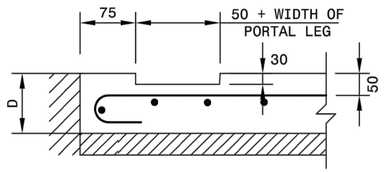


TYPICAL SECTION THROUGH CULVERT SHOWING FLOOR SLAB REINFORCEMENT

SCALE : SCHEMATIC



DETAIL A

SCALE : SCHEMATIC

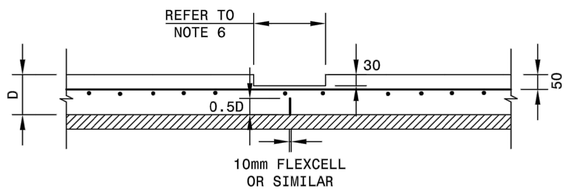
NOTES:

1. CONCRETE CLASS **C25/30-20**.
2. MINIMUM COVER TO REINFORCEMENT IS 50mm.
3. ALL MAIN REINFORCEMENT TO BE FULLY ANCHORED BOTH SIDES.
4. STOOLS SHALL BE PROVIDED TO SUPPORT THE REINFORCEMENT WHERE THE SPAN OF THE PORTAL IS GREATER THAN 1 200mm.
5. THE COMBINATIONS OF FOUNDATION AND INSTALLATION CONDITIONS USED ARE DEFINED AS FOLLOWS:

   CONDITION 1: CULVERTS IN TRENCH ON UNYIELDING FOUNDATION WITH NO PROJECTION.
   CONDITION 2: CULVERTS UNTRENCHED ON YIELDING FOUNDATION.
   CONDITION 3: CULVERTS UNTRENCHED ON UNYIELDING FOUNDATION FOR h > 1.7 x b.
   CONDITION 4: CULVERTS UNTRENCHED ON UNYIELDING FOUNDATION FOR h < 1.7 x b.

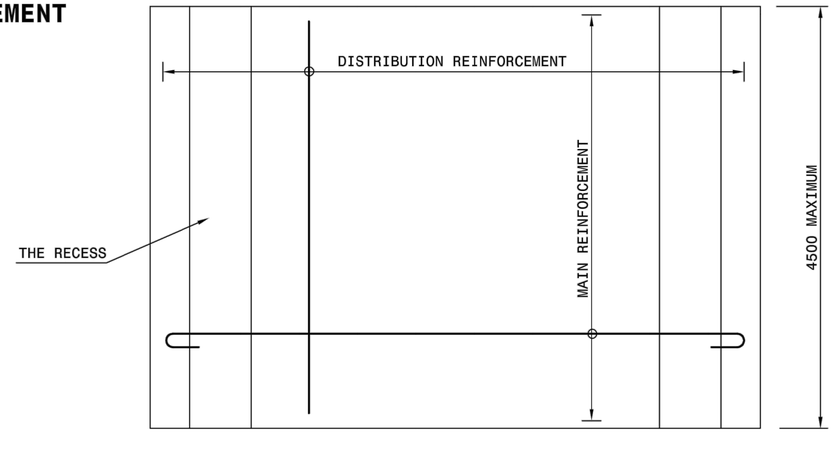
   WHERE h = FILL HEIGHT IN METRES
   b = OVERALL TRENCH WIDTH OR, IF UNTRENCHED, OVERALL CULVERT WIDTH, IN METRES.

6. FOR H < 1.5m, THE WIDTH = 130mm + 2 x WIDTH OF PORTAL LEG,
   FOR H > 1.5m, THE WIDTH = 150mm + 2 x WIDTH OF PORTAL LEG.



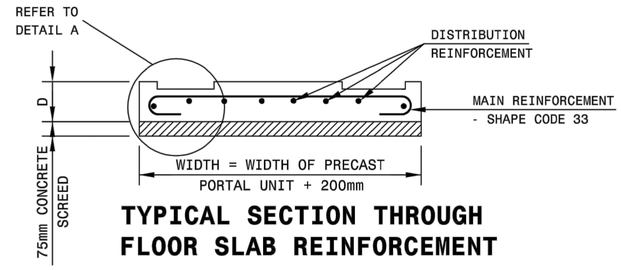
DETAIL B

SCALE : SCHEMATIC



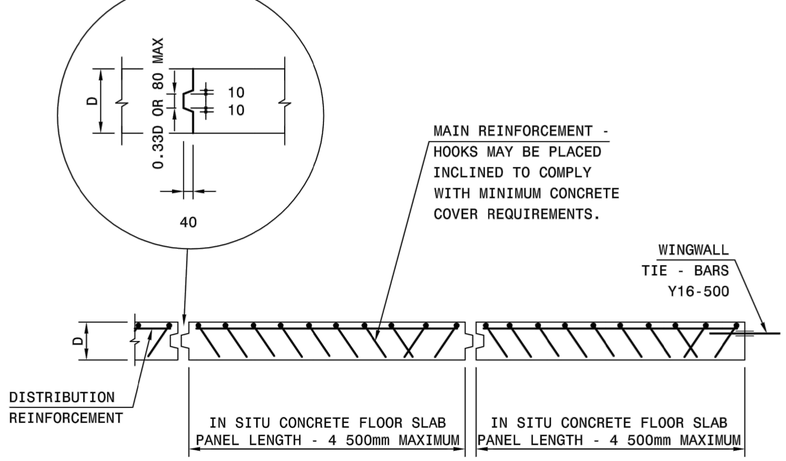
PLAN VIEW FOR SLAB REINFORCEMENT

SCALE : SCHEMATIC



TYPICAL SECTION THROUGH FLOOR SLAB REINFORCEMENT

SCALE : SCHEMATIC



JOINT DETAILS BETWEEN FLOOR SLAB SECTIONS

SCALE : SCHEMATIC

	FOUNDATION CONDITIONS 1 & 2				FOUNDATION CONDITIONS 3 & 4			
	TRENCHED ON UNYIELDING AND UNTRENCHED ON YIELDING				UNTRENCHED ON UNYIELDING			
SPAN (mm)	CLASS	FLOOR THICKNESS D -(mm)	MAIN REINFORCEMENT	DISTRIBUTION REINFORCEMENT	CLASS	FLOOR THICKNESS D - (mm)	MAIN REINFORCEMENT	DISTRIBUTION REINFORCEMENT
600	200 S	150	Y12-150	Y10-250	200 S	150	Y10-200	Y10-250
750	175 S	150	Y12-150	Y10-250	175 S	150	Y10-200	Y10-250
900	175 S	150	Y12-120	Y10-250	175 S	150	Y10-200	Y10-250
1200	150 S	160	Y12-100	Y10-200	150 S	160	Y12-200	Y10-200
1500	100 S	175	Y12-100	Y10-200	100 S	175	Y12-200	Y10-200
1800	75 S	190	Y12-100	Y10-200	75 S	190	Y12-200	Y10-200
2100	75 S	220	Y12-100	Y10-200	75 S	220	Y12-200	Y10-200
2400	75 S	260	Y12-100	Y10-200	75 S	260	Y12-100	Y10-200
3000	75 S	320	Y16-120	Y10-200	75 S	320	Y16-200	Y10-200
3600	75 S	330	Y16-100	Y10-200	75 S	330	Y16-200	Y10-200

FOR TENDER ONLY

No.	DATE	REVISION	CONSULT. ENG.
T01	29/10/2024	ISSUED FOR RETENDER	
T00	28/02/2022	ISSUE FOR TENDER	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

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South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg. No. 1998/030664/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
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Private Bag X17
Lynnwood Ridge
0040

Tel: (012) 426 6200

ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
FOR TRAINING AND CONSTRUCTION MANAGEMENT SERVICES FOR A COMMUNITY DEVELOPMENT PROJECT TO UPGRADE ACCESS ROADS IN AND NEAR KWAMHLANGA TOWNSHIP – MPUMALANGA PROVINCE

DRAWING DESCRIPTION
PRECAST PORTAL CULVERT BASE SLAB

SCALE : NTS
SHEET 1 OF 1

PROJECT NUMBER	C.0R2-053-2023/1	
DRAWING LOCATION DATA	START	END
ROUTE	-	-
SECTION	-	-
DRAWING km DISTANCE	-	-
DRAWING TYPE	TYPICAL DRAWING - DRAINAGE	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	60487450-4-1-C-DA-110-T-01	VER T01
SANRAL DOCUMENT #		

SANRAL TITLE BLOCK #164823d(DWG\PDF) \ VERSION V11.1