

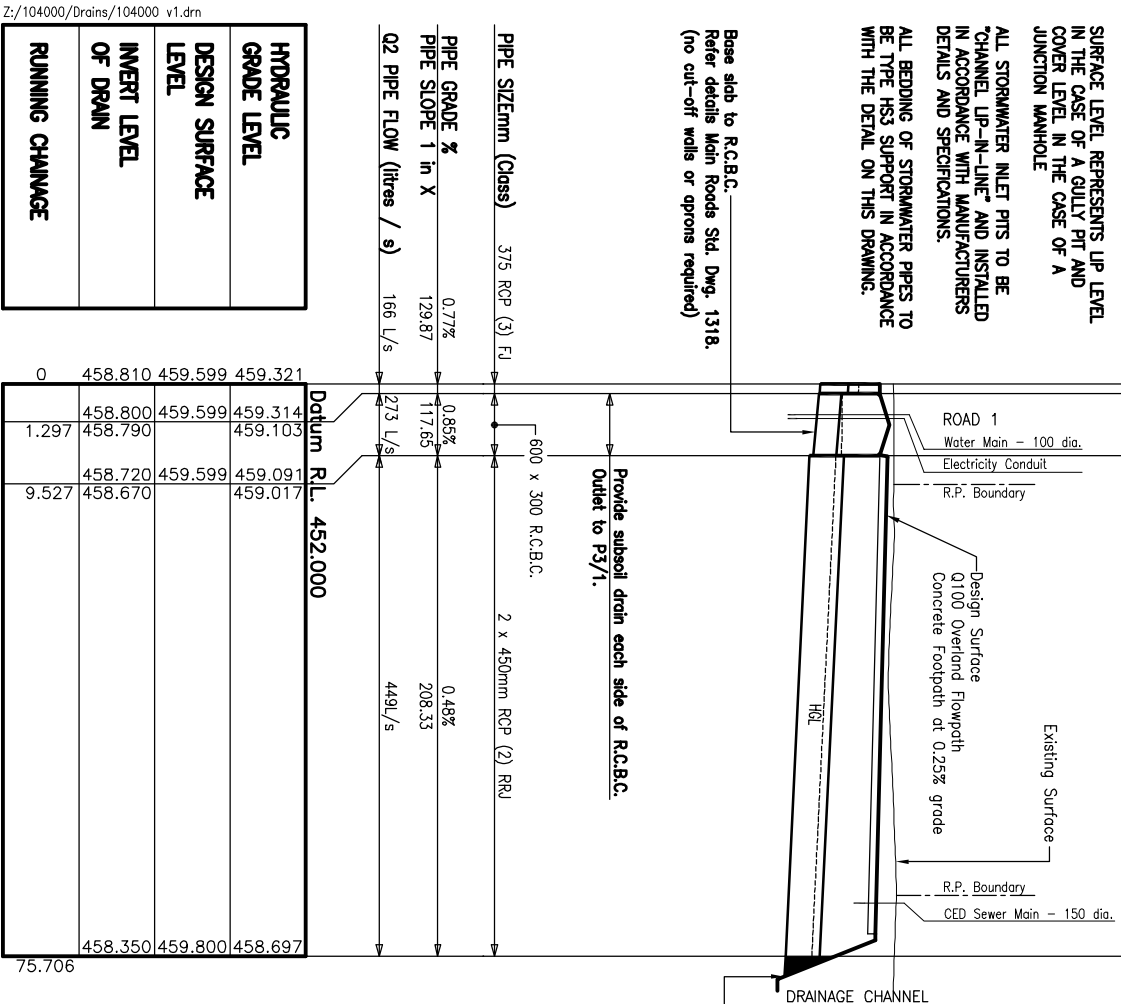
STRUCTURE NAME	
STRUCTURE DESCRIPTION	

LEGEND:
 WSE - Water Surface Elevation
 HGL - Hydraulic Grade Line
 SL - Surface Level
 GL - Gully Level
 LL - Lip Level

STORMWATER NOTES:
 SURFACE LEVEL REPRESENTS UP LEVEL IN THE CASE OF A GULLY PIT AND COVER LEVEL IN THE CASE OF A JUNCTION MANHOLE

ALL STORMWATER INLET PITS TO BE "CHANNEL UP-IN-LINE" AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS DETAILS AND SPECIFICATIONS.
 ALL BEDDING OF STORMWATER PIPES TO BE TYPE HSS3 SUPPORT IN ACCORDANCE WITH THE DETAIL ON THIS DRAWING.

Base slab to R.C.B.C. Refer details Main Roads Std. Dwg. 1318. (no cut-off walls or aprons required)

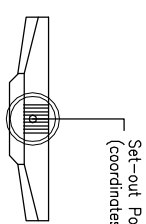


P1/1	Q-KIS 2.4m On-Grade Gully on 1050 CPO
P2/1	Q-KIS 2.4m On-Grade Gully on 1050 CPO
P3/1	Q-KIS 3.6m Sag Gully on 1050 CPO extended 600
HW1/1	Twin Pre-cast

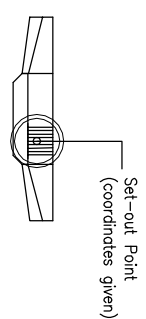
Sloping Headwalls including cut-off walls to outlet

DRAINAGE STRUCTURES SET-OUT POINTS

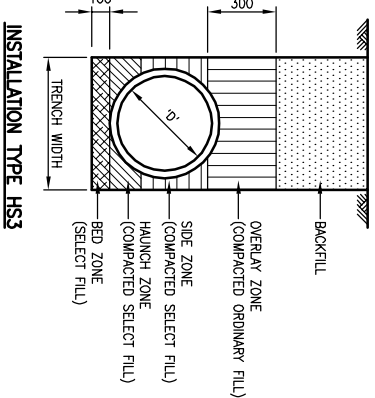
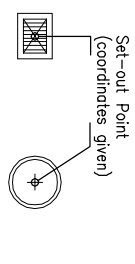
SAG GULLY



ON GRADE GULLY



ROOFWATER PIT MANHOLE



TYPE HSS3 SUPPORT

1. THE HAUNCH ZONE GOES FROM THE BASE OF THE PIPE TO A HEIGHT OF 0.3 TIMES THE DIAMETER OF THE PIPE (i.e. TO 3/10 OF THE DIAMETER OF THE PIPE).
2. THE HAUNCH ZONE IS COMPACTED TO A MINIMUM DRY DENSITY OF 95%.
3. THE SIDE ZONE GOES FROM THE TOP OF THE HAUNCH ZONE TO A HEIGHT OF 0.7 TIMES THE DIAMETER OF THE PIPE (i.e. TO 7/10 OF THE DIAMETER OF THE PIPE).
4. THE SIDE ZONE IS COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 93%.
5. THERE IS A 300mm. OVERLAY ZONE OF COMPACTED ORDINARY FILL, COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 95%.

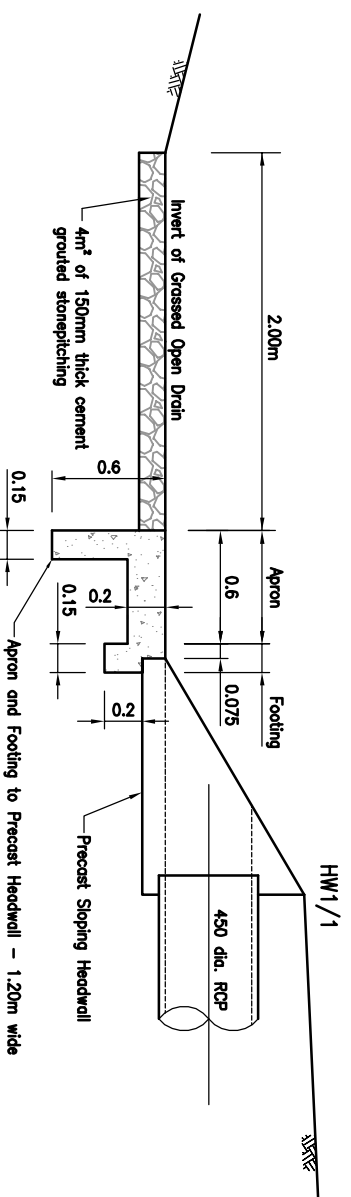
BEDDING DETAIL

- BEDDING & BACKFILLING**
1. PIPE GRADES TO BE CHECKED BY COUNCIL AFTER PLACING AND BEFORE BACKFILLING.
 2. BEDDING MATERIAL TO BE COMPACTED TO 90% R.D.D. BEFORE LAYING STORMWATER PIPES.

Provide 4m² of stonepitching immediately downstream of apron slab and cut-off wall.

STORMWATER DRAINAGE LONGITUDINAL SECTION & DETAILS

OUTLET HEADWALL DETAILS (HW1/1)



SECTION

CONSTRUCTION EQUIPMENT	PIPE CLASS	MINIMUM COMPACTION COVER TO PIPE OVERT									
		300ø	375ø	450ø	525ø	600ø	675ø	750ø	825ø	900ø	1050ø
VIBRATORY RAMMER (UP TO 75kg)	2	0.450	0.450	0.400	0.350	0.300	0.250	0.200	0.200	0.250	0.250
VIBRATORY TRENCH ROLLER (UP TO 2t)	2	0.400	0.400	0.300	0.250	0.250	0.200	0.200	0.200	0.200	0.200
VIBRATORY SMOOTH DRUM ROLLER (7t)	2	0.700	0.700	0.650	0.650	0.600	0.600	0.600	0.400	0.400	0.400
VIBRATORY SMOOTH DRUM ROLLER (10t)	2	0.850	0.850	0.850	0.800	0.800	0.800	0.750	0.750	0.750	0.750
EXCAVATOR AND COMPACTOR WHEEL (15t)	2	0.700	0.700	0.550	0.500	0.500	0.500	0.200	0.200	0.200	0.200
EXCAVATOR AND COMPACTOR WHEEL (25t)	2	1.050	1.050	0.950	0.900	0.900	0.850	0.850	0.550	0.550	0.550
GRADER (CAT 120H) (14.5t)	2	0.800	0.800	0.450	0.200	0.200	0.200	0.200	0.200	0.200	0.200
GRADER (CAT 140H) (17t)	2	0.800	0.800	0.600	0.200	0.200	0.200	0.200	0.200	0.200	0.200
SCHAEFER (CAT 6130I) (27.2t)	2	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.200	0.200	0.200
SCHAEFER (CAT 621F) (33.8t)	2	0.700	0.700	0.700	0.650	0.600	0.600	0.600	0.600	0.600	0.600
DOZER (CAT D7 G) (20.5t)	2	0.800	0.800	0.800	0.800	0.200	0.200	0.200	0.200	0.200	0.200
DOZER (CAT D9 R) (48.3t)	2	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.200
EXCAVATOR (CAT 315B) (15.8t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT 317) (17.3t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT 325B) (25.9t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200

- NOTES:**
1. SOIL TYPE USED FOR THIS TABLE IS CLAYEY SAND. ALL OTHER SOIL TYPES MUST BE REFERRED IMMEDIATELY TO THE SUPERISING ENGINEER SO MINIMUM COVERS CAN BE CALCULATED.
 2. INSTALLATION FOR THIS TABLE IS HS2. GREATER INSTALLATION FOR THIS TABLE IS HS2. GREATER.
 3. ANY CONSTRUCTION EQUIPMENT, INSTALLATION TYPE, PIPE CLASS OR PIPE DIAMETER NOT COVERED IN THIS TABLE MUST BE REFERRED TO THE SUPERISING ENGINEER BEFORE ANY CONSTRUCTION COMMENCES.
 4. DISTANCES SHOWN ARE ROUND UP TO ENSURE THAT THE MARGINS THAT BEHIND THE HIGHER COMPACTION COVER ARE KEPT CLEAR OF STORMWATER PIPES AND TRENCHES UNTIL THEIR NECESSARY COMPACTION COVER IS ACHIEVED.
 5. CONSTRUCTION EQUIPMENT LISTED IN THIS TABLE ARE EXAMPLES ONLY AND EQUIVALENT MACHINERY MAY BE USED.
- CONSTRUCTION EQUIPMENT - COVER REQUIREMENTS TO RCP'S**

Revisions	Date
B For Construction	Aug 08
A Original issue	May 08

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client	STYLCO PTY LTD
project	WILLIAM STREET, CAMBOOYA
title	STORMWATER DRAINAGE LONGITUDINAL SECTION AND DETAILS

Survey	Drawn	Design	J/M	Examined	Certified
HS	CMO	CMO	EGA	///	///
AUG 06	MAR 08	MAR 08	MAR 08		

WHERE ANY DISCREPANCY EXISTS BETWEEN FIGURED AND SCALED DIMENSIONS, THE FIGURED DIMENSIONS SHALL APPLY.

DISCREPANCIES

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. IT IS NECESSARY TO COMPLETE THE WORK BEFORE THE COMMENCING ANY WORK ON SITE. IF ANY DOUBT EXISTS IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK.

DIMENSIONS

SCALE C (1: 500 AT A1)

SCALE F (1: 100 AT A1)

JOB No. 104000

Plan No. 302