERAL DRAWING OF BAZAL BRIDGE



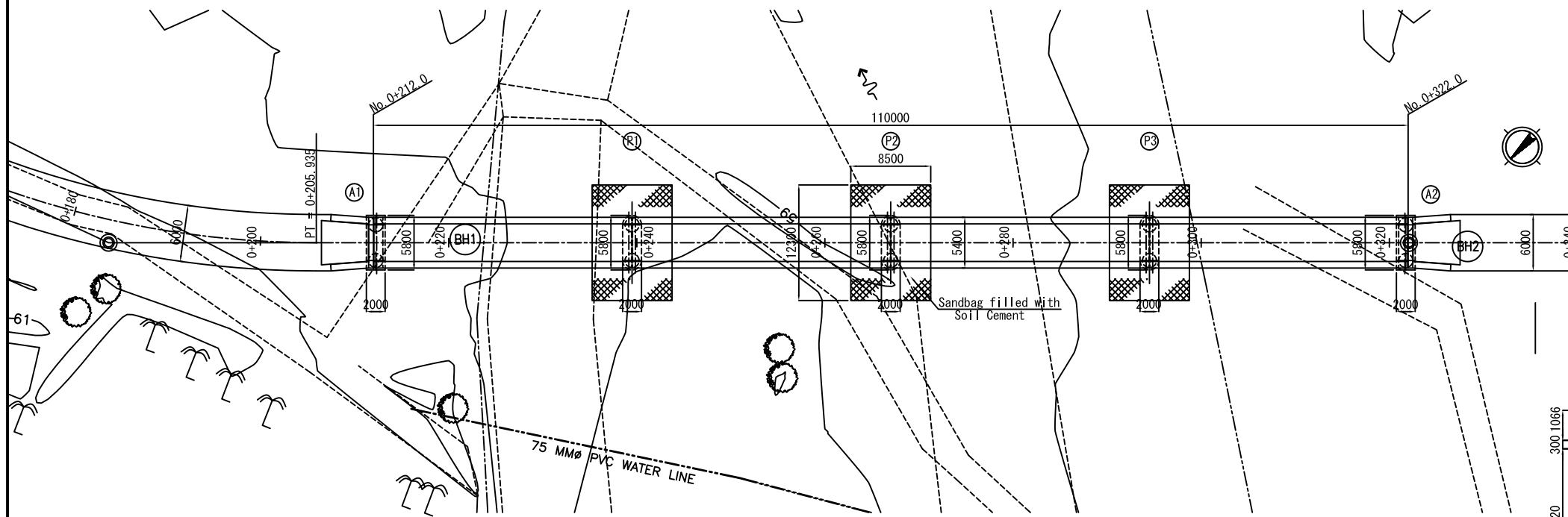
DL=50.0

PROFILE SCALE 1:300

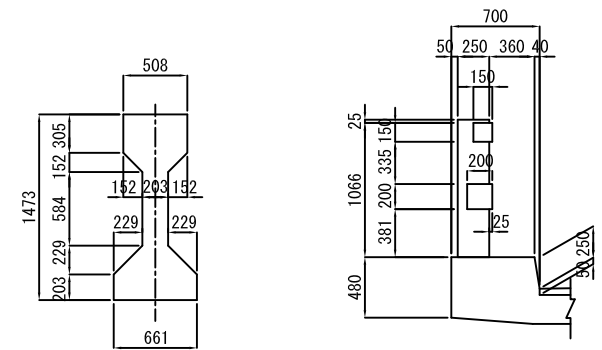
Note
F : Fixed Support
M : Movable Support



BRIDGE CROSS SECTION SCALE 1:50

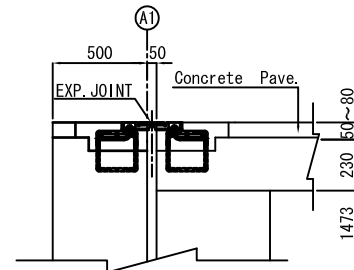


PLAN SCALE 1:300

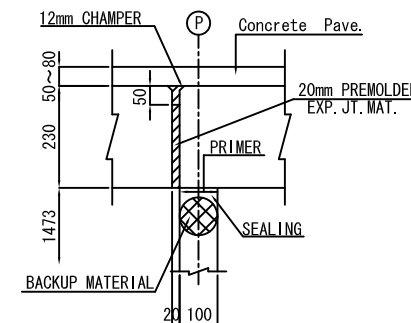


PC GIRDER TYPE IV-A SCALE 1:30

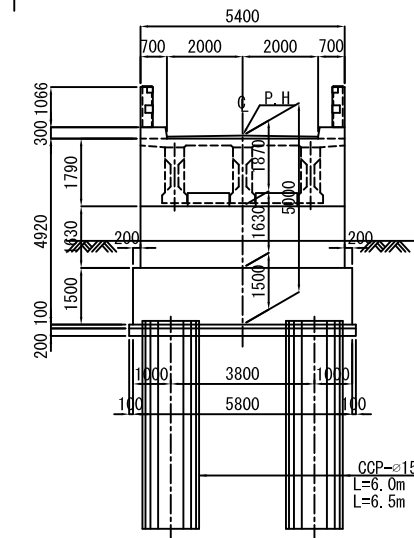
DETAIL SCALE 1:30



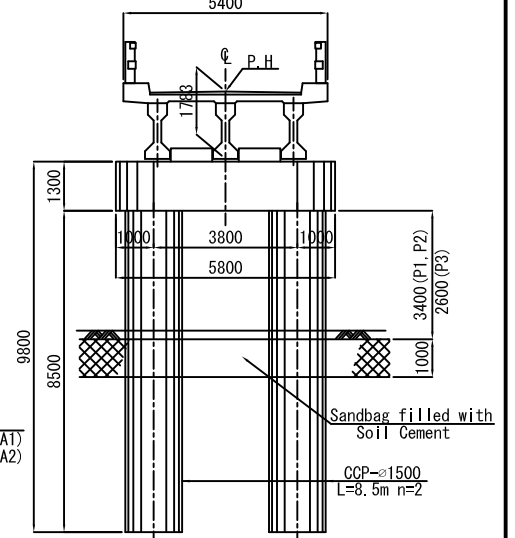
DETAIL "A" SCALE 1:20



DETAIL "B" SCALE 1:10



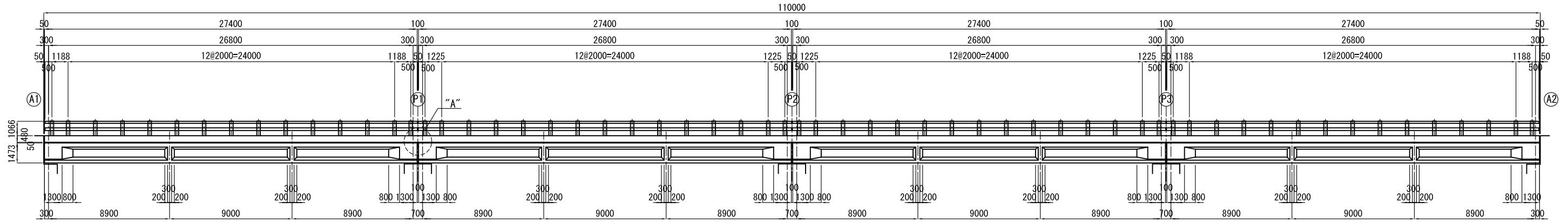
ABUTMENT SCALE 1:100



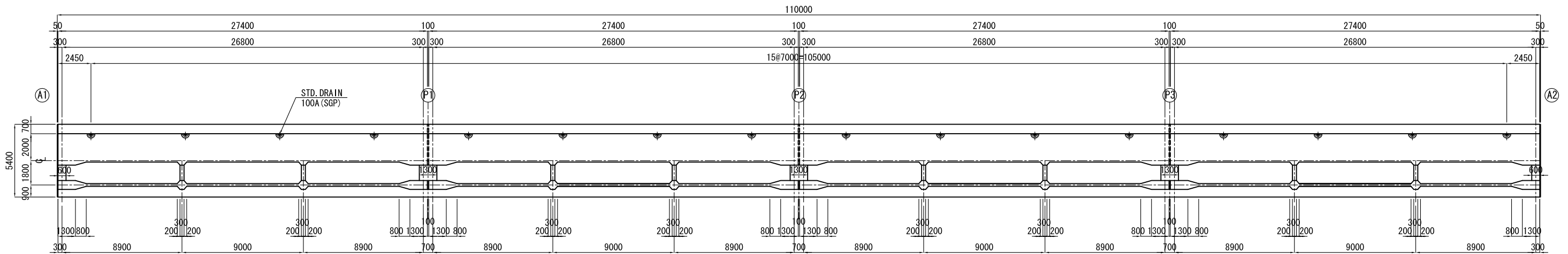
PIERS SCALE 1:100

STRUCTURAL DRAWING OF SUPERSTRUCTURE

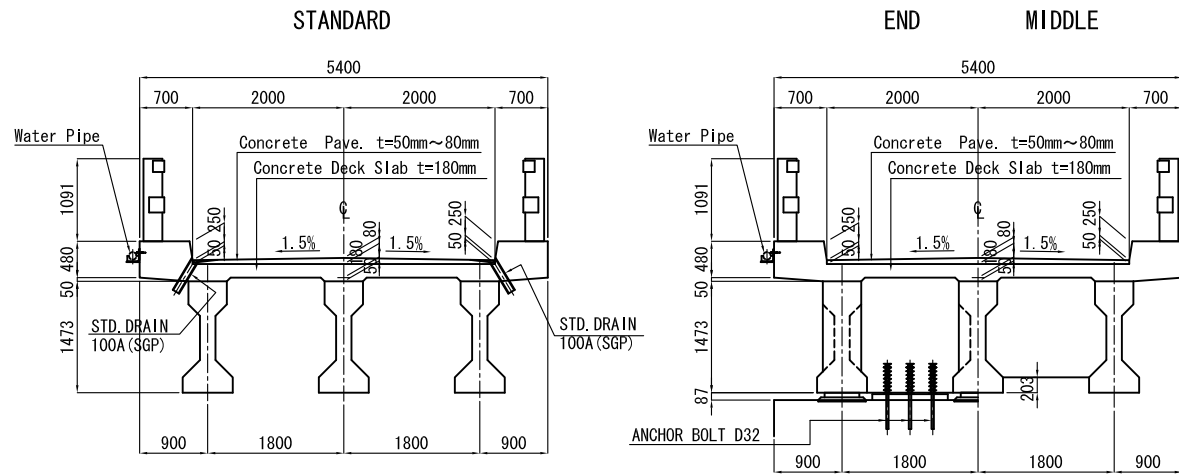
ELEVATION SCALE 1:150



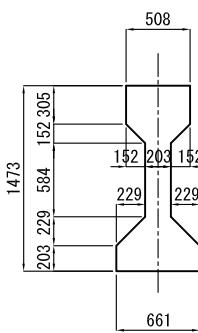
PLAN SCALE 1:150



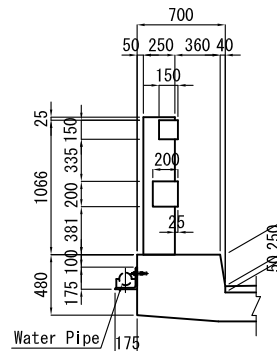
BRIDGE CROSS SECTION SCALE 1:50



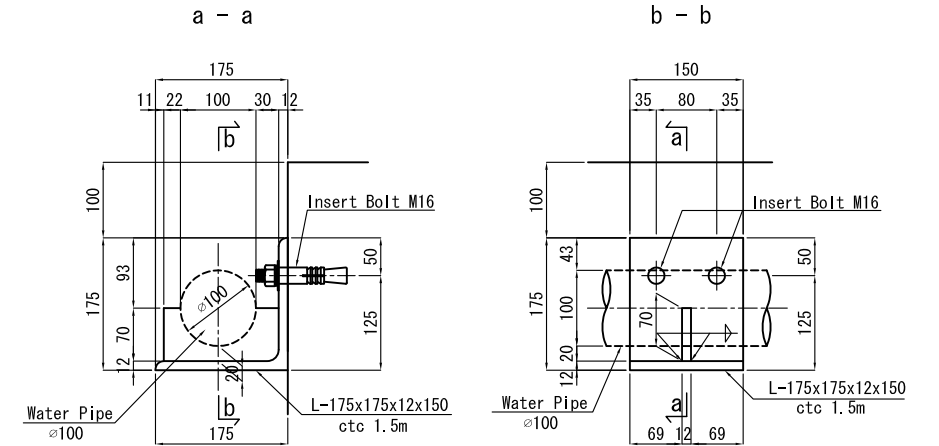
PC GIRDER TYPE IV-A SCALE 1:30



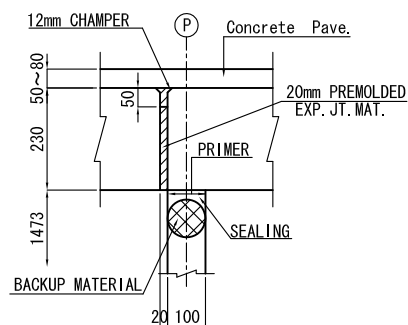
DETAIL SCALE 1:30



DETAIL SCALE 1:5



DETAIL "A" SCALE 1:10



STRUCTURAL DRAWING OF A1, A2 ABUTMENT (1) SCALE 1:50

