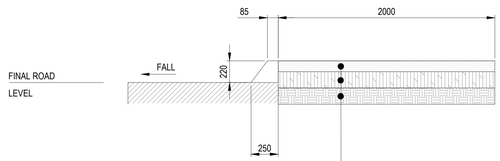


CURING COMPOUND		WHITE PIGMENTED SOLVENT RESIN-BASED
PJCP	100 mm	PLAIN JOINTED CONCRETE PAVEMENT WITH 30 MPa COMPRESSIVE STRENGTH; 20.0 mm NOMINAL COARSE AGGREGATE SIZE; MESH REF 193 WHERE REQUIRED; SURFACE TO HAVE WOOD FLOAT FINISH.
G7	150 mm	RIP & RE-COMPACT IN-SITU GRAVEL-SOIL MATERIAL COMPACTED TO 93% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 15% @ 93 MODIFIED AASHTO DENSITY.

PJCP SIDEWALK PAVEMENT STRUCTURE 1



CURING COMPOUND		WHITE PIGMENTED SOLVENT RESIN-BASED
PJCP	100 mm	PLAIN JOINTED CONCRETE PAVEMENT WITH 30 MPa COMPRESSIVE STRENGTH; 20.0 mm NOMINAL COARSE AGGREGATE SIZE; MESH REF 193 WHERE REQUIRED; SURFACE TO HAVE WOOD FLOAT FINISH.
G7	150 mm	SELECTED LAYER: IMPORTED GRAVEL-SOIL MATERIAL COMPACTED TO 95% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 15% @ 93 MODIFIED AASHTO DENSITY.
G9	Varies Fill	IMPORTED GRAVEL/SOIL MATERIAL COMPACTED TO 93% MODIFIED AASHTO DENSITY CBR TO BE A MINIMUM OF 7% @ 93% MODIFIED AASHTO DENSITY.
G9	150 mm	RIP & RE-COMPACT IN-SITU GRAVEL-SOIL MATERIAL COMPACTED TO 93% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 7% @ 93 MODIFIED AASHTO DENSITY.

PJCP SIDEWALK PAVEMENT STRUCTURE 2

NOTES:

THE RELATIONSHIP BETWEEN THE 28-DAY CUBE COMPRESSIVE STRENGTH AND THE 28-DAY FLEXURAL STRENGTH OF THE 300mm PJCP CONCRETE SHALL BE ESTABLISHED BY LABORATORY TESTS.

THE SPECIFIED COMPRESSIVE STRENGTH FOR THE 300mm PJCP SHALL BE THE HIGHEST OF THE FOLLOWING FOUR VALUES:

(i) 40MPa AT 28 DAYS; OR
(ii) 0.85 fc1 WHERE fc1 IS THE 28-DAY COMPRESSIVE STRENGTH CORRESPONDING TO A 28-DAY FLEXURAL STRENGTH OF 5.2MPa.
(iii) 0.85 fc2, WHERE fc2 IS THE 28-DAY COMPRESSIVE STRENGTH CORRESPONDING TO A WATER: CEMENT RATIO OF 0.53.
(iv) 0.85 fc3, WHERE fc3 IS THE 28-DAY COMPRESSIVE STRENGTH CORRESPONDING TO A CEMENT CONTENT OF 320 kg/m3.

WHERE fc1, fc2 AND fc3 SHALL BE THE 28-DAY COMPRESSIVE STRENGTHS DETERMINED FROM LABORATORY MIXES AS PRESCRIBED IN CLAUSE 7104.

THE MINIMUM REQUIRED 28-DAY SPECIFIED COMPRESSIVE STRENGTH FOR THE LMC AND PJCP FOR THE SIDEWALKS SHALL BE INDICATED IN THE TABLE BELOW:

PAVEMENT TYPE	COMPRESSIVE STRENGTH
100 TO 150 LMC	15MPa
100mm PJCP (SIDEWALKS)	30MPa



ASPHALT OVERLAY	40 mm	PROPRIETARY SEMI-RIGID ASPHALT SURFACING COMPRISING SPECIFICALLY GRADED CONVENTIONAL OPEN-GRADED ASPHALT SURFACING (20% TO 25% VOIDS). THE VOIDS OF WHICH ARE FILLED WITH A RESIN MODIFIED CEMENTITIOUS GROUT
TACK COAT	NA	30% STABLE-GRADE EMULSION (APPLIED AT 0.55l/m²)

BRIDGE DECK ASPHALT OVERLAY

NOTES

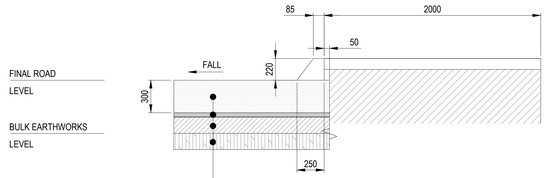
1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

LOCALITY



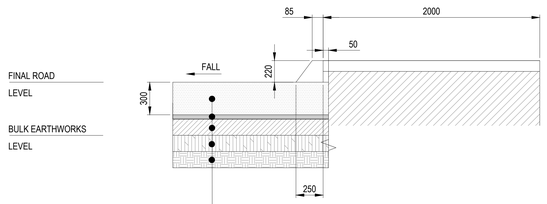
LEGEND

SYMBOL	DESCRIPTION



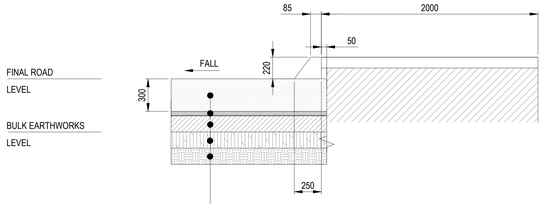
CURING COMPOUND		WHITE PIGMENTED SOLVENT RESIN-BASED
PJCP	300 mm	PLAIN JOINTED CONCRETE PAVEMENT WITH 5.2 MPa FLEXURAL STRENGTH; 37.5 mm NOMINAL COARSE AGGREGATE SIZE; MESH REF 500 WHERE REQUIRED; 20 mm X 114 mm x 114 mm DIAMOND DOWELS @ 450 mm SPACING; Y20 TIE-BARS WITH 900 mm LENGTH @ 500 mm SPACING; SURFACE TO HAVE BROOM TEXTURE FINISH.
CURING COMPOUND	NA	WAX EMULSION COMPLYING WITH REQUIREMENTS OF ASTM C309, CLASS A WITH MINIMUM 30% NON-VOLATILE CONTENT.
LMC	150 mm	LEAN MIX CONCRETE SUBBASE WITH 15 MPa COMPRESSIVE STRENGTH; 20.0 mm NOMINAL COARSE AGGREGATE SIZE; SURFACE TO HAVE BULL FLOAT FINISH.
G7	150 mm	SELECTED LAYER: IMPORTED GRAVEL-SOIL MATERIAL COMPACTED TO 95% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 15% @ 93 MODIFIED AASHTO DENSITY.
G9	150 mm	RIP & RE-COMPACT IN-SITU GRAVEL-SOIL MATERIAL COMPACTED TO 93% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 7% @ 93 MODIFIED AASHTO DENSITY.

PJCP PAVEMENT STRUCTURE 1



CURING COMPOUND		WHITE PIGMENTED SOLVENT RESIN-BASED
PJCP	300 mm	PLAIN JOINTED CONCRETE PAVEMENT WITH 5.2 MPa FLEXURAL STRENGTH; 37.5 mm NOMINAL COARSE AGGREGATE SIZE; MESH REF 500 WHERE REQUIRED; 20 mm X 114 mm x 114 mm DIAMOND DOWELS @ 450 mm SPACING; Y20 TIE-BARS WITH 900 mm LENGTH @ 500 mm SPACING; SURFACE TO HAVE BROOM TEXTURE FINISH.
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PJCP PAVEMENT STRUCTURE 2



CURING COMPOUND		WHITE PIGMENTED SOLVENT RESIN-BASED
PJCP	300 mm	PLAIN JOINTED CONCRETE PAVEMENT WITH 5.2 MPa FLEXURAL STRENGTH; 37.5 mm NOMINAL COARSE AGGREGATE SIZE; MESH REF 500 WHERE REQUIRED; 20 mm X 114 mm x 114 mm DIAMOND DOWELS @ 450 mm SPACING; Y20 TIE-BARS WITH 900 mm LENGTH @ 500 mm SPACING; SURFACE TO HAVE BROOM TEXTURE FINISH.
CURING COMPOUND	NA	WAX EMULSION COMPLYING WITH REQUIREMENTS OF ASTM C309, CLASS A WITH MINIMUM 30% NON-VOLATILE CONTENT.
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G9	150 mm	RIP & RE-COMPACT IN-SITU GRAVEL-SOIL MATERIAL COMPACTED TO 93% MODIFIED AASHTO DENSITY; CBR TO BE A MINIMUM OF 7% @ 93 MODIFIED AASHTO DENSITY.

PJCP PAVEMENT STRUCTURE 2 (WIDENINGS)

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
E2	FOR TENDER	RR	HVDM	HVDM	18 07 25
E1	FOR TENDER	RR	HVDM	HVDM	26 06 25

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	N. VILAKAZI		18 07 25
CHECKED	W. BOTES		18 07 25
DESIGNED	T. SWANEPOEL		18 07 25
CHECKED	L. LOMBARD		18 07 25

PR.ENG. / PR.TECH./PR. ARCH

NAME	A. HARTMAN	DATE
SIGNATURE		18 07 25
REG. NUMBER	20040405	
TITLE	DR	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME	DATE
SIGNATURE	
REG. NUMBER	
SCALE N.T.S.	

TRANSNET

Transnet National Ports Authority

TRANSNET SOC Ltd : REG No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFRICA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE (REPAIRS TO PORT ROADS)

PAVEMENT LAYERWORKS DETAILS

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
	PROJECT DRG. NO.	REV.
	1006614-DRG-12-UR-CC-D001	T2