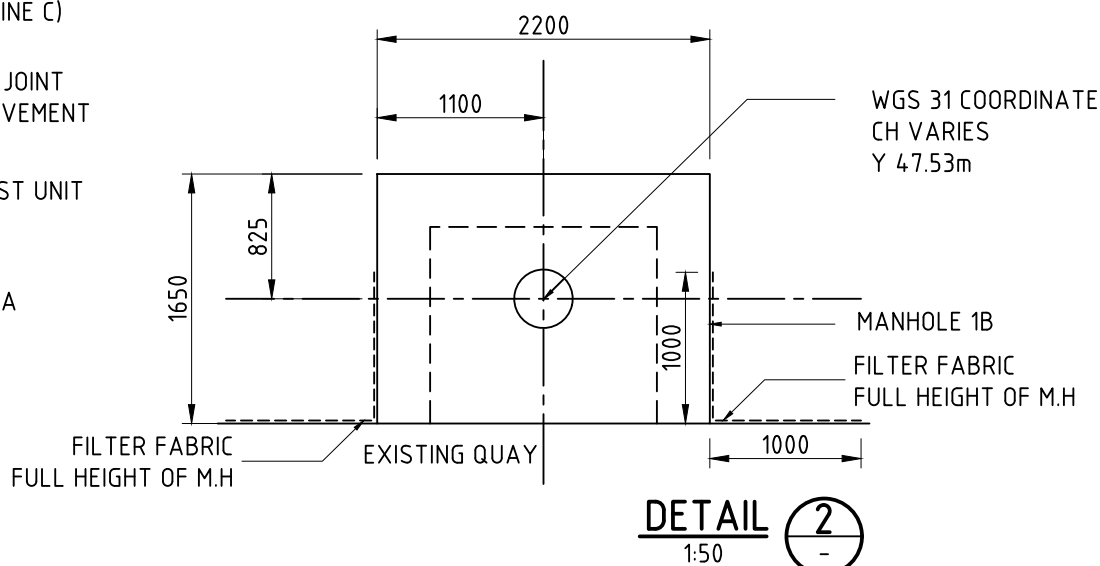
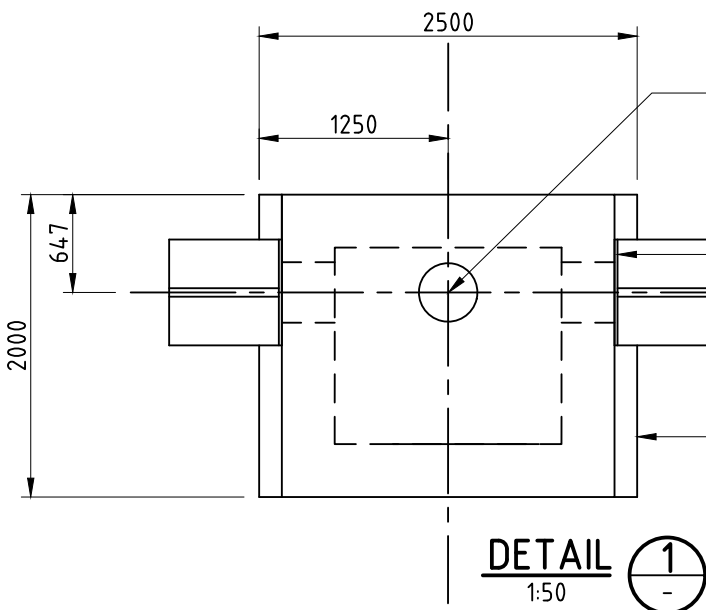


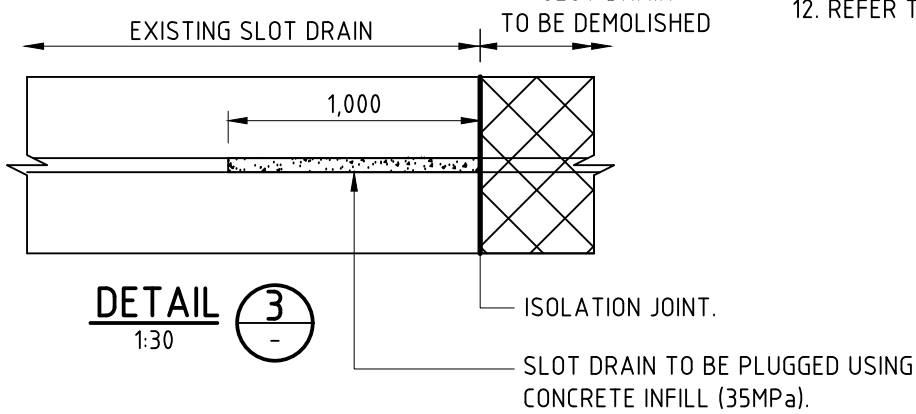
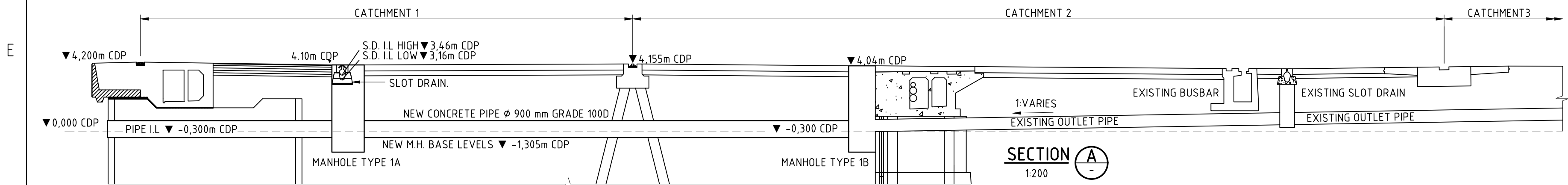
PLAN : PHASE 2 STORMWATER LAYOUT  
1:750

LEGEND	
	MANHOLE TYPE 1A
	MANHOLE TYPE 1B
	EXISTING MANHOLES
	EXISTING SLOT DRAINS (ALONG LINE B & C)
	EXISTING STORMWATER PIPES
	HIGH POINT OF NEW SLOT DRAINS & MANHOLE TYPE 2
	NEW 900mm ND 1000 CONCRETE PIPE
	NEW SLOT DRAIN (ALONG LINE A)
	SLOT DRAIN
	M.H.
	I.L.
	M.F.L.
	Y
	P.L.



NAME	WGS84 Lo31		TYPE
	Position X	Position Y	
STW18	3306644.808	-1902.620	TYPE 1A
STW19	3306636.203	-1940.518	TYPE 2
STW20	3306627.626	-1978.422	TYPE 1A
STW21	3306618.231	-2019.871	TYPE 2
STW22	3306608.836	-2061.319	TYPE 1A
STW23	3306601.320	-2094.478	TYPE 2
STW24	3306593.804	-2127.637	TYPE 1A
STW25	3306584.410	-2169.086	TYPE 2
STW26	3306575.015	-2210.534	TYPE 1A
STW27	3306559.983	-2276.852	TYPE 1A
STW34	3306674.877	-1915.508	TYPE 1B
STW35	3306658.325	-1988.530	TYPE 1B
STW36	3306624.516	-2137.690	TYPE 1B
STW37	3306607.158	-2214.270	TYPE 1B

- NOTES:
1. THE NEW STORMWATER MANAGEMENT SYSTEM WILL CONNECT WITH THE EXISTING SYSTEM. THIS IS DONE BY USING MANHOLES TYPE 1B AS CONNECTORS, WHICH ARE LOCATED AT THE EXISTING OUTLET PIPES. THESE MANHOLES ARE TO BE FIXED INTO THE EXISTING QUAY.
  2. MANHOLE TYPE 1A, 2 AND NEW SLOT DRAINS ARE FOUND ALONG LINE A.
  3. THE EXISTING OUTLET PIPES ARE TO BE CHECKED FOR ANY BLOCKAGES PRIOR TO CONSTRUCTION OF MANHOLES TYPE 1B.
  4. EXISTING PIPE FOUND NEAR BERTH 203 IS TO LINK TO JUNCTION BOX. THE REMAINING LENGTH OF PIPE IS TO BE DEMOLISHED.
  5. EXISTING SLOT DRAIN AT BERTH 203 TO BE PARTLY DEMOLISHED AND BLOCKED OFF AT ONE END. SEE DRAWING.
  6. MANHOLES TYPE 2 ARE TO BE CONSTRUCTED AT EVERY SLOT DRAIN HIGH POINT. THESE ARE FOR MAINTENANCE PURPOSES.
  7. INVERT LEVELS FOR THE NEW STORM WATER PIPES TO BE LEVEL AT -0.3m CDP UNLESS OTHERWISE INDICATED.
  8. SLOT DRAIN INVERT LEVELS ALONG LINE A ARE I.L. HIGH 3.46 m CD ----> I.L. LOW 3.16 m CD. THUS SLOT DRAIN SLOPE IS DETERMINED BY THE DISTANCE BETWEEN OUTLET PIPES.
  9. SLOT DRAIN INVERT LEVELS ALONG LINE C ARE I.L. HIGH 3.20 m CD ----> I.L. LOW 2.90 m CD.
  10. NEW STORM WATER PIPES TO BE CLASS 1000 900mm ND CONCRETE SPIGOT AND SOCKET PIPES. EACH JOINT IS TO BE WRAPPED WITH FILTER FABRIC.
  11. ALL NEW STORM WATER MANHOLES ARE ORIENTATED PERPENDICULAR TO THE SETTING OUT LINE. REFER TO 1785-CO-000-C-DWG-0004-01.
  12. REFER TO 1785-CO-150-C-DWG-0008-01 FOR CAISSON INTERFACE DETAILS.



1785-CO-150-C-DWG-0008-01 CAISSON INTERFACE DETAILS

1785-CO-150-C-DWG-0007-01 MANHOLE 2 CONCRETE DETAILS

1785-CO-150-C-DWG-0006-01 MANHOLE 1B CONCRETE DETAILS

1785-CO-150-C-DWG-0005-01 MANHOLE 1A CONCRETE DETAILS

1785-CO-150-C-DWG-0004-01 SLOT DRAIN TYPICAL DETAILS

1785-CO-150-C-DWG-0002-01 STORM WATER PHASE 2

1785-CO-150-C-DWG-0001-01 STORM WATER PHASE 1

DRAWING NO.

REFERENCE

Engineers

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NO.

DESCRIPTION

BY

CHK'D

APP'D

DATE

REVISIONS / ISSUE AUTHORIZATION

EPDM CONSULTANT: TNPA

TITLE

NAME

SIGNATURE

DATE

LEAD DES. ENG.

ENG. COORD.

ENG. MANAGER

AREA MANAGER

PROJECT MGR.

DIVISION

DIV.

TITLE

NAME

SIGNATURE

DATE

ORIGINATOR: ZAA

TITLE

NAME

SIGNATURE

DATE

DRAWN

DM

19/07/26

CHECKED

MC/WwW

19/07/26

ENG. COORD.

DISCIP. ENG.

ENG. MANAGER

AREA MANAGER

PR.ENG. / PR. TECH.

NAME

J. ZIETSMAN

DATE

19/07/26

SIGNATURE

REG. NUMBER

760293

SCALE

AS NOTED

Transnet National Ports Authority

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DURBAN  
P.O. BOX 31683, DURBAN  
TEL: 031 361 8852

PORT OF DURBAN

DCT BERTHS 203 to 205 RECONSTRUCTION  
DEEPENING AND LENGTHENING

STORM WATER  
GENERAL ARRANGEMENT  
PHASE 3 (BERTH 203)

PROJECT NUMBER

DV

FBS

DIS

TYPE

DRG NO.

SHT.

REV.

ID

21228301150C-GA1002010A

DM