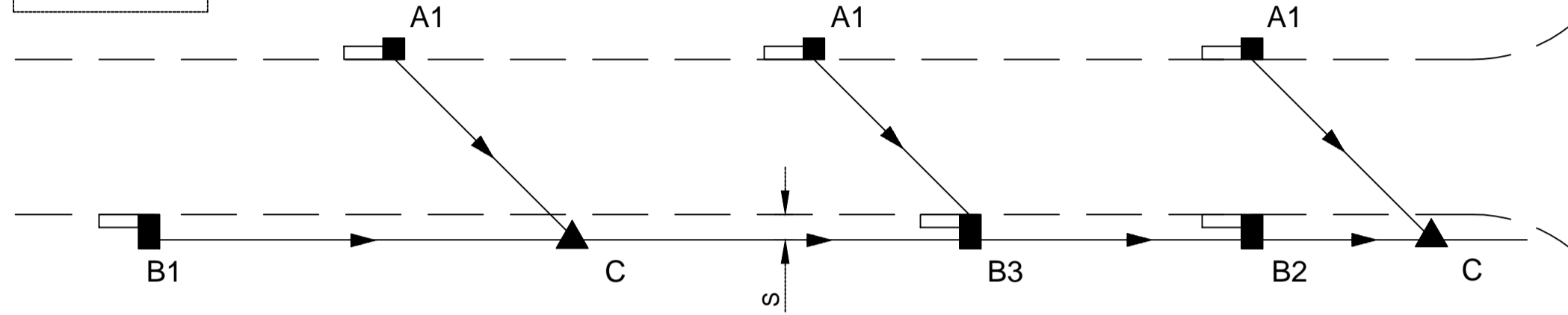


TYPICAL JUNCTION BOX CONFIGURATIONS

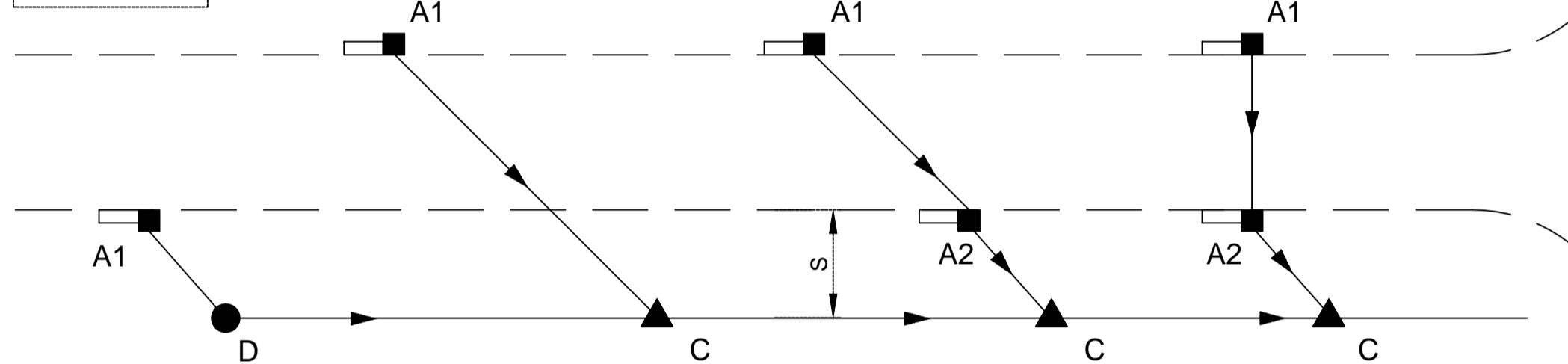
LEGEND:

- A-TYPE JUNCTION BOX TO CONNECT CATCHPIT WITH PIPES, SIZE: 900mm x 600mm
- B-TYPE JUNCTION BOX TO CONNECT CATCHPIT WITH PIPES, SIZE: 900mm x VARIES
- 1 CONNECTING 1 PIPE TO JUNCTION BOX AT CATCHPIT
- 2 CONNECTING 2 PIPES TO JUNCTION BOX AT CATCHPIT
- 3 CONNECTING 3 PIPES TO JUNCTION BOX AT CATCHPIT
- ▲ C-TYPE JUNCTION BOX CONNECTING 3 PIPES (NO CATCHPIT), SIZE VARIES
- D-TYPE JUNCTION BOX CONNECTING 2 PIPES (NO CATCHPIT), SIZE VARIES
- ROAD EDGE
- STORMWATER PIPE AND DIRECTION OF FLOW
- CATCHPIT
- S DISTANCE FROM ROAD EDGE TO FURTHEST WALL OF PIPE OF CULVERT

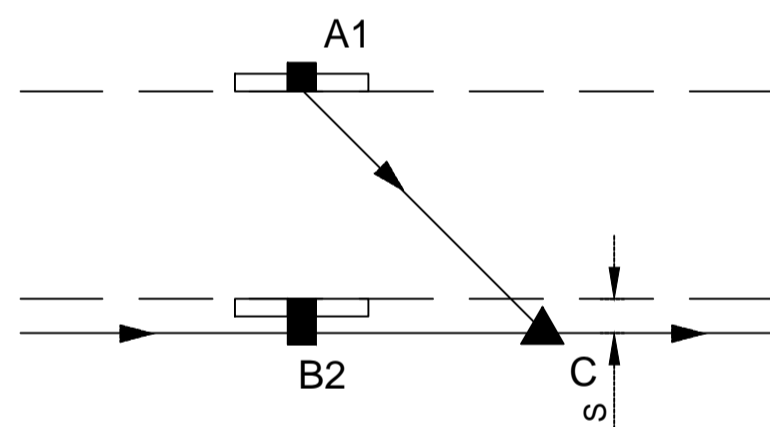
S < 2400mm



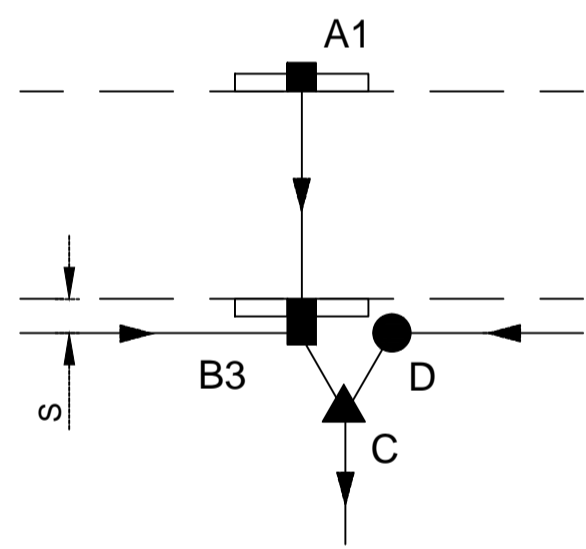
S > 2400mm



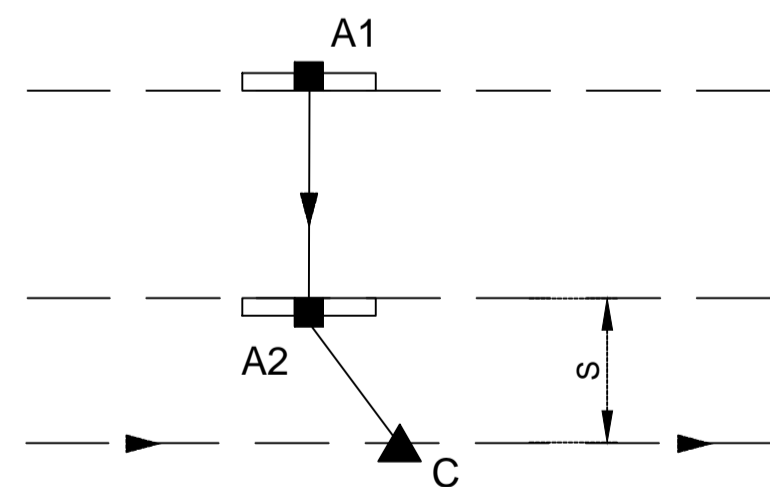
LOW POINT, S < 2400mm



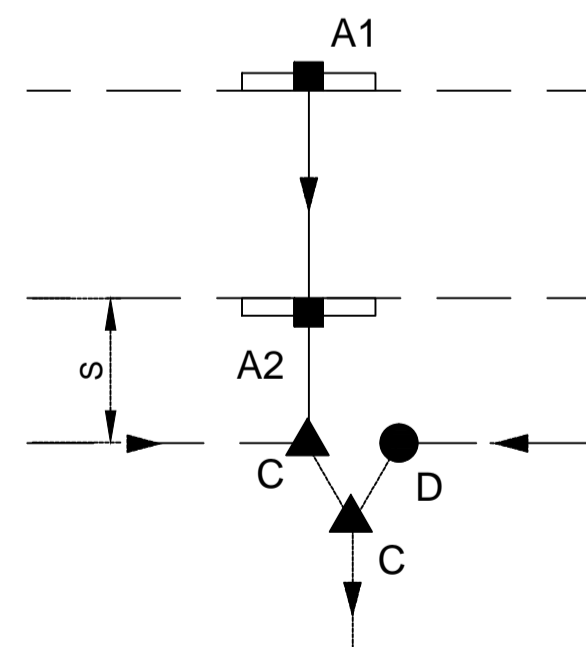
LOW POINT, S < 2400mm



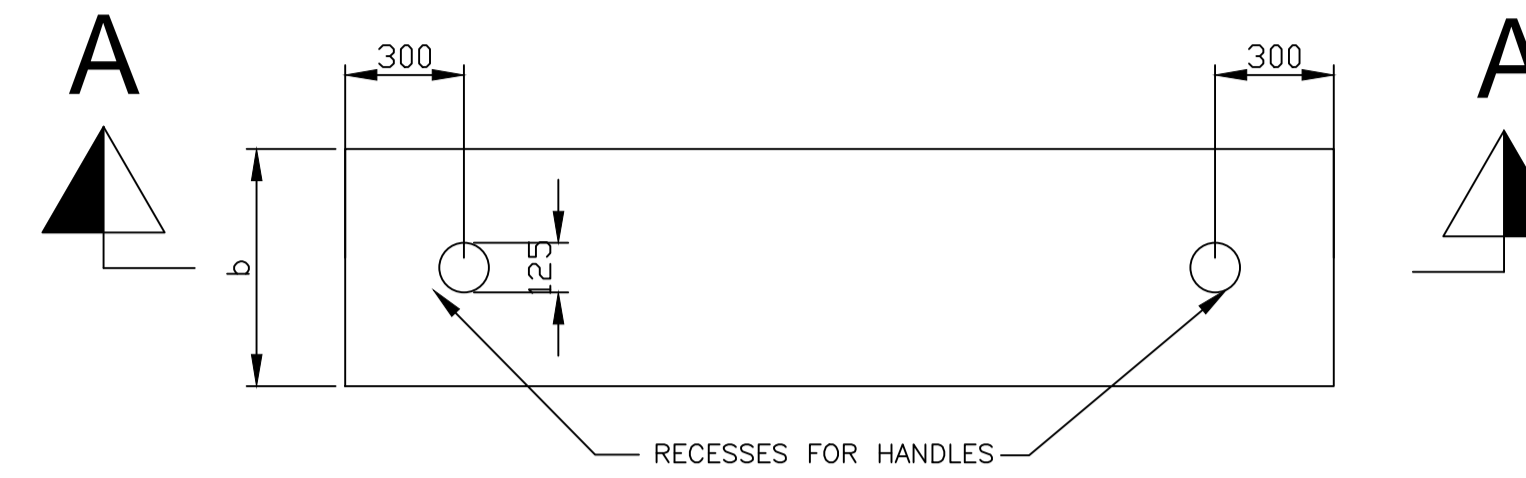
LOW POINT, S > 2400mm



LOW POINT, S > 2400mm

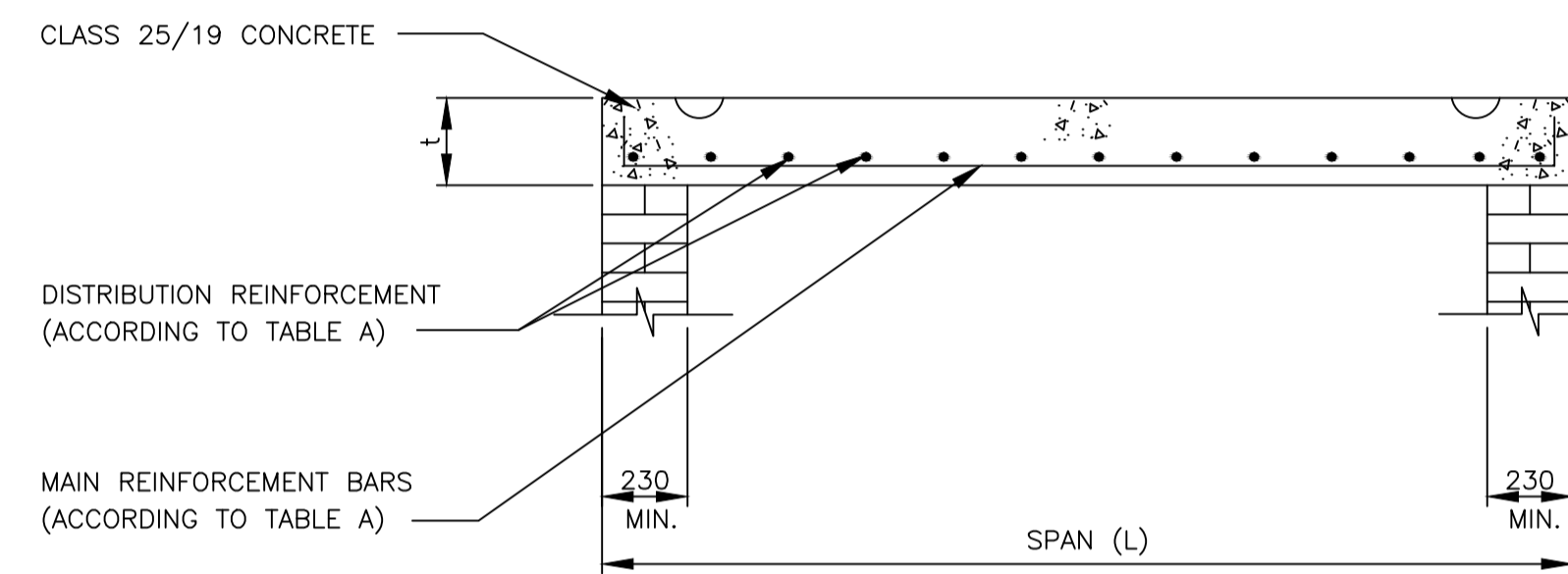


PRECAST COVER SLAB FOR JUNCTION BOXES



PLAN OF PRECAST COVER SLAB

SCALE 1: 20



SECTION A-A

SCALE 1: 20

TABLE A: PRECAST COVER SLAB REINFORCEMENT DETAILS

Span (mm) L	Thickness (mm) t	Main Reinforcement	
		b = 450	b = 600
Up to 500	125	4Y12 -125	5Y12 -125
Up to 1000	150	5Y12 -100	5Y12 - 125
Up to 1250	150	4Y16 -125	5Y12 - 125
Up to 1500	175	4Y 16 -125	5Y12 - 125
Up to 1750	175	4Y16 -125	5Y16 - 125
Up to 2000	200	4Y16 -125	5Y16 - 125
Up to 2250	200	4Y 16 -125	5Y16 - 125
Up to 2500	200	5Y16 -100	5Y16 - 125
Up to 2750	225	5Y16 -100	5Y16 - 125
Up to 3000	225	5Y16 -100	6Y16 - 125

Distribution reinforcement: Y10 bars @ 125 c/c for all spans
Refer to notes for bending details.

NOTES AND SPECIFICATIONS

1. JUNCTION BOX CONFIGURATION

1.1 Symbols used to indicate the junction box types are only for purposes of this drawing, and not applicable to working drawings.

2. PRECAST COVER SLABS

- 2.1 Concrete to be class 25/19 (25MPa)
- 2.2 Concrete to be cured for a minimum period of 7 days.
- 2.3 Minimum cover to reinforcement = 20mm
- 2.4 Lifting handles as specified or otherwise approved by the Engineer.
- 2.5 Reinforcement
 - i) Type, bar and spacing as specified in Table A.
 - ii) Main reinforcement to be shape code 38, with hook length (A dimension) not less than t - 60, except for slabs with a span not exceeding 1000mm, where no hooks are required and shape code 20 is used.
- 2.6 Also refer to section 502, 702, 703 and 704 of the Standard Specifications for Municipal Civil Engineering Works, 3rd Edition, 2005.

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

DESIGNED J. CRONJE	DRAWN S. AUDIE
DESIGN CHECKED BY S. NAIDOO	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS

CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT

GROUP HEAD
Mr Letloikane P. (Pheko)
P.O. BOX 1409
PRETORIA
0001



DIVISIONAL HEAD
Mr Marven K. Thugale
P.O. BOX 1409
PRETORIA
0001

TRANSPORT INFRASTRUCTURE DESIGN AND CONSTRUCTION DIVISIONAL HEAD Mr K. Thugale (Marven)	DRAWING RECOMMENDED BY DIVISIONAL HEADS TRANSPORTATION PLANNING DIVISIONAL HEAD Mr L. Swanspoel (Lourens)
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____

DRAWING APPROVED BY GROUP HEAD
Mr Letloikane P. (Pheko)

TYPICAL STANDARD DETAILS

MANHOLE DETAILS TYPICAL JUNCTION BOX CONFIGURATION AND COVER SLAB DETAIL

CONTRACT No.:	PROJECT No.:
DATE: MAY 2022	SCALE: AS SHOWN
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