

PORTAL DRAWINGS



परियोजना निदेशक

Project Director

भारतीय राष्ट्रीय रसायनीक प्राधिकरण, परियोजना इकाई रामबन
National Highway Authority of India, PIU, Ramban

LONGITUDINAL SECTION START PORTAL CH. 147+967

SCALE 1:100

SHOTCRETE M25, 100mm THK.
WITH WIREMESH
(Ø100x100x6mm (TYP.)

Ø76mm DRAINAGE HOLES WITH
PERFORATED PVC PIPE 5.0m
LONG @ 4.0m c/c
STAGGERED PATTERN

Ø32mm, FULLY GROUTED
SELF DRILLING ANCHORS
6.0m LONG @ 2.0m c/c
STAGGERED PATTERN

PIPE PROOFING 114mmØ, 6.3mm THICK
PIPE 9.0m LONG @ 0.30m c/c

LATTICE GIRDERS IN THE INITIAL REACH
AS PER ROCK CLASS - P5

परियोजना निदेशक

Project Director

भारतीय राष्ट्रीय सड़क प्राधिकरण, परियोजना इकाई रामबान

National Highway Authority of India, PIU, Ramban

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE METERS OTHERWISE SPECIFIED.

Client :-



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

Project Title :-

CONSTRUCTION OF TUNNELS/VIADUCTS AT IDENTIFIED SLIDING/SLIP
ZONES IN DESIGN CH. 130+550 TO CH. 130+750; CH. 131+170 TO CH. 131+763,
CH. 132+560 TO CH. 133+168, CH. 133+590 TO CH. 133+743 AND CH. 147+877 TO
148+715 IN UDHAMPUR-RAMBAN SECTION OF NH-44 IN THE UT OF J&K
UNDER RESIDUAL NHDP ON EPC MODE

Drawing Name :-

TYPICAL SLOPE PROTECTION
TUNNEL MEASURES FOR
START PORTAL SECTION CH. 147+967

Intercontinental Consultants & Technocrats Pvt. Ltd.,
in Joint Venture with

ALTINOK Consulting Engineering Inc.
A-8, Green Park, New Delhi - 110016, India



ALTINOK
INDIA PRIVATE LIMITED

M Srivastava

Prepared by

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Designed by

Manoj Kumar

Checked by

Sandip Bhattacharjee

Approved by

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PERFORATED PVC PIPE 5.0m
LONG @ 4.0m c/c
STAGGERED PATTERN

Ø32mm, FULLY GROUTED
SELF DRILLING ANCHORS
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SHOTCRETE M25, 100mm THK.
WITH WIREMESH
(Ø100x100x6mm (TYP.)

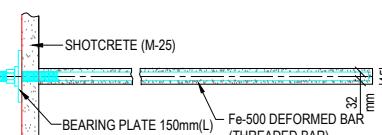
Ø76mm DRAINAGE HOLES WITH
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STAGGERED PATTERN

SHOTCRETE M25, 100mm THK.
WITH WIREMESH
(Ø100x100x6mm (TYP.)

Ø76mm DRAINAGE HOLES WITH
PERFORATED PVC PIPE 5.0m
LONG @ 4.0m c/c
STAGGERED PATTERN

FULLY GROUTED SELF DRILLING ANCHOR.
DESIGN TENSILE CAPACITY OF 19.0 TONNES
YIELD STRENGTH OF 24.5 TONNES



DETAIL-B
SECTION 1:10
032mm FULLY GROUTED SELF DRILLING ANCHOR

CROSS SECTION START PORTAL SECTION CH. 147+967

SCALE 1:100

SCALE
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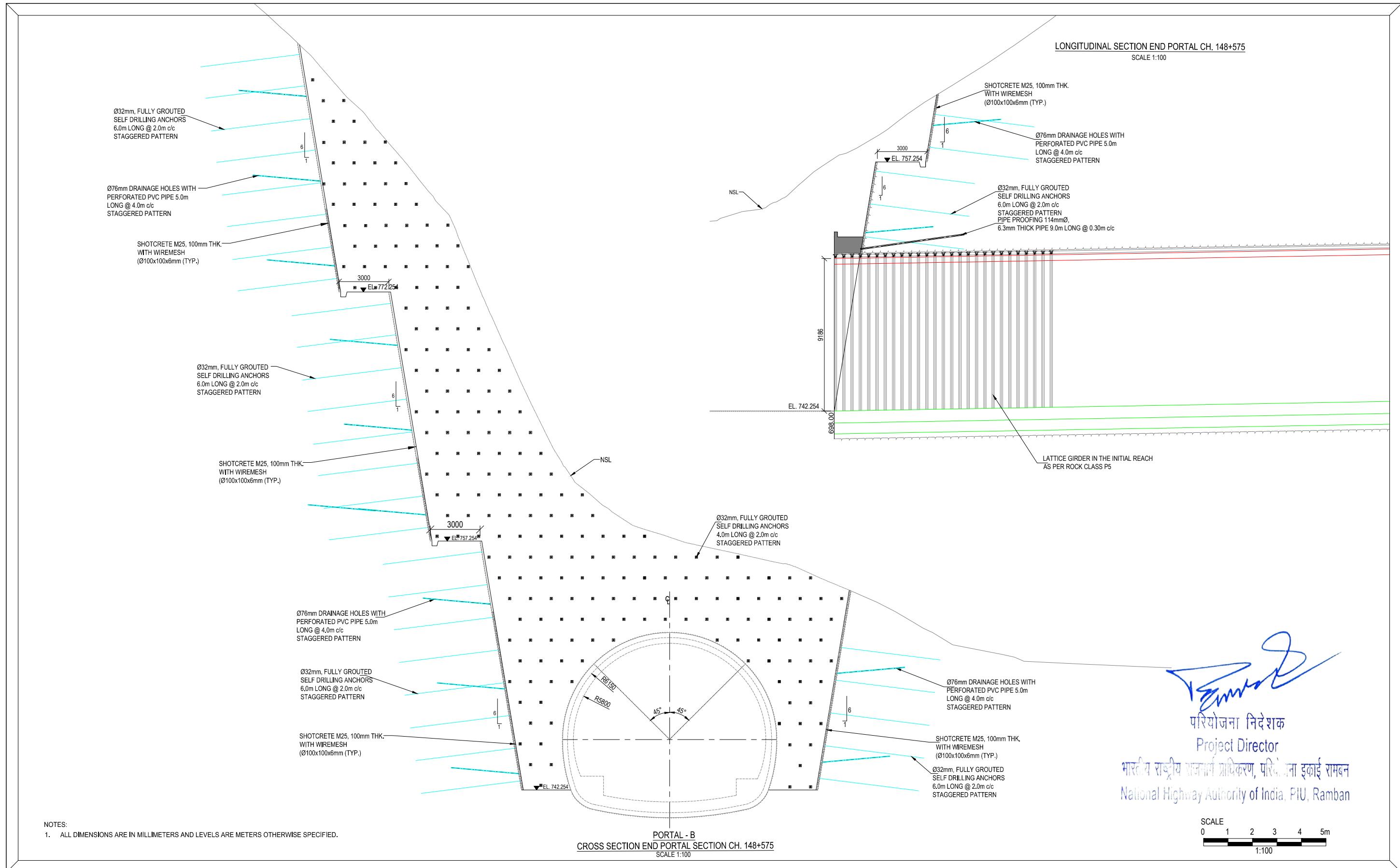
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			Prepared by		Designed by	Approved by
			Drawing Title :- NHAI / UDM - RAM / PD / 02		Scale :- 1:100	
			Rev. R0			