

The topographic map illustrates the proposed water control structure in the Rio Vally area. Key features include:

- Pump station II:** Located at the upstream end of the structure, indicated by a schematic diagram.
- Rectangular Channel:** Dimensions of 1.8 X 2.0 m.
- CONCRETE BEAM:** Referenced to Detail 5.
- GEOMETRIC BOULDERS:** Size 1X1X0.8, shown as a series of circles along the channel.
- WATER SURFACE:** Indicated by a blue line representing the river's flow.
- Topographic Contours:** Elevation lines ranging from 45.40 to 46.00 feet.
- Scale:** 0 to 12.00 feet.
- North Arrow:** Located in the upper right corner.

Technical drawing of a road cross-section. The road width is 10.00m. The shoulder width is 1.00m. The ditch width is 1.00m. The drawing includes a 1:1 scale bar and a north arrow.

Pump station II

SECTION 1:100
SCALE 1:100

EXISTING ELEVATION

SECTION NUMBER

Lean concrete 5 cm
Layers with controlled compaction
Type A bed in 40 cm
Compacted soil

Geometric BOULDERS
size 1x1x0.8

Geotextile
MEMBRANE 300 g/m²

Gravel 30-40 cm
in 30 cm layer

CONCRETE BETWEEN THE BOULDERS

Existing ground

CONCRETE SLAB

TRASH SCREEN
SET DETAIL 2

INLET CULVERT
1.8 X 2.0 m

Rio Valley

47
46
45
44
43
42
41
40
39
38
37
36
35
34

40.00
39.00
38.50
38.00
37.20

200
1575
200

1
2
3
4

0.00
10.00
20.00
30.00
40.00
50.00

44.92
43.24
38.20
41.42
44.20

[illegible]

STANDARD HORIZONTAL HANDRAIL
SEE DETAIL 7-PLAN 7075-10

STANDARD HORIZONTAL HANDRAIL
SEE DETAIL 7-PLAN 7075-10

47.05

50 40 120 165 165 160 40 50

610

660

365 120 245 40 40.00

170 32.20 70

Lean concrete 5cm
Layers with controlled compaction
Type A bed in 40 cm
Compacted soil

CONCRETE SLAB
DETAIL 1

RUBBLE: 5-15 cm
IN 30 cm LAYER

GEOTEXTILE
MEMBRANE 300 GR/M²

GEOMETRIC BOULDERS
size 150 Ø

Excavated tunnel
INLET CULVERT

180

40.00

50

50

180

RUBBLE: 5-15 cm
IN 30 cm LAYER

GEOTEXTILE
MEMBRANE 300 GR/M²

GEOMETRIC BOULDERS
size 150 Ø

Technical drawing of a vertical compaction machine. The machine is shown in a side elevation view. It features a motor at the top, connected to a vertical shaft. The shaft has a diameter of 40.00 V. The machine is mounted on a base with a total width of 1000 mm (100 + 40 + 250 + 40 + 290 mm). The height of the machine is 150 mm. The shaft is supported by two vertical guides, each 125 mm wide. The machine is designed to compact a 40 cm high layer of material. The base consists of lean concrete 5 cm thick, followed by layers with controlled compaction, Type A bed in 40 cm, and compacted soil. The machine has a handrail on the left side. Dimensions are given in mm.

Dimensions (mm):

- Top width: 100, 40, 250, 40, 290
- Height: 150
- Shaft diameter: 40.00 V
- Guide width: 125, 125
- Base height: 37.00 V
- Compaction height: 40.00 V
- Handrail height: 47.05

Legend:

- Lean concrete 5cm
- Layers with controlled compaction
- Type A bed in 40 cm
- Compacted soil

Top view
scale 1:50

DETAIL 3

ML : This length determines according to the on-site measurements

DETAIL 3
scale 1:50

L 3X3X1/4

Ø20B15

DETAIL 4

L 3X3X1/4

DETAIL 3
scale 1:1

L 3X3X1/4

WELDING

Hole for bolt Ø5/8"

150X60
±5 mm

100

50

The angle determines according to the existent condition

Connecting to the concrete element
scale 1:10

Concrete slab

bolt Ø5/8"

Nut

WELDING

Trash screen

NOTES :
*BEFOR PERFORMING THE CONFRACTOR MUST DEFINE ALL THE DIMENSIONS IN THE FIELD.

DETAIL 4
scale 1:10

ø20 1.5

3x3/4

WELDING

[illegible]