

LEGEND

---	PROPERTY BOUNDARY
13.7	MINOR CONTOURS (0.1m INTERVALS)
13.7	MAJOR CONTOURS (0.5m INTERVALS)
13.7	EXISTING CONTOURS (0.1m INTERVALS)
---	STORMWATER PIPE
OW	OILY WATER PIPE
RW	ROOF WATER PIPE
---	DESIGN SEWER PIPE
MR60	ENVIRO AUSTRALIS MR60 OILY WATER TREATMENT DEVICE
EGP	EXISTING GULLY PIT
GP/GP1	GULLY PIT/OILY WATER GULLY PIT
TD	TRENCH DRAIN
	TEMPORARY LANDSCAPE (FUTURE FOOD & DRINK BUILDING - STAGE 2)

1/A

MH

DP

→

×33.00

*33.00

⊗33.00

STRUCTURE NAMES

MANHOLE
PROPOSED DOWN PIPES
DIRECTION OF SURFACE FALL
FINISHED SURFACE LEVEL
EXISTING SURFACE LEVEL
FINISHED SURFACE LEVEL ON TOP OF TANK TURRET & FUEL FILL BOX. THIS INCLUDES AN ADDITIONAL 25mm COVE UP OVER 300mm TO PERIMETER FROM SURROUNDING SLAB LEVEL. TANK & TURRET LOCATIONS TO BE CONFIRMED BY CONTRACTOR TO SUPERINTENDENT FOR CHECKING LEVEL PRIOR TO PAVEMENT CONSTRUCTION

SERVICES LEGEND

SW	EXISTING STORMWATER PIPE
S	EXISTING SEWER PIPE
●	EXISTING LIGHTING POLE
✕	EXISTING ELECTRICITY PILLAR
⬢	EXISTING FIRE HYDRANT
CP	EXISTING COMMS. PIT
EP	EXISTING ELECTRICAL PIT



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2020/1153

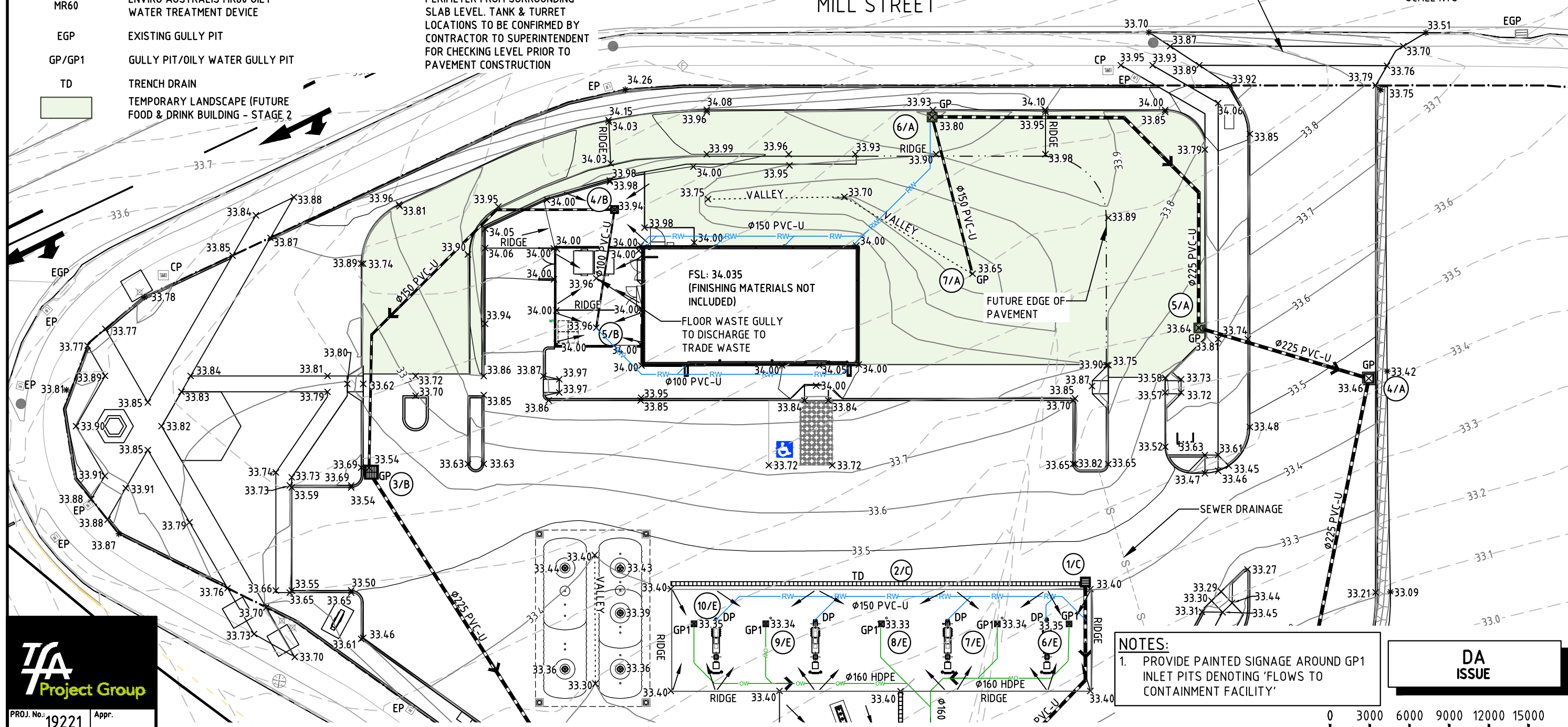
Date: 25 MAY 2021



GENERAL WIDE FLAIED DRIVEWAY IN ACCORDANCE WITH IPWEA'S STANDARD DRAWING RS-051. (EASTERN SPLAY MODIFIED TO ALLOW SAFE EXIT OF AV)

KEY PLAN

SCALE NTS



NOTES:

1. PROVIDE PAINTED SIGNAGE AROUND GP1 INLET PITS DENOTING 'FLOWS TO CONTAINMENT FACILITY'

DA
ISSUE

TFA
Project Group

PROJ. No.: 19221 Appr.



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REV.	BY	DATE	DESCRIPTION OF CHANGE
A	HD	25.09.20	DA ISSUE
B	HD	15.04.21	DA AMENDMENT
C	CV	12.05.21	VEHICLE ACCESS UPDATED

REVISION

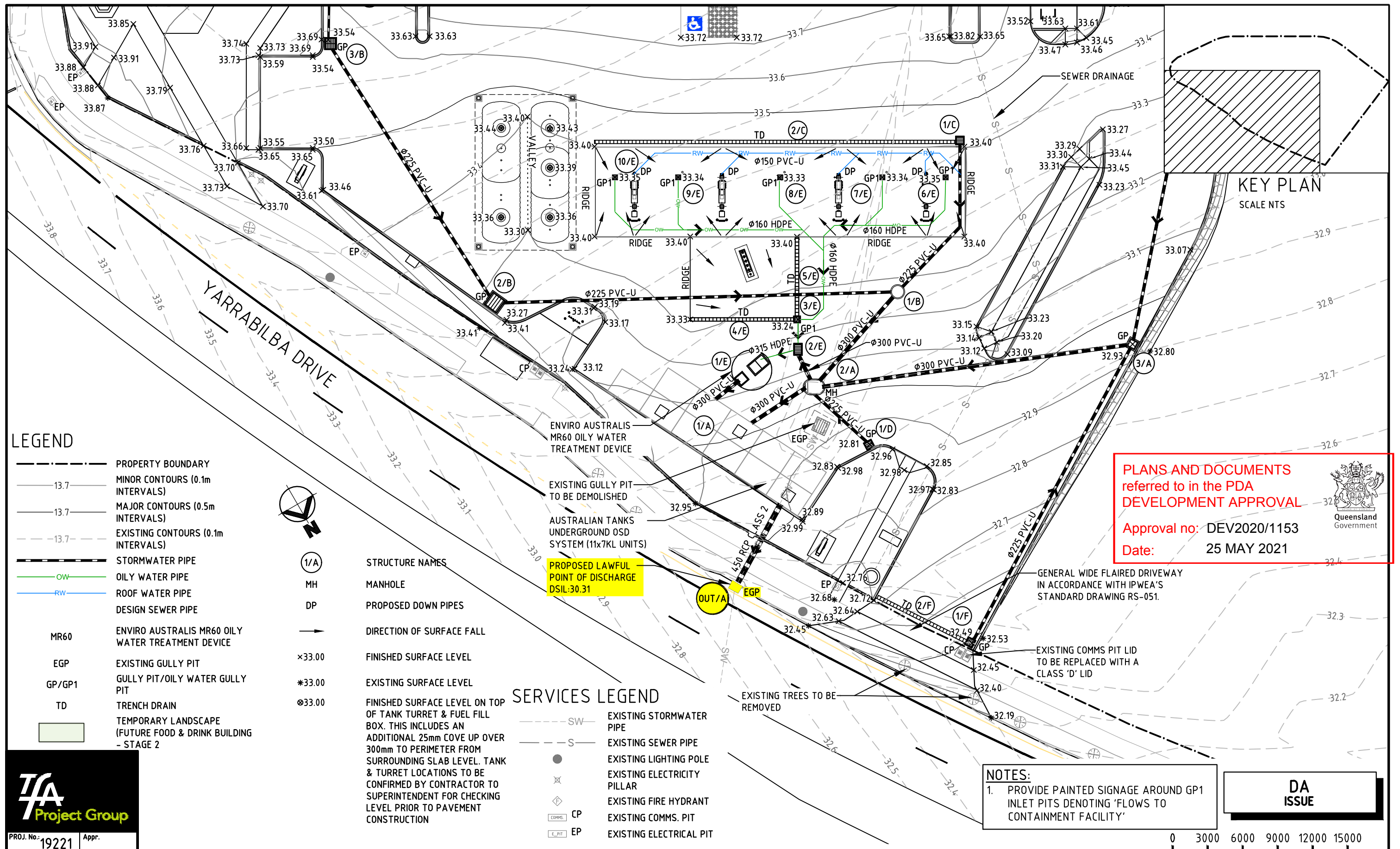
PROJECT

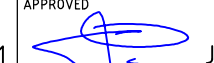
YARRABILBA SOUTH - QLD
CNR YARRABILBA DRIVE
& MILL STREET

TITLE

**CONCEPTUAL SITE GRADING
& DRAINAGE PLAN-STAGE 1**
SHEET 1 OF 2

DRAWN	DATE	APPROVED	DATE
HD	18.01.21	J.A.	12.05.21
SCALE	SIZE	DRAWING No.	REV.
1:300	A3	19221-D24	C



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	A	HD	01.03.21	DA ISSUE			HD	18.01.21	 J.A.	12.05.21
	B	CV	12.05.21	DA ISSUE UPDATED			SCALE	SIZE	DRAWING No.	REV.
							1:300	A3	19221-D25	B
	REVISION									

LEGEND

---	PROPERTY BOUNDARY
13.7	MINOR CONTOURS (0.1m INTERVALS)
13.7	MAJOR CONTOURS (0.5m INTERVALS)
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EGP	EXISTING GULLY PIT
GP/GP1	GULLY PIT/OILY WATER GULLY PIT
TD	TRENCH DRAIN

1/A

MH

DP

→

×33.00

*33.00

⊗33.00

STRUCTURE NAMES

MANHOLE
PROPOSED DOWN PIPES
DIRECTION OF SURFACE FALL
FINISHED SURFACE LEVEL
EXISTING SURFACE LEVEL
FINISHED SURFACE LEVEL ON TOP OF TANK TURRET & FUEL FILL BOX. THIS INCLUDES AN ADDITIONAL 25mm COVE UP OVER 300mm TO PERIMETER FROM SURROUNDING SLAB LEVEL. TANK & TURRET LOCATIONS TO BE CONFIRMED BY CONTRACTOR TO SUPERINTENDENT FOR CHECKING LEVEL PRIOR TO PAVEMENT CONSTRUCTION

SERVICES LEGEND

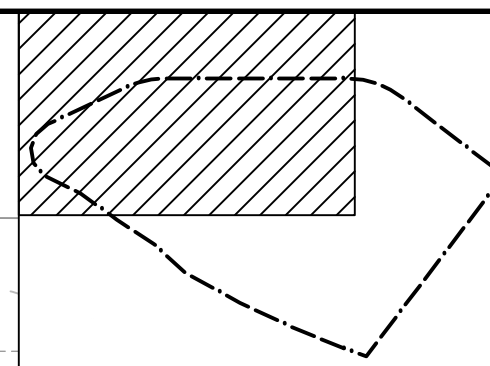
SW	EXISTING STORMWATER PIPE
S	EXISTING SEWER PIPE
●	EXISTING LIGHTING POLE
✕	EXISTING ELECTRICITY PILLAR
⬢	EXISTING FIRE HYDRANT
COMMS	EXISTING COMMS. PIT
E_PIT	EXISTING ELECTRICAL PIT



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

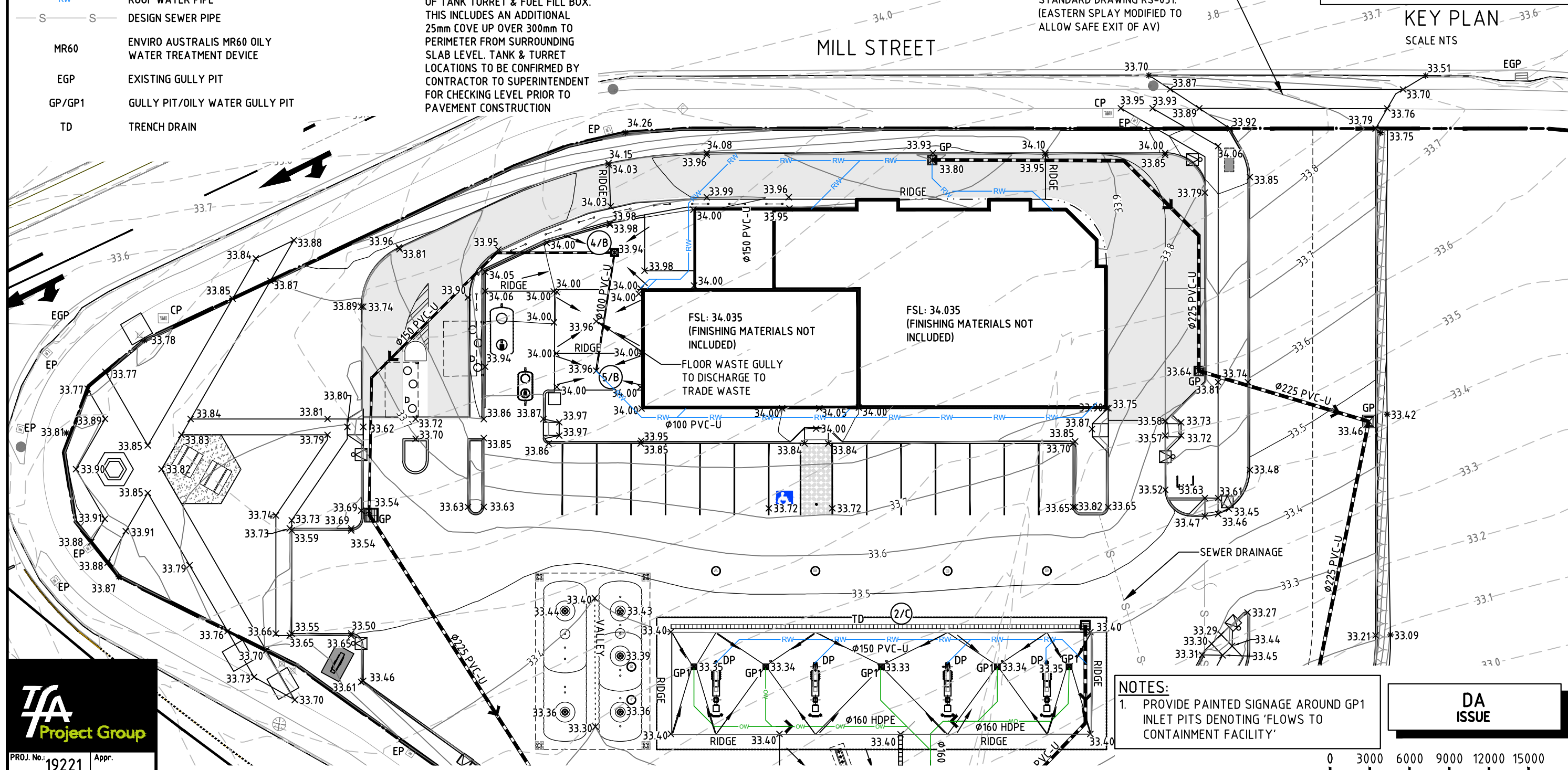
Approval no: DEV2020/1153

Date: 25 MAY 2021



KEY PLAN

SCALE NTS



NOTES:

1. PROVIDE PAINTED SIGNAGE AROUND GP1 INLET PITS DENOTING 'FLOWS TO CONTAINMENT FACILITY'

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REV.	BY	DATE	DESCRIPTION OF CHANGE
A	HD	15.04.21	DA ISSUE
B	CV	12.05.21	VEHICLE ACCESS UPDATED

REVISION

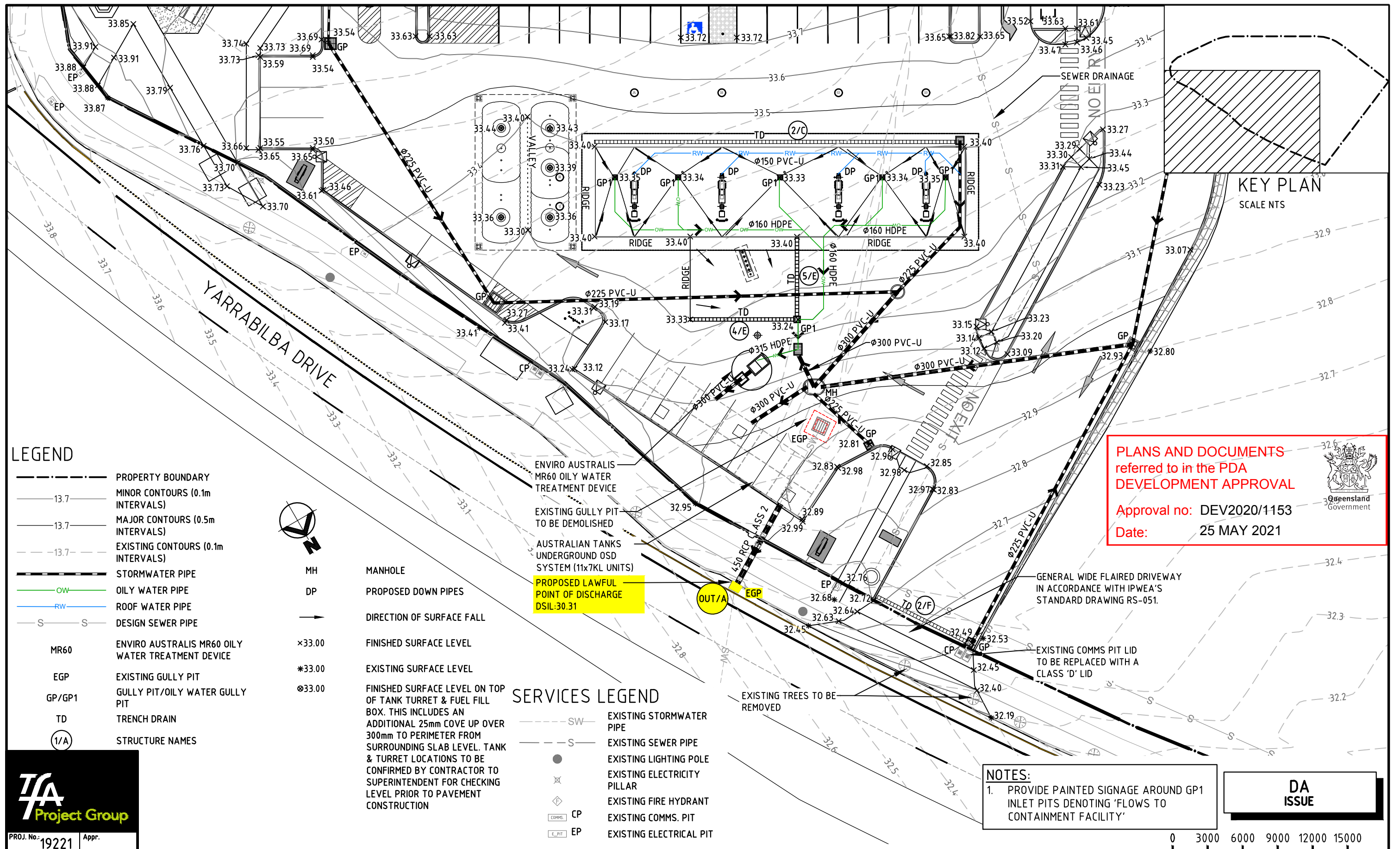
PROJECT

YARRABILBA SOUTH - QLD
CNR YARRABILBA DRIVE
& MILL STREET

TITLE

**CONCEPTUAL SITE GRADING &
DRAINAGE PLAN - STAGE 2**
SHEET 1 OF 2

DRAWN	DATE	APPROVED	DATE
HD	18.01.21	J.A.	12.05.21
SCALE	SIZE	DRAWING No.	REV.
1:300	A3	19221-D26	B



LEGEND

---	PROPERTY BOUNDARY
-13.7-	MINOR CONTOURS (0.1m INTERVALS)
-13.7-	MAJOR CONTOURS (0.5m INTERVALS)
-13.7-	EXISTING CONTOURS (0.1m INTERVALS)
---	STORMWATER PIPE
OW	OILY WATER PIPE
RW	ROOF WATER PIPE
S	DESIGN SEWER PIPE
MR60	ENVIRO AUSTRALIS MR60 OILY WATER TREATMENT DEVICE
EGP	EXISTING GULLY PIT
GP/GP1	GULLY PIT/OILY WATER GULLY PIT
TD	TRENCH DRAIN
1/A	STRUCTURE NAMES



MH	MANHOLE
DP	PROPOSED DOWN PIPES
→	DIRECTION OF SURFACE FALL
×33.00	FINISHED SURFACE LEVEL
*33.00	EXISTING SURFACE LEVEL
⊙33.00	FINISHED SURFACE LEVEL ON TOP OF TANK TURRET & FUEL FILL BOX. THIS INCLUDES AN ADDITIONAL 25mm COVE UP OVER 300mm TO PERIMETER FROM SURROUNDING SLAB LEVEL. TANK & TURRET LOCATIONS TO BE CONFIRMED BY CONTRACTOR TO SUPERINTENDENT FOR CHECKING LEVEL PRIOR TO PAVEMENT CONSTRUCTION

SERVICES LEGEND

---	SW	EXISTING STORMWATER PIPE
---	S	EXISTING SEWER PIPE
●		EXISTING LIGHTING POLE
×		EXISTING ELECTRICITY PILLAR
⬢		EXISTING FIRE HYDRANT
⬢	CP	EXISTING COMMS. PIT
⬢	EP	EXISTING ELECTRICAL PIT

NOTES:

1. PROVIDE PAINTED SIGNAGE AROUND GP1 INLET PITS DENOTING 'FLOWS TO CONTAINMENT FACILITY'

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REV.	BY	DATE	DESCRIPTION OF CHANGE
A	HD	15.04.21	DA ISSUE
B	CV	12.05.21	DA ISSUE UPDATED
REVISION			

PROJECT

YARRABILBA SOUTH - QLD
CNR YARRABILBA DRIVE
& MILL STREET

TITLE

**CONCEPTUAL SITE GRADING &
DRAINAGE PLAN - STAGE 2**
SHEET 2 OF 2

DRAWN	DATE	APPROVED	DATE
HD	18.01.21	J.A.	12.05.21
SCALE	SIZE	DRAWING No.	REV.
1:300	A3	19221-D27	B

PIT SCHEDULE					
ALTERNATE EQUAL PRODUCTS MAY BE USED IF APPROVED BY ENGINEER					
PIT NO.	PIT SIZE/TYPE	LID/GRATE TYPE	S.L.	I.L./U.S.	I.L./D.S.
	EXISTING GULLY PIT	C.O.S.	32.54	30.31	30.31 x
	11 X 7KL AUSTRALIAN TANKS UNIT	900 SQ CLASS 'D' LIDS BY AUSTRALIAN TANKS	33.18 TO 32.85	FROM 1/E 31.00 FROM 2/A 31.11	30.37
	EXTENDED MANHOLE REFER TO 2/A DETAIL ON DRG. 19221-B107	600 ACCESS DIA CLASS 'D' GALV. OR C.I. LID & FRAME	33.05	FROM 3/A 31.37 FROM 1/B 31.94 FROM 1/D 32.04	31.16
	600 SQ CAST IN-SITU GULLY PIT	600 ACCESS DIA CLASS 'D' GALV. OR C.I. LID & FRAME	32.94	FROM 4/A 32.21 FROM 1/F 31.66	31.64
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.46	32.56	32.54
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'B' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.64	32.72	32.69
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'B' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.80	33.07	33.04
	450 SQ CAST IN-SITU GULLY PIT	450 SQ CLASS 'B' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.65	-	33.19
	1,050 DIA CONCRETE MANHOLE	600 ACCESS DIA CLASS 'D' GALV. OR C.I. LID & FRAME	33.26	FROM 1/C 32.65 FROM 2/B 32.06	32.03
	1200 SQ CAST IN-SITU GULLY PIT	1200 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.29	32.63	32.60
	900 SQ CAST IN-SITU GULLY PIT	900 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.54	32.94	32.90
	450 SQ CAST IN-SITU GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.94	-	33.36
	FLOOR WASTE GULLY	-	33.96	-	-
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	33.40	32.95	32.80
	ACO POWER DRAIN SK300 SLOPED CHANNEL (31.0m APPROX.)	CLASS 'D' GRATE & FRAME BY ACO	33.40 TO 33.40	-	32.95
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'B' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	32.81	-	32.10
	ENVIRO AUSTRALIS MR60 UNIT	CLASS 'D' LIDS BY ENVIRO AUSTRALIS	33.15	31.07	31.04
	ENVIRO MERGE PIT	CLASS 'D' LIDS BY ENVIRO AUSTRALIS	33.16	FROM 3/E 31.13 FROM 2/A 31.13	31.11

PIT SCHEDULE					
ALTERNATE EQUAL PRODUCTS MAY BE USED IF APPROVED BY ENGINEER					
PIT NO.	PIT SIZE/TYPE	LID/GRATE TYPE	S.L.	I.L./U.S.	I.L./D.S.
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.24	FROM 6/E 32.57 FROM 4/E & 5/E 32.94	31.15
	ACO POWER DRAIN SK300 NEUTRAL CHANNEL (9.0m APPROX.) (OILY WATER)	CLASS 'D' GRATE & FRAME BY ACO	33.33 TO 33.24	-	32.94
	ACO POWER DRAIN SK300 NEUTRAL CHANNEL (7.0m APPROX.) (OILY WATER)	CLASS 'D' GRATE & FRAME BY ACO	33.40 TO 33.24	-	32.94
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.35	-	32.80
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.34	-	32.80
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.33	-	32.73
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.34	-	32.85
	450 SQ CAST IN-SITU OILY WATER GULLY PIT	450 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE) (WATER SEALED)	33.35	-	32.88
	600 SQ CAST IN-SITU GULLY PIT	600 SQ CLASS 'D' GALV. OR C.I. GRATE & FRAME (HEELSAFE)	32.50	32.20	31.95
	ACO POWER DRAIN SK300 NEUTRAL CHANNEL (9.5m APPROX.)	CLASS 'D' GRATE & FRAME BY ACO	32.72 TO 32.50	-	32.20

x EXISTING LEVELS TO BE CONFIRMED ON SITE

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2020/1153

Date: 25 MAY 2021

PROJ. No.: 19221

Appr.

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REV.	BY	DATE	DESCRIPTION OF CHANGE
A	CV	12.05.21	DA ISSUE
REVISION			

PROJECT

YARRABILBA SOUTH - QLD

CNR YARRABILBA DRIVE

& MILL STREET

TITLE

STORMWATER PIT SCHEDULE

DRAWN	DATE	APPROVED	DATE
HD	18.01.21	J.A.	12.05.21
SCALE	SIZE	DRAWING No.	REV.
NTS	A3	19221-D28	A

DA ISSUE

PIPE TRENCHING NOTES:

1. EMBEDMENT ZONE MATERIAL: 5mm OR 10mm SCREENINGS, OR ALTERNATIVELY WASHED SCREENED BEDDING SAND TO GRADING SPECIFIED BELOW TO BED ZONE.

SIEVE SIZE (mm)	PASSING (% BY MASS)
19.0	100
2.36	40-100
0.425	15-70
0.075	3-30
5. BACKFILL TO CONSIST OF APPROVED SUBGRADE REPLACEMENT MATERIAL WITH A MINIMUM CALIFORNIA BEARING RATIO OF 15, PLACED IN 150mm LAYERS AND COMPACTED UNTIL THE DRY DENSITY IS NOT LESS THAN 98% STANDARD MAXIMUM DRY DENSITY.
6. COMPACTED BACKFILL SHALL BE GRANULAR FILL COMPRISING CRUSHED ROCK (75mm MAXIMUM SIZE, NON PLASTIC OPEN GRADED MATERIAL) OR CRUSHER RUN RECYCLED CONCRETE. WHERE APPROVED UNDER SPECIAL CIRCUMSTANCES, STABILISED SAND (1 PART CEMENT TO 12 PARTS SAND BY VOLUME) OR CONTROLLED LOW STRENGTH MATERIAL OR LEAN MIX CONCRETE OR CLASS 3 MATERIAL MAY BE PERMITTED.
7. COMPACTED BACKFILL UNDER FOOTPATHS AND BIKEWAYS: EXCAVATED MATERIALS MAY BE USED PROVIDED ADEQUATE COMPACTION CAN BE OBTAINED. ALTERNATIVELY USE GRANULAR FILL OR SAND.
8. WHERE APPROVED, SELECTED MATERIAL FROM EXCAVATIONS SHALL BE PLACED IN 150mm LAYERS & COMPACTED TO A MINIMUM CONSOLIDATION OF 98% STANDARD COMPACTION.
9. INCREASE EXCAVATION LOCALLY AT SPIGOT AND SOCKET JOINTS (RIGID PIPES) TO ENSURE MINIMUM BOTTOM COVER AS SHOWN.

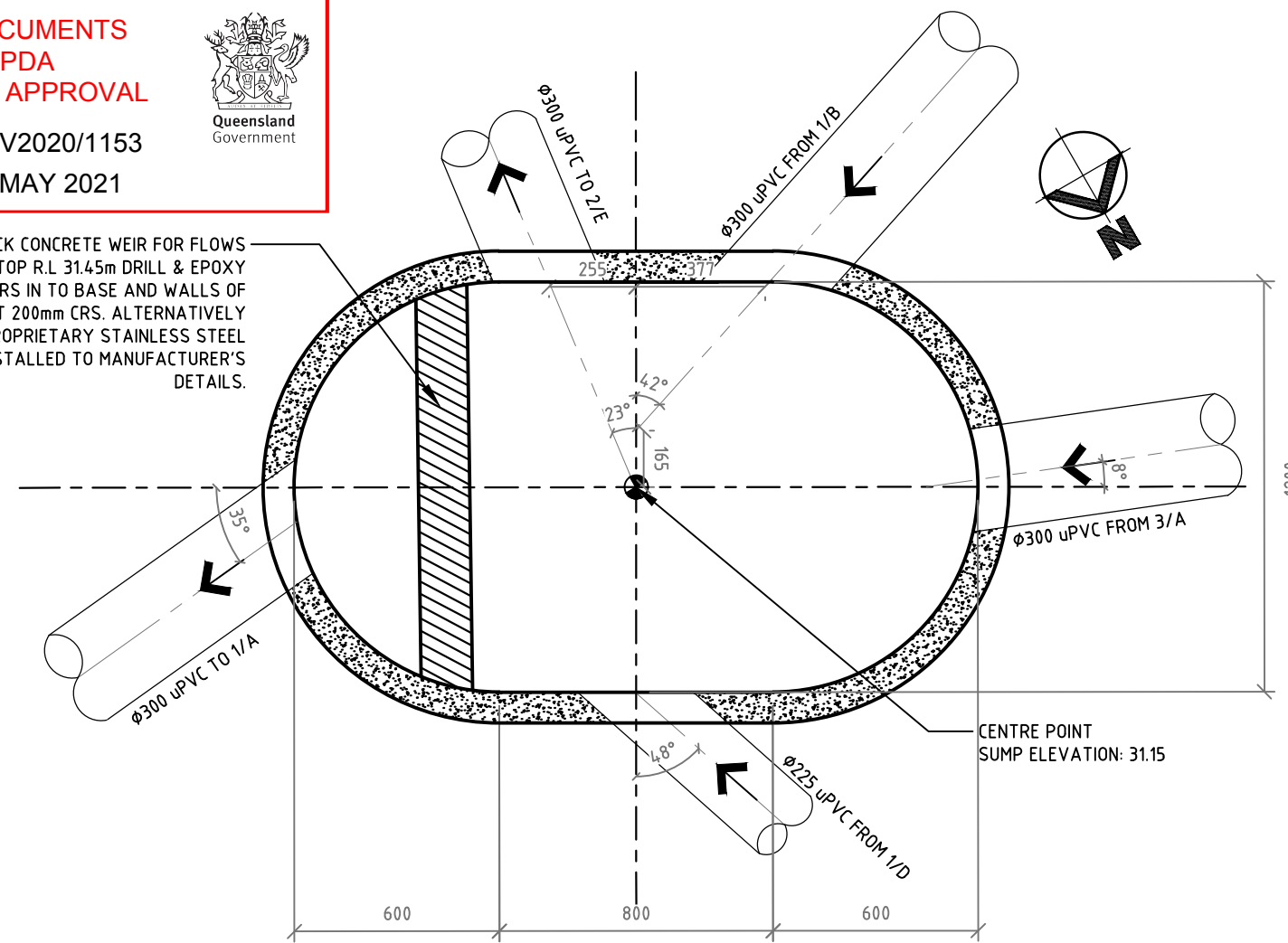
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2020/1153

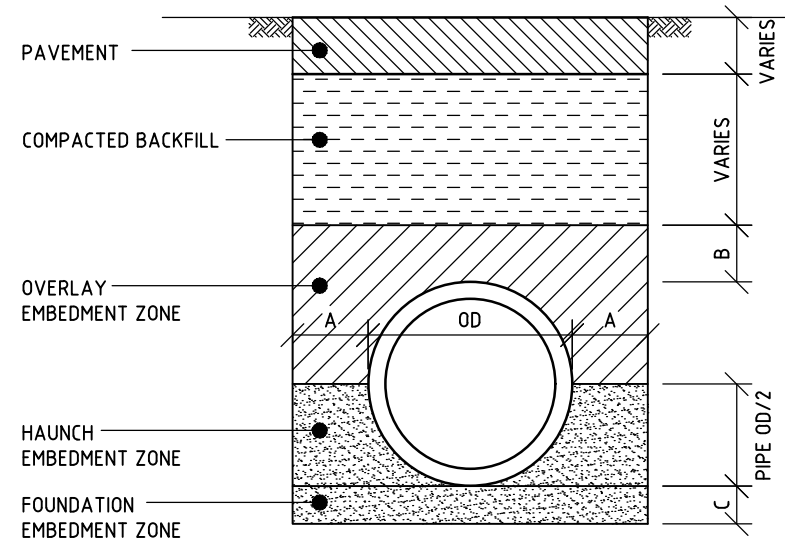
Date: 25 MAY 2021



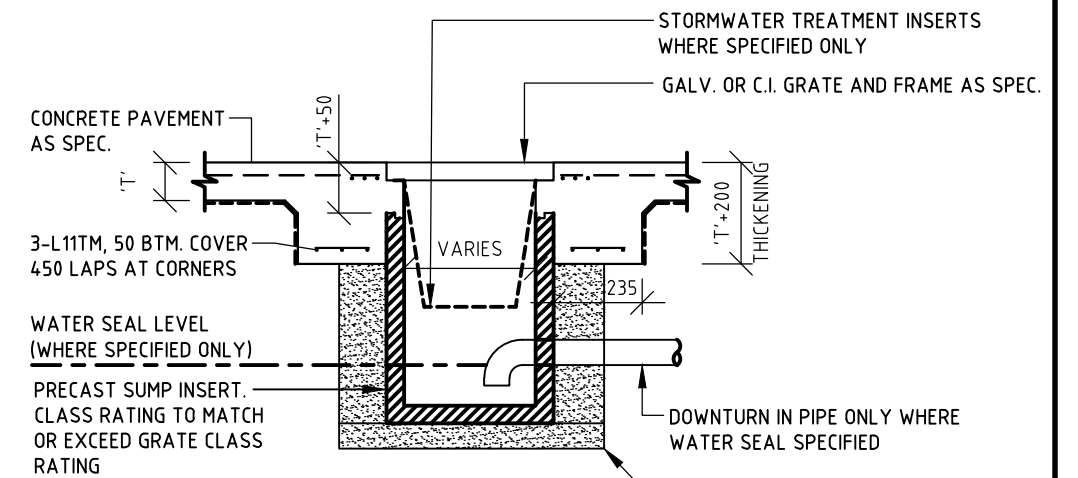
150mm THICK CONCRETE WEIR FOR FLOWS OVER Q2-YEAR. TOP R.L. 31.45m DRILL & EPOXY FIX N12 BARS IN TO BASE AND WALLS OF MANHOLE AT 200mm CRS. ALTERNATIVELY PROVIDE PROPRIETARY STAINLESS STEEL WEIR INSTALLED TO MANUFACTURER'S DETAILS.



MANHOLE 2/A DETAIL
SCALE 1 : 20

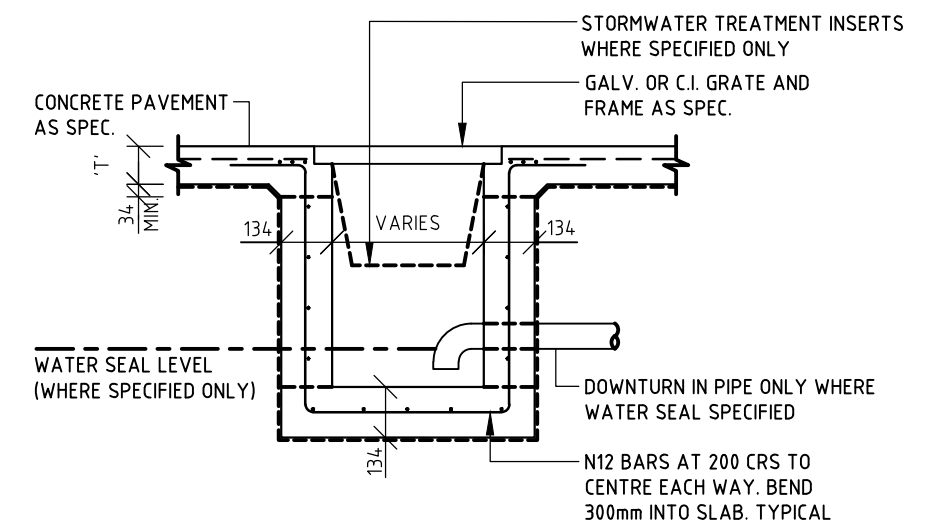


PIPE TRENCH DETAIL (TYPICAL)
NTS



ALTERNATIVE PRECAST PIT DETAIL
CLASS 'C' & CLASS 'D' GRATES

SCALE 1 : 20
(REFER TO PIT SCHEDULE FOR GULLY PIT SIZES)



TYPICAL CAST IN-SITU PIT DETAIL

SCALE 1 : 20
(REFER TO PIT SCHEDULE FOR GULLY PIT SIZES)

PIPE TRENCH TABLE			
PIPE Ø	A	B	C
≥75 ≤150	100	100	75
>150 <300	150	150	100
≥300 ≤450	300	150	100
>450 ≤900	300	150	100
>900 ≤1500	300	200	100
>1500 ≤4000	0.25 x OD	300	150

**DA
ISSUE**



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REV.	BY	DATE	DESCRIPTION OF CHANGE
A	CV	12.05.21	DA ISSUE
REVISION			

PROJECT

YARRABILBA SOUTH - QLD
CNR YARRABILBA DRIVE
& MILL STREET

TITLE

**STORMWATER CONSTRUCTION
DETAILS**

DRAWN	DATE	APPROVED	DATE
HD	18.01.21	J.A.	12.05.21
SCALE	SIZE	DRAWING No.	REV.
1:20	A3	19221-D29	A