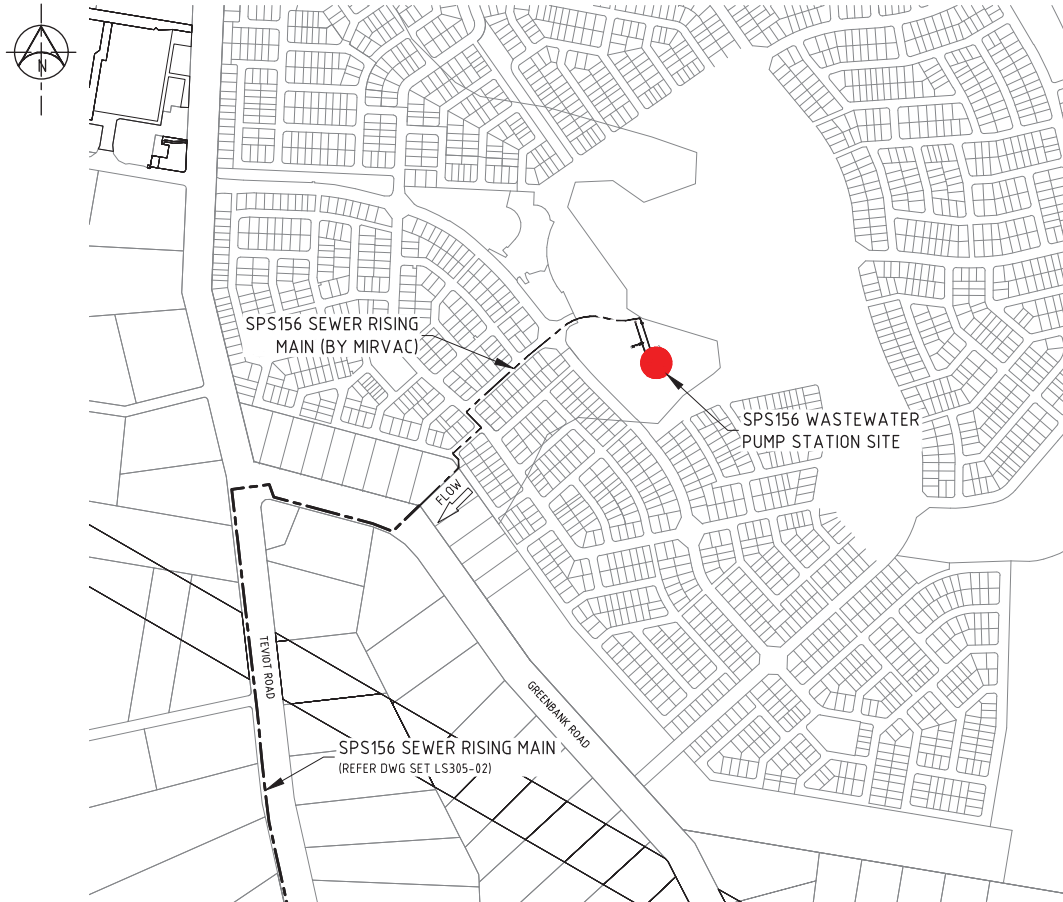
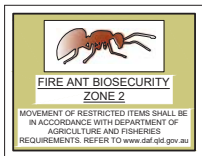


GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

LS305-01 SPS156 WASTEWATER PUMP STATION



LOCALITY PLAN
SCALE 1:5000



**PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL**

Approval no: DEV2019/1005
Date: 28 March 2019



LoganWIA - DRAWINGS

DRAWING No

LS305-01-S-DWG-ND-0000
LS305-01-S-DWG-ND-0040
LS305-01-S-DWG-ND-0060
LS305-01-S-DWG-ND-0061

TITLE

SPS156 WASTEWATER PUMP STATION, COVER SHEET, LOCALITY PLAN, DRAWING LIST AND, SITE SPECIFIC NOTES
SPS156 WASTEWATER PUMP STATION, P&ID
SPS156 WASTEWATER PUMP STATION, SYSTEM RESISTANCE CURVES
SPS156 WASTEWATER PUMP STATION, HYDRAULIC PROFILE

LS305-01-S-DWG-CI-2100
LS305-01-S-DWG-CI-2101
LS305-01-S-DWG-CI-2102
LS305-01-S-DWG-CI-2103
LS305-01-S-DWG-CI-2104
LS305-01-S-DWG-CI-2105

SPS156 WASTEWATER PUMP STATION, SITE LAYOUT
SPS156 WASTEWATER PUMP STATION, SITE GENERAL ARRANGEMENT PLAN
SPS156 WASTEWATER PUMP STATION, SITE SET OUT PLAN
SPS156 WASTEWATER PUMP STATION, SET OUT COORDINATES
SPS156 WASTEWATER PUMP STATION, EARTHWORKS PLAN
SPS156 WASTEWATER PUMP STATION, BULK EARTHWORKS SECTIONS

LS305-01-S-DWG-CI-2110
LS305-01-S-DWG-CI-2111
LS305-01-S-DWG-CI-2112
LS305-01-S-DWG-CI-2113
LS305-01-S-DWG-CI-2114
LS305-01-S-DWG-CI-2115
LS305-01-S-DWG-CI-2116
LS305-01-S-DWG-CI-2117
LS305-01-S-DWG-CI-2118
LS305-01-S-DWG-CI-2119
LS305-01-S-DWG-CI-2120

SPS156 WASTEWATER PUMP STATION, GENERAL ARRANGEMENT PLAN, ABOVE ROOF AND BELOW ROOF
SPS156 WASTEWATER PUMP STATION, WET WELL GENERAL ARRANGEMENT, ELEVATION
SPS156 WASTEWATER PUMP STATION, GENERAL ARRANGEMENT DETAILS, PLAN AND PIPE FITTINGS SCHEDULE, SHEET 1 OF 2
SPS156 WASTEWATER PUMP STATION, GENERAL ARRANGEMENT DETAILS, ELEVATION AND SECTIONS, SHEET 2 OF 2
SPS156 WASTEWATER PUMP STATION, CHEMICAL DOSING INTERFACE, DETAILS
SPS156 WASTEWATER PUMP STATION, CHEMICAL BUND DETAILS
SPS156 WASTEWATER PUMP STATION, SEWER GRAVITY MAIN, PLAN AND LONG SECTION
SPS156 WASTEWATER PUMP STATION, OVERFLOW, PLAN AND LONG SECTION
SPS156 WASTEWATER PUMP STATION, OVERFLOW DETAILS
SPS156 WASTEWATER PUMP STATION, SEWER RISING MAIN, PLAN AND LONG SECTION
SPS156 WASTEWATER PUMP STATION, SITE SERVICES PLAN

LS305-01-S-DWG-CI-2125

SPS156 WASTEWATER PUMP STATION, PAVEMENT AND LANDSCAPE PLAN

LS305-01-S-DWG-ST-3000
LS305-01-S-DWG-ST-3001
LS305-01-S-DWG-ST-3002
LS305-01-S-DWG-ST-3003
LS305-01-S-DWG-ST-3004
LS305-01-S-DWG-ST-3005
LS305-01-S-DWG-ST-3006
LS305-01-S-DWG-ST-3007
LS305-01-S-DWG-ST-3008
LS305-01-S-DWG-ST-3009
LS305-01-S-DWG-ST-3010
LS305-01-S-DWG-ST-3011
LS305-01-S-DWG-ST-3012
LS305-01-S-DWG-ST-3013
LS305-01-S-DWG-ST-3014
LS305-01-S-DWG-ST-3015

SPS156 WASTEWATER PUMP STATION, CONCRETE SETOUT, PLANS
SPS156 WASTEWATER PUMP STATION, CONCRETE SETOUT, SECTIONS
SPS156 WASTEWATER PUMP STATION, CONCRETE REINFORCEMENT, TYPICAL CONCRETE DETAILS
SPS156 WASTEWATER PUMP STATION, CONCRETE REINFORCEMENT, BASE DETAILS
SPS156 WASTEWATER PUMP STATION, CONCRETE REINFORCEMENT, INLET LEVEL DETAILS
SPS156 WASTEWATER PUMP STATION, CONCRETE REINFORCEMENT, VALVE CHAMBER DETAILS
SPS156 WASTEWATER PUMP STATION, CONCRETE REINFORCEMENT, PRECAST LID DETAILS
SPS156 WASTEWATER PUMP STATION, MH2/1 CONCRETE SETOUT, PLAN & SECTIONS
SPS156 WASTEWATER PUMP STATION, MH1/1 CONCRETE SETOUT, PLAN & SECTIONS
SPS156 WASTEWATER PUMP STATION, FLOW METER PIT, PLAN & SECTIONS
SPS156 WASTEWATER PUMP STATION, CHEMICAL DELIVERY BUND, PLAN
SPS156 WASTEWATER PUMP STATION, CHEMICAL DELIVERY BUND, SECTIONS
SPS156 WASTEWATER PUMP STATION, CHEMICAL DELIVERY BUND, DETAILS
SPS156 WASTEWATER PUMP STATION, OVERFLOW CHAMBER, PLAN & SECTIONS
SPS156 WASTEWATER PUMP STATION, OVERFLOW CHAMBER, DETAILS
SPS156 WASTEWATER PUMP STATION, CONCRETE & STEEL WORK, DETAILS

DEVELOPERS AND REFERENCE DRAWINGS

DRAWING No

15-878-2401-C
110056-139
MIR001-01 C601 TO C607
MIR001-01 C610 TO C613

TITLE

FLAGSTONE CITY - STAGE 1 TRUNK SEWER, PHASE 2, SEWER LAYOUT PLAN SHEET 2 OF 2
FLAGSTONE PRECINCT 1 STAGE 2 ALLOTMENT LAYOUT
EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT, TEVIOT ROAD GREENBANK, TRUNK GRAVITY SEWER
EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT, TEVIOT ROAD GREENBANK, SEWER RISING MAIN

SITE SPECIFIC NOTES

- FOR REFERENCE DRAWING LIST REFER TO DWG LS305-00-S-DWG-ND-0010.
- REFER LS305-00 GENERAL DWG SET FOR ASSOCIATED PACKAGES AND STANDARD DRAWINGS.
- FOR FEATURE SURVEY REFER TO VISION SURVEY OUTPUTS 18182 - 01 Rev D 180705.dwg DATED 30/07/2018.
- REFER DWGS CI-2100, CI-2116, CI-2117 AND CI-2119 FOR RIGHT OF WAY EXTENTS. NO TREE CLEARING UNLESS PRIOR APPROVAL FROM A LoganWIA REPRESENTATIVE.
- FOR BOREHOLE LOCATIONS REFER TO DWG LS305-00-S-DWG-GE-7200.
- VS-4-S STANDARD SMART VALVE WITH ADJUSTABLE ANTI-SURGE FITTING REQUIRED AT AUTOMATIC GAS RELEASE POINTS.
- REFER GEOTECHNICAL LEGEND BY MORRISONS INCLUDED IN THE TENDER PACK.

0 50 100 200 300m
A1 - 1:5000

FOR TENDER

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
C	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018
B	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018
A	FOR 50% DOAR WORKSHOP	PS	AL		10/05/2018

DESIGNED BY

V. VERGARA
DRAFTED BY
P. SPEAR
DESIGN CHECKED BY
S. DICKER
APPROVED BY

PROJECT No

LS305-01
FILE REFERENCE:
SHEET SIZE
A1
DATUM : AHD
GOA 94 ZONE 56

REFERENCES

LOGAN
WATER INFRASTRUCTURE
ALLIANCE
Proudly
LOGAN
CITY COUNCIL



PROJECT:

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:
SPS156 WASTEWATER PUMP STATION
COVER SHEET, LOCALITY PLAN, DRAWING LIST AND
SITE SPECIFIC NOTES

DRAWING No

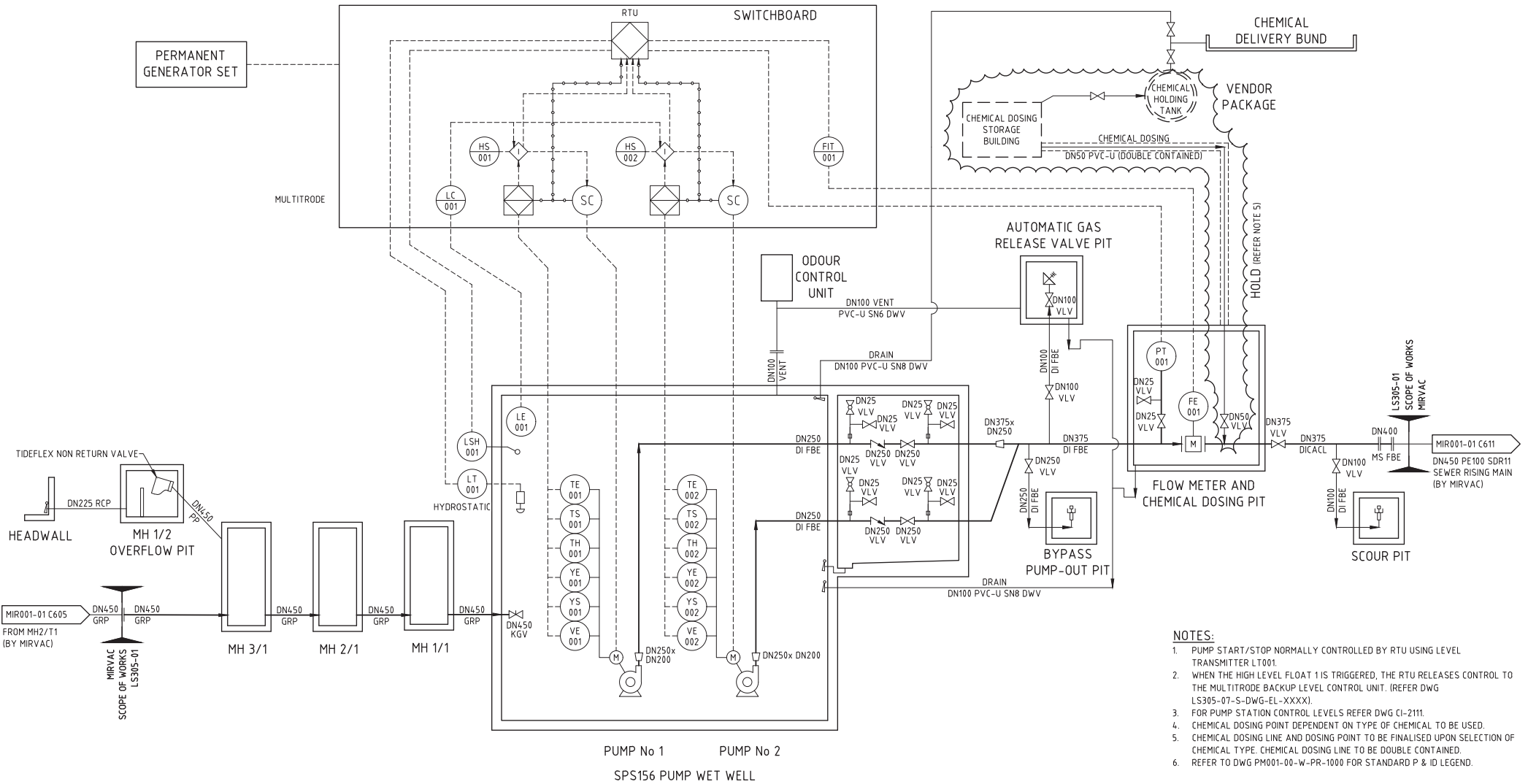
LS305-01-S-DWG-ND-0000
DESIGN COMPANY:
LoganWIA
TECH SERVICES DRG No

REV.

C

CAD FILE: L:\LS305 GREENBANK PDA TO SPS151 WWT\LS305-01-S-DWG-ND-004.dwg

DATE PUBLISHED: 16 October 2019 - 2:30pm



- NOTES:**
- PUMP START/STOP NORMALLY CONTROLLED BY RTU USING LEVEL TRANSMITTER LT001.
 - WHEN THE HIGH LEVEL FLOAT 1 IS TRIGGERED, THE RTU RELEASES CONTROL TO THE MULTITRODE BACKUP LEVEL CONTROL UNIT. (REFER DWG LS305-07-S-DWG-EL-XXXX).
 - FOR PUMP STATION CONTROL LEVELS REFER DWG CI-2111.
 - CHEMICAL DOSING POINT DEPENDENT ON TYPE OF CHEMICAL TO BE USED.
 - CHEMICAL DOSING LINE AND DOSING POINT TO BE FINALISED UPON SELECTION OF CHEMICAL TYPE. CHEMICAL DOSING LINE TO BE DOUBLE CONTAINED.
 - REFER TO DWG PM001-00-W-PR-1000 FOR STANDARD P & ID LEGEND.

PROCESS LINE SYMBOLS		PIPING AND EQUIPMENT SYMBOLS	
			FLAP VALVE
			COUPLING
RG	RAIN GAUGE		

FOR TENDER

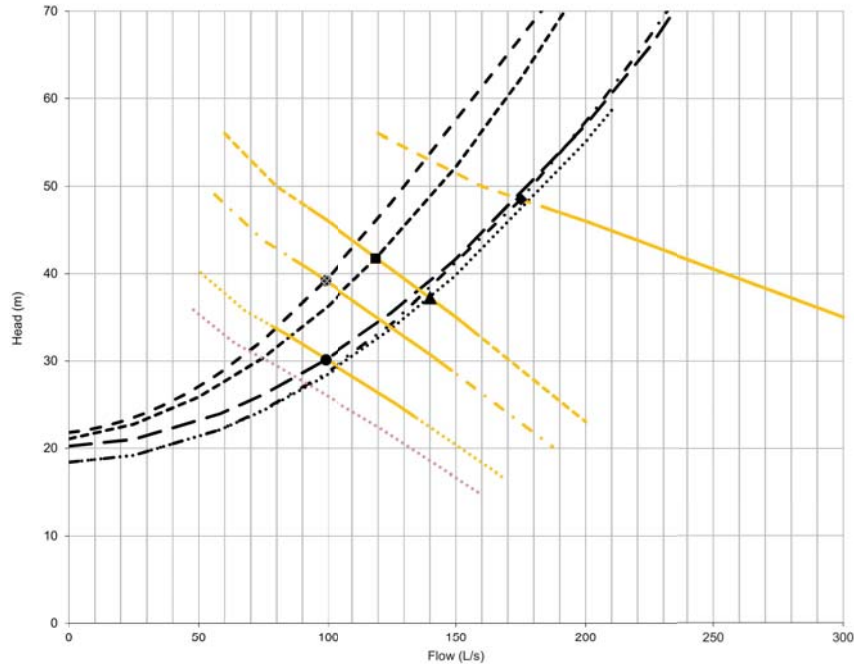
PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019



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					V. VERGARA		PROJECT No. LS305-01		DRAWING TITLE: SPS156 WASTEWATER PUMP STATION P&ID	
					DRAFTED BY P. SPEAR		FILE REFERENCE: M. NARDELLA			
					DESIGN CHECKED BY RPEQ		SHEET SIZE A1		DRAWING No. LS305-01-S-DWG-ND-0040	
					S. DICKER 18473		DATUM: AHD GDA 94 ZONE 56			
					APPROVED BY RPEQ				DESIGN COMPANY: LoganWIA	
									REV. B	
									TECH SERVICES DRG No.	



- SINGLE RISER - MIN HEAD (TWL) EXCLUDING NM1 AND SMOOTH PIPE ROUGHNESS
- - SINGLE RISER - MAX HEAD (BWL) INCLUDING NM1 AND AGED PIPE ROUGHNESS
- ... SINGLE RISER - MIN HEAD (TWL) INCLUDING NM1 AND 0.17mm PIPE ROUGHNESS
- - DUAL RISER - MIN HEAD (OVERFLOW) EXCLUDING NM1 AND 0.07mm PIPE ROUGHNESS
- ... SINGLE RISER - MIN HEAD (OVERFLOW) EXCLUDING NM1 AND SMOOTH PIPE ROUGHNESS
- DUTY AND ASSIST 50 Hz
- - DUTY 50 Hz
- ... 47 Hz
- ... 42 Hz
- ... 40 Hz
- DUTY POINT 1: MINIMUM STATIC HEAD (TWL)
- DUTY POINT 2: MAXIMUM STATIC HEAD (BWL)
- ▲ DUTY POINT 3: 2050/51 PWWF (HAL)
- ◆ DUTY POINT 4: ULTIMATE PWWF (O/L)
- × DUTY POINT 5: OVERFLOW (1 PUMP)
- 70 to 120% BEP operating range

SPS156 PUMP DETAILS	
DESCRIPTION	DETAILS
NO. OF DUTY PUMPS	1
NO. OF STANDBY/ASSIST PUMPS	1
TOTAL NUMBER OF PUMPS	2
TOTAL NUMBER OF WET WELLS	1
PUMP MOUNTING	WET
PUMP MANUFACTURER	HIDROSTAL
PUMP MODEL	H05K-S03R + HE130X4-XVEK1 + NE1B7VM-30
IMPELLER	S
DISCHARGE FLANGE DIAMETER (mm)	125
SUCTION FLANGE DIAMETER (mm)	250
MOTOR MANUFACTURER	HIDROSTAL
MOTOR RATING (kW)	100
MOTOR START TYPE	VSD
MOTOR VOLTAGE (V)	415
MOTOR SPEED AT 50 Hz (rpm)	1490
CABLE LENGTH	30
MINIMUM FREQUENCY (Hz)	4.0

SPS156 PUMP DUTY POINTS		
DESCRIPTION	Q (L/s)	H (m)
DUTY POINT 1: MINIMUM STATIC HEAD (TWL)	99	30.1
DUTY POINT 2: MAXIMUM STATIC HEAD (BWL)	99	39.2
DUTY POINT 3: 2050/51 PWWF (TWL)	119	41.7
DUTY POINT 4: ULTIMATE PWWF (O/L)	175	48.2
DUTY POINT 5: OVERFLOW (1 PUMP)	142	37.0

NOTES:

- DUTY POINTS 1 AND 2 SELF-CLEANING SHEAR FLOW IS CATERED FOR BY 1 PUMP BETWEEN 42 Hz AND 47 Hz SPEEDS.
- OVERFLOW DUTY POINT 5 IS AT RATED SPEED FOR 1 PUMP.

SPS156 DESIGN FLOW DETAILS										
DESCRIPTION	DESIGN HORIZON FOR FLOW RATES INTO PUMP STATION									
	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2030/31	2040/41	2050/51	ULTIMATE
EP	2,948	3,504	4,062	4,620	5,177	5,733	6,803	8,546	10,288	15,097
ADWF (L/s)	5.6	6.7	7.8	8.8	9.9	10.9	13.0	16.3	19.6	28.8
PWWF (L/s)	34.1	40.6	47.0	53.5	59.9	66.4	78.7	98.9	119.1	174.7
PDWF (L/s)	14.1	16.9	19.7	22.5	25.4	28.3	34.1	51.0	67.8	98.8
ADWF PUMP STARTS / HOUR	1.4	1.7	1.9	2.3	2.4	2.6	3.0	3.7	4.2	5.5
ADWF DETENTION TIME (hrs)	36.5	30.7	26.5	23.3	20.8	18.8	15.8	12.6	10.5	7.1

NOTE:

PUMP STATION INCLUDES GB1 LOADS.

ADWF WAS BASED ON 165 L/EP/DAY, WHILE PWWF WAS BASED ON 1000 L/EP/DAY FOR NEW DEVELOPMENTS.

PDWF CALCULATES USING $C2 \times ADWF$ WHERE $C2 = 4.7 \times (EP) - 0.105$ REFER SEQ CODE DESIGN CRITERIA, TABLE 10, ITEM D4; OR 2.5 WHICHEVER IS GREATER DETENTION TIME CALCULATED USING RISING MAIN TOTAL VOLUME OF 740m³ AND SPS156 ADWF FOR EACH HORIZON.

SPS156 RISING MAIN DETAILS											
DESCRIPTION	PUMP RISER	PUMP HEADER	MIRVAC PIPELINE	OPEN TRENCH	HDD	OPEN TRENCH	HDD	OPEN TRENCH	OPEN TRENCH	HDD	OPEN TRENCH
PIPE SIZE	DN250	DN375	OD450	DN375	OD450	DN375	OD450	DN375	DN375	OD450	DN375
PIPE MATERIAL	DI FBE	DI FBE	PE100	DICACL	PE100	DICACL	PE100	DICACL	DICACL	PE100	DICACL
PIPE PRESSURE RATING (bar)	35	35	16	35	20	35	20	35	35	20	35
PIPE LENGTH (m)	8	10	704	1128	174	579	188	1093	922	195	1133
PIPE VOLUME (m ³)	0.5	1.4	74.0	142.4	16.5	73.1	17.8	138.0	116.4	18.5	143.0
MAX FLOW VELOCITY AT 175 L/s (m/s)			1.7	1.4	1.9	1.4	1.9	1.4	1.4	1.9	1.4

NOTES:

- FOR SMOOTH PIPE ROUGHNESS, $k = 0.003\text{mm}$ FOR PE100 AND 0.01 FOR DICL AND DI FBE AS PER AS 2200.
- REFER TO PM001-00-S-SPE-ME-4000 TECHNICAL SPECIFICATION - SUPPLY OF SUBMERSIBLE PUMPS FOR WASTEWATER PUMP STATIONS FOR ADDITIONAL REQUIREMENTS.
- FOR PUMP OPERATING LEVELS REFER TO DWG CI-2111.
- OD450 PE100 PN16 MINIMUM SHEAR STRESS AT 99 L/s IS 2.6Pa.
- DN375 DICACL PN35 MINIMUM SHEAR STRESS AT 99 L/s IS 1.7Pa.
- OD450 PE100 PN20 MINIMUM SHEAR STRESS AT 99 L/s IS 3.2Pa.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019

**FOR TENDER**

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
C	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018
B	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018
A	FOR 50% DOAR WORKSHOP	PS	AL		10/05/2018

DESIGNED BY

V. VERGARA

DRAFTED BY

P. SPEAR

DESIGN CHECKED BY

S. DICKER

APPROVED BY

REFERENCES

PROJECT No.

LS305-01

FILE REFERENCE:

RPEG

18473

RPEG

DATUM: AHD

GOA 94 ZONE 56

SHEET SIZE

A1



LOGAN
WATER INFRASTRUCTURE
ALLIANCE



PROJECT:

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION

SYSTEM RESISTANCE CURVES

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

SPS156 WASTEWATER PUMP STATION

SYSTEM RESISTANCE CURVES

DRAWING No.

LS305-01-S-DWG-ND-0060

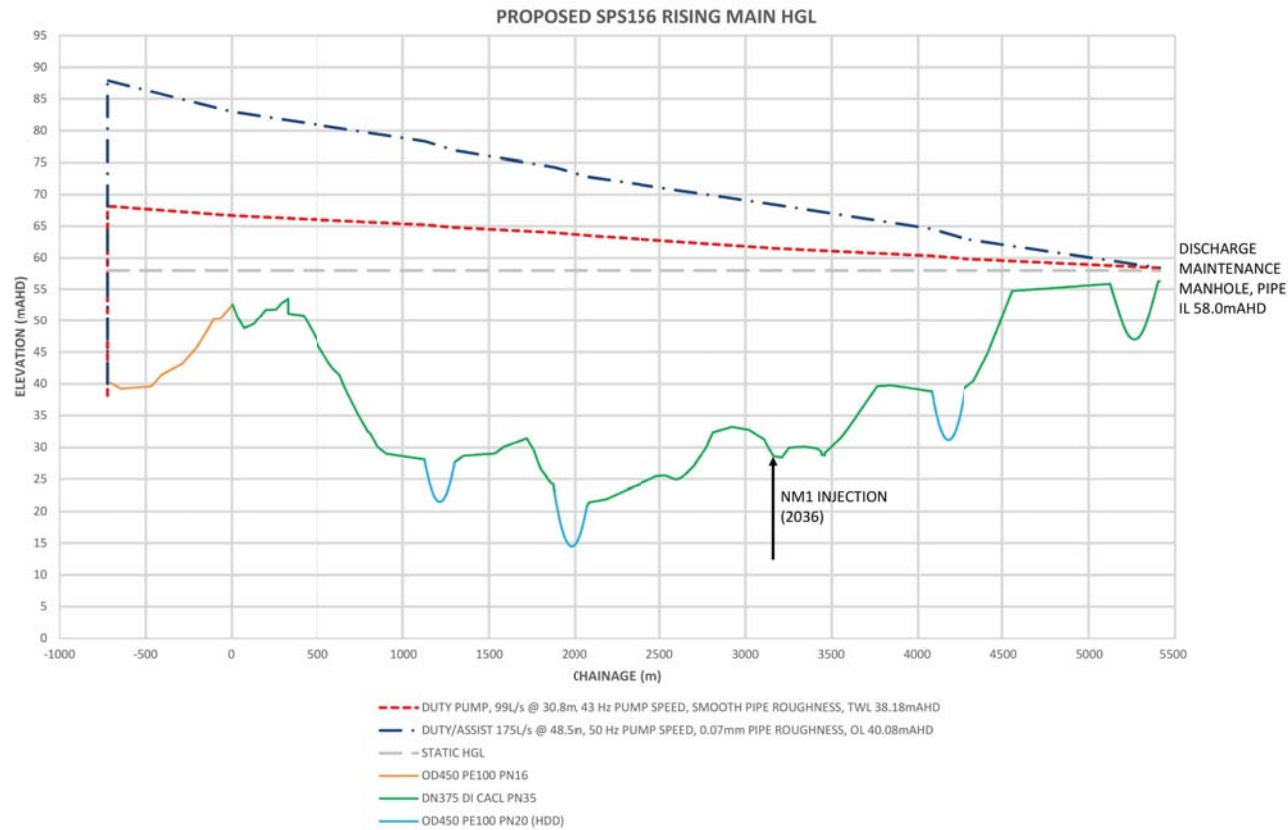
DESIGN COMPANY:

LoganWIA

TECH SERVICES DRG No.

REV.

C



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019



NOTE:

1. FOR FLOW, PUMP AND RISING MAIN DETAILS REFER TO DWG ND-0060.
2. FOR PUMP OPERATING LEVELS REFER TO DWG CI-2111.
3. FOR RISING MAIN PLAN AND LONG SECTIONS REFER TO LS305-02 DRAWING SET.

FOR TENDER

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DESIGNED BY

V. VERGARA

DRAFTED BY

P. SPEAR

DESIGN CHECKED BY

S. DICKER

APPROVED BY

DATE

DRAFTING CHECK BY

F. JESPERSEN

RPEQ

184.73

10/05/2018

APPR.

DATE

DATE

REFERENCES

PROJECT No.

LS305-01

FILE REFERENCE:

SHEET SIZE

A1

DATUM: AHD

GDA 94 ZONE 56.



PROJECT:

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION

HYDRAULIC PROFILE

DRAWING No.

LS305-01-S-DWG-ND-0061

DESIGN COMPANY:

LoganWIA

TECH SERVICES DRG No.

REV.

C

EQUIPMENT SET OUT COORDINATES (REFER DWG CI-2102)			
No	DESCRIPTION	EASTING	NORTHING
SP01	MH2/1 CENTRE	4.99325.180	6931373.680
SP02	MH1/1 CENTRE	4.99335.154	6931376.912
SP03	TELEMETRY POLE	4.99345.501	6931374.789
SP04	SCOUR PIT CENTRE	4.99310.426	6931459.091
SP05	MH3/1 CENTRE	4.99309.655	6931421.592
SP06	PIPE CONNECTION CENTRE	4.99331.267	6931390.773
SP07	SCOUR PIT CENTRE	4.99329.325	6931392.394
SP08	GAS VALVE PIT CENTRE	4.99327.967	6931393.482
SP09	FLOW METER CENTRE	4.99329.196	6931397.167
SP10	RM CONNECTION	4.99328.318	6931399.875
SP11	CHEM. DOSING INJECTION POINT	4.99328.887	6931398.121
SP12	OVERFLOW PIT CENTRE	4.99305.707	6931420.313
SP13	HEADWALL	4.99291.530	6931415.719
SP14	SWITCHROOM PAD CORNER	4.99343.705	6931379.952
SP15	SWITCHROOM PAD CORNER	4.99345.706	6931373.777
SP16	SWITCHROOM PAD CORNER	4.99342.005	6931372.579
SP17	SWITCHROOM PAD CORNER	4.99340.005	6931378.753
SP18	GENERATOR PAD CORNER	4.99344.944	6931380.523
SP19	GENERATOR PAD CORNER	4.99342.910	6931386.802
SP20	GENERATOR PAD CORNER	4.99345.955	6931387.788
SP21	GENERATOR PAD CORNER	4.99347.989	6931381.509
SP22	TRANSFORMER PAD CORNER	4.99333.675	6931404.558
SP23	TRANSFORMER PAD CORNER	4.99338.432	6931406.099
SP24	TRANSFORMER PAD CORNER	4.99339.911	6931401.533
SP25	TRANSFORMER PAD CORNER	4.99335.155	6931399.992
SP26	CHEMICAL BUND CORNER	4.99337.241	6931398.566
SP27	CHEMICAL BUND CORNER	4.99341.047	6931399.798
SP28	CHEMICAL BUND CORNER	4.99343.050	6931393.615
SP29	CHEMICAL BUND CORNER	4.99339.245	6931392.382
SP30	CHEMICAL DOSING STORAGE TANK CENTRE	4.99339.914	6931396.804
SP31	CHEMICAL DELIVERY BUND CORNER	4.99341.960	6931404.337
SP32	CHEMICAL DELIVERY BUND CORNER	4.99346.583	6931405.835
SP33	CHEMICAL DELIVERY BUND CORNER	4.99351.114	6931391.851
SP34	CHEMICAL DELIVERY BUND CORNER	4.99346.490	6931390.353
SP35	CHEMICAL DELIVERY BUND DRAIN	4.99344.653	6931397.484
SP36	DELIVERY BUND DRAIN TEE	4.99345.662	6931390.978
SP37	CHEMICAL HOLDING TANK CENTRE	4.99343.034	6931390.128
SP38	MIRVAC GM MH 2/T1	4.99296.755	6931461.417
SP39	MIRVAC RM TERMINATION POINT	4.99308.140	6931462.160
SP40	LIFTING EQUIPMENT CENTRE	4.99329.548	6931383.751

WET WELL AND VALVE PIT SET OUT COORDINATES (REFER DWG CI-2102)			
W01	SPS156 WET WELL CENTRE	4.99333.232	6931382.842
W02	VALVE PIT CORNER	4.99330.209	6931387.145
W03	VALVE PIT CORNER	4.99333.158	6931388.100

FENCE SET OUT COORDINATES (REFER DWG CI-2102)		
No	EASTING	NORTHING
FP01	4.99318.010	6931400.534
FP02	4.99321.815	6931401.767
FP03	4.99341.230	6931408.057
FP04	4.99345.036	6931409.290
FP05	4.99347.136	6931409.970
FP06	4.99359.772	6931370.966
FP07	4.99327.427	6931360.487
FP08	4.99314.791	6931399.491

ROAD SET OUT COORDINATES (REFER DWG CI-2102)			
No	DESCRIPTION	EASTING	NORTHING
RD01	FENCE PERIMETER	4.99317.696	6931400.433
RD02	FENCE PERIMETER	4.99322.283	6931401.919
RD03		4.99330.732	6931375.716
RD04		4.99340.178	6931370.893
RD05	INSIDE CURVE CENTRE	4.99337.867	6931378.028
RD06		4.99344.176	6931372.188
RD07		4.99349.321	6931382.264
RD08	INSIDE CURVE CENTRE	4.99341.711	6931379.799
RD09		4.99346.681	6931390.415
RD10		4.99342.150	6931404.399
RD11	FENCE PERIMETER	4.99340.990	6931407.979
RD12	FENCE PERIMETER	4.99345.230	6931409.353
RD13		4.99346.393	6931405.773
RD14		4.99350.924	6931391.789
RD15		4.99354.059	6931382.112
RD16		4.99346.984	6931368.257
RD17	OUTSIDE CURVE CENTRE	4.99343.594	6931378.722
RD18		4.99340.361	6931366.111
RD19		4.99326.506	6931373.185
RD20	OUTSIDE CURVE CENTRE	4.99336.971	6931376.576
RD21		4.99322.420	6931401.431

PLANS AND DOCUMENTS
 referred to in the PDA
 DEVELOPMENT APPROVAL

Approval no: DEV2019/1005
 Date: 28 March 2019

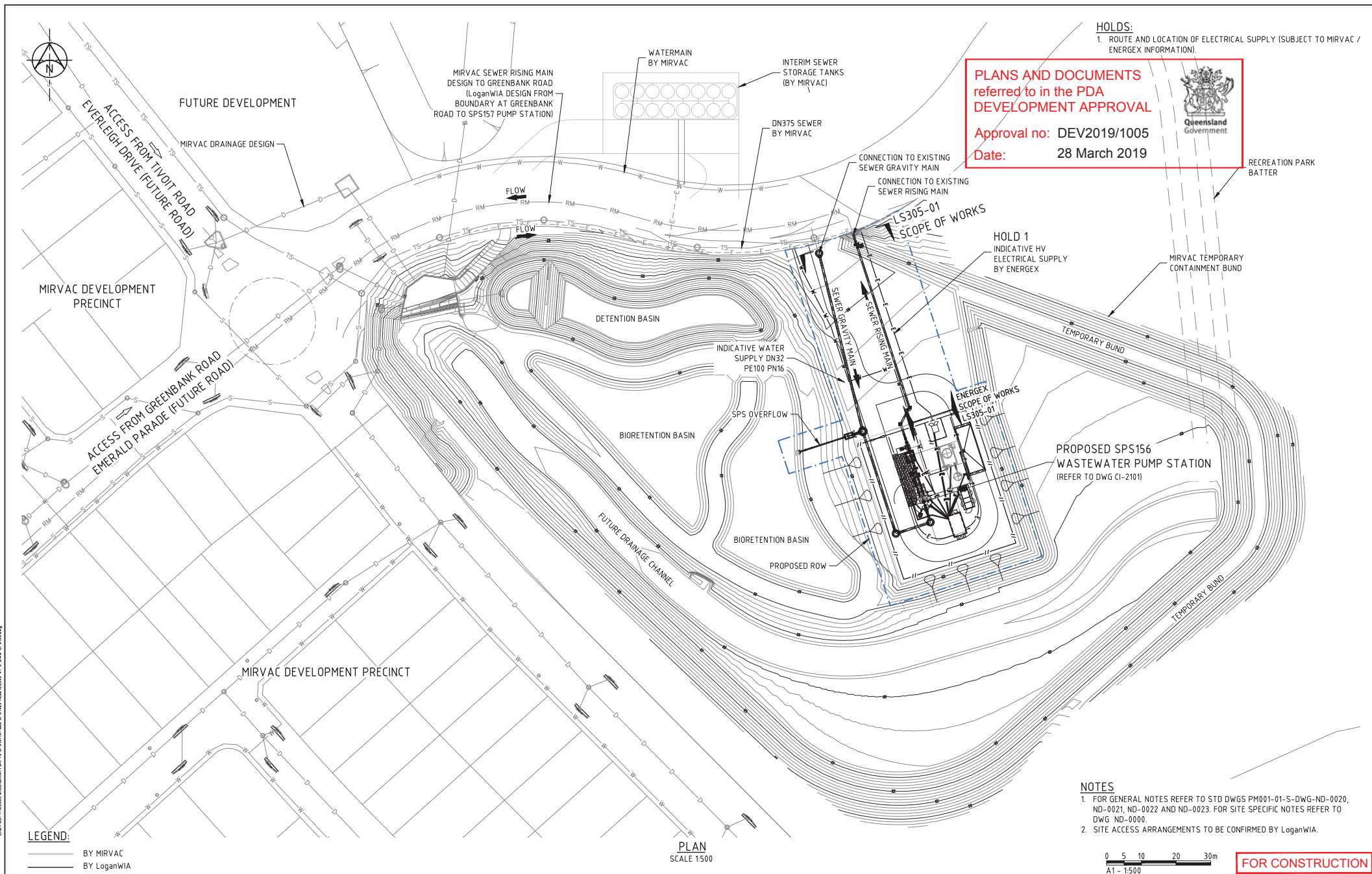


NOTE
 SURVEY BASED ON MIRVAC SUPPLIED TIN FILE 2018-09-14 -P01 1 FS tin MGA.

FOR TENDER

COPYRIGHT © THIS DRAWING SHALL REMAIN THE PROPERTY OF LOGAN CITY COUNCIL. UNAUTHORISED USE OF THIS DRAWING IS PROHIBITED.										DESIGNED BY V. VERGARA				REFERENCES PROJECT No. LS305-01				PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE													
										DRAFTED BY		DRAFTING CHECK BY		FILE REFERENCE:				DRAWING TITLE: SPS156 WASTEWATER PUMP STATION										DRAWING No. LS305-01-S-DWG-CI-2103			
										P. SPEAR		M. NARDELLA						SET OUT COORDINATES										DESIGN COMPANY. LoganWIA			
										DESIGN CHECKED BY RPEQ				SHEET SIZE A1				REV. B													
B FOR TENDER (85% DESIGN DOCUMENTATION)										SZ		VV		11/10/2018				S. DICKER 184/73													
A FOR 70% DOAR WORKSHOP										SZ		VV		25/09/2018				APPROVED BY RPEQ													
REV. No. DESCRIPTION										DRAWN		DESIGNED		APPR.		DATE		DATUM : AHD GOA 94 ZONE 56				TECH SERVICES DRG No.									

DATE PUBLISHED: 16 January, 2019 - 3:00pm
CAPFILE: I:\LEGISLATION\GREENBANK PDA TO SPS151\001\DWG\LS305-01-S-DWG-CI-2100.dwg



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0	FOR CONSTRUCTION	SZ	VV		
REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE

DESIGNED BY	RPEQ	REFERENCES
V. VERGARA		PROJECT No.
DRAFTED BY	DRAFTING CHECK BY	LS305-01
P. SPEAR	F. JESPERSEN	FILE REFERENCE:
DESIGN CHECKED BY	RPEQ	SHEET SIZE
S. DICKER	18473	A1
APPROVED BY	RPEQ	DATUM : AHD
		GOA 94 ZONE 56



PROJECT:	GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:	SPS156 WASTEWATER PUMP STATION SITE LAYOUT
DRAWING No.	LS305-01-S-DWG-CI-2100
DESIGN COMPANY:	LoganWIA
TECH SERVICE: DRG	DRAFT
REV.	0

NOTES

1. FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.

SERVICE VEHICLE PROFILE (8.80m LONG)

(AS PER SEQ-SPS-1102-2)

	METRES
WIDTH	2.50
TRACK	2.50
LOCK TO LOCK TIME	6s
STEERING ANGLE	38.7°

CHEMICAL DELIVERY (12.50m LONG)

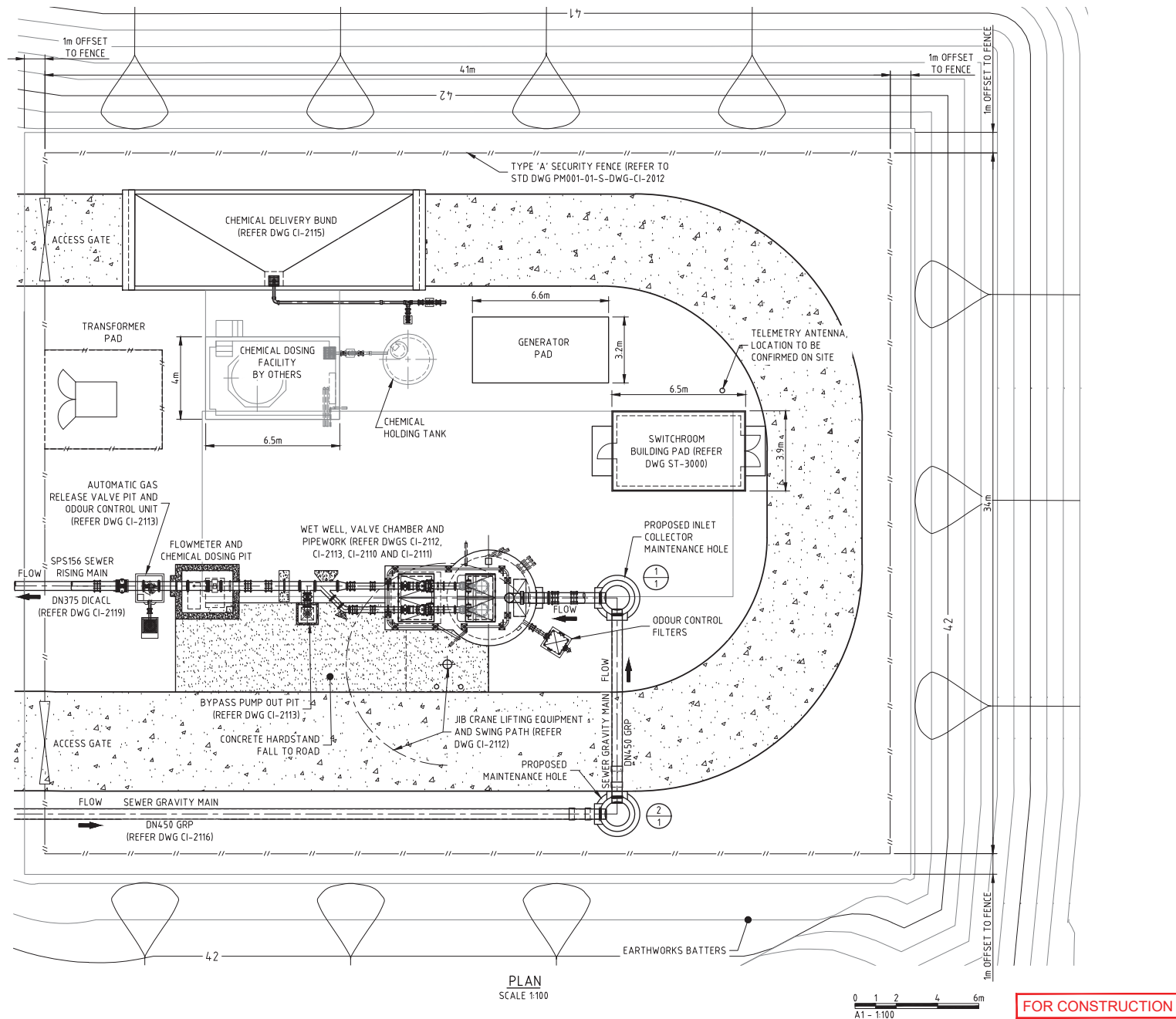
(BASED ON SU TRUCK PROFILE)

	METRES
WIDTH	2.50
TRACK	2.50
LOCK TO LOCK TIME	6s
STEERING ANGLE	36.6°

**PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL**

Approval no: DEV2019/1005

Date: 28 March 2019



LEGEND:

—	LoganWIA
—	OTHERS

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
0	FOR CONSTRUCTION	SZ	VV		

DESIGNED BY	RPEQ	REFERENCES
V. VERGARA		PROJECT No.
DRAFTED BY	DRAFTING CHECK BY	LS305-01
P. SPEAR	F. JESPERSEN	FILE REFERENCE:
DESIGN CHECKED BY	RPEQ	
S. DICKER	18473	SHEET SIZE
APPROVED BY	RPEQ	A1
		DATUM : AHD
		GOA 94 ZONE 56



LOGAN
WATER INFRASTRUCTURE
ALLIANCE



PROJECT:	GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:	SPS156 WASTEWATER PUMP STATION SITE GENERAL ARRANGEMENT PLAN
DRAWING No.	LS305-01-S-DWG-CI-2101
DESIGN COMPANY:	LoganWIA
TECH SERVICE:	DRAFT
REV.	0

NOTES

1. FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
2. FOR SET OUT COORDINATE TABLES, REFER TO DWG CI-2103.
3. SITE SERVICES OMITTED FOR CLARITY.

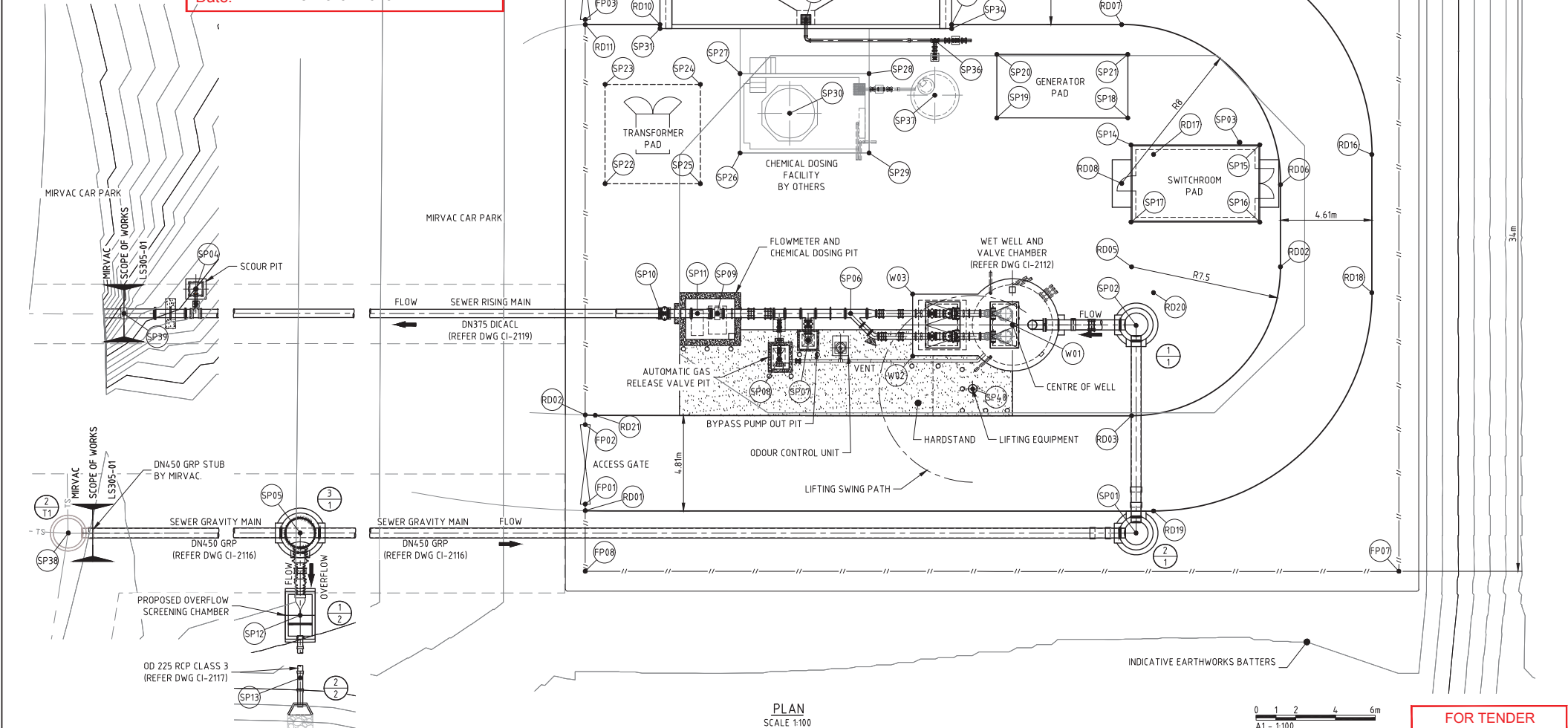
SETOUT NOTES

1. PAD FOR PUMP STATION LEVELED BY MIRVAC AT 4.165m AHD.
LoganWIA TO FINISH ROAD, KERBS, PLINTHS ETC WITHIN FENCE LINE.

**PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL**

Approval no: DEV2019/1005

Date: 28 March 2019



PLAN
SCALE 1:100

0 1 2 4 6m
A1 - 1:100

FOR TENDER

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REV. No.	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
C	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018
B	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018
A	FOR 50% DOAR WORKSHOP	PS	AL		10/05/2018

DESIGNED BY	RPEQ	REFERENCES
V. VERGARA		PROJECT No.
DRAFTED BY	DRAFTING CHECK BY	LS305-01
P. SPEAR	M. NARDELLA	FILE REFERENCE:
DESIGN CHECKED BY	RPEQ	
S. DICKER	184/73	SHEET SIZE
APPROVED BY	RPEQ	A1
		DATUM: AHD
		GOA 94 ZONE 56

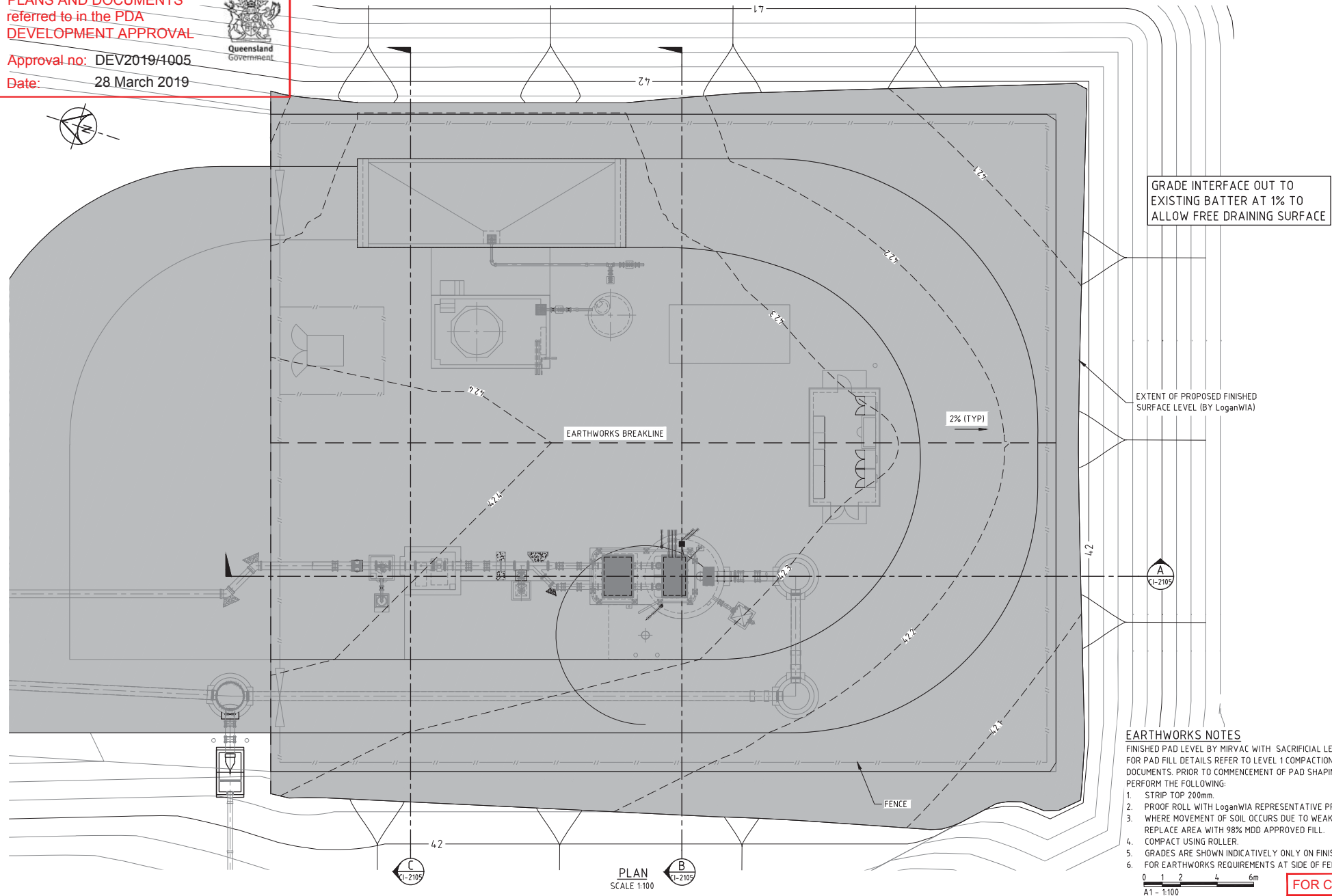


PROJECT:	GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:	SPS156 WASTEWATER PUMP STATION SITE SET OUT PLAN
DRAWING No.	LS305-01-S-DWG-CI-2102
DESIGN COMPANY:	LoganWIA
TECH SERVICES DRG No.	
REV.	C

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/4005

Date: 28 March 2019



EARTHWORKS NOTES

- FINISHED PAD LEVEL BY MIRVAC WITH SACRIFICIAL LEVEL OF 200mm.
FOR PAD FILL DETAILS REFER TO LEVEL 1 COMPACTION REPORT IN TENDER DOCUMENTS. PRIOR TO COMMENCEMENT OF PAD SHAPING SUBCONTRACTOR TO PERFORM THE FOLLOWING:
1. STRIP TOP 200mm.
 2. PROOF ROLL WITH LoganWIA REPRESENTATIVE PRESENT.
 3. WHERE MOVEMENT OF SOIL OCCURS DUE TO WEAK SPOTS, REMOVE AND REPLACE AREA WITH 98% MDD APPROVED FILL.
 4. COMPACT USING ROLLER.
 5. GRADES ARE SHOWN INDICATIVELY ONLY ON FINISHED SURFACE LEVEL.
 6. FOR EARTHWORKS REQUIREMENTS AT SIDE OF FENCE SEE DWG CI-2121.

0 1 2 4 6m
A1 - 1:100

FOR CONSTRUCTION

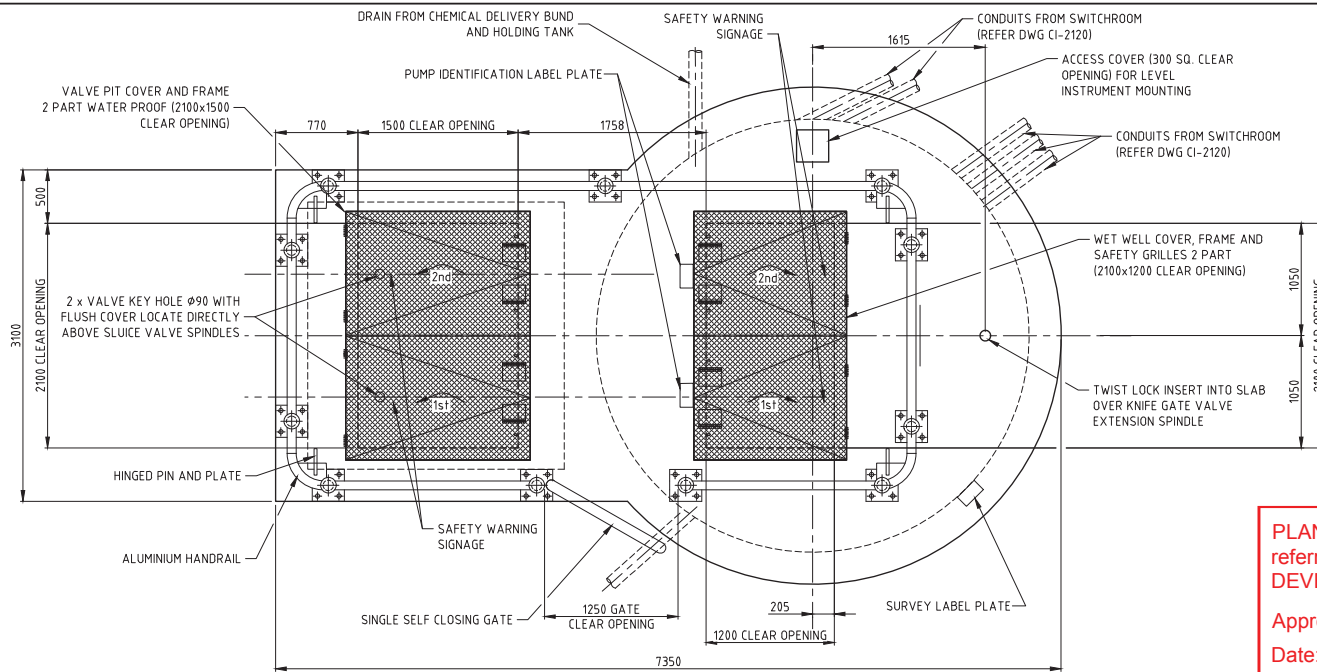
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REV. No	DESCRIPTION	MR	VV	APPR.	DATE
0	FOR CONSTRUCTION				

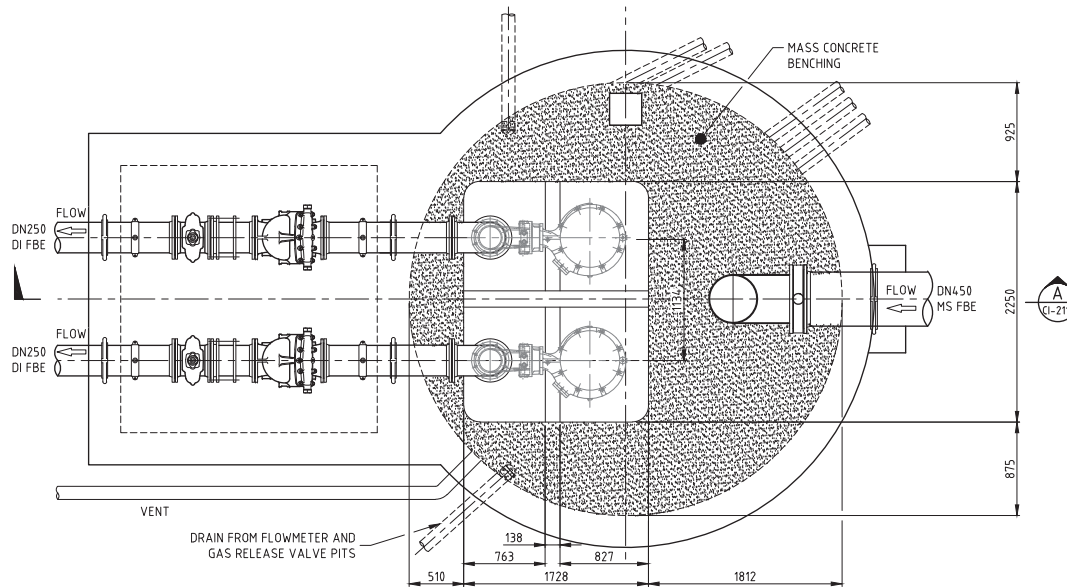
DESIGNED BY V. VERGARA	RPEQ	REFERENCES PROJECT No. LS305-01
DRAFTED BY M. RODGER	DRAFTING CHECK BY F. JESPERSEN	FILE REFERENCE:
DESIGN CHECKED BY S. DICKER	RPEQ	SHEET SIZE A1
APPROVED BY	RPEQ	DATUM: AHD GOA 94 ZONE 56



PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE	DRAWING TITLE: SPS156 WASTEWATER PUMP STATION EARTHWORKS PLAN	DRAWING No. LS305-01-S-DWG-CI-2104	DESIGN COMPANY: LoganWIA	TECH SERVICE: DRG	REV. 0
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ROOF PLAN
SCALE 1:25



BELOW ROOF PLAN
SCALE 1:25

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005
Date: 28 March 2019



OPERATORS SHALL PROVIDE MOBILE FALL ARREST ANCHOR POINT AND MOBILE DAVIT SYSTEM. HANDRAILS ARE NOT TO BE USED AS FALL ARREST ANCHOR POINTS.

NOTES

1. FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
2. DIMENSIONS TO BE VERIFIED BY SUBCONTRACTOR PRIOR TO PROCUREMENT AND CONSTRUCTION.
3. REFER TO STD DWG PM001-01-S-DWG-CI-2100 FOR OTHER DETAILS AND REQUIREMENTS.

0 250 500 1000 1500mm
A1 - 1:25

FOR TENDER

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
C	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018
B	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018
A	FOR 50% DOAR WORKSHOP	PS	AL		10/05/2018

DESIGNED BY	REFERENCES
V. VERGARA	PROJECT No. LS305-01
DRAFTED BY	DRAFTING CHECK BY
P. SPEAR	M. NARDELLA
DESIGN CHECKED BY	FILE REFERENCE:
S. DICKER	184/73
APPROVED BY	SHEET SIZE
	A1
	DATUM : AHD
	GOA 94 ZONE 56



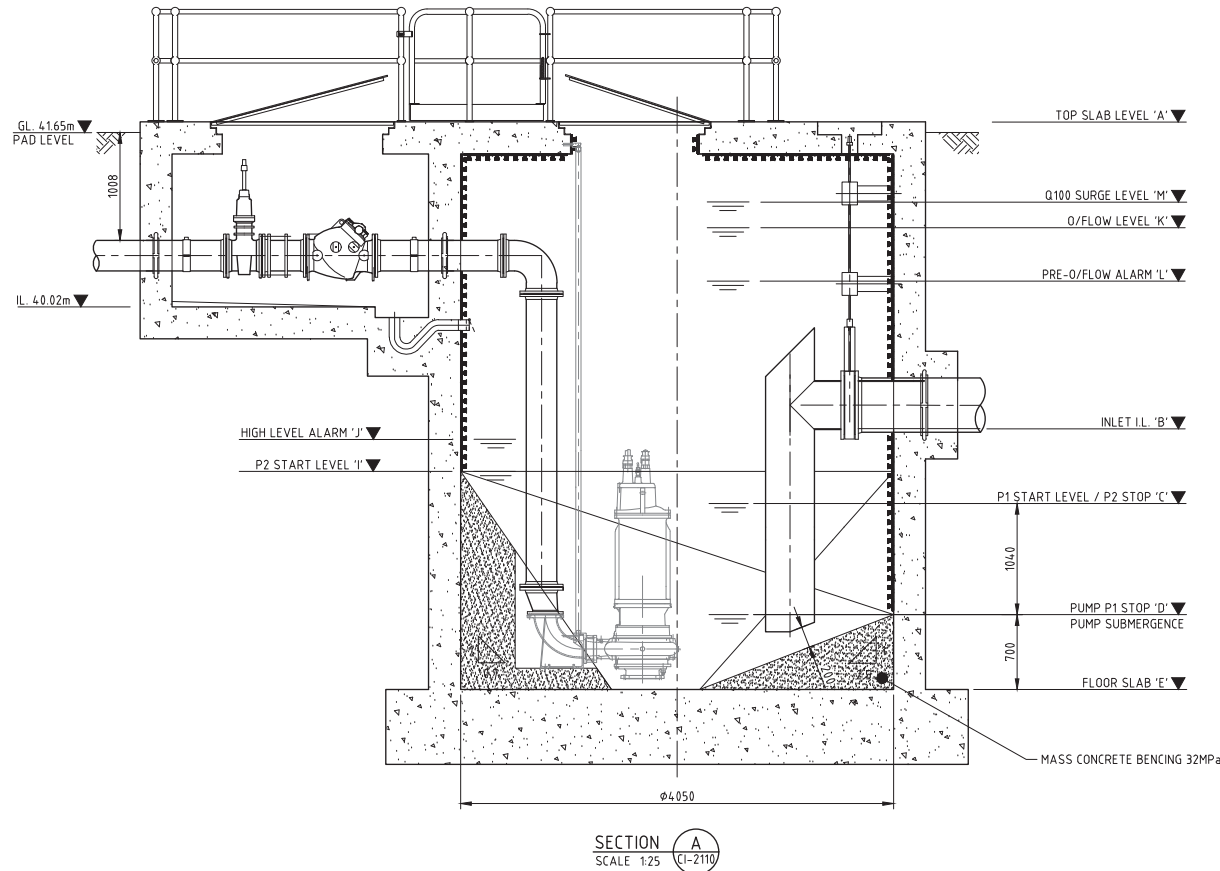
PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE: SPS156 WASTEWATER PUMP STATION
GENERAL ARRANGEMENT PLAN
ABOVE ROOF AND BELOW ROOF

DRAWING No. LS305-01-S-DWG-CI-2110
DESIGN COMPANY: LoganWIA
TECH SERVICES DRG No. C

CAD FILE: \\LS305\GREENBANK_PDA_TO_SPS151\DWG\SPS151\WWT\LS305-01-S-DWG-CI-2110.dwg

DATE PUBLISHED: 16 October 2019 - 2:46pm



PUMP STATION CONTROL LEVELS

ITEM	DESCRIPTION	LEVEL (m) (A.H.D.)	HEIGHT FROM BASE (m)
A	TOP OF SLAB	41.75	5.31
B	INLET I.L.	38.88	2.44
C	P1 START LEVEL / P2 STOP LEVEL (mAHD)	38.18	1.74
D	PUMP P1 STOP	37.14	0.70
E	FLOOR SLAB (NOTE 2)	36.44	
F	PUMP STATION DEPTH		5.31
H	GROUND LEVEL	41.65*	5.21
I	P2 START LEVEL	38.48	2.04
J	HIGH LEVEL ALARM	38.78	2.34
K	OVERFLOW LEVEL	40.76	4.32
L	PRE-OVERFLOW ALARM	40.26	3.82
M	Q100 STORM SURGE LEVEL	41.00	4.56

PUMP OPERATING LEVELS AND DEFAULT SETTINGS SHALL BE AS PER THE SEQ-SP FUNCTIONAL DESCRIPTION

* SITE PAD LEVEL AS ADVISED BY MIRVAC. ALL EARTHWORKS ARE BY MIRVAC.

OVERFLOW

OVERFLOW LEVEL AT WELL	40.76m AHD
LOWEST HOUSE FLOOR LEVEL OR MAINTENANCE HOLE LID	39.08m AHD

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019



NOTES:

- FOR GENERAL NOTES REFER TO DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- PIPE BRACKETS ARE OMITTED FOR CLARITY.

0 250 500 1000 1500mm
A1 - 1:25

FOR TENDER

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DESIGNED BY

V. VERGARA

DRAFTED BY

P. SPEAR

DESIGN CHECKED BY

S. DICKER

APPROVED BY

REV. No.

DRAFTING CHECK BY

F. JESPERSEN

RPEQ

18473

RPEQ

REFERENCES

PROJECT No.

LS305-01

FILE REFERENCE:

SHEET SIZE

A1

DATUM: AHD

GOA 94 ZONE 56



PROJECT:

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION

WET WELL GENERAL ARRANGEMENT

ELEVATION

DRAWING No.

LS305-01-S-DWG-CI-2111

DESIGN COMPANY:

LoganWIA

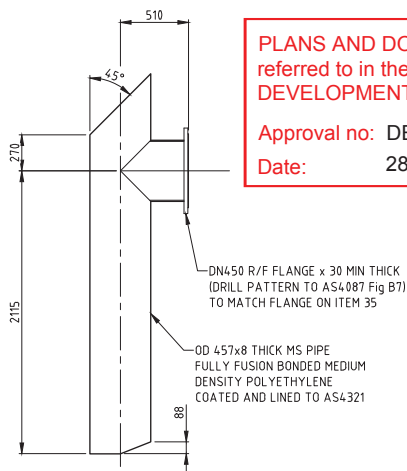
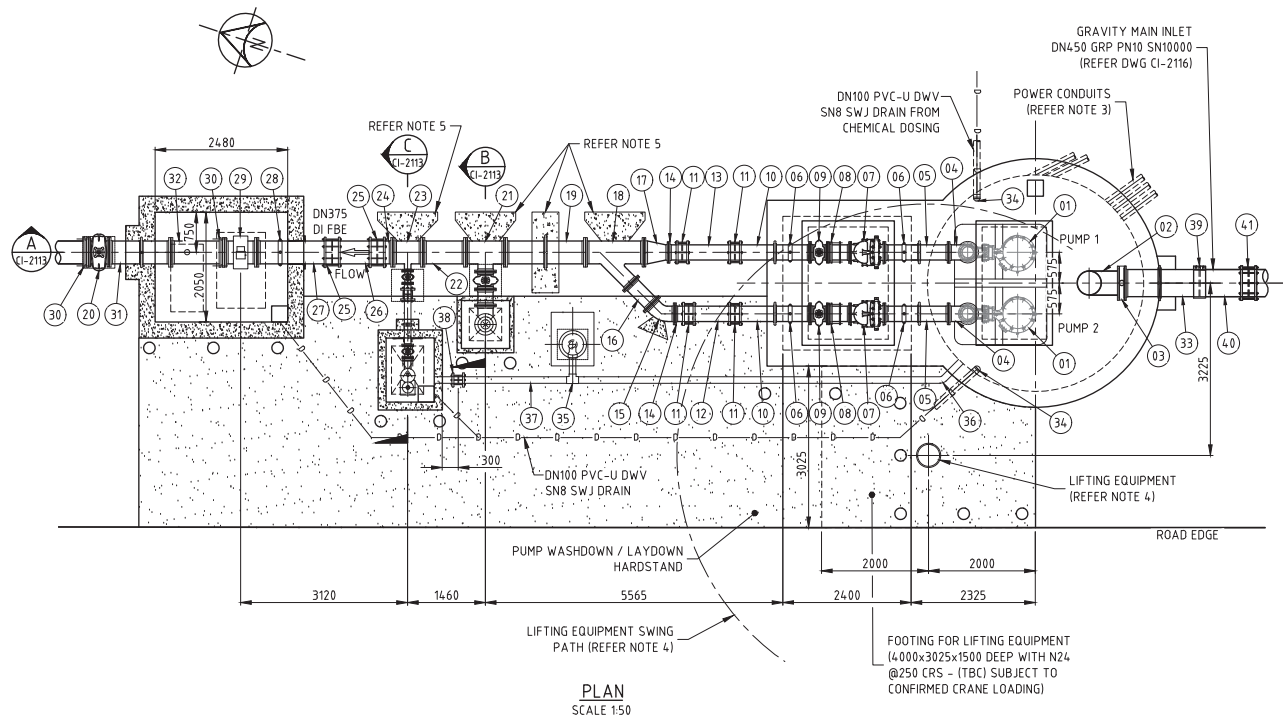
TECH SERVICES DRG No.

REV.

C

CAD FILE: I:\LS305 GREENBANK PDA TO SPS151 WASTE WATER CONVEYANCE\LS305-01-S-DWG-CI-2112.dwg

DATE PLOTTED: 16 October 2019 - 2:45pm

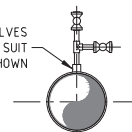


PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005
Date: 28 March 2019



DN25 SS BALL VALVES
AND FITTINGS TO SUIT
INSTALLATION AS SHOWN



TYPICAL TAPPING BAND
(ITEMS 06 AND 28)
NTS

NOTES

- FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023.
FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- FOR SETOUT COORDINATES REFER TO DWGS CI-2102 AND 2103.
- FOR ALL SERVICES LAYOUT REFER TO DWG CI-2120.
- LIFTING EQUIPMENT IS A COLUMN MOUNTED FULLY MOTORISED OUTDOOR TYPE JIB CRANE WITH 2000kg
RATED LIFTING CAPACITY TO BE 4.5m IN HEIGHT FROM GL TO UNDERSIDE OF JIB HOOK WITH A SWING OF
4.7m. A SLEW LIMITED TO 215°(INTERLOCKED TO PREVENT TRAVEL WITHIN NO SWING ZONE AND LIFTING
HEIGHT OF 8m. MEISTER OR APPROVED EQUIVALENT. PHYSICAL LOCKING MECHANISM REQUIRED TO
PREVENT ROTATION WHEN NOT IN USE.
- THRUST BLOCK AS PER SEQ CODE STD DRG WAT-1205-1 REV A AND 1206-1 REV B U.N.O.

PIPE AND FITTINGS SCHEDULE				
ITEM	DESCRIPTION	SIZE	MATERIAL	QTY
01	PUMP HIDROSTAL H05K-S03R	-	-	2
02	DROP PIPE (REFER TO DETAIL)	OD457x8mm	MS FBE	1
03	KNIFE GATE VALVE c/w NON RISING SPINDLE EXTENSION AND SUPPORT BRACKETS	DN450	SS	1
04	BEND 90° FL-FL	DN250	DI FBE	2
05	PIPE, FL-FL, 1198mm LONG c/w THRUST FLANGE 548mm FROM ONE END	DN250	DI FBE	2
06	TAPPING BAND WITH 25mm SS BALL VALVE FOR AIR RELEASE/PRESSURE TRANSDUCER. REFER TO DETAIL	DN250xDN25 BSP	316 SS	4
07	CHECK VALVE, FL-FL VALMATIC SWING FLEX (MODEL 510AUW) (700mm LONG)	DN250	DI FBE	2
08	DISMANTLING JOINT - THRUST TYPE	DN250	DI FBE	2
09	SLUICE VALVE PN16, FL-FL, RESILIENT SEATED (330mm LONG) c/w NON RISING SPINDLE EXTENSION	DN250	DI FBE	2
10	PIPE, FL-SP, 1397mm LONG c/w THRUST FLANGE 656mm FROM FLANGED END	DN250	DI FBE	2
11	JOINT, GIBAULT	DN250	DI FBE/SS 316	4
12	PIPE, SP-SP, 850mm LONG	DN250	DI FBE	1
13	PIPE, SP-SP, 969mm LONG	DN250	DI FBE	1
14	CONNECTOR, FL-SP	DN250	DI FBE	2
15	BEND 45° FL-FL	DN250	DI FBE	1
16	PIPE, FL-FL, 610mm LONG	DN250	DI FBE	1
17	TAPER CONCENTRIC FL-FL	DN375xDN250	DI FBE	1
18	ANGLE BRANCH, FL-FLxFL, 45 DEGREE	DN375xDN250	DI FBE	1
19	PIPE, FL-FL, 1500mm LONG c/w THRUST FLANGE CENTRALLY PLACED (REFER DWG PM001-01-S-DWG-ND-0020 NOTES P1 & P8)	DN375	DI FBE	1
20	SLUICE VALVE PN16, FL-FL, RESILIENT SEATED (432mm LONG)	DN375	DI FBE	1
21	TEE, FL-FLxFL	DN375xDN250	DI FBE	1
22	PIPE, FL-FL, 800mm LONG	DN375	DI FBE	1
23	INVERTED SCOUR TEE, FL-FLxFL	DN375xDN100	DI FBE	1
24	CONNECTOR, FL-SP	DN375	DI FBE	1
25	JOINT, GIBAULT	DN375	DI FBE/SS 316	2
26	PIPE, SP-SP, 900mm LONG (CUT TO SUIT)	DN375	DI FBE	1
27	PIPE, FL-SP, 1400mm LONG	DN375	DI FBE	1
28	TAPPING BAND WITH 25mm SS BALL VALVE FOR AIR RELEASE/PRESSURE TRANSDUCER	DN375xDN25 BSP	316 SS	1
29	FLOWMETER, FL-FL, IP68 COMPLETE WITH EARTHING RINGS (600mm LONG)	DN375	-	1
30	DISMANTLING JOINT, NON THRUST TYPE	DN375	DI FBE	2
31	PIPE, FL-FL, 1150mm LONG WITH THRUST FLANGE 601mm FROM ONE END	DN375	DI FBE	1
32	PIPE, FL-SP, 1000mm LONG	DN375	DI FBE	1
33	PIPE, FL-SP, 1400mm LONG c/w CENTRAL THRUST FLANGE.	OD457 x 8 THICK	MS FBE	1
34	NON-RETURN FLAP VALVE, HARDIE KING OR APPROVED EQUIVALENT	DN100	PVC	2
35	EQUAL TEE, SWJ SN8	DN100	PVC-U DWV	1
36	BEND 45°, SWJ SN8	DN100	PVC-U DWV	1
37	PIPE, SWJ SN8, 10.5m LONG (CUT TO SUIT ON SITE)	DN100	PVC-U DWV	1
38	JOINT, GIBAULT	DN100	DI FBE/SS 316	1
39	VARGIB STEPPED COUPLING	OD457 MS x DN450 GRP	DI FBE/SS 316	1
40	PIPE, SP-SP, 900mm LONG	DN450	GRP PN10 SN10000	1
41	JOINT, GIBAULT	DN450	DI FBE/SS 316	1

0 200 400 800 1200mm
A1 - 1:20

0 500 1000 2000 3000mm
A1 - 1:50

FOR TENDER

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
B	FOR TENDER 185% DESIGN DOCUMENTATION	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018

DESIGNED BY

V. VERGARA

DRAFTED BY

P. SPEAR

DESIGN CHECKED BY

S. DICKER

APPROVED BY

REFERENCES

PROJECT No.

LS305-01

FILE REFERENCE:

SHEET SIZE

A1

DATUM: AHD

GOA 94 ZONE 56

GOA 94 ZONE 56



LOGAN
WATER INFRASTRUCTURE
ALLIANCE



Proudly
LOGAN
CITY COUNCIL

PROJECT:

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION

GENERAL ARRANGEMENT DETAILS

PLAN AND PIPE FITTINGS SCHEDULE, SHEET 1 OF 2

REVISIONS

REV. B

TECH SERVICES DRG No.

DRAWING No.

LS305-01-S-DWG-CI-2112

DESIGN COMPANY:

LoganWIA

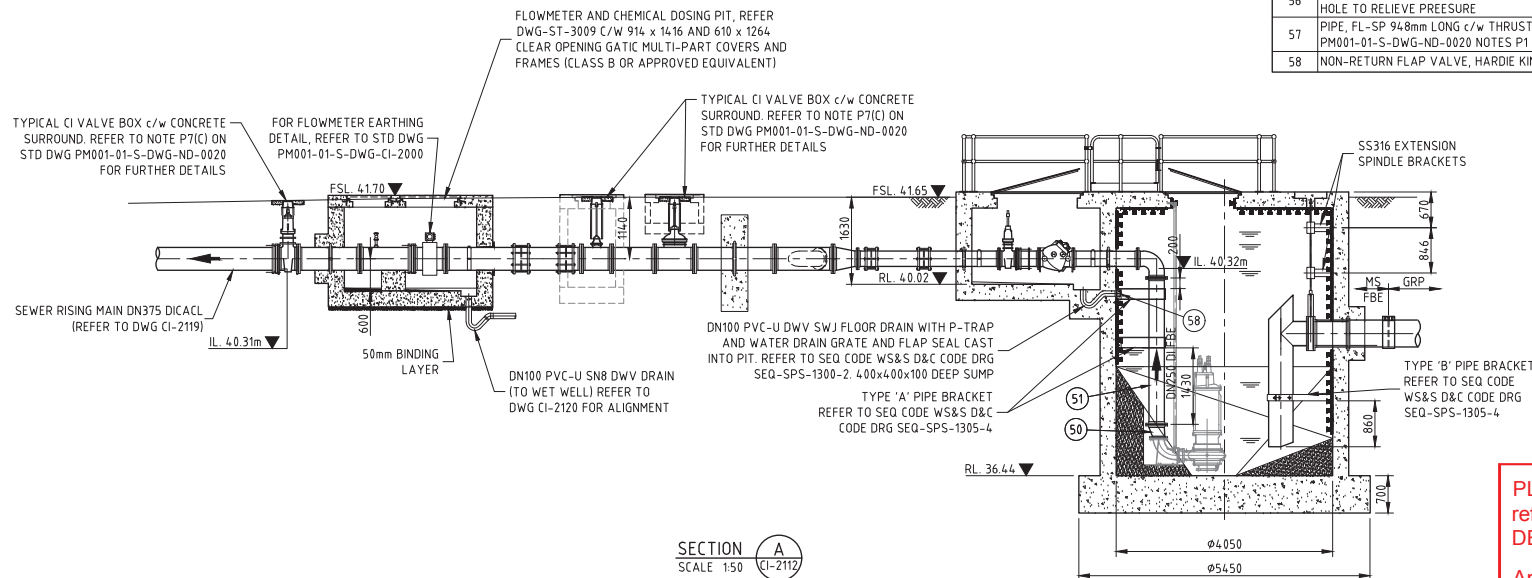
TECH SERVICES DRG No.

REV. B

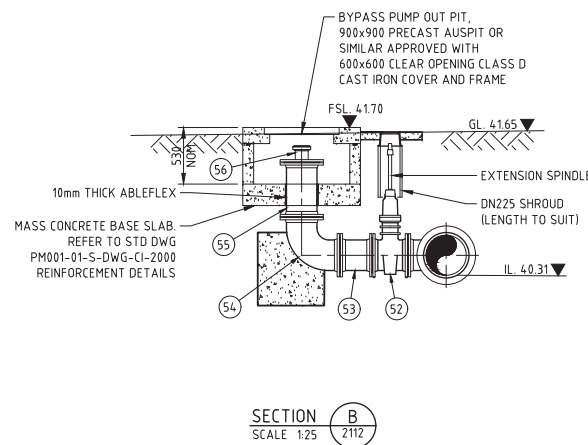
TECH SERVICES DRG No.

PIPE AND FITTINGS SCHEDULE

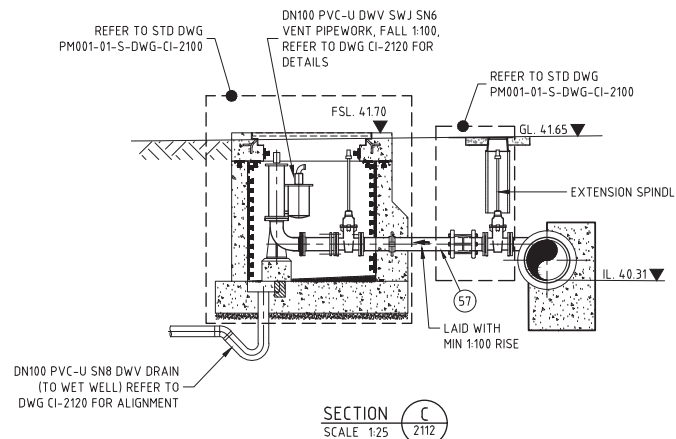
ITEM	DESCRIPTION	SIZE	MATERIAL	QTY
50	TAPER ECCENTRIC FL-FL (DN250 AS4087 FIG B5 PN16 - DN200 ISO7005/DIN EN 1092)	DN250xDN200	DI FBE	2
51	PIPE PN35 FL-FL 274.0mm LONG	DN250	DI FBE	2
52	SLUICE VALVE PN16, FL-FL, RESILIENT SEATED (330mm LONG) c/w NON RISING SPINDLE EXTENSION	DN250	DI FBE	1
53	PIPE PN35 FL-FL 300mm LONG	DN250	DI FBE	1
54	BEND 90° FL-FL	DN250	DI FBE	1
55	PIPE PN35 FL-FL 509mm LONG	DN250	DI FBE	1
56	BAUER COUPLING, FLANGED (OVERSIZED DN250) FEMALE, INCLUDING DUST CAP DRILLED WITH 5mm HOLE TO RELIEVE PREESURE	DN150	GALV STEEL	1
57	PIPE, FL-SP 94.8mm LONG c/w THRUST FLANGE 290mm FROM FLANGED END (REFER DWG PM001-01-S-DWG-ND-0020 NOTES P1 & P8)	DN100	DI FBE	1
58	NON-RETURN FLAP VALVE, HARDIE KING OR APPROVED EQUIVALENT	DN100	PVC	1



SECTION A
SCALE 1:50
CI-2112



SECTION B
SCALE 1:25
2112



SECTION C
SCALE 1:25
2112

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL



Approval no: DEV2019/1005
Date: 28 March 2019

NOTES

- FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO ND-0000.
- FOR SETOUT COORDINATES REFER TO DWGS CI-2102 AND CI-2103.
- POLYETHYLENE LINING DETAILS IN ACCORDANCE WITH SEQ CODE WS&S D&C DRG SEQ-SPS-1407-1.
- THE PROTECTIVE COATING SYSTEM SHALL BE SEALED AT BENCHING EDGES, ALL ENTRIES THROUGH THE CONCRETE STRUCTURE AND AT ALL FITMENT HOLES WITH AN APPROVED SILICON ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SIGNAGE TO UNDERSIDE OF COVERS AS PER SEQ CODE WS&S D&C DRG SEQ-SPS-1300-1 AND 'MAX TWO PUMP LOAD ONTO ROOF SLAB AT ANYTIME' SIGNAGE.
- ALL ELECTRICAL CONDUITS TO HAVE MIN 600 COVER.
- THRUST BLOCK AS PER SEQ CODE STD DRG WAT-1205-1 REV A AND 1206-1 REV B U.N.O.
- OVER CORE PENETRATION TO PIPE AND HYDROPHILIC SEAL AND USE APPROVED GROUT. HYDROPHILIC RUBBER SEALS SHALL BE A MINIMUM OF 6x25mm AND SHALL FULLY ENCIRCLE PIPE WITH MINIMUM 50mm OVERLAP THAT IS IN CONTACT WITH ITSELF.



FOR TENDER

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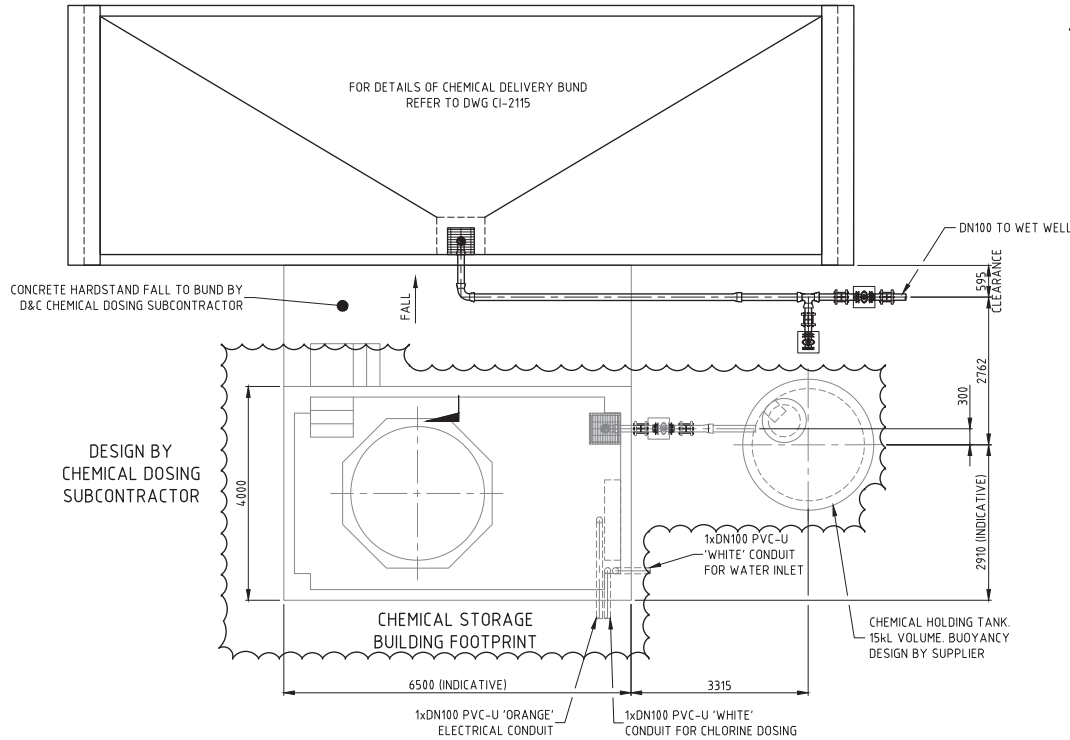
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B	FOR TENDER 18% DESIGN DOCUMENTATION	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018

DESIGNED BY V. VERGARA	DRAFTING CHECK BY M. NARDELLA
DRAFTED BY P. SPEAR	DESIGN CHECKED BY RPEQ
DESIGN SIZE 184.73	APPROVED BY RPEQ

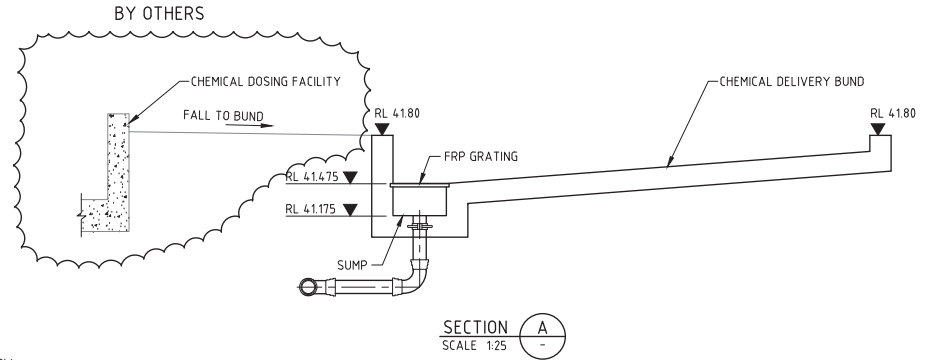
REFERENCES PROJECT No. LS305-01	SHEET SIZE A1
FILE REFERENCE:	DATUM: AHD GOA 94 ZONE 56



PROJECT: DRAWING TITLE: SPS156 WASTEWATER PUMP STATION GENERAL ARRANGEMENT DETAILS ELEVATION AND SECTIONS, SHEET 2 OF 2	DRAWING No. LS305-01-S-DWG-CI-2113 DESIGN COMPANY: LoganWIA TECH SERVICES DRG No.	REV. B
---	---	-----------



PLAN
SCALE 1:50



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005
Date: 28 March 2019



NOTES:

- FOR GENERAL NOTES REFER TO STD DWGS PM001-00-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- SUBCONTRACTOR TO CONFIRM CHEMICAL DOSE SCHEDULE WITH LoganWIA.

0 250 500 1000 1500mm
A1 - 1:25

0 500 1000 2000 3000mm
A1 - 1:50

FOR TENDER

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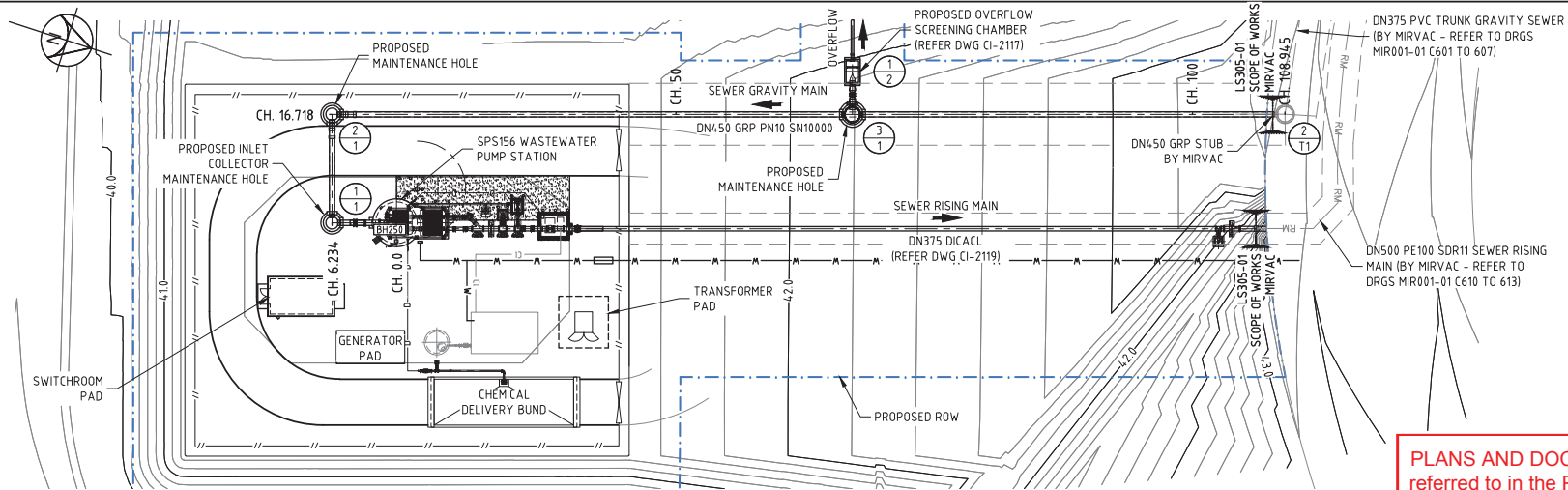
REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
B	FOR TENDER 18% DESIGN DOCUMENTATION	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018

DESIGNED BY V. VERGARA	DRAFTING CHECK BY M. NARDELLA
DRAFTED BY P. SPEAR	DESIGN CHECKED BY RPEQ
DESIGNED BY S. DICKER	APPROVED BY RPEQ

REFERENCES PROJECT No. LS305-01	FILE REFERENCE: SHEET SIZE A1
DATUM: AHD GOA 94 ZONE 56	



PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE	DRAWING TITLE: SPS156 WASTEWATER PUMP STATION CHEMICAL DOSING INTERFACE DETAILS	DRAWING No. LS305-01-S-DWG-CI-2114	DESIGN COMPANY: LoganWIA	REV. B
		TECH SERVICES DRG No.		



PLAN
SCALE 1:250

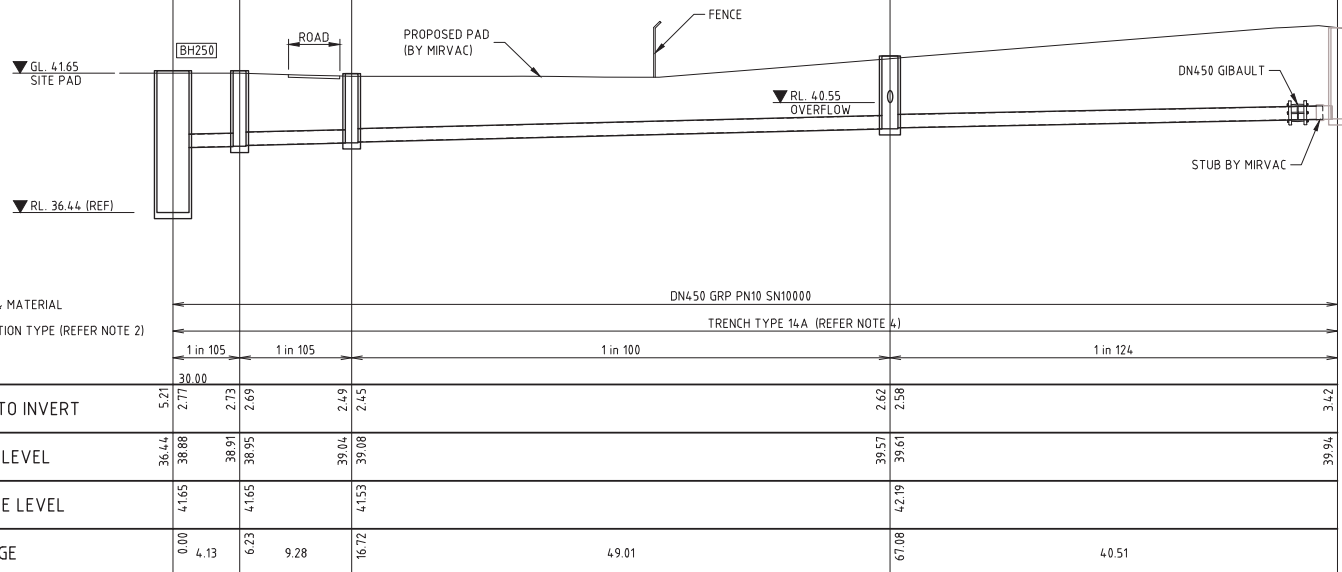
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV2019/1005

Date: 28 March 2019

MAINTENANCE HOLE No.	SPS156 WELL	1	2
MAINTENANCE HOLE TYPE	SPS WELL (REFER NOTE 3)	Ø1200 TYPE B	Ø1200 TYPE B (REFER NOTE 3)
LID CLASS	-	D	D
JUNCTION LINE	-	-	-
DROP TYPE	-	V	V



LONGITUDINAL SECTION
SCALE HOR 1:250, VERT 1:100

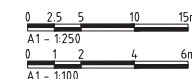
TABLE 1

SEWER GRAVITY MAIN DESIGN FLOWS
MH 2/T1 TO SPS156

PLANNING HORIZON	2021	ULTIMATE 2101
EP	2,948.00	15,097.00
ADWF (L/s)	5.63	28.83
PDWF (L/s)	11.44	49.34
PWWF (L/s)	34.12	174.73

NOTES:

- FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- FOR MH AND TRENCH CONSTRUCTION TYPES REFER TO STD DWGS PM001-00-S-DWG-ND-0050, ND-0051, ND-0068 TO ND-0072.
- SPECIAL INTERNALLY PE LINED MAINTENANCE HOLE (REFER TO STD DWG PM001-00-S-DWG-ND-0070).
- REFER TO CI-2125 FOR PAVEMENT REQUIREMENTS INSIDE THE PUMP STATION.



FOR TENDER

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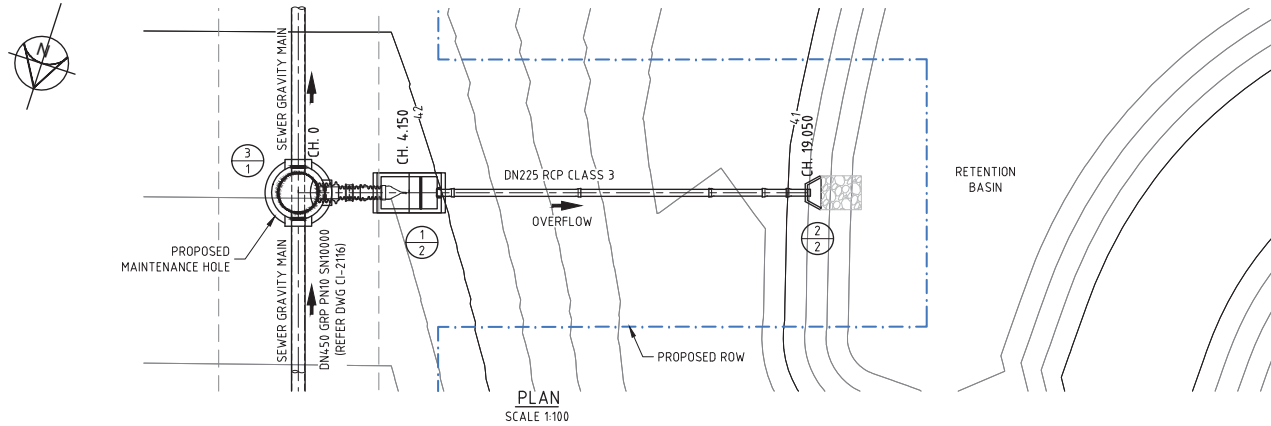
REV. No.	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
B	FOR TENDER 18% DESIGN DOCUMENTATION	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018

DESIGNED BY	V. VERGARA
DRAFTED BY	F. JESPERSEN
DESIGN CHECKED BY	RPEQ
APPROVED BY	RPEQ

REFERENCES	PROJECT No.
	LS305-01
FILE REFERENCE:	
SHEET SIZE	A1
DATUM: AHD	GOA 94 ZONE 56

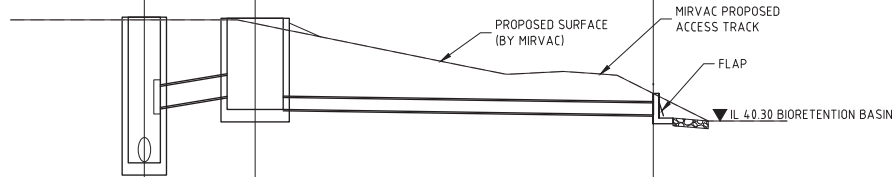


PROJECT:	GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:	SPS156 WASTEWATER PUMP STATION
DRAWING No:	LS305-01-S-DWG-CI-2116
DESIGN COMPANY:	LoganWIA
TECH SERVICES DRG No:	
REV:	B



MAINTENANCE HOLE No.
MAINTENANCE HOLE TYPE
LID CLASS
JUNCTION LINE
DROP TYPE

MAINTENANCE HOLE No.	MAINTENANCE HOLE TYPE	LID CLASS	JUNCTION LINE	DROP TYPE
3	Ø1500 TYPE B	D	-	-
1	2100x1200 OVERFLOW PIT (REFER NOTE 3)	A	-	-
2	HEADWALL OUTLET	(REFER NOTE 3)	-	-



LOCATION	0.00	4.15	4.15	14.90	19.05
PIPE SIZE & MATERIAL	ØD450 PP SN10	DN 225 RCP CLASS 3	DN 225 RCP CLASS 3	DN 225 RCP CLASS 3	DN 225 RCP CLASS 3
CONSTRUCTION TYPE (REFER PM001-00-S-DWG ND-0050 AND ND-0051)	TRENCH TYPE 14A	TRENCH TYPE 3A	TRENCH TYPE 3A	TRENCH TYPE 3A	TRENCH TYPE 3A
GRADE	1 in 20	1 in 150	1 in 150	1 in 150	1 in 150
DATUM RL	36.00	36.00	36.00	36.00	36.00
DEPTH TO INVERT	2.67	2.65	1.36	1.61	0.40
INVERT LEVEL	39.52	39.54	40.76	40.52	40.42
SURFACE LEVEL	42.19	42.12	42.12	42.12	42.82
CHAINAGE	0.00	4.15	4.15	14.90	19.05

LONGITUDINAL SECTION
SCALE HOR 1:100, VERT 1:50

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019



NOTES:

- FOR GENERAL NOTES REFER TO STD DWGS PM001-00-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO STD DWG ND-0000.
- FOR MH AND TRENCH CONSTRUCTION TYPES REFER TO STD DWGS PM001-00-S-DWG-ND-0050, ND-0051 AND ND-0068 TO ND-0072.
- FOR OVERFLOW PIT, HEADWALL AND DRAIN PROTECTION DETAILS, REFER TO STD DWG PM001-01-S-DWG-CI-2001.
- SHAPE OUTLET LOCALLY TO DRAIN TO BIORETENTION BASIN.



FOR TENDER

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DESIGNED BY	REFERENCES
V. VERGARA	PROJECT No. LS305-01
DRAFTED BY	FILE REFERENCE:
S. ZOLLNER	F. JESPERSEN
DESIGN CHECKED BY	SHEET SIZE
RPEG	A1
S. DICKER	DATUM : AHD
APPROVED BY	GOA 94 ZONE 56
RPEG	

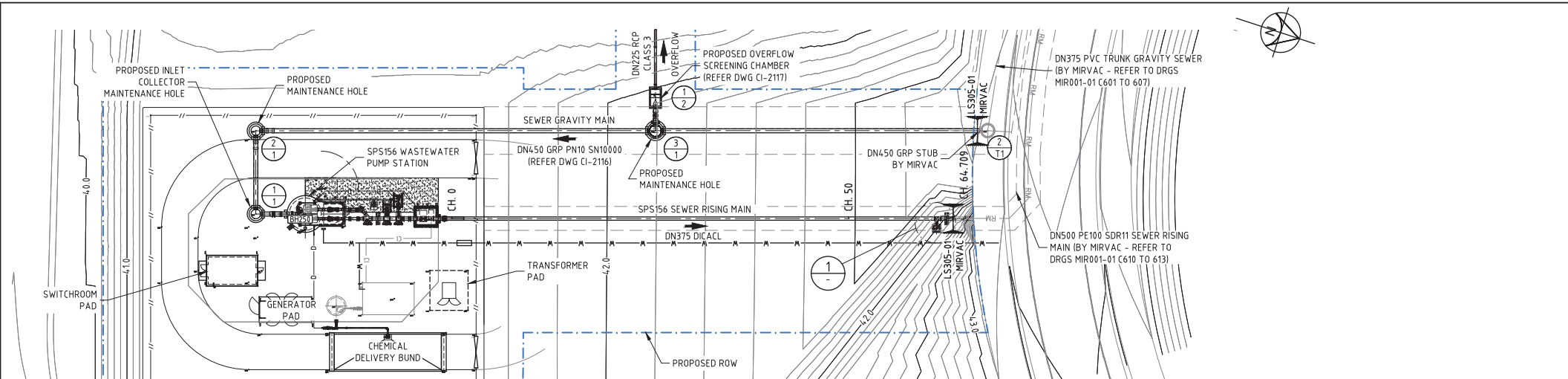


PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:
SPS156 WASTEWATER PUMP STATION
OVERFLOW
PLAN AND LONG SECTION

DRAWING No.	REV.
LS305-01-S-DWG-CI-2117	A
DESIGN COMPANY:	TECH SERVICES ORG No.
LoganWIA	

REV. No.	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
A	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018

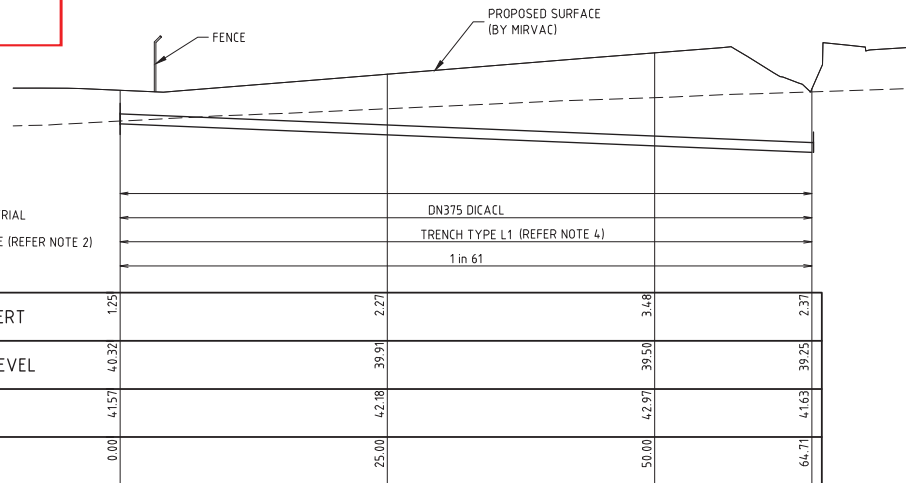


PLAN
SCALE 1:250

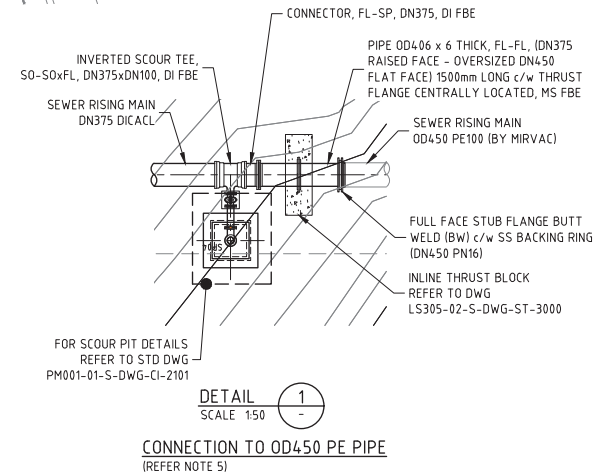
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1005

Date: 28 March 2019

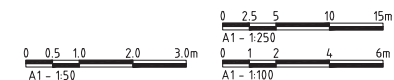


LONGITUDINAL SECTION
SCALE HOR 1:250, VERT 1:100



NOTES:

- FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- FOR TRENCH CONSTRUCTION TYPES REFER TO STD DWGS PM001-00-S-DWG-ND-0050 AND ND-0051.
- PE100 PRESSURE MAIN PIPES SHALL BE EXTERNAL COLOUR SOLID CREAM.
- REFER TO CI-2125 FOR PAVEMENT REQUIREMENTS INSIDE THE PUMP STATION.
- SUBCONTRACTOR TO CONFIRM LOCATION OF PE RISING MAIN PRIOR TO CONSTRUCTION OF DICL RISING MAIN.
- SUBCONTRACTOR TO REMOVE ANY TEMPORARY THRUST BLOCKS AND MAKE CONNECTION AS SHOWN ON DETAIL 1.



FOR TENDER

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REV. No	DESCRIPTION	DRAWN	DESIGNED	APPR.	DATE
B	FOR TENDER 18% DESIGN DOCUMENTATION	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018

DESIGNED BY

V. VERGARA

DRAFTED BY

P. SPEAR

DESIGN CHECKED BY

S. DICKER

APPROVED BY

DRAFTING CHECK BY

F. JESPERSEN

RPEQ

184/73

RPEQ

REFERENCES

PROJECT No.

LS305-01

FILE REFERENCE:

SHEET SIZE

A1

DATUM : AHD

GOA 94 ZONE 56



PROJECT:

GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION

SEWER RISING MAIN

PLAN AND LONG SECTION

DRAWING No.

LS305-01-S-DWG-CI-2119

DESIGN COMPANY:

LoganWIA

TECH SERVICES DRG No.

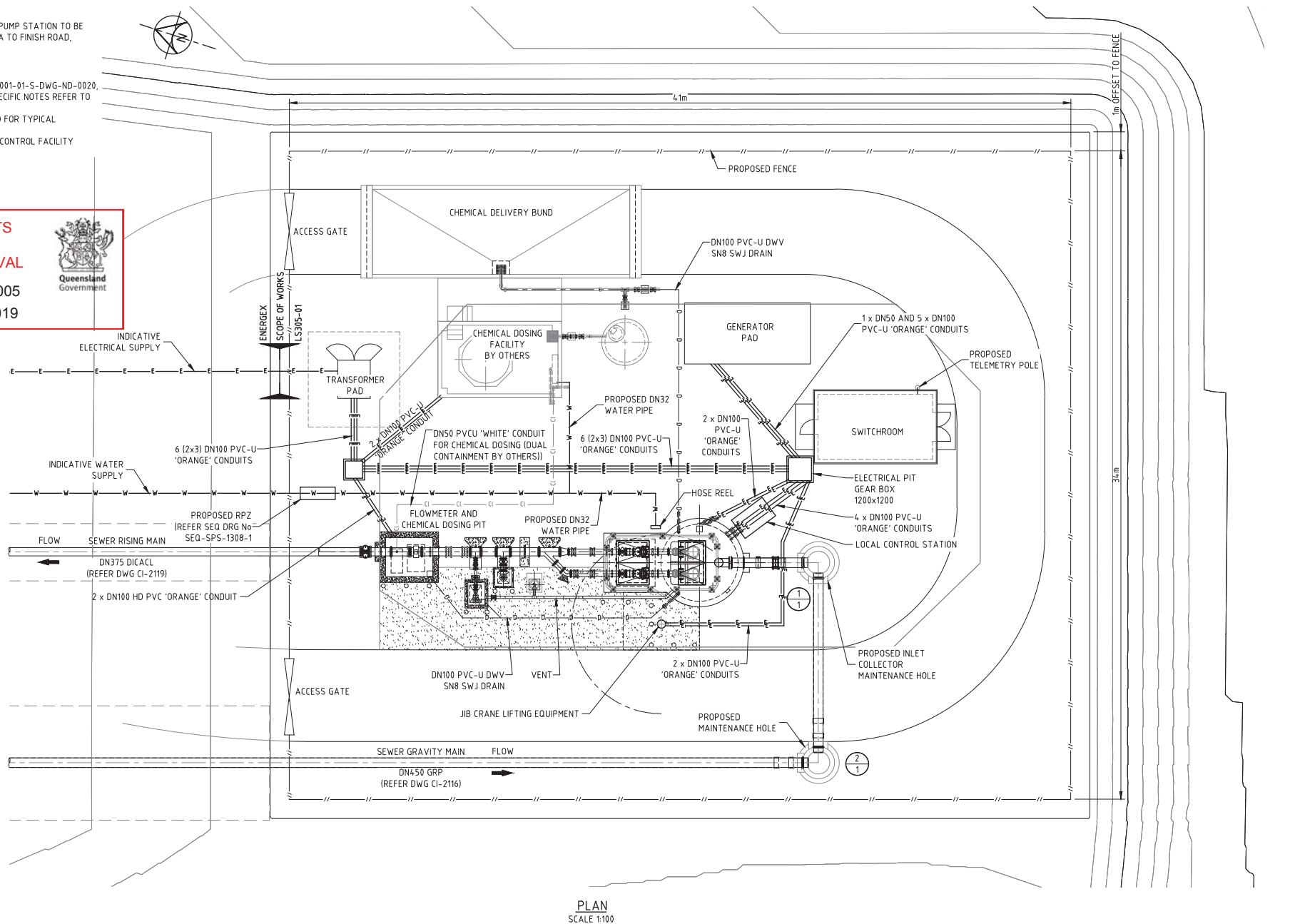
REV.

B

1. ALL EARTHWORKS ARE BY MIRVAC. PAD FOR PUMP STATION TO BE LEVELED BY MIRVAC AT 41.65m AHD. LoganWIA TO FINISH ROAD, KERBS, PLINTHS ETC WITHIN FENCE LINE.

1. FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
2. REFER TO STD DWG PM001-01-S-DWG-CI-2200 FOR TYPICAL ELECTRICAL TRENCH DETAILS.
3. SERVICES INTO CHEMICAL DOSING AND ODOUR CONTROL FACILITY PENDING FINAL VENDOR LAYOUTS.

Approval no: DEV2019/1005
Date: 28 March 2019



PLAN
SCALE 1:100

A1 - 1:100

FOR TENDER

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DESIGNED BY		RPEQ
V. VERGARA		
DRAFTED BY		DRAFTING CHEF
P. SPEAR		M. NARDELLA
DESIGN CHECKED BY		RPEQ
S. DICKER		1847
APPROVED BY		RPEQ

REFERENCES
PROJECT No. LS305-01
FILE REFERENCE:
SHEET SIZE A1
DATUM : AHD GDA 94 ZONE 56



PROJECT: GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE

DRAWING TITLE:

SPS156 WASTEWATER PUMP STATION
SITE SERVICES PLAN

DRAWING No.	LS305-01-S-DWG-CI-2120
DESIGN COMPANY.	LoganWIA
TECH SERVICES DRG No.	

B	FOR TENDER (85% DESIGN DOCUMENTATION)	SZ	VV		11/10/2018
A	FOR 70% DOAR WORKSHOP	SZ	VV		25/09/2018
REV. No	DESCRIPTION	DRAWN	DESIGNED	APPD	DATE

NOTES

- FOR GENERAL NOTES REFER TO STD DWGS PM001-01-S-DWG-ND-0020, ND-0021, ND-0022 AND ND-0023, AND PM001-00-S-DWG-ND-0020 AND ND-0021. FOR SITE SPECIFIC NOTES REFER TO DWG ND-0000.
- SITE SERVICES OMITTED FOR CLARITY.
- REFER TO STD DWG PM001-01-S-DWG-CI-2030 FOR PAVEMENT DETAILS AND SUBGRADE PREPARATION REQUIREMENTS.

LEGEND

- PAVEMENT TYPE 'A', ASPHALT
- TYPE 'D1' CRUSHED ROCK PAVEMENT (STRUCTURAL FILL). REFER TO STD DWG PM001-01-S-DWG-CI-2030 OVER WEED MAT
- TYPE 'D2' CRUSHED ROCK PAVEMENT (NON-STRUCTURAL FILL). REFER TO STD DWG PM001-01-S-DWG-CI-2030 OVER WEED MAT
- MULCH EXTENTS
- TURF EXTENTS
- PLANTING EXTENTS
- SMALL TREE
- LARGE TREE

LANDSCAPE

- IN AREAS THAT SITE TOPSOIL MUST BE REINSTATED ON MASS, THE SUBGRADE MUST BE CULTIVATED TO A DEPTH OF 150mm PRIOR TO SITE TOPSOIL BEING INSTALLED (AS PER THE LCC STANDARDS).
- THE BULK OF THE SITE WILL BE REINSTATING SITE TOPSOIL TO A MINIMUM DEPTH OF 100mm WHERE GROUND SURFACE HAS BEEN DISTURBED, TO THE BULK OF THE SITE.
IN THE INSTANCE SITE TOPSOIL IS NOT AVAILABLE, SUPPLY AND INSTALL IMPORTED TOPSOIL, WHICH MUST BE AS4419:2003 COMPLIANT. ALL SURVEYED FINISH GRADES MUST BE MATCHED TO PRE-DISTURBANCE LEVELS, ONCE TOPSOIL IS REINSTATED, UNLESS OTHERWISE NOTED ON DRAWINGS.
ENSURE ALL THAT THE TOPSOIL IS SET BELOW THE MASTER GRADE, BASED UPON THE FINAL SURFACE TREATMENT (E.G. TURF OR MULCH/MESH).
- SITE MULCH (TREATED AS PER G.E.M.P.) TO BE INSTALLED TO A DEPTH OF 100mm AS INDICATED ON THE DRAWINGS. IF NO SITE, MULCH IS AVAILABLE, SUPPLY AND INSTALL 'FOREST BLEND' MULCH, COMPLIANT TO AS 4454:2012.
- PLANTS TO BE SUPPLIED AS PER THE PLANT SCHEDULE, AND LOCATED AS DESCRIBED ON THE DRAWINGS INCLUSIVE OF SPECIES, POT SIZE, DENSITY, LOCATION). IN THE INSTANCE THE SPECIFIED SPECIES CANNOT BE PROCURED, SUBSTITUTIONS MUST BE APPROVED BY LoganWIA PRIOR TO PURCHASING. ALL PLANTS MUST BE COMPLIANT WITH AS2303:2015.
- PLANTS MUST BE INSTALLED INTO A HOLE 3 TIMES THE SIZE OF THE POT SIZE. EACH PLANT MUST BE INSTALLED WITH AN AGRIFORM TABLET (10gm) PER PLANT. ENSURE THAT A SMALL WELL IS FORMED AT THE BASE OF THE PLANT. NO MULCH TO ENCRASH AROUND THE BASE OF THE PLANT (MIN. DISTANCE FOR MULCH IS 30mm FROM PLANT).
- ALL TURF INDICATED ON THE DRAWINGS MUST BE INSTALLED AS PER THE G.E.M.P. THE SPECIES OF TURF MUST BE Cynodon dactylon 'A' GRADE 'WINTERS GREEN'. WHEN INSTALLING TURF THE TURF MUST BE INSTALLED STAGGERED AND PERPENDICULAR TO ANY BATTER, OR PERPENDICULAR TO THE POTENTIAL OVERLAND WATER
- PLANTING, TURF AND MULCH AREAS MUST BE MAINTAINED AND ESTABLISHED FOR A MINIMUM OF 12 WEEKS, ONCE THE 12 WEEK PERIOD HAS BEEN COMPLETED THE SITE MUST BE MAINTAINED FOR A FURTHER 9 MONTHS.
WHERE THE FOLLOWING IS THE MINIMUM THAT MUST OCCUR DURING THAT TIME:
A) ALL PLANTING AREAS MUST BE FREE OF WEEDS AND RUBBISH. ALL WEED TREATMENTS MUST BE COMPLIANT WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. IN PARTICULAR TREATING WEED ADJACENT TO THE WATERWAY. NOTE THAT A PASTORAL MIX IS BEING USED ON THE WEST-EASTERN ALIGNMENT AND SOME SPECIES MAY BE CONSIDERED WEEDS, HOWEVER THEY ARE A FODDER SPECIES AND MUST BE MAINTAINED.
B) ANY AREAS THAT HAS SIGNS OF EROSION MUST BE STABILISED PRIOR TO RECEIVING OFF ESTABLISHMENT.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

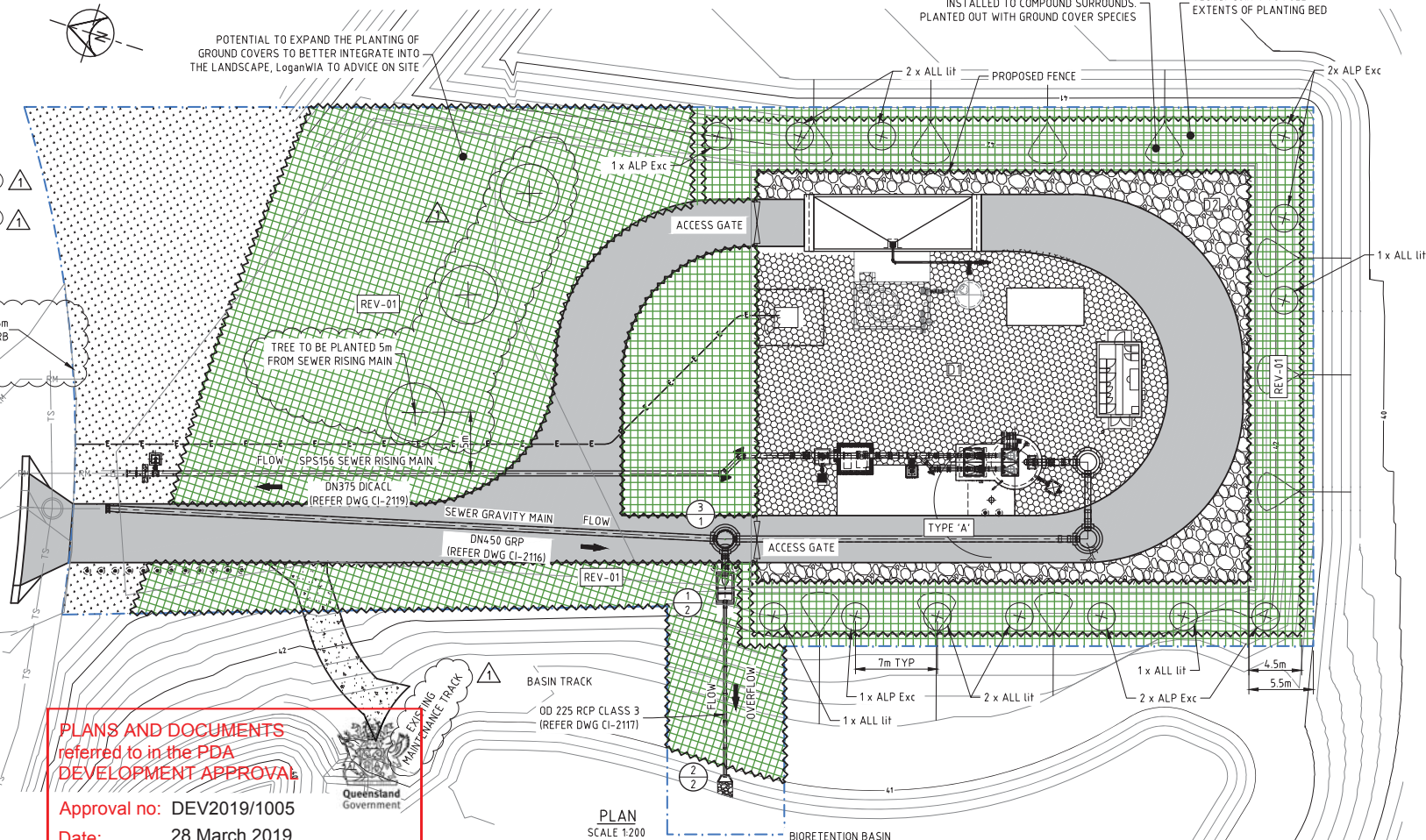
Approval no: DEV2019/1005

Date: 28 March 2019

- ENSURE THAT A MINIMUM OF 95% OF ALL PLANTS INSTALLED SURVIVE THE ESTABLISHMENT PERIOD. IN THE INSTANCE, THAT LESS THAN 95% OF PLANTS SURVIVE THE SUBCONTRACTOR MUST REPLACE THESE PLANTS THAT HAVE FAILED AT THEIR OWN COST. 80% OF THE PLANTS ARE TO HAVE SURVIVED AFTER THE FINAL 12 MONTH PERIOD HAS BEEN REACHED.
- ADDITIONAL FERTILISING MAY BE REQUIRED DURING THIS PERIOD, AND MUST BE APPLIED DURING THE ESTABLISHMENT PERIOD IF DEEMED NECESSARY. FERTILISER TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.
- WATERING AT A MINIMUM MUST IN LINE WITH THE BELOW REGIME, AND THE SUBCONTRACTOR MUST ACCOUNT FOR ANY CLIMATIC CONDITIONS (I.E. EXCESSIVE RAIN, EXTENDED DRY PERIODS, ETC.)
- 3 WATERING EVENTS PER WEEK, FOR WEEK 1-2 WEEKS
- 2 WATERING EVENTS PER WEEK, FOR WEEKS 3-6 WEEKS
- 1 WATERING EVENT PER WEEK, FOR WEEK 7-12 WEEKS
- WHERE TECmat COIR 4 IS INDICATED ON THE DRAWINGS TO BE INSTALLED OVER 50mm OF SITE MULCH. THE CONTRACTOR MUST SUPPLY AND INSTALL TECmat COIR 4 (OR SIMILAR APPROVED), THE TECmat COIR 4 MUST BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATION. WHEN INSTALLING ENSURE THAT, THE MESH IS INSTALLED UPSTREAM OVER DOWNSTREAM. 300mm USE LONG U-PINS TO FIX THE MESH TO THE GROUND. THE MATTING MUST BE INSTALLED MIN. 1m FROM THE TOP OF THE BATTER AND ALL PERIMETER EDGES MUST BE TRENCHED INTO THE GROUND AS PER THE MANUFACTURERS SPECIFICATION.

POTENTIAL TO EXPAND THE PLANTING OF GROUND COVERS TO BETTER INTEGRATE INTO THE LANDSCAPE, LoganWIA TO ADVISE ON SITE

IMPORTED TOPSOIL UNDER MULCH INSTALLED TO COMPOUND SURROUNDS. PLANTED OUT WITH GROUND COVER SPECIES
TECmat COIR 4 TO FULL EXTENTS OF PLANTING BED



PLANT SCHEDULE

Code	Botanical Name	Common Name	Form	Pot Size	Note	Density	No. of
ALL lit	Allocasuarina littoralis	Balk Sheoak	Small Tree	25L	AT 7m centres	As per the drawing	7
ALP exc	Alphitonia excelsa	Soap Ash	Small Tree	25L	AT 7m centres	As per the drawing	6
Total							Area for planting (m ²) 673
LDP con	Lophostemon confertus	Brush Box	Large Tree	25L	AT 10m		3
REV-01 (1 plant per metre squared)							
NOTE: All ground storey species to be planted in groups of 3-5 throughout the REV-01 planting location							
REV-01	Cymbopogon refractus	Barbed wire grass	Grass	50mm Tubestock	Upper banks	20%	
	Themeda triandra	Kangaroo Grass	Grass	50mm Tubestock	Upper banks	20%	
	Juncus usitatus	Common Sedge	Sedge	50mm Tubestock	Upper banks	10%	
	Lomandra longifolia	Mat Rush	Perennial herb	50mm Tubestock	Upper banks	50%	
	Total					100%	

0 2 4 8 12m
A1 - 1:200

FOR CONSTRUCTION

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DESIGNED BY	RPEQ	REFERENCES	PROJECT No.
M. SWALES		LS305-01	
DRAFTED BY	DRAFTING CHECK BY	FILE REFERENCE:	
S. ZOLLNER	M. NARDELLA		
DESIGN CHECKED BY	RPEQ	SHEET SIZE	A1
S. DICKER	18473	DATUM: AHD	GDA 94 ZONE 56
APPROVED BY	RPEQ		
D. SEEGEL			
ORIGINAL SIGNED BY	20522		



PROJECT:	GREENBANK PDA TO SPS151 WASTEWATER CONVEYANCE
DRAWING TITLE:	SPS156 WASTEWATER PUMP STATION PAVEMENT AND LANDSCAPE PLAN
DRAWING No.	LS305-01-S-DWG-CI-2125
DESIGN COMPANY:	LoganWIA
TECH SERVICES DRG No.	
REV.	1