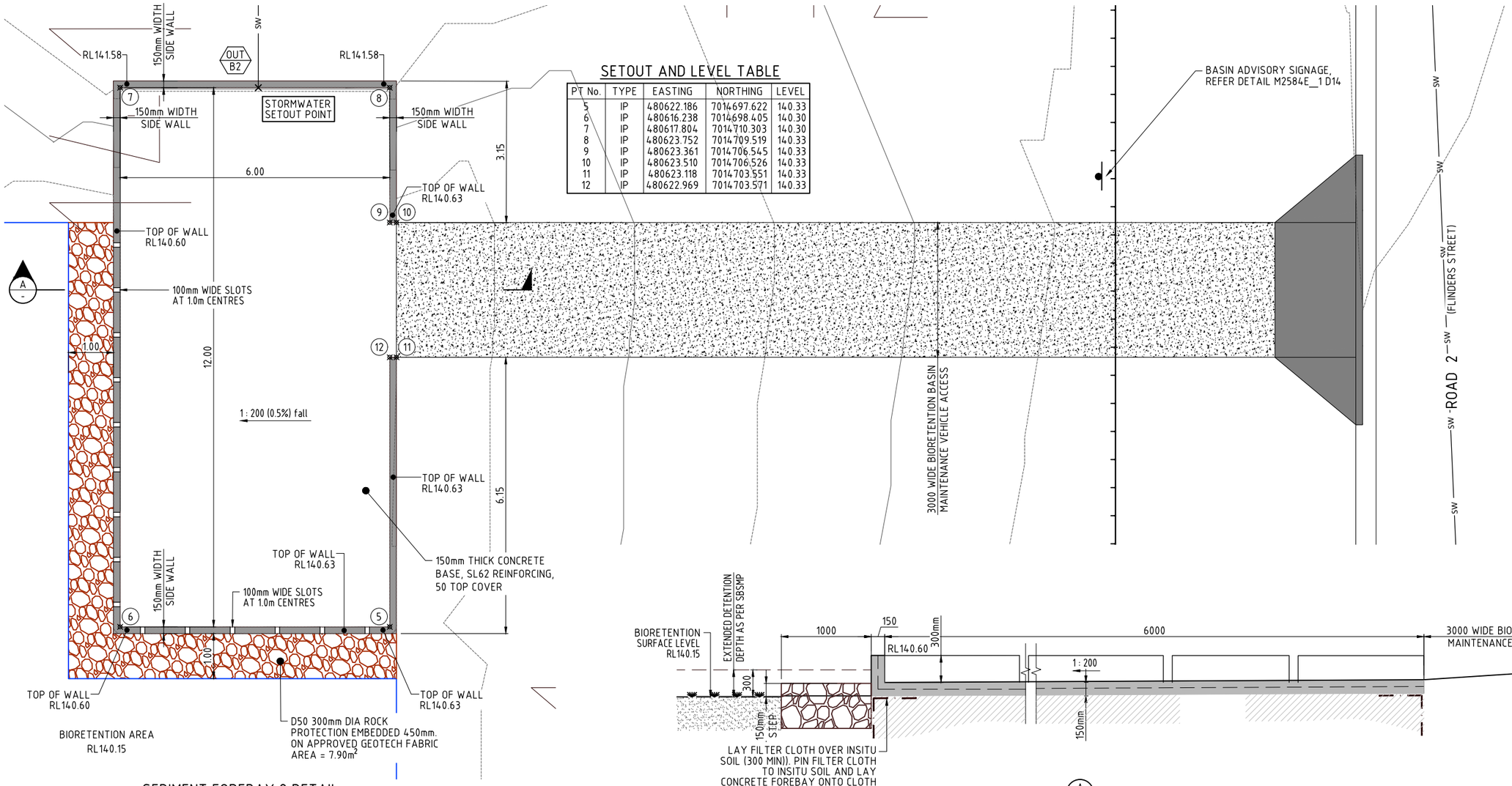

SETOUT AND LEVEL TABLE

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6	IP	480616.238	7014698.405	140.30
7	IP	480617.804	7014710.303	140.30
8	IP	480623.752	7014709.519	140.33
9	IP	480623.361	7014706.545	140.33
10	IP	480623.510	7014706.526	140.33
11	IP	480623.118	7014703.551	140.33
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SEDIMENT FOREBAY 2 DETAIL

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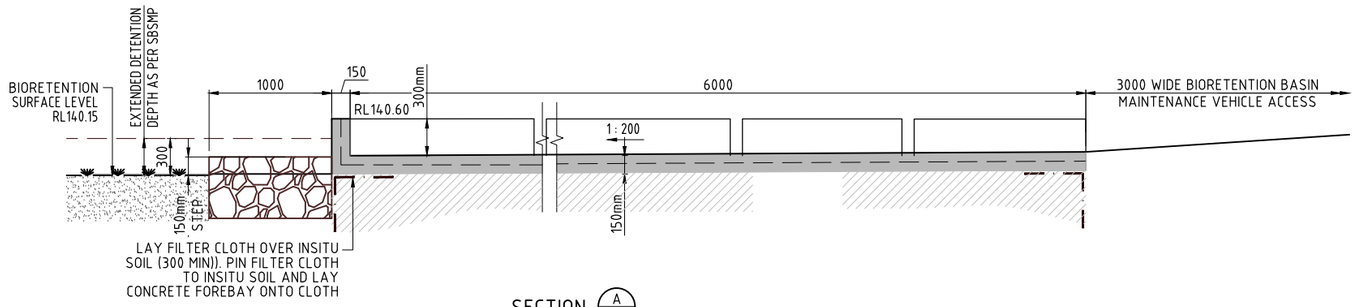

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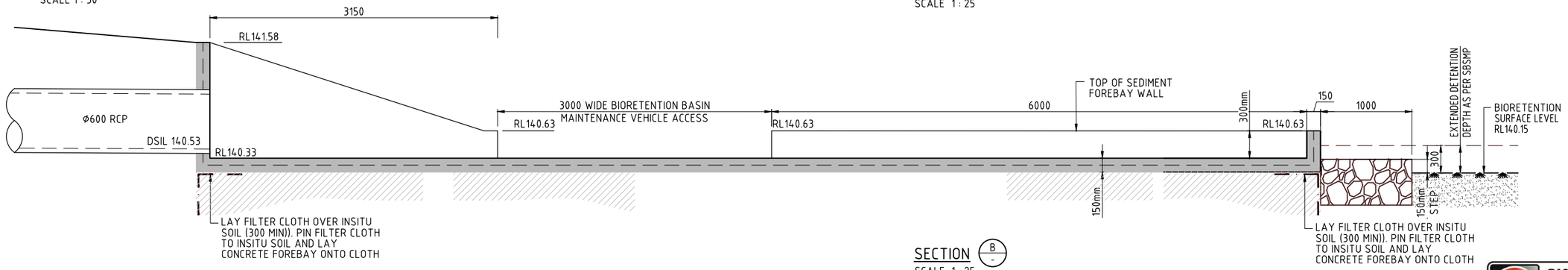

SECTION B

SCALE 1 : 25

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NORTH: N

SCALE: 1:50 A1

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(A3) 1:100

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DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	CDV
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	19/09/19	CDV

TITLE:

DRAINAGE BIORETENTION SEDIMENT FOREBAY PLAN & SECTIONS - BASIN 2

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT: M2584E_1 PLAN: D16 ISSUE: B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL

COUNCIL REF: DA/38032/2019/V3RL

FILE NAME: BIORETENTION.DWG

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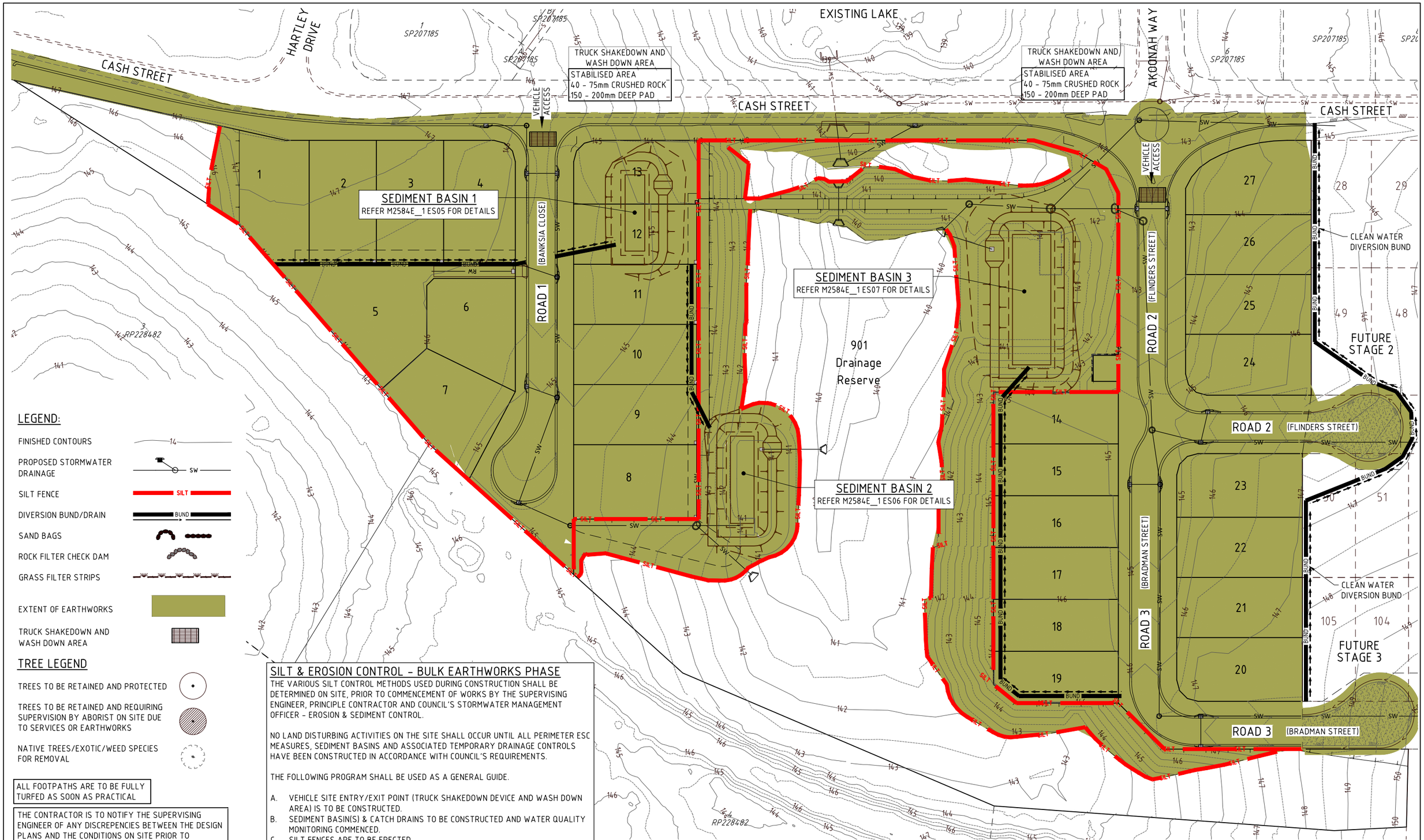

LEGEND:

- FINISHED CONTOURS
- PROPOSED STORMWATER DRAINAGE
- SILT FENCE
- DIVERSION BUND/DRAIN
- SAND BAGS
- ROCK FILTER CHECK DAM
- GRASS FILTER STRIPS
- EXTENT OF EARTHWORKS
- TRUCK SHAKEDOWN AND WASH DOWN AREA

TREE LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRING SUPERVISION BY ABORIST ON SITE DUE TO SERVICES OR EARTHWORKS
- NATIVE TREES/EXOTIC/WEED SPECIES FOR REMOVAL

ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL

THE CONTRACTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

FOR NOTES AND SEDIMENT MANAGEMENT DEVICES REFER TO DWG No. M2584E_1 ES04

SILT & EROSION CONTROL - BULK EARTHWORKS PHASE

THE VARIOUS SILT CONTROL METHODS USED DURING CONSTRUCTION SHALL BE DETERMINED ON SITE, PRIOR TO COMMENCEMENT OF WORKS BY THE SUPERVISING ENGINEER, PRINCIPLE CONTRACTOR AND COUNCIL'S STORMWATER MANAGEMENT OFFICER - EROSION & SEDIMENT CONTROL.

NO LAND DISTURBING ACTIVITIES ON THE SITE SHALL OCCUR UNTIL ALL PERIMETER ESC MEASURES, SEDIMENT BASINS AND ASSOCIATED TEMPORARY DRAINAGE CONTROLS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

THE FOLLOWING PROGRAM SHALL BE USED AS A GENERAL GUIDE.

A. VEHICLE SITE ENTRY/EXIT POINT (TRUCK SHAKEDOWN DEVICE AND WASH DOWN AREA) IS TO BE CONSTRUCTED.
B. SEDIMENT BASIN(S) & CATCH DRAINS TO BE CONSTRUCTED AND WATER QUALITY MONITORING COMMENCED.
C. SILT FENCES ARE TO BE ERECTED.
D. TOP SOIL IS TO BE STRIPPED & BULK EARTHWORKS IS TO COMMENCE.
E. SITE STABILISATION, SITE & WATER QUALITY MONITORING COMPLIANCE PROGRAM COMMENCED AND MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN ADEQUATELY STABILISED AGAINST EROSION TO THE ACCEPTANCE OF COUNCIL..

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NORTH: N

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(A3) 1:1000
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DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:

EROSION AND SEDIMENT CONTROL LAYOUT BULK EARTHWORKS PHASE

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: ES01 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: EROSION.DWG

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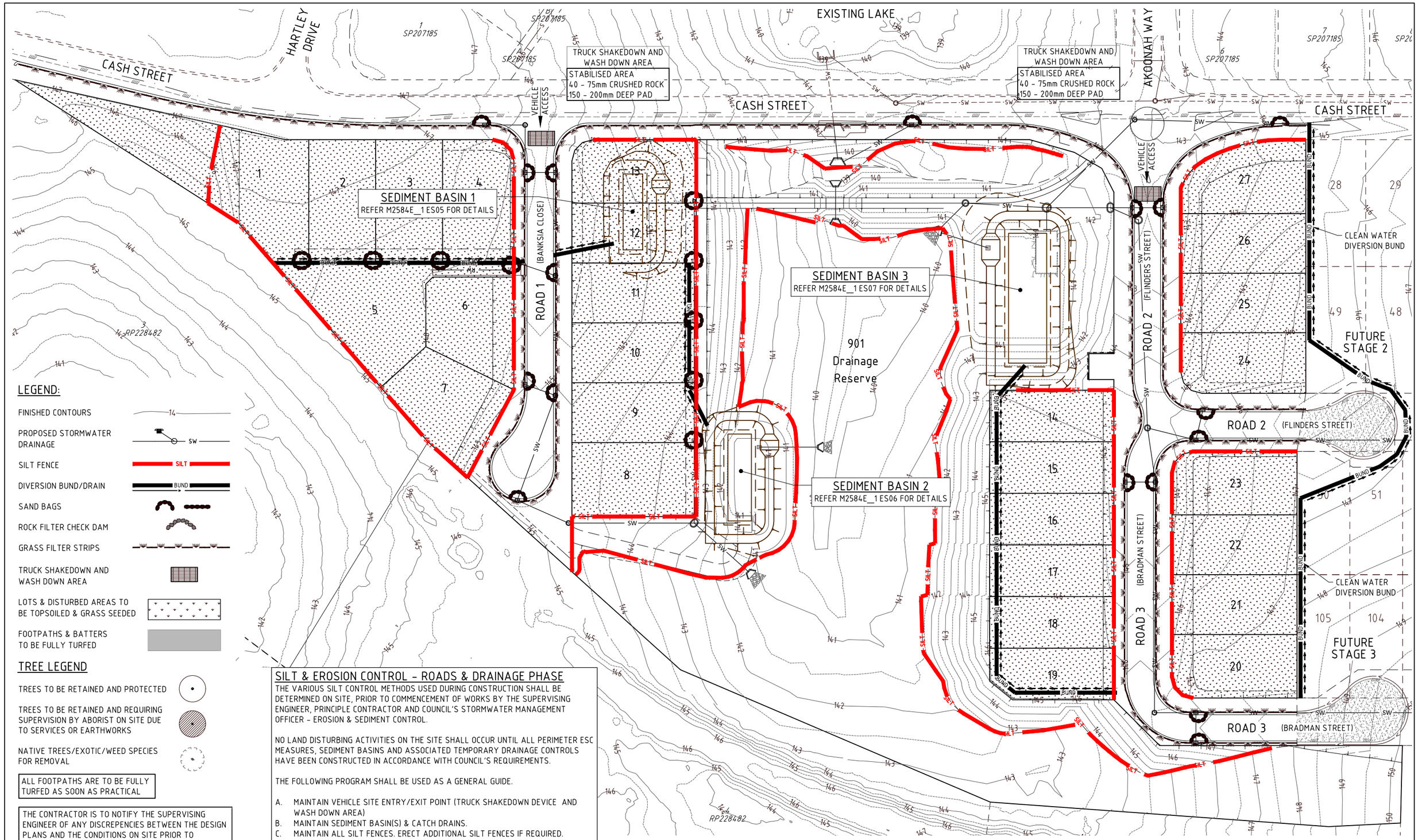

LEGEND:

- FINISHED CONTOURS
- PROPOSED STORMWATER DRAINAGE
- SILT FENCE
- DIVERSION BUND/DRAIN
- SAND BAGS
- ROCK FILTER CHECK DAM
- GRASS FILTER STRIPS
- TRUCK SHAKEDOWN AND WASH DOWN AREA
- LOTS & DISTURBED AREAS TO BE TOPSOILED & GRASS SEEDED
- FOOTPATHS & BATTERS TO BE FULLY TURFED

TREE LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRING SUPERVISION BY ABORIST ON SITE DUE TO SERVICES OR EARTHWORKS
- NATIVE TREES/EXOTIC/WEED SPECIES FOR REMOVAL

ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL

THE CONTRACTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

FOR NOTES AND SEDIMENT MANAGEMENT DEVICES REFER TO DWG No. M2584E_1 ES04

SILT & EROSION CONTROL - ROADS & DRAINAGE PHASE

THE VARIOUS SILT CONTROL METHODS USED DURING CONSTRUCTION SHALL BE DETERMINED ON SITE, PRIOR TO COMMENCEMENT OF WORKS BY THE SUPERVISING ENGINEER, PRINCIPLE CONTRACTOR AND COUNCIL'S STORMWATER MANAGEMENT OFFICER - EROSION & SEDIMENT CONTROL.

NO LAND DISTURBING ACTIVITIES ON THE SITE SHALL OCCUR UNTIL ALL PERIMETER ESC MEASURES, SEDIMENT BASINS AND ASSOCIATED TEMPORARY DRAINAGE CONTROLS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

THE FOLLOWING PROGRAM SHALL BE USED AS A GENERAL GUIDE.

A. MAINTAIN VEHICLE SITE ENTRY/EXIT POINT (TRUCK SHAKEDOWN DEVICE AND WASH DOWN AREA)
B. MAINTAIN SEDIMENT BASIN(S) & CATCH DRAINS.
C. MAINTAIN ALL SILT FENCES. ERECT ADDITIONAL SILT FENCES IF REQUIRED.
D. AFTER BULK EARTHWORKS HAS BEEN 100% COMPLETED SITE STABILISATION IS TO BE COMMENCED.
E. ALL PROTECTION MEASURES ARE TO BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN ADEQUATELY STABILISED AGAINST EROSION TO THE ACCEPTANCE OF COUNCIL.

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CHECKED	ADF	A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN
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TITLE:

EROSION AND SEDIMENT CONTROL LAYOUT ROADS & DRAINAGE PHASE

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT:	PLAN:	ISSUE:
M2584E_1	ES02	B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL

COUNCIL REF: DA/38032/2019/V3RL

FILE NAME: EROSION.DWG

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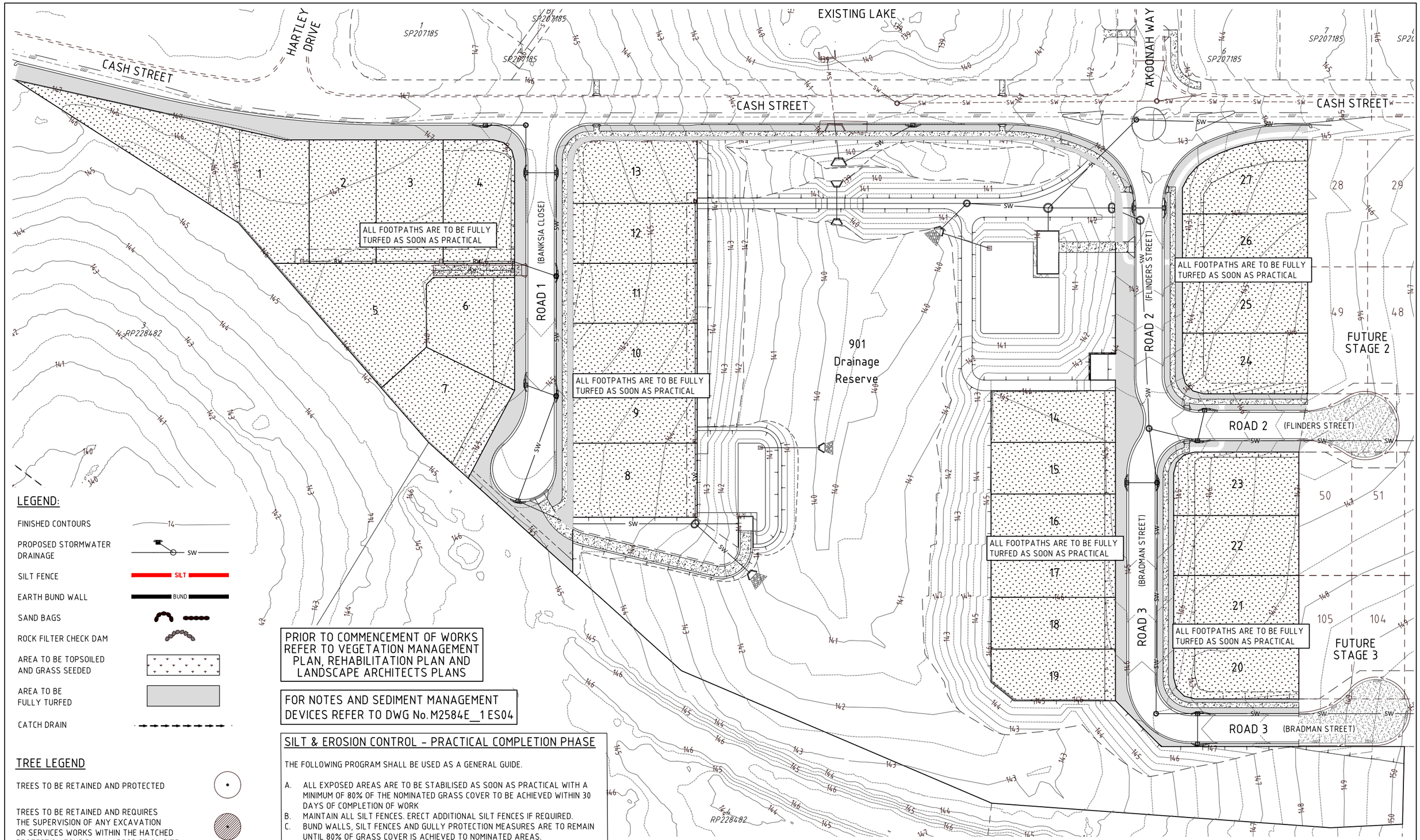

LEGEND:

FINISHED CONTOURS

PROPOSED STORMWATER DRAINAGE

SILT FENCE

EARTH BUND WALL

SAND BAGS

ROCK FILTER CHECK DAM

AREA TO BE TOPSOILED AND GRASS SEEDED

AREA TO BE FULLY TURFED

CATCH DRAIN

TREE LEGEND

TREES TO BE RETAINED AND PROTECTED

TREES TO BE RETAINED AND REQUIRES THE SUPERVISION OF ANY EXCAVATION OR SERVICES WORKS WITHIN THE HATCHED PROTECTION ZONE BY AN ARBORIST ON SITE.

TPZ
Tree Protection Zone
All vegetation to be protected in accordance with AS4970 - Protection of Trees on Development Sites & any conditions of approval.

PRIOR TO COMMENCEMENT OF WORKS REFER TO VEGETATION MANAGEMENT PLAN, REHABILITATION PLAN AND LANDSCAPE ARCHITECTS PLANS

FOR NOTES AND SEDIMENT MANAGEMENT DEVICES REFER TO DWG No. M2584E_1 ES04

SILT & EROSION CONTROL - PRACTICAL COMPLETION PHASE

THE FOLLOWING PROGRAM SHALL BE USED AS A GENERAL GUIDE.

A. ALL EXPOSED AREAS ARE TO BE STABILISED AS SOON AS PRACTICAL WITH A MINIMUM OF 80% OF THE NOMINATED GRASS COVER TO BE ACHIEVED WITHIN 30 DAYS OF COMPLETION OF WORK
B. MAINTAIN ALL SILT FENCES. ERECT ADDITIONAL SILT FENCES IF REQUIRED.
C. BUND WALLS, SILT FENCES AND GULLY PROTECTION MEASURES ARE TO REMAIN UNTIL 80% OF GRASS COVER IS ACHIEVED TO NOMINATED AREAS.
E. ONCE 80% OF NOMINATED GRASS COVER HAS BEEN ACHIEVED (AND CONFIRMED WITH SUPERVISING ENGINEER & COUNCIL'S STORMWATER MANAGEMENT OFFICER-EROSION & SEDIMENT CONTROL), ANY REMAINING TEMPORARY BUND WALLS, SILT FENCES TO GRASS PROTECTED LOTS, GULLY PROTECTION AND TEMPORARY SEDIMENT BASINS ARE TO BE REMOVED.

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(A3) 1:1000
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ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:

EROSION AND SEDIMENT CONTROL LAYOUT PRACTICAL COMPLETION PHASE

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT:	PLAN:	ISSUE:
M2584E_1	ES03	B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL

COUNCIL REF: DA/38032/2019/V3RL

FILE NAME: EROSION.DWG

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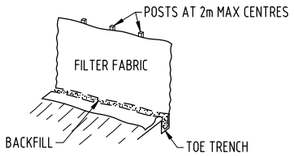


SILT FENCE

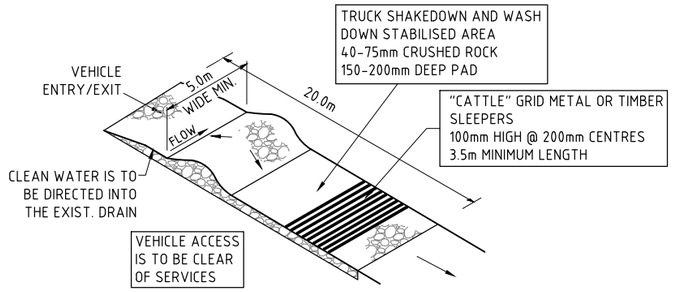
N.T.S.

MAINTENANCE PROGRAM FOR SILT FENCES

1. REGULAR INSPECTIONS WILL BE REQUIRED TO CONTROL DAMAGE CAUSED BY ON SITE VEHICLES OR MOVEMENT OF STOCKPILES.
2. INSPECTED AFTER EACH STORM EVENT THAT RESULTS IN RUN-OFF.
3. REMOVE EXCESS SEDIMENT DEPOSITS.
4. INVESTIGATE THE SOURCE OF ANY EXCESSIVE SEDIMENT. (REFER B.C.C. EBMP GROUP 5 FIG.5.6).

NOTE : SILT MANAGEMENT

SILT FENCES ARE TO BE EMPLOYED WHERE CONDITIONS DURING CONSTRUCTION REQUIRE THE CONTROL OF ANY POSSIBLE SILT MOVEMENT ON THE SITE,AS DIRECTED BY THE SUPERVISOR.

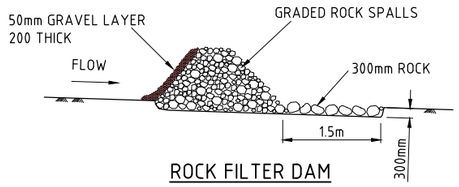


TRUCK SHAKEDOWN DETAIL

N.T.S.

MAINTENANCE PROGRAM FOR TRUCK SHAKEDOWN

THE CONTRACTOR IS TO INSPECT THE ENTRY/EXIT AND WASH DOWN AREA TO ENSURE THAT IT IS NOT SILTED UP OR DAMAGED. ALL WATER USED DURING WASHING AND MAINTAINING THE AREA IS TO BE DIRECTED TO THE BUND.

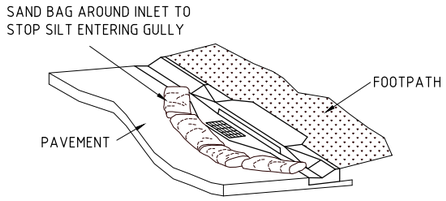


ROCK FILTER DAM

N.T.S.

MAINTENANCE PROGRAM FOR ROCK FILTER DAM

1. INSPECTIONS TO BE CARRIED OUT AFTER EACH RUNOFF EVENT.
2. SILT BUILT UP TO BE REMOVED DURING CONSTRUCTION AS REQUIRED BY THE SUPERVISING ENGINEER
3. TO BE REMOVED WHEN THE EXPOSED AREAS HAVE BEEN STABILISED.



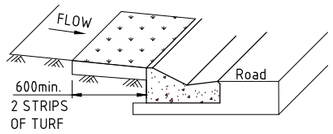
GULLY INLET PROTECTION

N.T.S.

MAINTENANCE PROGRAM FOR GULLY INLET PROTECTION

1. REGULAR INSPECTIONS AFTER EACH RUNOFF EVENT TO ENSURE THAT THE PROTECTION DEVICE IS STILL IN PLACE AND ANY EXCESSIVE SEDIMENT DEPOSITS ARE TO BE REMOVED.
2. THE TOP OF THE SANDBAGS ARE TO BE LOWER THAN THE TOP OF THE KERB AND CHANNEL.

THIS FORM OF GULLY INLET PROTECTION WORK SHALL BE IMPLEMENTED ONCE BACKSTONES ARE IN PLACE. UPON SUCCESSFUL COMPLETION OF 'ON MAINTENANCE' INSPECTION, MEASURES ARE TO BE REMOVED.

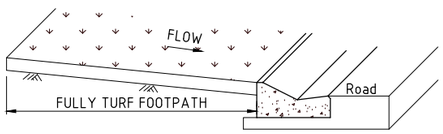


GRASS FILTER STRIPS
(ROADS & DRAINAGE PHASE)

N.T.S.

MAINTENANCE PROGRAM FOR GRASS FILTER STRIPS

THE SIGNIFICANT BUILD UP ON FILTER STRIPS INDICATES INEFFICIENT ON SITE EROSION AND SEDIMENT CONTROLS. THE SOURCE OF ANY EXCESSIVE SEDIMENT DEPOSITS IS TO BE INVESTIGATED.



GRASS FILTER - FULL FOOTPATH TURFING
(PRACTICAL COMPLETION PHASE)

N.T.S.

MAINTENANCE PROGRAM FOR GRASS FILTER STRIPS

THE SIGNIFICANT BUILD UP ON FILTER STRIPS INDICATES INEFFICIENT ON SITE EROSION AND SEDIMENT CONTROLS. THE SOURCE OF ANY EXCESSIVE SEDIMENT DEPOSITS IS TO BE INVESTIGATED.

SILT MANAGEMENT DETAILS AND MAINTENANCE PROGRAMS.

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NORTH:

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DRAWN	WN			
CHECKED	ADF	A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20 WN
DATUM: AHD		ISSUE:	DETAILS:	DATE: INIT:

TITLE:

EROSION AND SEDIMENT CONTROL DETAILS

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: ES04 ISSUE: A
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: EROSION.DWG

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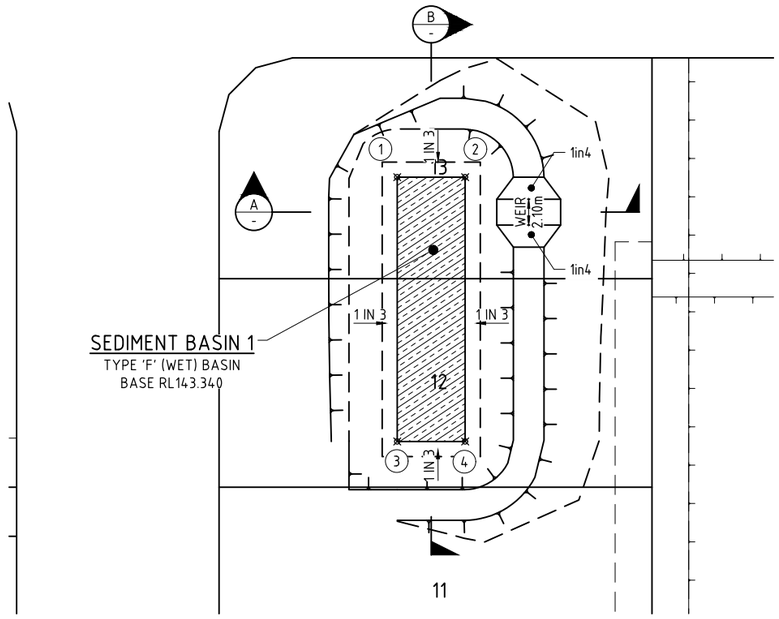


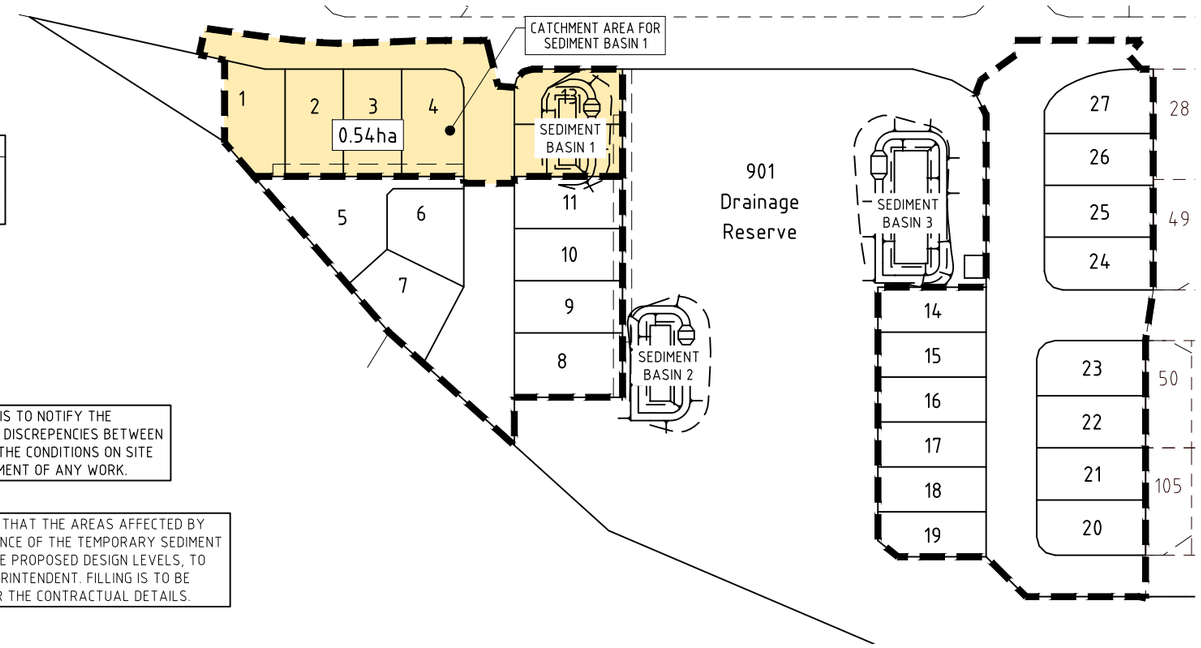
SEDIMENT BASIN No 1.
SCALE 1 : 250

SETOUT AND LEVEL TABLE

PT No.	TYPE	EASTING	NORTHING	LEVEL
1	IP	480503.699	7014741.638	143.340
2	IP	480509.192	7014740.915	143.340
3	IP	480500.888	7014720.282	143.340
4	IP	480506.380	7014719.559	143.340

THE CONTRACTOR IS TO NOTIFY THE SUPERINTENDENT OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.

THE CONTRACTOR IS TO ENSURE THAT THE AREAS AFFECTED BY THE CONSTRUCTION AND MAINTENCE OF THE TEMPORARY SEDIMENT BASIN ARE CONSTRUCTED TO THE PROPOSED DESIGN LEVELS, TO THE SATISFACTION OF THE SUPERINTENDENT. FILLING IS TO BE COMPLETED AND TESTED AS PER THE CONTRACTUAL DETAILS.



SEDIMENT BASIN CATCHMENT PLAN
SCALE 1 : 1000

0 10 20 30 40 50 (A1) 1:1000 100 Metres
(A3) 1:2000

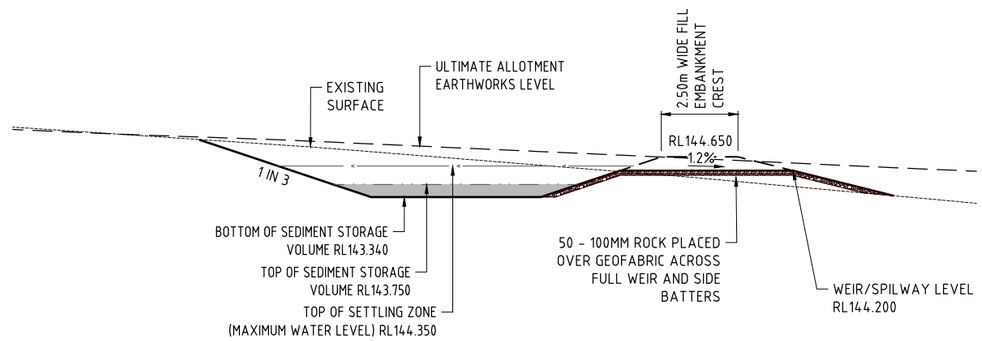
SEDIMENT BASIN No. 1 DESIGN CRITERIA

SETTLING VOLUME CALCULATIONS	
SEDIMENT BASIN TYPE	TYPE F (WET)
CHEMICAL FLOCULATION TREATMENT AS REQUIRED TO ENSURE WATER QUALITY REQUIREMENTS ARE ACHIEVED.	
TOTAL CATCHMENT AREA (ha)	0.537 ha
ROAD PAVEMENT AREA (ha)	0.145ha
VERGE/ALLOTMENT AREA (ha)	0.392 ha
SETTLING ZONE DEPTH (m)	0.6m
SETTLING VOLUME (m^3)	154
SEDIMENT STORAGE DEPTH (m)	0.41
SEDIMENT STORAGE VOLUME (m^3)	77
SEDIMENT BASIN LEVEL DETAILS	
TOP OF FILL EMBANKMENT CREST	144.650
MAXIMUM WATER LEVEL	144.350
WEIR/SPILLWAY LEVEL	144.200
TOP OF SEDIMENT STORAGE	143.750
BOTTOM OF SEDIMENT STORAGE	143.340
DESIGN CRITERIA BASED ON: • BCC - SEDIMENT BASIN DESIGN, CONSTRUCTION MAINTENANCE (January 2001) - Equation (4) • ICEA (Australasia)- BOOK 4 - SEDIMENT CONTROL FACTS SHEETS - SEDIMENT BASINS - VERSION 1	
WEIR/SPILLWAY DETAILS	
Q20 DISCHARGE (m^3/sec)	0.260
WEIR/SPILLWAY BASE WIDTH (m)	2.10
SPILLWAY SLOPE (%)	1.20
MANNINGS (n)	0.04
WATER DEPTH (m)	0.150
VELOCITY (m/sec)	0.671

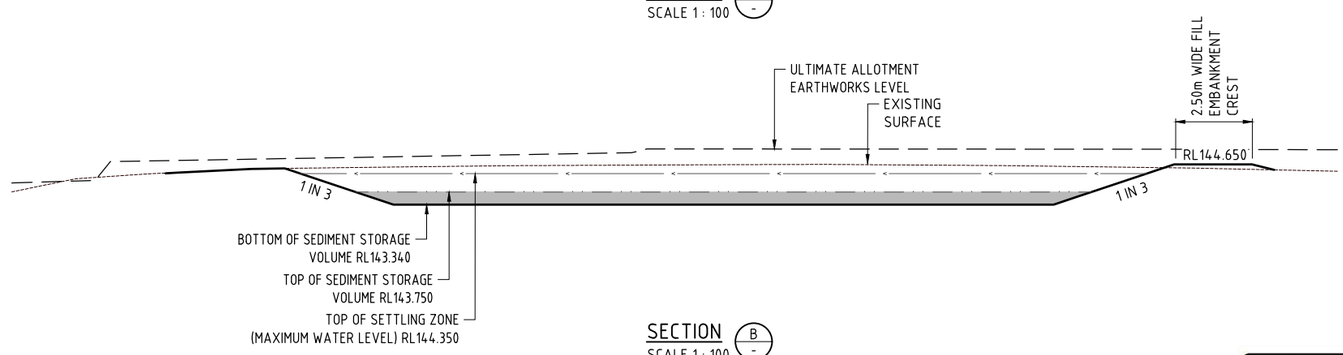
SEDIMENT BASIN MAINTENANCE PROGRAM

1. FOLLOWING STORM EVENTS WATER SHOULD BE ALLOWED TO SETTLE, FOR THE TIME REQUIRED FOR SUSPENDED SILT TO SETTLE INTO THE SEDIMENT STORAGE ZONE IN THE BASIN.
2. IN LARGER STORM EVENTS WATER SHALL STILL BE DIRECTED INTO THE BASIN SO COURSE SEDIMENT CAN BE REMOVED.
3. PRIOR TO DE-WATERING OF THE BASIN, WATER QUALITY TESTING BY A NATA CERTIFIED LABORATORY MUST BE UNDERTAKEN TO ENSURE THE FOLLOWING WATER QUALITY REQUIREMENTS ARE ACHIEVED:
   - PH 6.5 to 8.5
   - TSS 50mg/l TOTAL SUSPENDED SOLIDS

   THE SUPERINTENDENT IS TO ADVISE OF FLOCCULATION TREATMENT METHODS WHERE WATER QUALITY REQUIREMENTS ARE NOT ACHIEVED.
4. ON EACH OCCASION WHEN A TYPE F OR TYPE D BASIN CANNOT BE DE-WATERED PRIOR TO BEING SURCHARGED BY A FOLLOWING RAINFALL EVENT, THE OPERATOR MUST RECORD SUCH AN EVENT AND REPORT IT TO THE APPROPRIATE REGULARITY AUTHORITY. WHERE APPROPRIATE, ALTERNATIVE OPERATING PROCEDURES MAY NEED TO BE ADOPTED IN CONSULTATION WITH THE REGULARITY AUTHORITY IN ORDER TO ACHIEVE OPTIMUM ENVIRONMENTAL PROTECTION.
5. A MARKER PEG SHALL BE INSTALLED FIRMLY INTO THE BASE OF THE BASIN WITH THE TOP OF THE PEG 410mm ABOVE THE BASIN INVERT. ONCE STORED SEDIMENT REACHES THIS MAXIMUM LEVEL THE SEDIMENT IS TO BE REMOVED.
6. AFTER REMOVAL THE SEDIMENT CAN BE DRIED IN AN APPROVED MANNER UPSTREAM OF THE BASIN/PONDED AREAS AND THEN REMOVED FROM SITE OR MIXED WITH ON-SITE SOILS (IN A MANNER THAT WILL NOT CAUSE EROSION) AND BURIED.
7. PORTABLE DECANT PUMPS ARE TO BE USED TO DRAIN CLEAR WATER FROM THE BASIN/PONDED AREAS. WHEN PUMPING ENSURE SUSPENDED SEDIMENT IS NOT ALLOWED TO BE PUMPED OUT OF THE BASIN.
8. NATURAL GROUND COVER OVER THE SITE SHOULD BE PRESERVED FOR AS LONG AS POSSIBLE AND IN SOME AREAS NOT REMOVED AT ALL.
9. IMMEDIATELY RESEED OR REVEGETATE DISTURBED AREAS (WHERE PRACTICABLE).
10. ON SITE TRAFFIC MOVEMENT SHOULD BE MINIMISED. ROADS SHOULD BE SWEPT OF SEDIMENT RATHER THAN WASHED.
11. DRAINAGE CONTROL SHOULD BE IMPLEMENTED ON THE UP-SLOPE SIDE OF STOCKPILES. SEDIMENT FENCES SHOULD BE PLACED AT THE DOWN-SLOPE SIDE OF ALL STOCKPILES.



SECTION A
SCALE 1 : 100



SECTION B
SCALE 1 : 100

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(A3) 1:200

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NORTH: N

SCALE: 1:250 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres
(A3) 1:500
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
EROSION AND SEDIMENT CONTROL DETAILS SEDIMENT BASIN 1
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR
DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: ES05 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: EROSION TEMP SED BASINS.DWG

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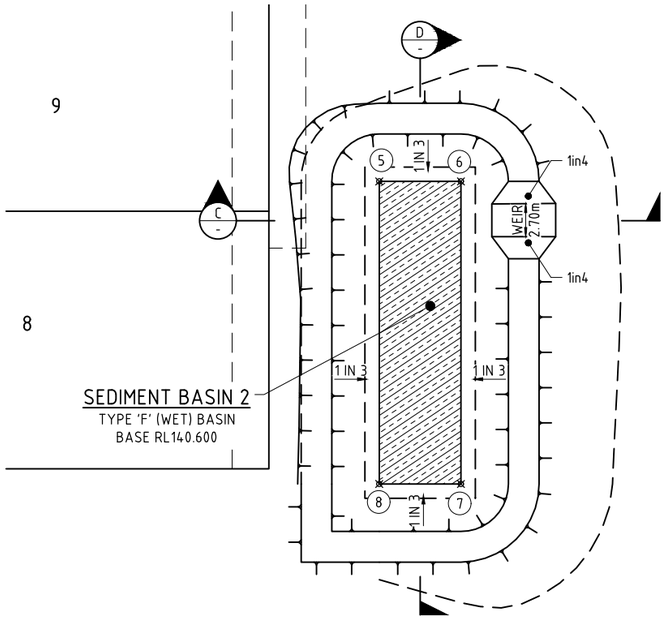
15/06/2020 N:\M2584E\DESIGN\STAGE_1\DFC\ES05\WORKING DRAWINGS\EROSION TEMP SED BASINS



SEDIMENT BASIN No 2.
SCALE 1 : 250

SETOUT AND LEVEL TABLE

PT No.	TYPE	EASTING	NORTHING	LEVEL
5	IP	480523.577	7014664.544	140.600
6	IP	480530.180	7014663.675	140.600
7	IP	480526.962	7014639.226	140.600
8	IP	480520.359	7014640.095	140.600

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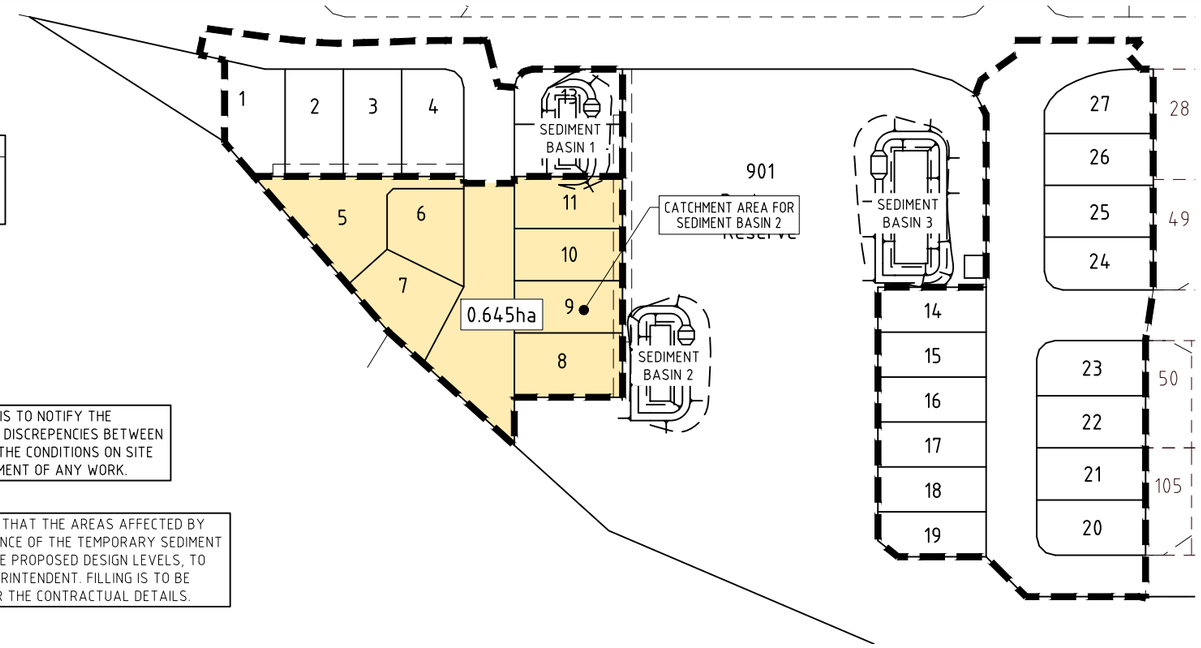

SEDIMENT BASIN CATCHMENT PLAN
SCALE 1 : 1000

0 10 20 30 40 50 (A1) 1:1000 100 Metres
(A3) 1:2000

SEDIMENT BASIN No. 2 DESIGN CRITERIA

SETTLING VOLUME CALCULATIONS	
SEDIMENT BASIN TYPE	TYPE F (WET)
CHEMICAL FLOCULATION TREATMENT AS REQUIRED TO ENSURE WATER QUALITY REQUIREMENTS ARE ACHIEVED.	
TOTAL CATCHMENT AREA (ha)	0.645 ha
ROAD PAVEMENT AREA (ha)	0.152ha
VERGE/ALLOTMENT AREA (ha)	0.493ha
SETTLING ZONE DEPTH (m)	0.6m
SETTLING VOLUME (m^3)	189
SEDIMENT STORAGE DEPTH (m)	0.39
SEDIMENT STORAGE VOLUME (m^3)	94
SEDIMENT BASIN LEVEL DETAILS	
TOP OF FILL EMBANKMENT CREST	141.890
MAXIMUM WATER LEVEL	141.590
WEIR/SPILLWAY LEVEL	141.440
TOP OF SEDIMENT STORAGE	140.990
BOTTOM OF SEDIMENT STORAGE	140.600
DESIGN CRITERIA BASED ON: • BCC - SEDIMENT BASIN DESIGN, CONSTRUCTION MAINTENANCE (January 2001) - Equation (4) • ICEA (Australasia)- BOOK 4 - SEDIMENT CONTROL FACTS SHEETS - SEDIMENT BASINS - VERSION 1	
WEIR/SPILLWAY DETAILS	
Q20 DISCHARGE (m^3/sec)	0.313
WEIR/SPILLWAY BASE WIDTH (m)	2.70
SPILLWAY SLOPE (%)	1.2
MANNINGS (n)	0.04
WATER DEPTH (m)	0.150
VELOCITY (m/sec)	0.687

SEDIMENT BASIN MAINTENANCE PROGRAM

1. FOLLOWING STORM EVENTS WATER SHOULD BE ALLOWED TO SETTLE, FOR THE TIME REQUIRED FOR SUSPENDED SILT TO SETTLE INTO THE SEDIMENT STORAGE ZONE IN THE BASIN.
2. IN LARGER STORM EVENTS WATER SHALL STILL BE DIRECTED INTO THE BASIN SO COURSE SEDIMENT CAN BE REMOVED.
3. PRIOR TO DE-WATERING OF THE BASIN, WATER QUALITY TESTING BY A NATA CERTIFIED LABORATORY MUST BE UNDERTAKEN TO ENSURE THE FOLLOWING WATER QUALITY REQUIREMENTS ARE ACHIEVED:
   - PH 6.5 to 8.5
   - TSS 50mg/l TOTAL SUSPENDED SOLIDS

   THE SUPERINTENDENT IS TO ADVISE OF FLOCCULATION TREATMENT METHODS WHERE WATER QUALITY REQUIREMENTS ARE NOT ACHIEVED.
4. ON EACH OCCASION WHEN A TYPE F OR TYPE D BASIN CANNOT BE DE-WATERED PRIOR TO BEING SURCHARGED BY A FOLLOWING RAINFALL EVENT, THE OPERATOR MUST RECORD SUCH AN EVENT AND REPORT IT TO THE APPROPRIATE REGULARITY AUTHORITY. WHERE APPROPRIATE, ALTERNATIVE OPERATING PROCEDURES MAY NEED TO BE ADOPTED IN CONSULTATION WITH THE REGULARITY AUTHORITY IN ORDER TO ACHIEVE OPTIMUM ENVIRONMENTAL PROTECTION.
5. A MARKER PEG SHALL BE INSTALLED FIRMLY INTO THE BASE OF THE BASIN WITH THE TOP OF THE PEG 390mm ABOVE THE BASIN INVERT. ONCE STORED SEDIMENT REACHES THIS MAXIMUM LEVEL THE SEDIMENT IS TO BE REMOVED.
6. AFTER REMOVAL THE SEDIMENT CAN BE DRIED IN AN APPROVED MANNER UPSTREAM OF THE BASIN/PONDED AREAS AND THEN REMOVED FROM SITE OR MIXED WITH ON-SITE SOILS (IN A MANNER THAT WILL NOT CAUSE EROSION) AND BURIED.
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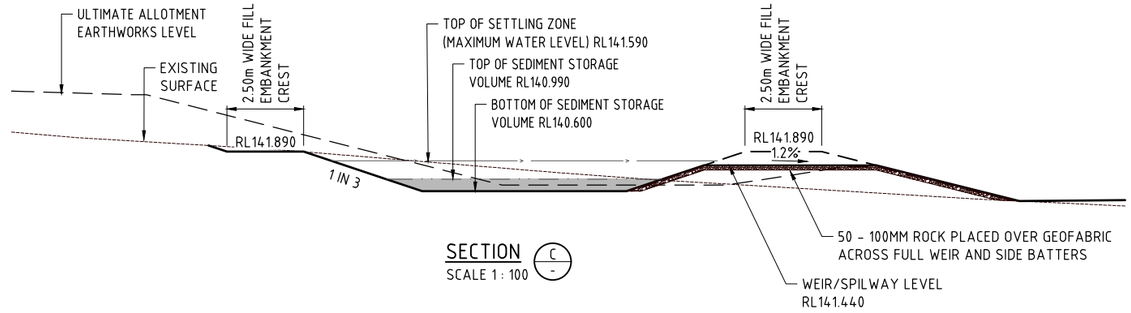
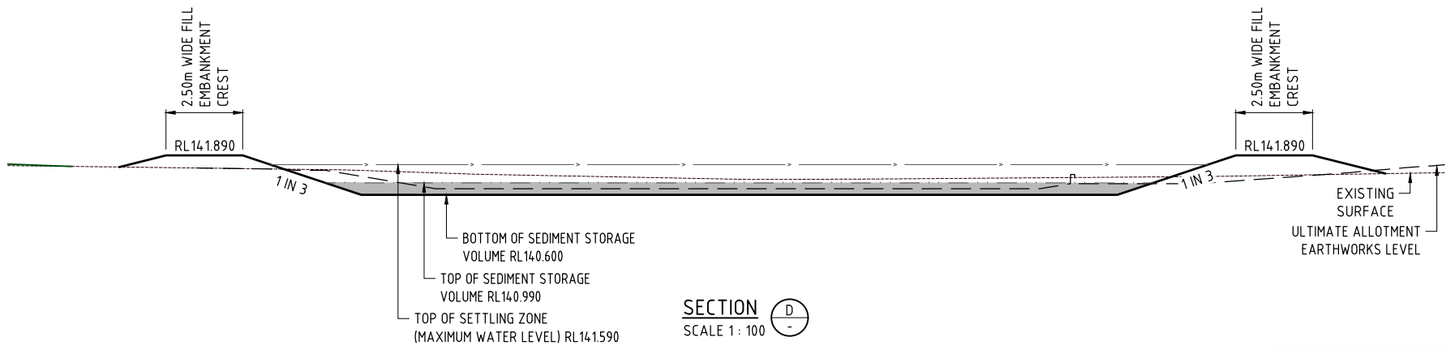
10. ON SITE TRAFFIC MOVEMENT SHOULD BE MINIMISED. ROADS SHOULD BE SWEPT OF SEDIMENT RATHER THAN WASHED.
11. DRAINAGE CONTROL SHOULD BE IMPLEMENTED ON THE UP-SLOPE SIDE OF STOCKPILES. SEDIMENT FENCES SHOULD BE PLACED AT THE DOWN-SLOPE SIDE OF ALL STOCKPILES.



SECTION C
SCALE 1 : 100



SECTION D
SCALE 1 : 100

0 1 2 3 4 5 (A1) 1:100 10 Metres
(A3) 1:200

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NORTH: N

SCALE: 1:250 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres
(A3) 1:500
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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
EROSION AND SEDIMENT CONTROL DETAILS SEDIMENT BASIN 2

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: ES06 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: EROSION TEMP SED BASINS.DWG

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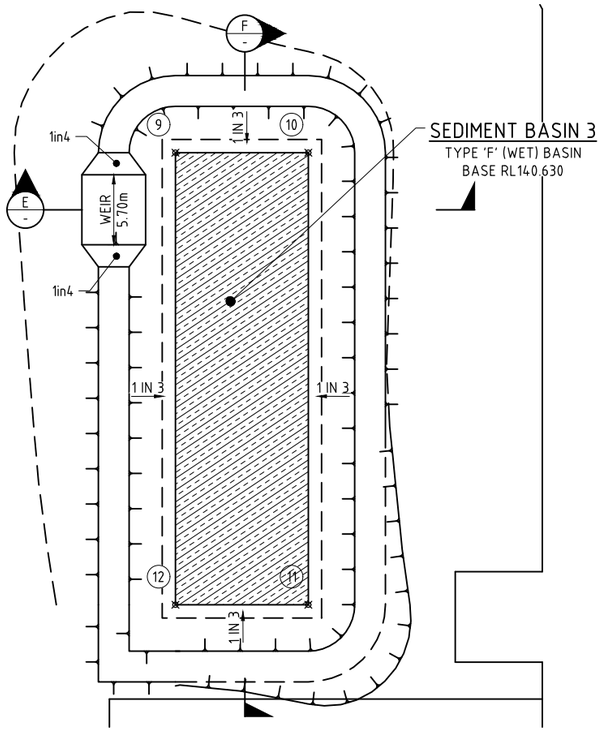
15/06/2020 N:\M2584\ADSTAGE_1\DESIGN\WORKING DRAWINGS\EROSION TEMP SED BASINS



SEDIMENT BASIN No 3.

SCALE 1 : 250

SETOUT AND LEVEL TABLE

PT No.	TYPE	EASTING	NORTHING	LEVEL
9	IP	480610.011	7014710.642	140.630
10	IP	480620.759	7014709.228	140.630
11	IP	480615.951	7014672.703	140.630
12	IP	480605.203	7014674.118	140.630

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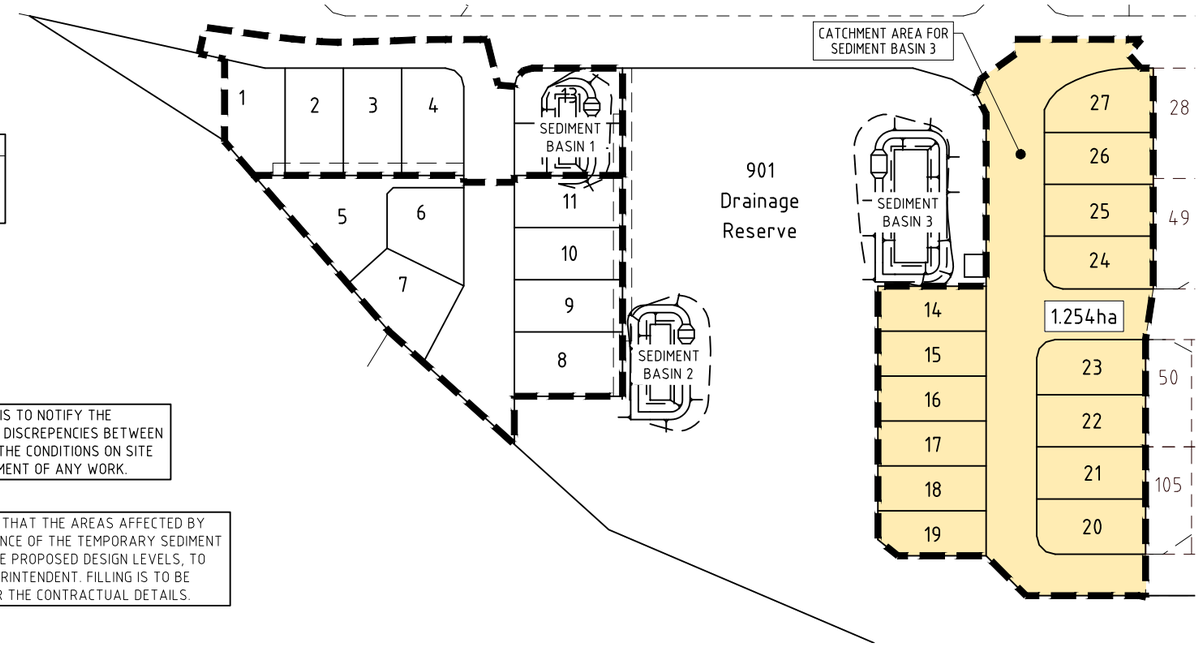

SEDIMENT BASIN CATCHMENT PLAN

SCALE 1 : 1000

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(A3) 1:2000

SEDIMENT BASIN No. 3 DESIGN CRITERIA

SETTLING VOLUME CALCULATIONS

SEDIMENT BASIN TYPE	TYPE F (WET)
CHEMICAL FLOCULATION TREATMENT AS REQUIRED TO ENSURE WATER QUALITY REQUIREMENTS ARE ACHIEVED.	
TOTAL CATCHMENT AREA (ha)	1.254 ha
ROAD PAVEMENT AREA (ha)	0.454ha
VERGE/ALLOTMENT AREA (ha)	0.800 ha
SETTLING ZONE DEPTH (m)	0.6m
SETTLING VOLUME (m^3)	364
SEDIMENT STORAGE DEPTH (m)	0.36
SEDIMENT STORAGE VOLUME (m^3)	182

SEDIMENT BASIN LEVEL DETAILS

TOP OF FILL EMBANKMENT CREST	141.890
MAXIMUM WATER LEVEL	141.590
WEIR/SPILLWAY LEVEL	141.440
TOP OF SEDIMENT STORAGE	140.990
BOTTOM OF SEDIMENT STORAGE	140.630

DESIGN CRITERIA BASED ON:

- BCC - SEDIMENT BASIN DESIGN, CONSTRUCTION MAINTENANCE (January 2001) - Equation (4)
- ICEA (Australasia)- BOOK 4 - SEDIMENT CONTROL FACTS SHEETS - SEDIMENT BASINS - VERSION 1

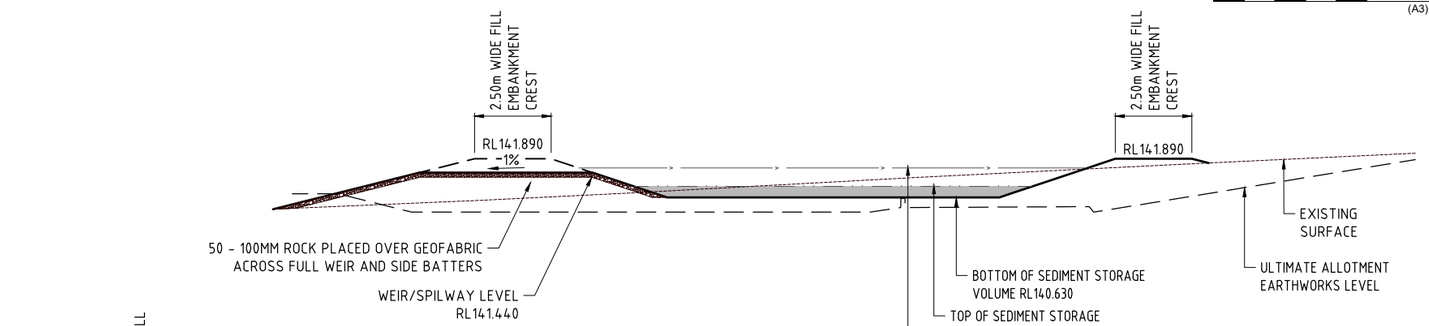
WEIR/SPILLWAY DETAILS

Q20 DISCHARGE (m^3/sec)	0.606
WEIR/SPILLWAY BASE WIDTH (m)	5.70
SPILLWAY SLOPE (%)	1.00
MANNINGS (n)	0.04
WATER DEPTH (m)	0.150
VELOCITY (m/sec)	0.662

SEDIMENT BASIN MAINTENANCE PROGRAM

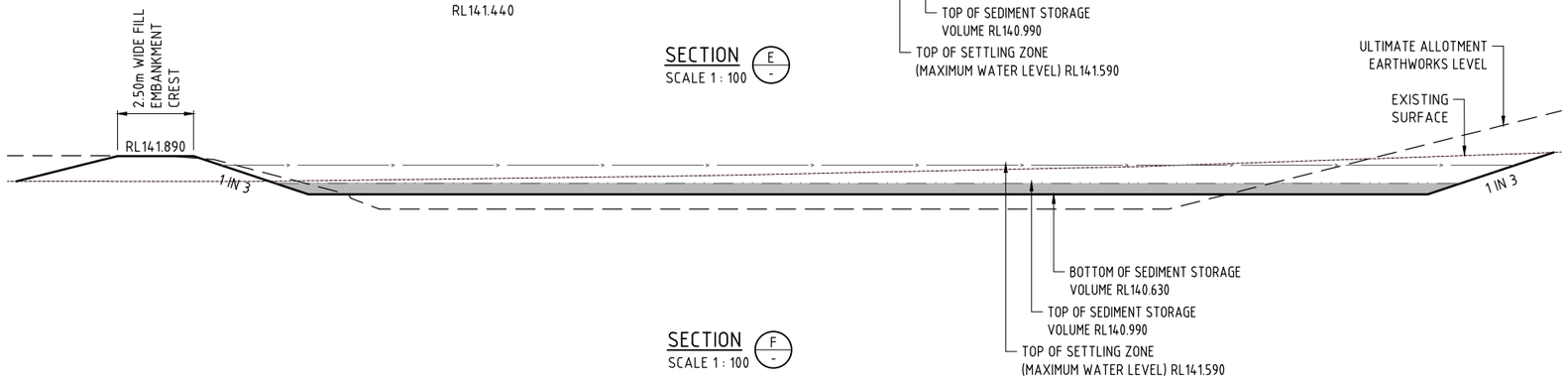
1. FOLLOWING STORM EVENTS WATER SHOULD BE ALLOWED TO SETTLE, FOR THE TIME REQUIRED FOR SUSPENDED SILT TO SETTLE INTO THE SEDIMENT STORAGE ZONE IN THE BASIN.
2. IN LARGER STORM EVENTS WATER SHALL STILL BE DIRECTED INTO THE BASIN SO COURSE SEDIMENT CAN BE REMOVED.
3. PRIOR TO DE-WATERING OF THE BASIN, WATER QUALITY TESTING BY A NATA CERTIFIED LABORATORY MUST BE UNDERTAKEN TO ENSURE THE FOLLOWING WATER QUALITY REQUIREMENTS ARE ACHIEVED:
   - PH 6.5 to 8.5
   - TSS 50mg/l TOTAL SUSPENDED SOLIDS

   THE SUPERINTENDENT IS TO ADVISE OF FLOCCULATION TREATMENT METHODS WHERE WATER QUALITY REQUIREMENTS ARE NOT ACHIEVED.
4. ON EACH OCCASION WHEN A TYPE F OR TYPE D BASIN CANNOT BE DE-WATERED PRIOR TO BEING SURCHARGED BY A FOLLOWING RAINFALL EVENT, THE OPERATOR MUST RECORD SUCH AN EVENT AND REPORT IT TO THE APPROPRIATE REGULARITY AUTHORITY. WHERE APPROPRIATE, ALTERNATIVE OPERATING PROCEDURES MAY NEED TO BE ADOPTED IN CONSULTATION WITH THE REGULARITY AUTHORITY IN ORDER TO ACHIEVE OPTIMUM ENVIRONMENTAL PROTECTION.
5. A MARKER PEG SHALL BE INSTALLED FIRMLY INTO THE BASE OF THE BASIN WITH THE TOP OF THE PEG 360mm ABOVE THE BASIN INVERT. ONCE STORED SEDIMENT REACHES THIS MAXIMUM LEVEL THE SEDIMENT IS TO BE REMOVED.
6. AFTER REMOVAL THE SEDIMENT CAN BE DRIED IN AN APPROVED MANNER UPSTREAM OF THE BASIN/PONDED AREAS AND THEN REMOVED FROM SITE OR MIXED WITH ON-SITE SOILS (IN A MANNER THAT WILL NOT CAUSE EROSION) AND BURIED.
7. PORTABLE DECANT PUMPS ARE TO BE USED TO DRAIN CLEAR WATER FROM THE BASIN/PONDED AREAS. WHEN PUMPING ENSURE SUSPENDED SEDIMENT IS NOT ALLOWED TO BE PUMPED OUT OF THE BASIN.
8. NATURAL GROUND COVER OVER THE SITE SHOULD BE PRESERVED FOR AS LONG AS POSSIBLE AND IN SOME AREAS NOT REMOVED AT ALL.
9. IMMEDIATELY RESEED OR REVEGETATE DISTURBED AREAS (WHERE PRACTICABLE).
10. ON SITE TRAFFIC MOVEMENT SHOULD BE MINIMISED. ROADS SHOULD BE SWEPT OF SEDIMENT RATHER THAN WASHED.
11. DRAINAGE CONTROL SHOULD BE IMPLEMENTED ON THE UP-SLOPE SIDE OF STOCKPILES. SEDIMENT FENCES SHOULD BE PLACED AT THE DOWN-SLOPE SIDE OF ALL STOCKPILES.



SECTION E

SCALE 1 : 100



SECTION F

SCALE 1 : 100

0 1 2 3 4 5 (A1) 1:100 10 Metres
(A3) 1:200

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PLANNERS
URBAN DESIGNERS
SURVEYORS
ENGINEERS
LANDSCAPE ARCHITECTS

NORTH: N

SCALE: 1:250 A1

THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE

0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres
(A3) 1:500

DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
T.McKINNEY RPEQ 5087
A.FRASER RPEQ 5691
J.PAPPAS RPEQ 6086
S.MARSH RPEQ 8068

DESIGNED	CDV			
DRAWN	WN	B	RESPONSE TO RFI DATED 2020/05/26	15/06/20 BJ
CHECKED	ADF	A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20 WN
DATUM: AHD		ISSUE:	DETAILS:	DATE: INIT:

TITLE:

EROSION AND SEDIMENT CONTROL DETAILS SEDIMENT BASIN 3

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT: M2584E_1 PLAN: ES07 ISSUE: B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL

COUNCIL REF: DA/38032/2019/V3RL

FILE NAME: EROSION TEMP SED BASINS.DWG

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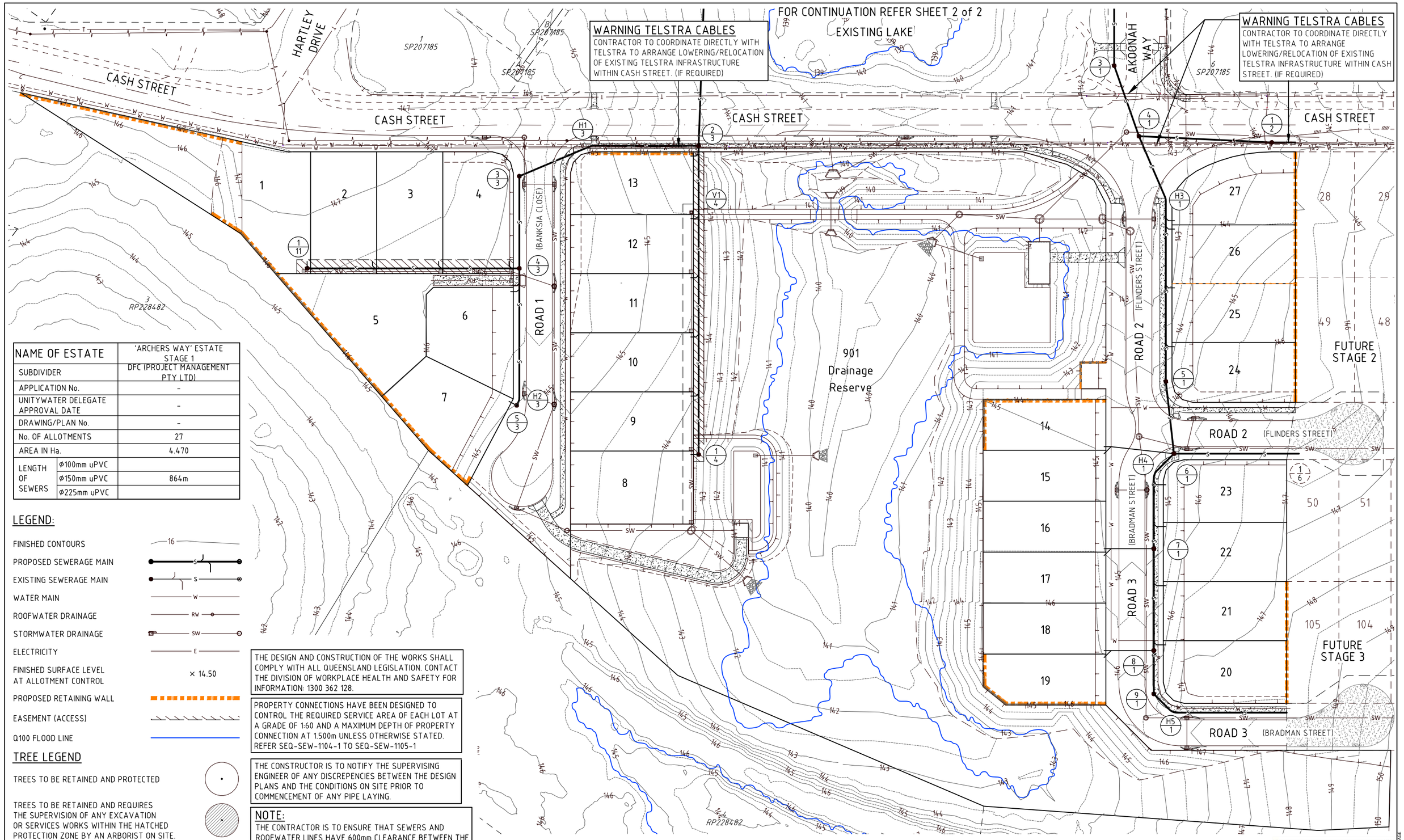
15/06/2020 N:\M2584\CAD\STAGE_1\DFC-ST\WORKING DRAWINGS\EROSION TEMP SED BASINS



NAME OF ESTATE		'ARCHERS WAY' ESTATE STAGE 1
SUBDIVIDER		DFC (PROJECT MANAGEMENT PTY LTD)
APPLICATION No.		-
UNITYWATER DELEGATE APPROVAL DATE		-
DRAWING/PLAN No.		-
No. OF ALLOTMENTS		27
AREA IN Ha.		4.470
LENGTH OF SEWERS	Ø100mm uPVC	
	Ø150mm uPVC	864m
	Ø225mm uPVC	

LEGEND:

- FINISHED CONTOURS — 16
- PROPOSED SEWERAGE MAIN — S
- EXISTING SEWERAGE MAIN — S
- WATER MAIN — W
- ROOFWATER DRAINAGE — RW
- STORMWATER DRAINAGE — SW
- ELECTRICITY — E
- FINISHED SURFACE LEVEL AT ALLOTMENT CONTROL — × 14.50
- PROPOSED RETAINING WALL
- EASEMENT (ACCESS)
- Q100 FLOOD LINE

TREE LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRES THE SUPERVISION OF ANY EXCAVATION OR SERVICES WORKS WITHIN THE HATCHED PROTECTION ZONE BY AN ARBORIST ON SITE.

TPZ
Tree Protection Zone
All vegetation to be protected in accordance with AS4970 - Protection of Trees on Development Sites & any conditions of approval.

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THE CONSTRUCTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

NOTE:

THE CONTRACTOR IS TO ENSURE THAT SEWERS AND ROOFWATER LINES HAVE 600mm CLEARANCE BETWEEN THE OUTSIDE OF RETAINING WALL FOOTINGS OR BORED PIERS.

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
TELEPHONE: 5450 3900

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PLANNERS
URBAN DESIGNERS
SURVEYORS
ENGINEERS
LANDSCAPE ARCHITECTS

NORTH: N

SCALE: 1:500 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 5 10 15 20 25 (A1) 1:500 50 Metres
(A3) 1:1000
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DESIGNED	CDV
DRAWN	WN
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B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
SEWERAGE LAYOUT PLAN SHEET 1 of 2
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S01 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

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15/06/2020 R:\M2584E\WORKING\DRAWING\SEWERAGE

LEGEND:

FINISHED CONTOURS	16
PROPOSED SEWERAGE MAIN	S
EXISTING SEWERAGE MAIN	S
WATER MAIN	W
ROOFWATER DRAINAGE	RW
STORMWATER DRAINAGE	SW
ELECTRICITY	E
FINISHED SURFACE LEVEL AT ALLOTMENT CONTROL	× 14.50
PROPOSED RETAINING WALL	
EASEMENT (ACCESS)	
Q100 FLOOD LINE	

TREE LEGEND

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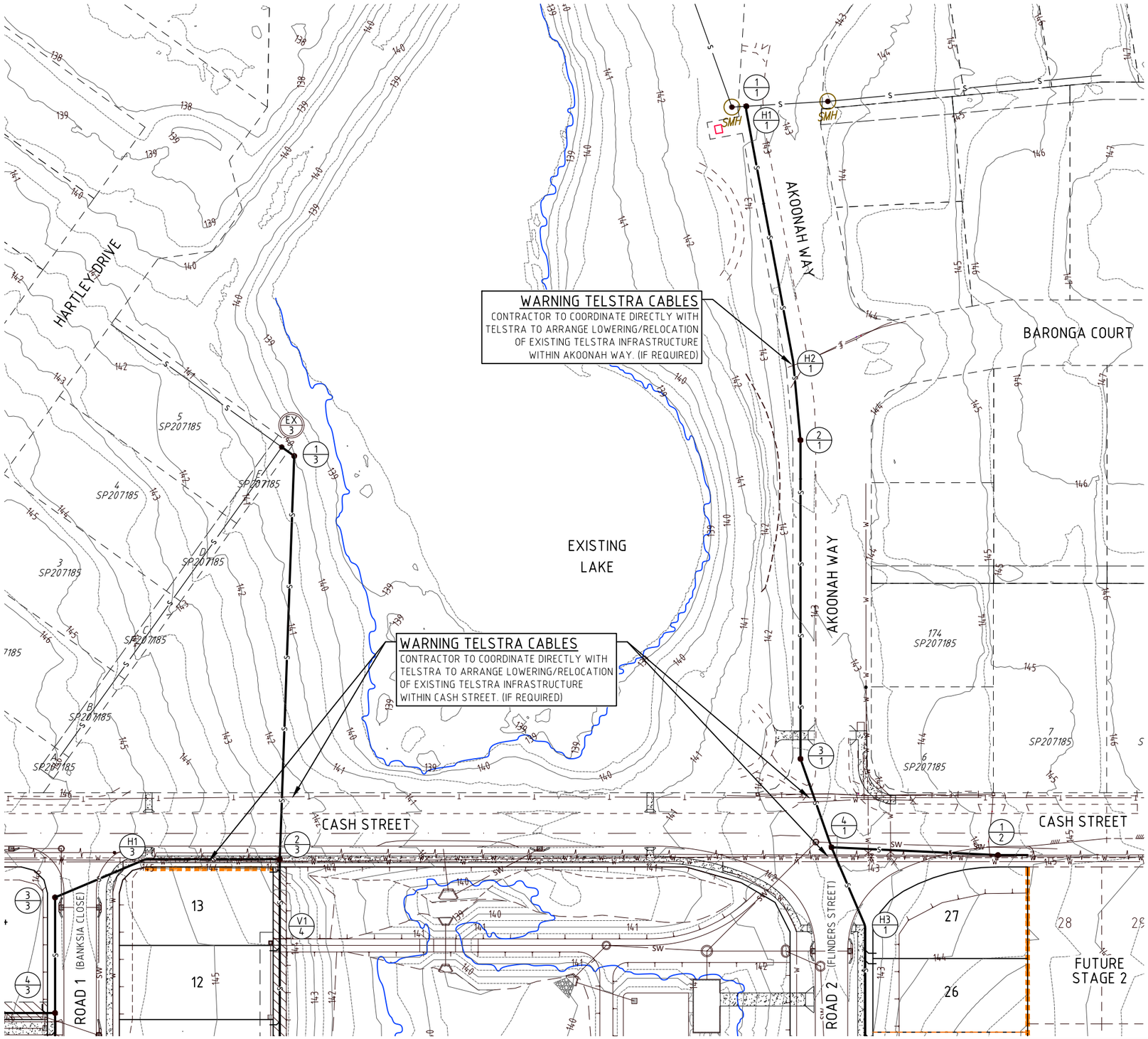
FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07



FOR CONTINUATION REFER SHEET 1 of 2

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
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LANDSCAPE ARCHITECTS

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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

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TITLE:
SEWERAGE LAYOUT PLAN SHEET 2 of 2
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S02 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

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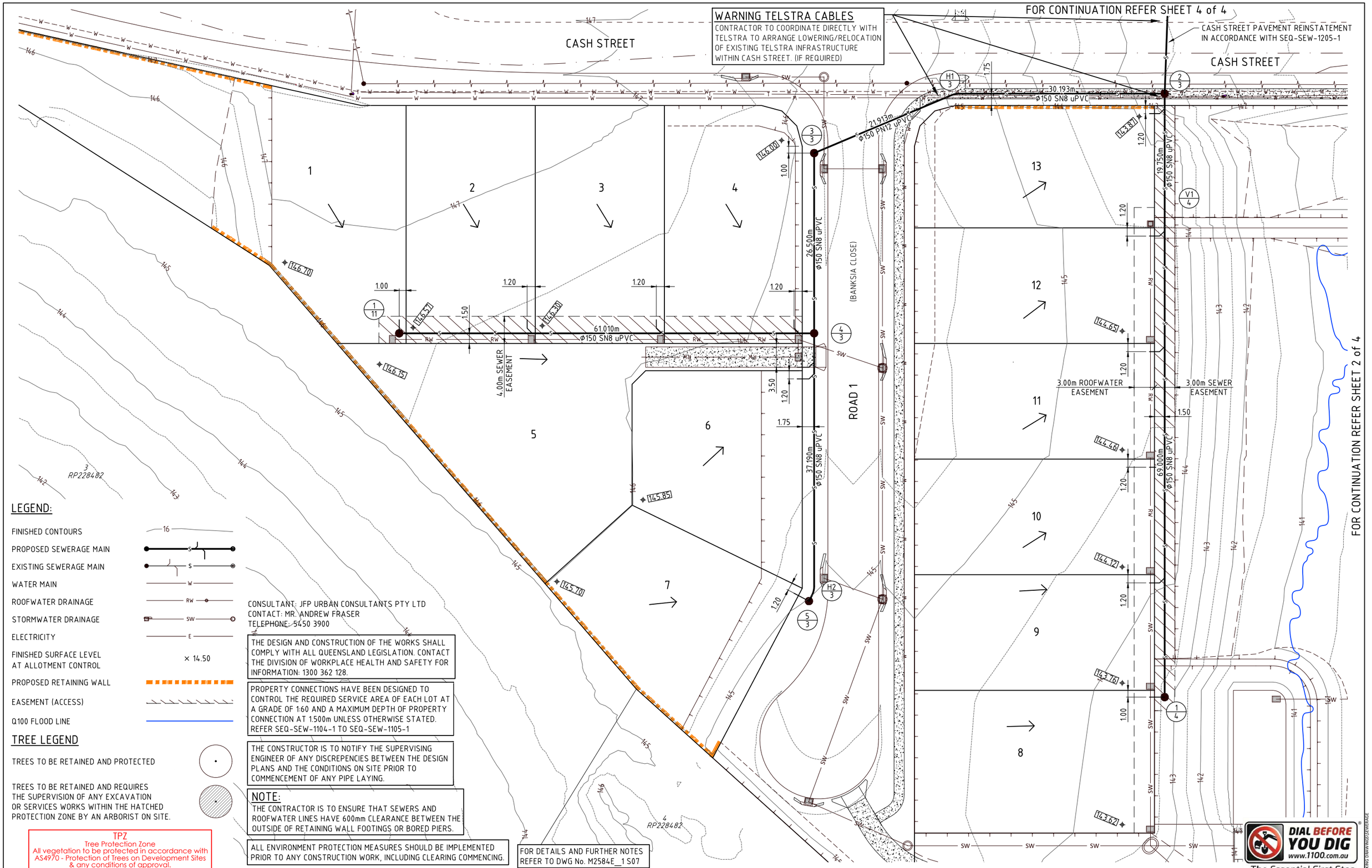
S:\M\M2584E\WORKING\SEWERAGE_S1DWG\WORKING\DRAWINGS\SEWERAGE



LEGEND:

- FINISHED CONTOURS — 16
- PROPOSED SEWERAGE MAIN — S
- EXISTING SEWERAGE MAIN — S
- WATER MAIN — W
- ROOFWATER DRAINAGE — RW
- STORMWATER DRAINAGE — SW
- ELECTRICITY — E
- FINISHED SURFACE LEVEL AT ALLOTMENT CONTROL — × 14.50
- PROPOSED RETAINING WALL
- EASEMENT (ACCESS)
- Q100 FLOOD LINE

TREE LEGEND

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FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

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NORTH: N

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DRAWN	WN
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TITLE:
SEWERAGE DETAIL LAYOUT PLAN SHEET 1 of 4
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S03 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

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15/06/2020 N:\M2584E\WORKS\STAGE_1\01-SEW\WORKING DRAWING\SEWERAGE

FOR CONTINUATION REFER SHEET 4 of 4

FOR CONTINUATION REFER SHEET 1 of 4

FOR CONTINUATION REFER SHEET 3 of 4

CASH STREET

CASH STREET

AKOONAH WAY

SP207185

WARNING TELSTRA CABLES
CONTRACTOR TO COORDINATE DIRECTLY WITH TELSTRA TO ARRANGE LOWERING/RELOCATION OF EXISTING TELSTRA INFRASTRUCTURE WITHIN CASH STREET. (IF REQUIRED)

Ø150 PN12 uPVC 21.498m

38.239m Ø150 PN12 uPVC

Ø150 PN12 uPVC 19.043m

6.80m Ø150 SN8 uPVC

CAP END AND BACKFILL (IL143.28) FOR FUTURE CONNECTION

Ø150 SN8 uPVC 51.817m

Ø150 PN12 uPVC 20.880m

6.930m Ø150 SN8 uPVC

35.921m Ø150 SN8 uPVC

CAP END AND BACKFILL (IL144.74) FOR FUTURE CONNECTION

901 Drainage Reserve

ROAD 2 (FLINDERS STREET)

ROAD 3 (BRADMAN STREET)

FUTURE STAGE 2

LEGEND:

- FINISHED CONTOURS
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- WATER MAIN
- ROOFWATER DRAINAGE
- STORMWATER DRAINAGE
- ELECTRICITY
- FINISHED SURFACE LEVEL AT ALLOTMENT CONTROL — × 14.50
- PROPOSED RETAINING WALL
- EASEMENT (ACCESS)
- Q100 FLOOD LINE

TREE LEGEND

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TPZ
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FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

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NORTH: N

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DESIGNED	CDV
DRAWN	WN
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ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
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TITLE:

SEWERAGE DETAIL LAYOUT PLAN SHEET 2 of 4

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S04 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

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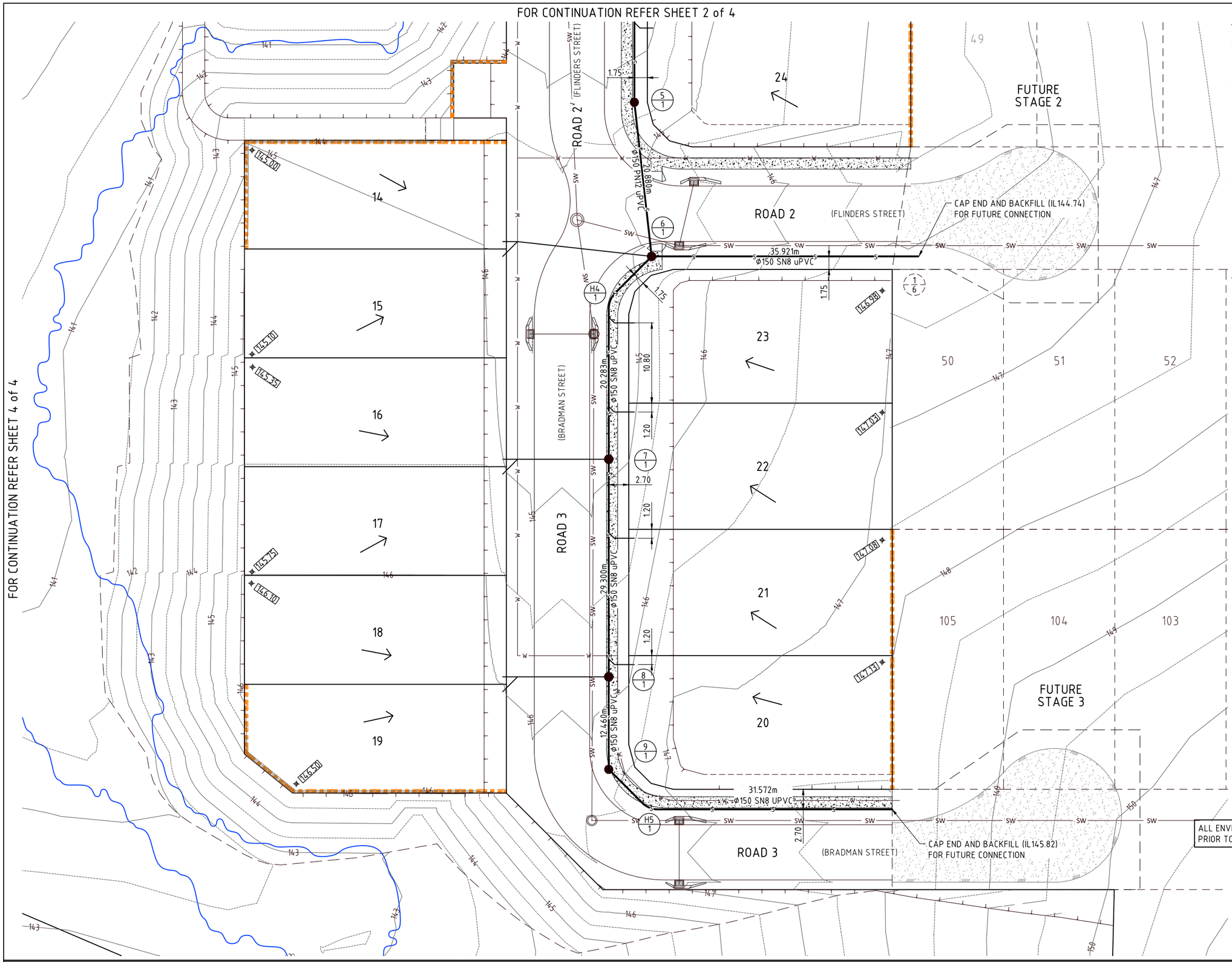
15/06/2020 N:\M2584E\DS\STAGE_1\DS-S04\WORKING\DRAWING\SEWERAGE

FOR CONTINUATION REFER SHEET 2 of 4

FOR CONTINUATION REFER SHEET 4 of 4



LEGEND:

- FINISHED CONTOURS
- PROPOSED SEWERAGE MAIN
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TITLE:

SEWERAGE DETAIL LAYOUT PLAN SHEET 3 of 4

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT:	PLAN:	ISSUE:
M2584E_1	S05	B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

15/06/2020 N:\M2584\DA\STAGE_1\D\CSET\WORKING DRAWINGS\SEWERAGE

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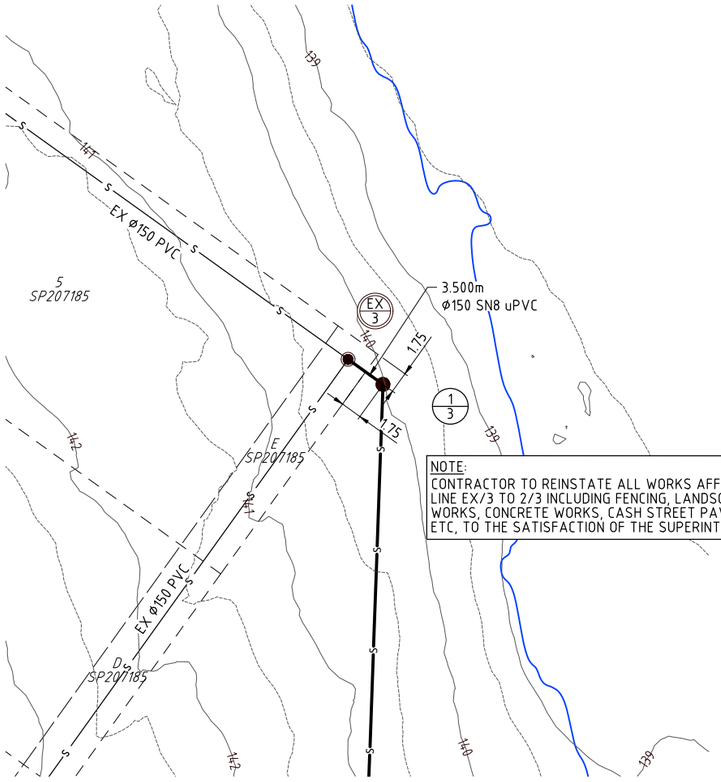
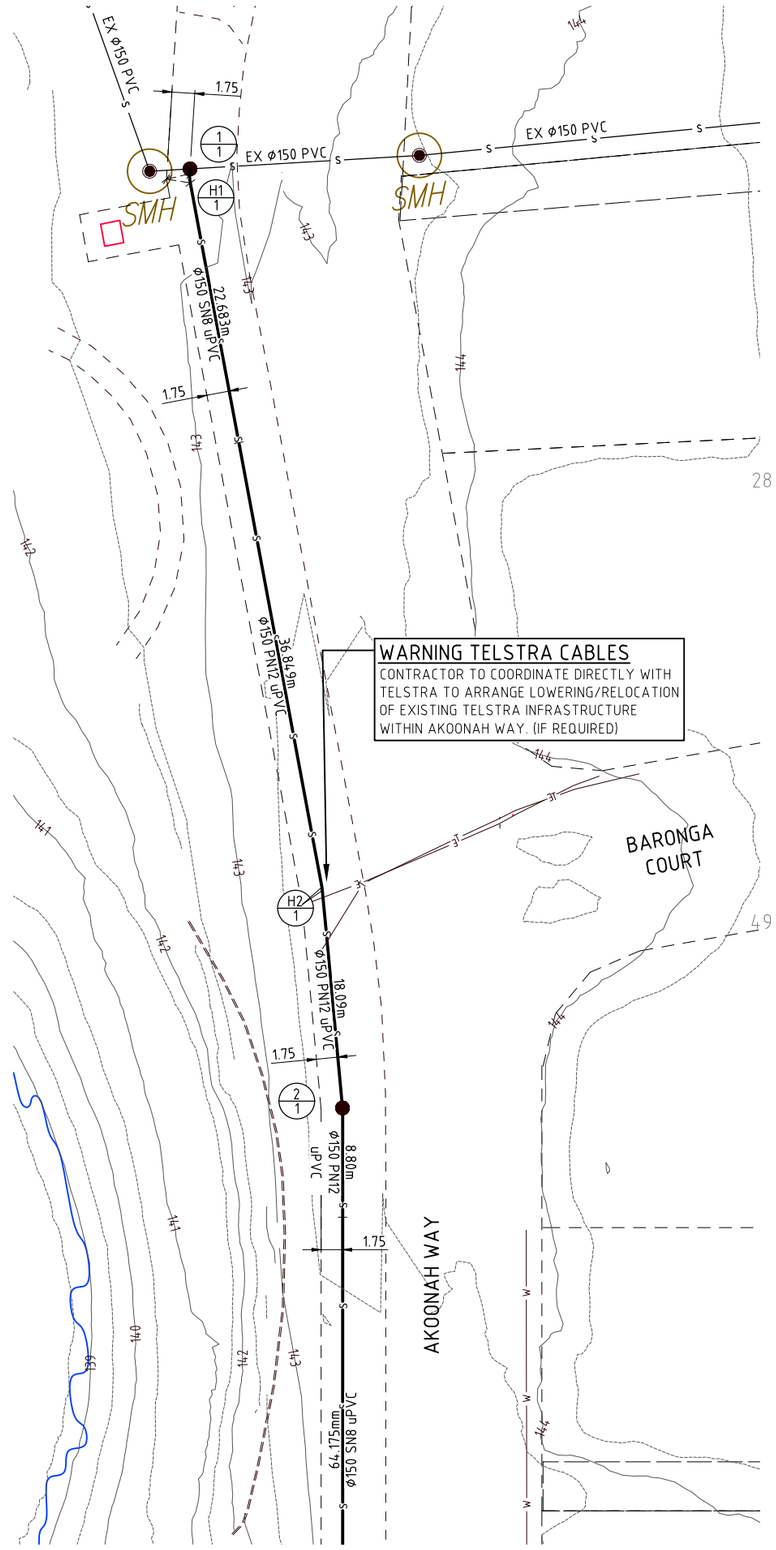


FOR CONTINUATION REFER SHEET 1 of 4



FOR CONTINUATION REFER SHEET 2 of 4

LEGEND:

- FINISHED CONTOURS
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- WATER MAIN
- ROOFWATER DRAINAGE
- STORMWATER DRAINAGE
- ELECTRICITY
- FINISHED SURFACE LEVEL AT ALLOTMENT CONTROL — × 14.50
- PROPOSED RETAINING WALL
- EASEMENT (ACCESS)
- Q100 FLOOD LINE

TREE LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRES THE SUPERVISION OF ANY EXCAVATION OR SERVICES WORKS WITHIN THE HATCHED PROTECTION ZONE BY AN ARBORIST ON SITE.

TPZ
Tree Protection Zone
All vegetation to be protected in accordance with AS4970 - Protection of Trees on Development Sites & any conditions of approval.

FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.500m UNLESS OTHERWISE STATED. REFER SEQ-SEW-1104-1 TO SEQ-SEW-1105-1

THE CONSTRUCTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

NOTE:
THE CONTRACTOR IS TO ENSURE THAT SEWERS AND ROOFWATER LINES HAVE 600mm CLEARANCE BETWEEN THE OUTSIDE OF RETAINING WALL FOOTINGS OR BORED PIERS.

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
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NORTH: N

SCALE: 1:250 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 2.5 5 7.5 10 12.5 (A1) 1:250 25 metres
(A3) 1:500
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
☐ T.McKINNEY RPEQ 5087 ☑ A.FRASER RPEQ 5691 ☐ J.PAPPAS RPEQ 6086
☐ S.MARSH RPEQ 8068 ☐

DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:

SEWERAGE DETAIL LAYOUT PLAN SHEET 4 of 4

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S06 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

15/06/2020 R:\M2584E\WORKS\STAGE_1\01-ENGN\WORKING DRAWING\SEWERAGE

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UNITYWATER AND CONSTRUCTOR LIVE SEWER WORKS

CONSULTING ENGINEERS ARE TO CONTACT UNITYWATER 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT.
(EXCAVATION, SAFE SHORING & ASSOCIATED WORKS BY CONTRACTOR)

EXCAVATION WORKS CARRIED OUT BY CONSTRUCTORS AT DEPTHS OF 1.5m OR GREATER MUST PROVIDE A 'SAFE WORK PLAN' AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO QUU PRIOR TO COMMENCING ANY WORKS.

IT IS THE DEVELOPERS RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.

No.	DESCRIPTION	DIA SEWER	MH No.	MH/MS TYPE	COVER TYPE	LOT No.	F.S.L.	E.S.L.	I.L.	DEPTH
1a) 1b)	THE CONTRACTOR SHALL CONSTRUCT THE MH AND BENCHING OVER THE EXISTING PIPE; CONTRACTOR SHALL DEMOLISH THE CROWN OF EXISTING PIPE WITHIN THE MH AND MAKE GOOD THE BENCHING AFTER SUCCESSFUL ON MAINTENANCE UNDER UNITYWATER SUPERVISION.	150 SN8	1 /1	P2	B	AKOONAH WAY	142.915	142.915	140.005	2.860
2a) 2b) 2c) 2d)	CONTRACTOR SHALL CONSTRUCT A STUB TO THE MH AND INSTALL A TEMPORARY PLUG IN THE STUB UNDER UNITYWATER SUPERVISION THE CONTRACTOR SHALL CONSTRUCT A SHORT PIPE WITH AN I.O. FROM THE STUB THEN LAY THE SEWER LINES AWAY FROM THE STUB; THE CONTRACTOR SHALL CONCRETE ENCASE THE I.O. AFTER COMPLETION OF TESTING PROCEDURES; UNITYWATER SHALL REMOVE THE TEMPORARY PLUG AFTER COMPLETION OF THE "ON MAINTENANCE" TESTING.	150 SN8	EX/ 3 (EXIST.)	-	-	5 SP 207185	140.259	140.259	138.040	2.219

LOCALITY PLAN
N.T.S.

ENVIRONMENTAL NOTES

VEGETATION PROTECTION

A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED, THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
C. NO SOIL SHOULD BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.
B. PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED.

SAFETY

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT "SEQ GRAVITY SEWERAGE CODE V2.0-2019" SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THESE DRAWINGS SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO UNITYWATER'S SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S COST UNO.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE (OR DN100 PVC) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 500mm AND A MAXIMUM OF 750mm.
9. WHERE PIPES ARE LAID IN FILL. THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE DRY DENSITY IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY UNITYWATER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR IS TO VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK AND LEVELS TO AHD
14. EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY UNITYWATER AT THE DEVELOPERS COST.

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.500m UNLESS OTHERWISE STATED. REFER SEQ-SEW-1104-1 TO SEQ-SEW-1105-1

THE CONSTRUCTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.500m UNLESS OTHERWISE STATED. REFER SEQ-SEW-1104-1 TO SEQ-SEW-1105-1

STANDARD DRAWINGS

SEQ-SEW 1104-1 & 1105-1	PROPERTY CONNECTIONS
SEQ-SEW 1300-1 (PRE-CAST)	MAINTENANCE HOLES
SEQ-SEW 1307-1 (CAST-IN-SITU)	MAINTENANCE HOLES
SEQ-SEW-1308-1 & 1308-5 to 1308-11	MAINTENCANCE STRUCTURE COVERS
SEQ-SEW-1314-1 & 1314-2	MAINTENANCE SHAFT

(LADDERS,STEP IRONS & LANDINGS ARE NOT PERMITTED)

MAINTENANCE STRUCTURE COVERS TO FOLLOW LOCAL GRADE AND BE 50mm ABOVE FINISHED SURFACE LEVEL OR FLUSH WITH PAVEMENTS,FOOTPATHS AND DRIVEWAYS.

MAINTENANCE HOLE BASE LINERS TO BE COMPLAS OR SIMILAR F.R.P.

SEQ-SEW 1302-1,1304-1,1305-1	BENCHING DETAILS
SEQ-SEW-1313-1	PIPE CONNECTIONS
SEQ-SEW-1303-1 & 1306-1	DROP TYPES
SEW-SEW 1206-1	BULKHEADS & TRENCH STOPS

TRENCH INSTALLATION

SEQ-SEW-1200-2,1201-1,1202-1,1203-1,1204-1,1205-1

PRIVATE PROPERTY	TRENCH TYPE 3
FOOTPATHS	TRENCH TYPE 3
NEW ROADS	TRENCH TYPE 3
EXISTING SEALED ROADS	TRENCH TYPE 14 (CROSSING SEALED ROAD) TRENCH TYPE 15,17 (ALONG SEALED ROADS)

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NORTH: N

SCALE: NOT TO SCALE — THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
A1
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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
SEWERAGE DETAILS PLAN

DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S07 ISSUE: A
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE.DWG

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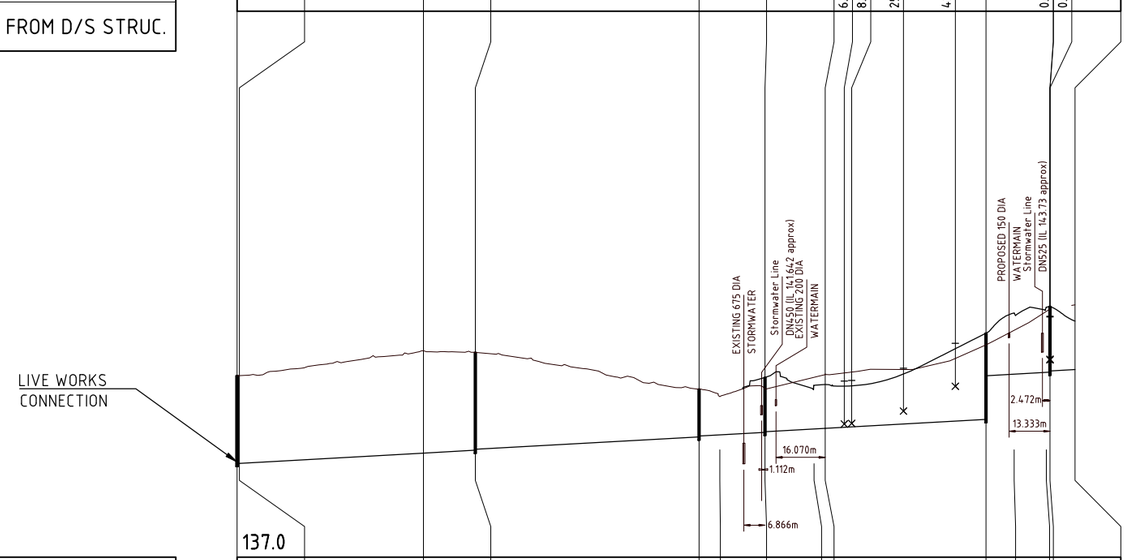
23/06/2020 N:\M2584E\WORKS\STAGE_1\DESIGN\WORKING DRAWINGS\SEWERAGE

STRUCTURE No.	1/1	H1/1		H2/1	2/1		3/1	4/1	H3/1			5/1	6/1	H4/1
COVER TYPE	P2 1000 D	HORIZ - IP R3.0m LRB DEF 15°		HORIZ - IP R3.0m LRB DEF 5°	P2 1000 D		'J1' D	P2 1000 D	HORIZ - IP R3.0m LRB DEF 25°			'J1' D	P2 1000 D	HORIZ - IP R3.0m LRB DEF 45°
STRUCTURE TYPE					V		V	V				X	V	
DROP TYPE								2					6	
JUNCTION LINE No.									141.340 1.400	141.360 1.400	141.760 1.400	142.570 1.400	143.450 1.400	143.430 1.400
DEPTH TO HC									141.340 1.400	141.360 1.400	141.760 1.400	142.570 1.400	143.450 1.400	143.430 1.400
HC INVERT LEVEL									B	B	B	B	B	B
HC TYPE									27	26	25	24	14	15
HC LOT No									6.233	8.633	25.533	42.433	0.000	0.000
CH. FROM D/S STRUC.														



PROP. DESCRIPTION														
PIPE Dia, TYPE, CLASS	150 SN8 uPVC	150 PN12 uPVC		150 SN8 uPVC				150 PN12 uPVC		150 SN8 uPVC			150 PN12 uPVC	150 SN8 uPVC
GRADE (1 IN X)	1 : 180.00	1 : 180.00		1 : 180.00	1 : 180.00			1 : 180.00	1 : 180.00	1 : 180.00			1 : 180.00	1 : 180.00
LENGTH	0.741m	60.035m		16.964m	72.975m			21.479m	19.659m	52.433m			20.880m	8.173m
EMBEDMENT TYPE	TYPE 3	TYPE 3		TYPE 3	TYPE 3			TYPE 3	TYPE 3	TYPE 3			TYPE 3	TYPE 3
JUNCTION INVERT LEVEL								141.109					143.110	
DEPTH TO INVERT BELOW FSL	2.860	2.855	3.339	3.189	3.159	1.557	1.527	1.787	1.767	1.429	2.811	1.387	2.145	2.105	1.579
INVERT LEVEL (IL)	**140.053**	**140.057**	**140.391**	**140.485**	**140.515**	**140.920**	**140.950**	**141.069**	**141.089**	**141.199**	**141.490**	**142.914**	**143.030**	**143.070**	**143.115**
FINISHED SURFACE LEVEL (FSL)	142.913	142.912	143.730	143.674		142.477	142.856	142.628		144.301	145.175	144.694		
EXISTING SURFACE LEVEL (ESL)		142.912	143.730	143.674		142.477	142.474	142.950		143.922	145.089	145.225		
STRUCTURE SETOUT CO-ORDINATES	E480655.942 N7014907.286	E480655.687 N7014906.590	E480658.928 N7014846.643	E480658.275 N7014829.692		E480648.751 N7014757.341	E480653.151 N7014736.317	E480658.477 N7014717.393		E480651.634 N7014665.408	E480651.235 N7014644.532	E480644.751 N7014639.557		
CHAINAGE (CH) (DISTANCE BETWEEN STRUCTURES)	0.000	0.741	60.776	77.740		150.715	172.194	191.853		244.286	265.166	273.339		

LINE 1

STRUCTURES
'J'1 MAINTENANCE SHAFT
P2/P3 MAINTENANCE HOLE
LRB LONG RADIUS BEND (3.0m RADIUS)
Y JCT 45° JUNCTION

PIPES
PN12 uPVC SERIES 12 R.R.J.
SN8 uPVC R.R.J.

HOUSE CONNECTIONS
A STANDARD CONNECTION
B SLOPED CONNECTION
SV 'J'1 MAINTENANCE SHAFT WITH VERTICAL RISER
SZ 'J'1 MAINTENANCE SHAFT WITH AT BASE CONNECTION

FOR STANDARD DRAWINGS AND NOTES REFER M2438E2 S02

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

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ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

LIVE WORKS MUST BE PERFORMED UNDER UNITYWATER SUPERVISION. REFER DRAWING M2584E_1 S07, UNITYWATER AND CONSTRUCTOR LIVE SEWER WORKS INSTRUCTION AND TABLE.

FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

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NORTH:

SCALE:
Horizontal 1:1000 Vertical 1:100
A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
(A1) 1:100 0 1 2 3 4 5 10 Metres
(A1) 1:1000 0 10 20 30 40 50 100
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
SEWERAGE LONGITUDINAL SECTIONS LINE 1
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR
DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S08 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE SECTIONS.DWG

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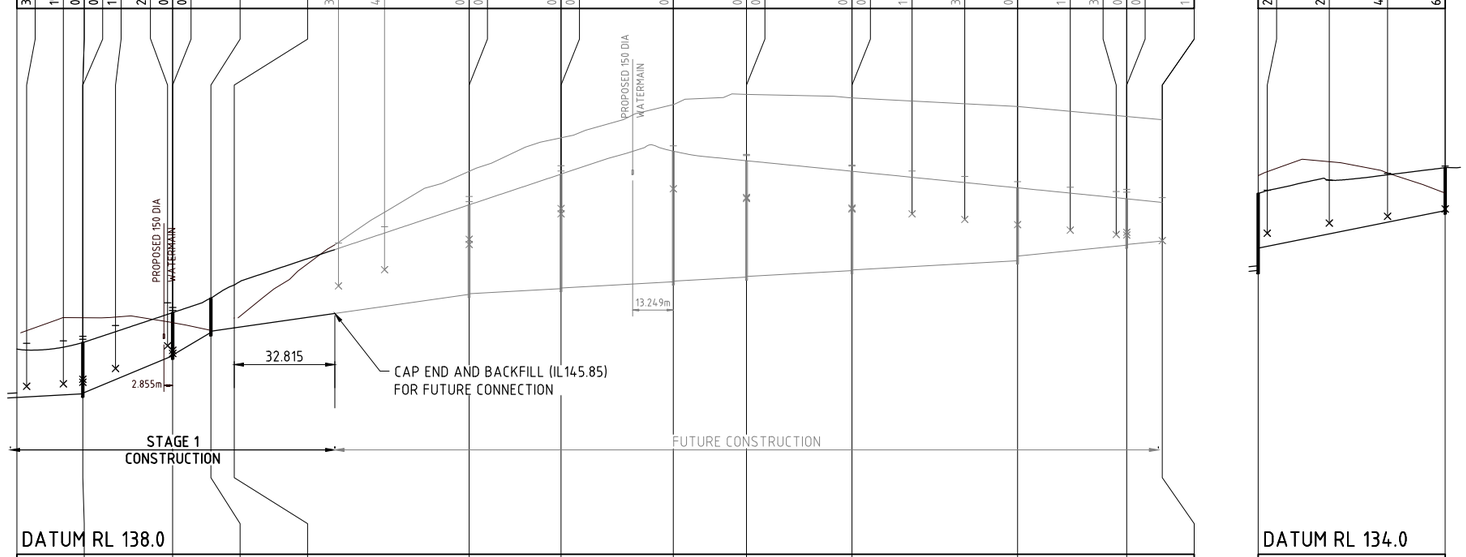
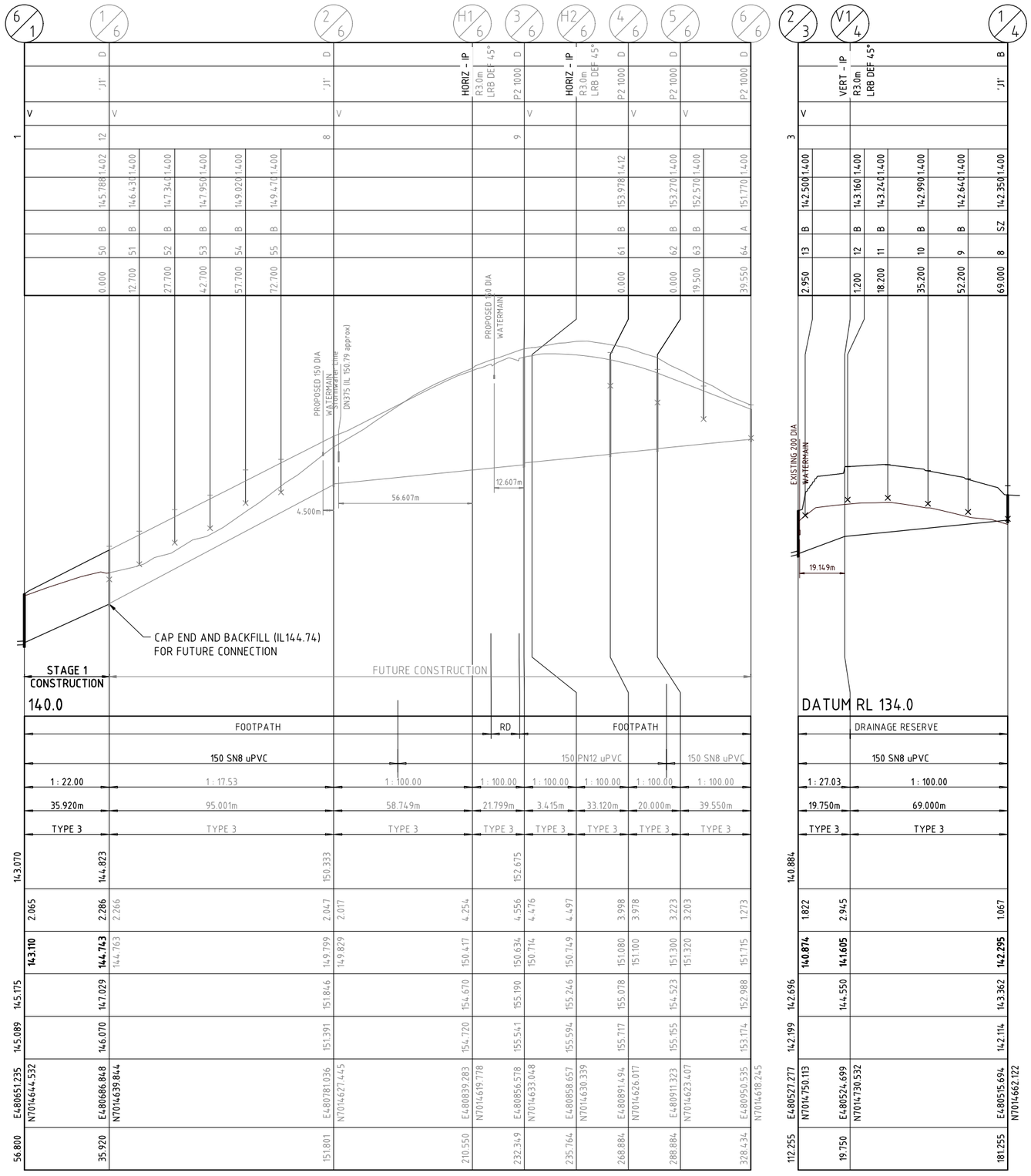
15/06/2020 N:\M2584\WORKING\STAGE_1\DESIGN\WORKING DRAWINGS\SEWERAGE SECTIONS

STRUCTURE No.	H4/1	7/1	8/1	9/1	H5/1	10/1	11/1	12/1	13/1	14/1	15/1	16/1	17/1	4/3	1/11
COVER TYPE	HORIZ - IP R3.0m LRB DEF 45°	D	D	D		D	D	D	D	D	D	D			B
STRUCTURE TYPE		P2 1000	P2 1000	'J1'		'J1'	P2 1000	P2 1000	P2 1000	P2 1000	'J1'	'J1'	END		'J1'
DROP TYPE		V	V	V		V	V	V	V	V	V	V		X	
JUNCTION LINE No.								13			7			3	
DEPTH TO HC	1.400	1.400	1.400	1.400	1.400	1.399	1.397	1.400	1.403	1.398	1.397	1.401	1.400	1.400	1.400	1.400	1.400
HC INVERT LEVEL	143.480	143.560	143.610	143.710	144.060	144.800	144.550	144.650	146.750	147.280	148.101	148.273	149.273	149.101	149.920	149.631	149.602	149.293	149.255	149.100	148.920	148.750	148.570	148.430	148.410	148.230	144.470	144.800	145.020	145.260
HC TYPE	B	B	B	B	B	B	A	B	B	B	D	D	D	D	D	D	D	D	D	B	B	B	B	B	B	A	B	B	B	SZ
HC LOT No	23	22	16	17	21	20	18	19	105	104	103	102	100	101	99	98	97	96	95	94	93	92	91	90	112	113	89	4	3	2	1
CH. FROM D/S STRUC.	3.171	15.171	0.000	0.000	10.645	27.645	0.000	0.000	34.015	49.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.600	36.800	0.000	17.200	32.200	0.000	0.000	11.576	2.950	23.210	42.210	61.010



| PROP. DESCRIPTION | | FOOTPATH | | | | | | | |



STRUCTURES

'J'1	MAINTENANCE SHAFT
P2/P3	MAINTENANCE HOLE
LRB	LONG RADIUS BEND (3.0m RADIUS)
Y JCT	45° JUNCTION

PIPES

PN12	uPVC SERIES 12 R.R.J.
SN8	uPVC R.R.J.

HOUSE CONNECTIONS

A	STANDARD CONNECTION
B	SLOPED CONNECTION
SV	'J'1 MAINTENANCE SHAFT WITH VERTICAL RISER
SZ	'J'1 MAINTENANCE SHAFT WITH AT BASE CONNECTION

FOR STANDARD DRAWINGS AND NOTES REFER M2438E2 S02

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.500m UNLESS OTHERWISE STATED. REFER SEQ-SEW-1104-1 TO SEQ-SEW-1105-1

THE CONSTRUCTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPENCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PIPE LAYING.

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LIVE WORKS MUST BE PERFORMED UNDER UNITYWATER SUPERVISION. REFER DRAWING M2584E_1 S07, UNITYWATER AND CONSTRUCTOR LIVE SEWER WORKS INSTRUCTION AND TABLE.

FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
TELEPHONE: 5450 3900

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NORTH:

SCALE: Horizontal 1:1000 Vertical 1:100 A1 — THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE (A1) 1:100 (A1) 1:1000 Metres

DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	CDV
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:

SEWERAGE LONGITUDINAL SECTIONS LINES 6 & 4

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:

PROJECT:	PLAN:	ISSUE:
M2584E_1	S10	B

LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL

COUNCIL REF: DA/38032/2019/V3RL

FILE NAME: SEWERAGE SECTIONS.DWG

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SUNSHINE COAST
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P 07 5450 3900 W www.jfp.com.au
JFP URBAN CONSULTANTS PTY. LTD. A.C.N. 050 414 045
PLANNERS
URBAN DESIGNERS
SURVEYORS
ENGINEERS
LANDSCAPE ARCHITECTS

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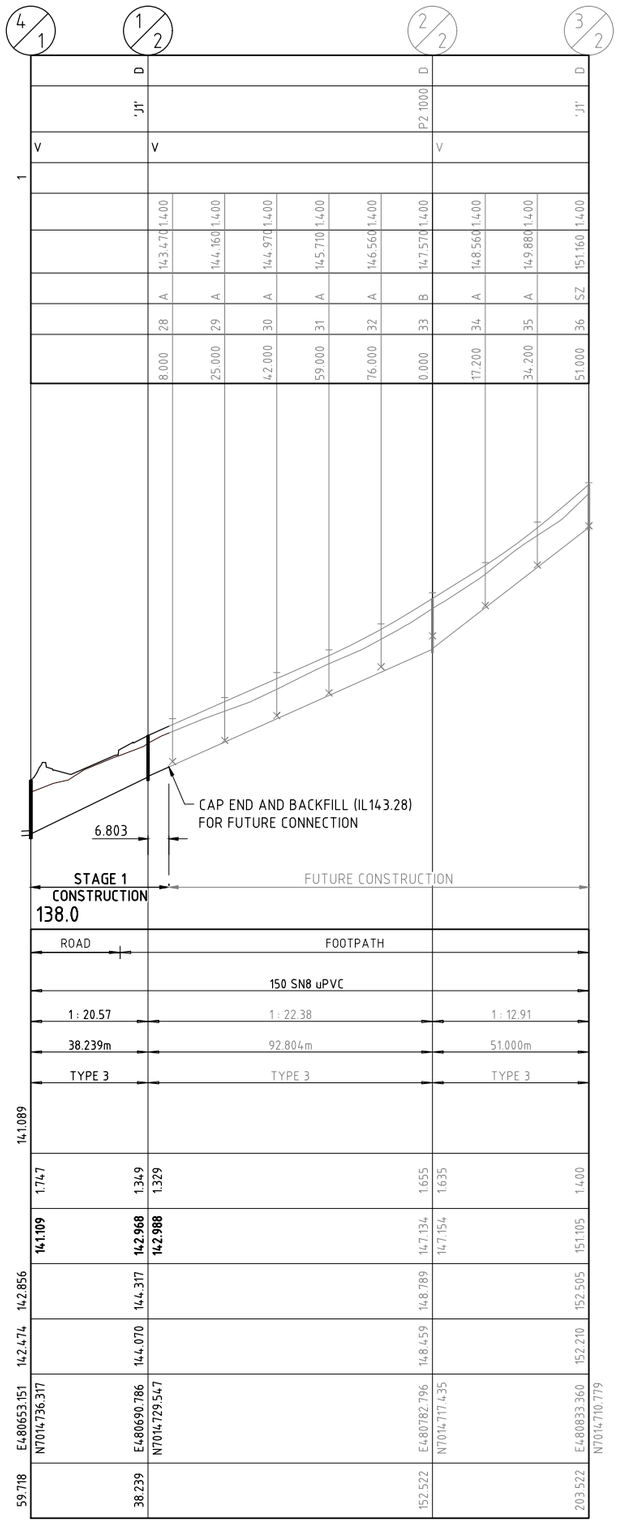
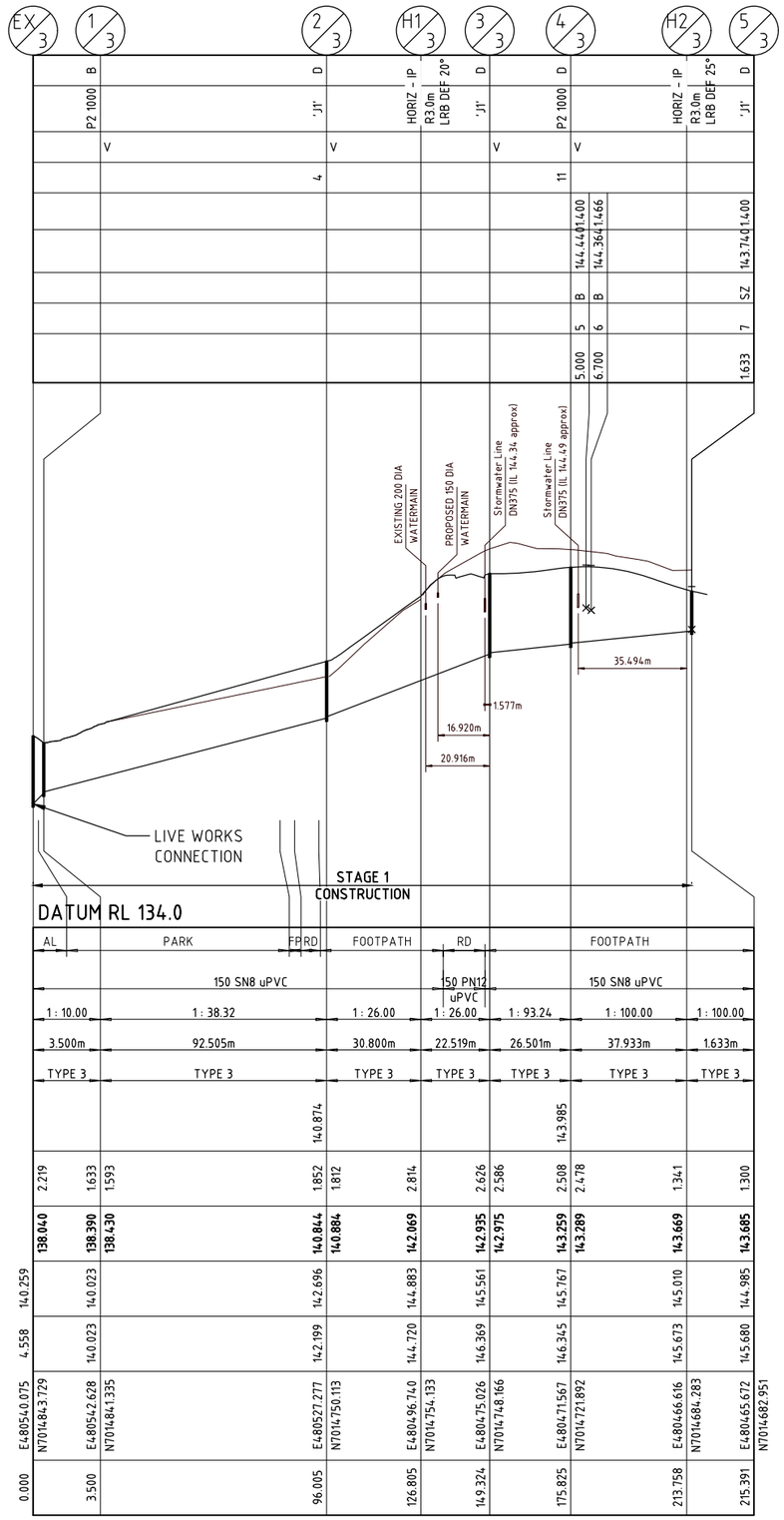
15/06/2020 N:\M2584\ADSTAGE_1\DESIGN\WORKING DRAWINGS\SEWERAGE SECTIONS





STRUCTURES

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P2/P3	MAINTENANCE HOLE
LRB	LONG RADIUS BEND (3.0m RADIUS)
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SV	'J'1 MAINTENANCE SHAFT WITH VERTICAL RISER
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FOR DETAILS AND FURTHER NOTES REFER TO DWG No. M2584E_1 S07

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
TELEPHONE: 5450 3900

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URBAN DESIGNERS
SURVEYORS
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LANDSCAPE ARCHITECTS

NORTH:

SCALE:
Horizontal 1:1000
Vertical 1:100
A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
(A1) 1:100 0 1 2 3 4 5 10 Metres
(A1) 1:1000 0 10 20 30 40 50 100
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

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FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
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A.FRASER RPEQ 5691
J.PAPPAS RPEQ 6086
S.MARSH RPEQ 8068

DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	CDV
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
SEWERAGE LONGITUDINAL SECTIONS LINES 2 & 3
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: S11 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: SEWERAGE SECTIONS.DWG

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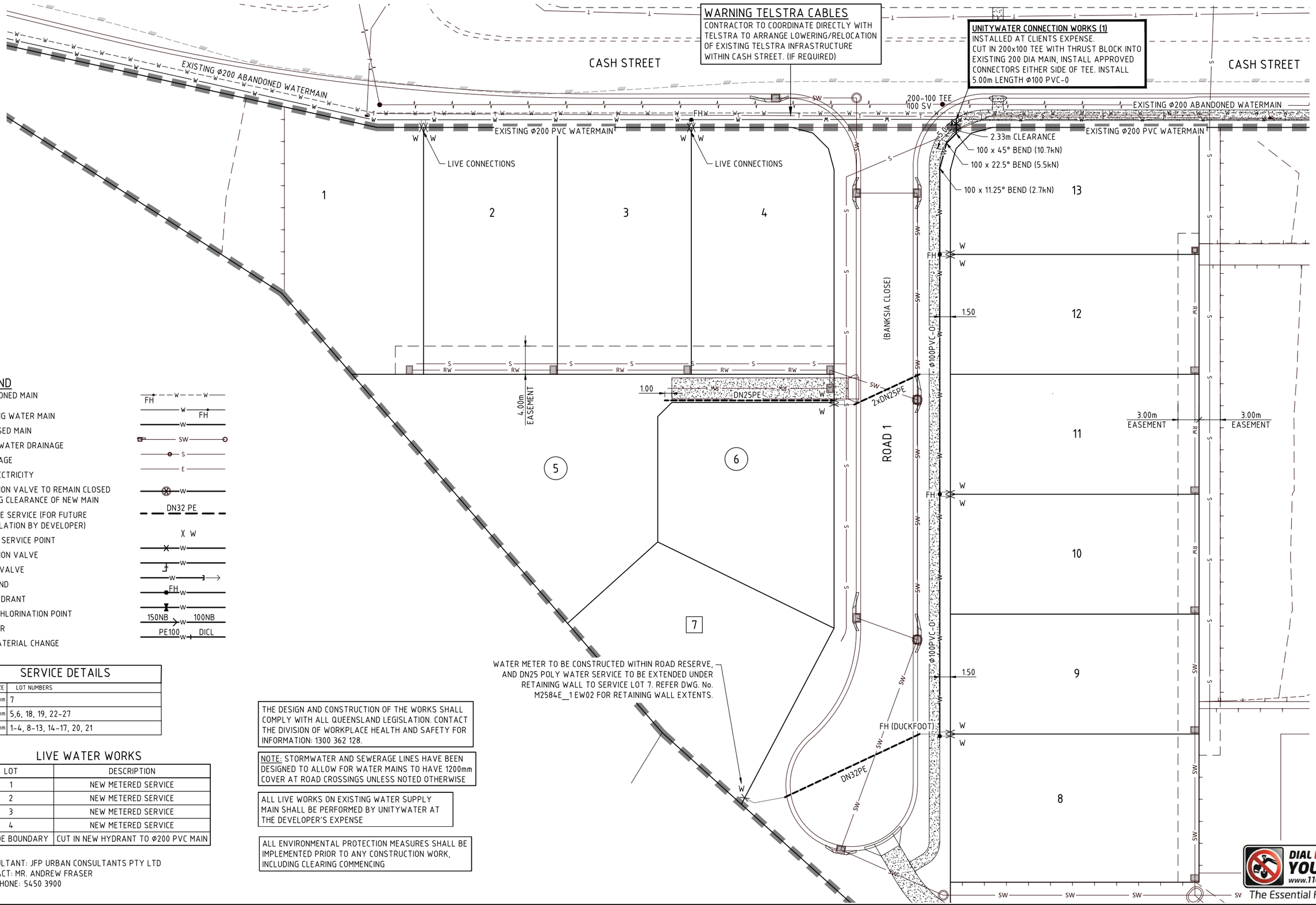
15/06/2020 N:\M2584E\WORKING\DRAWINGS\SEWERAGE SECTIONS



LEGEND

- ABANDONED MAIN
- EXISTING WATER MAIN
- PROPOSED MAIN
- STORMWATER DRAINAGE
- SEWERAGE
- U.G. ELECTRICITY
- ISOLATION VALVE TO REMAIN CLOSED PENDING CLEARANCE OF NEW MAIN
- PRIVATE SERVICE (FOR FUTURE INSTALLATION BY DEVELOPER)
- WATER SERVICE POINT
- ISOLATION VALVE
- SCOUR VALVE
- DEAD END
- FIRE HYDRANT
- TEST/CHLORINATION POINT
- REDUCER
- PIPE MATERIAL CHANGE

SERVICE DETAILS

No.	SIZE	LOT NUMBERS
16	32mm	7
16	25mm	5,6, 18, 19, 22-27
16	20mm	1-4, 8-13, 14-17, 20, 21

LIVE WATER WORKS

LOT	DESCRIPTION
1	NEW METERED SERVICE
2	NEW METERED SERVICE
3	NEW METERED SERVICE
4	NEW METERED SERVICE
3/4 SIDE BOUNDARY	CUT IN NEW HYDRANT TO Ø200 PVC MAIN

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
TELEPHONE: 5450 3900

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

NOTE: STORMWATER AND SEWERAGE LINES HAVE BEEN DESIGNED TO ALLOW FOR WATER MAINS TO HAVE 1200mm COVER AT ROAD CROSSINGS UNLESS NOTED OTHERWISE

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JFP URBAN CONSULTANTS PTY. LTD. A.C.N. 050 414 045
PLANNERS
URBAN DESIGNERS
SURVEYORS
ENGINEERS
LANDSCAPE ARCHITECTS

NORTH: N

SCALE: 1:250 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres
(A3) 1:500
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

APPROVED
FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
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A.FRASER RPEQ 5691
J.PAPPAS RPEQ 6086
S.MARSH RPEQ 8068

DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	CDV
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
WATER RETICULATION LAYOUT PLAN 1 SHEET 1 of 3
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR
DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: W01 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: WATER.DWG

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15/06/2020 N:\M2584\W01\STAGE_1\M2584W01STAGE_1\DESIGN\DRAWING\WATER

LEGEND

- ABANDONED MAIN
- EXISTING WATER MAIN
- PROPOSED MAIN
- STORMWATER DRAINAGE
- SEWERAGE
- U.G. ELECTRICITY
- ISOLATION VALVE TO REMAIN CLOSED PENDING CLEARANCE OF NEW MAIN
- PRIVATE SERVICE (FOR FUTURE INSTALLATION BY DEVELOPER)
- WATER SERVICE POINT
- ISOLATION VALVE
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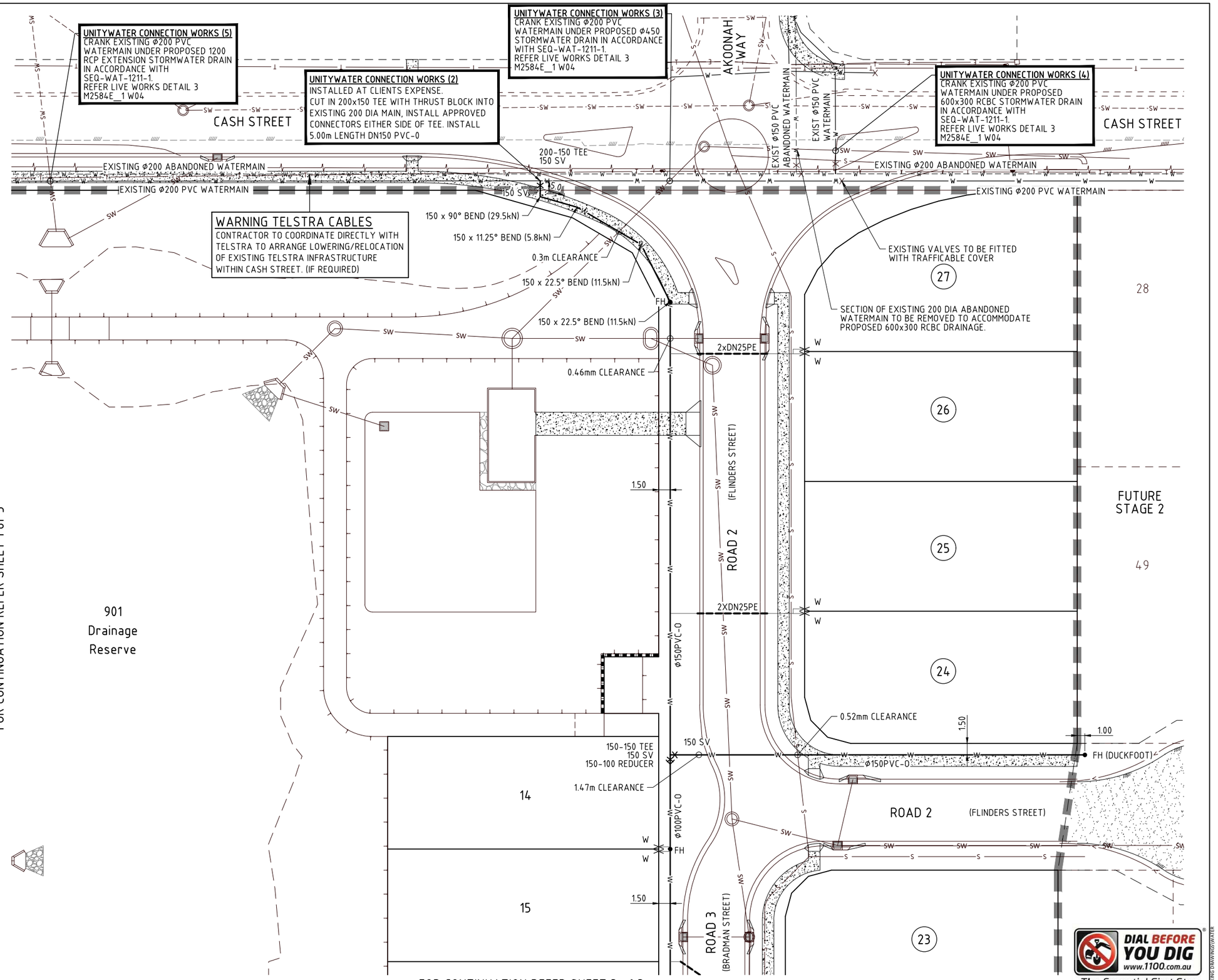

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
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TELEPHONE: 5450 3900

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ENGINEERS
LANDSCAPE ARCHITECTS

NORTH: N

SCALE: 1:250 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres (A3) 1:500
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

APPROVED
FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
☐ T.McKINNEY RPEQ 5087 ☑ A.FRASER RPEQ 5691 ☐ I.PAPPAS RPEQ 6086 ☐ S.MARSH RPEQ 8068 ☐

DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	CDV
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
WATER RETICULATION LAYOUT PLAN 2 SHEET 2 of 3
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR
DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: W02 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: WATER.DWG

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15/06/2020 N:\M2584E\CAD\STAGE_1\DFC-CDV\WORKING DRAWINGS\WATER

FOR CONTINUATION REFER SHEET 2 of 3

LEGEND

- ABANDONED MAIN
- EXISTING WATER MAIN
- PROPOSED MAIN
- STORMWATER DRAINAGE
- SEWERAGE
- U.G. ELECTRICITY
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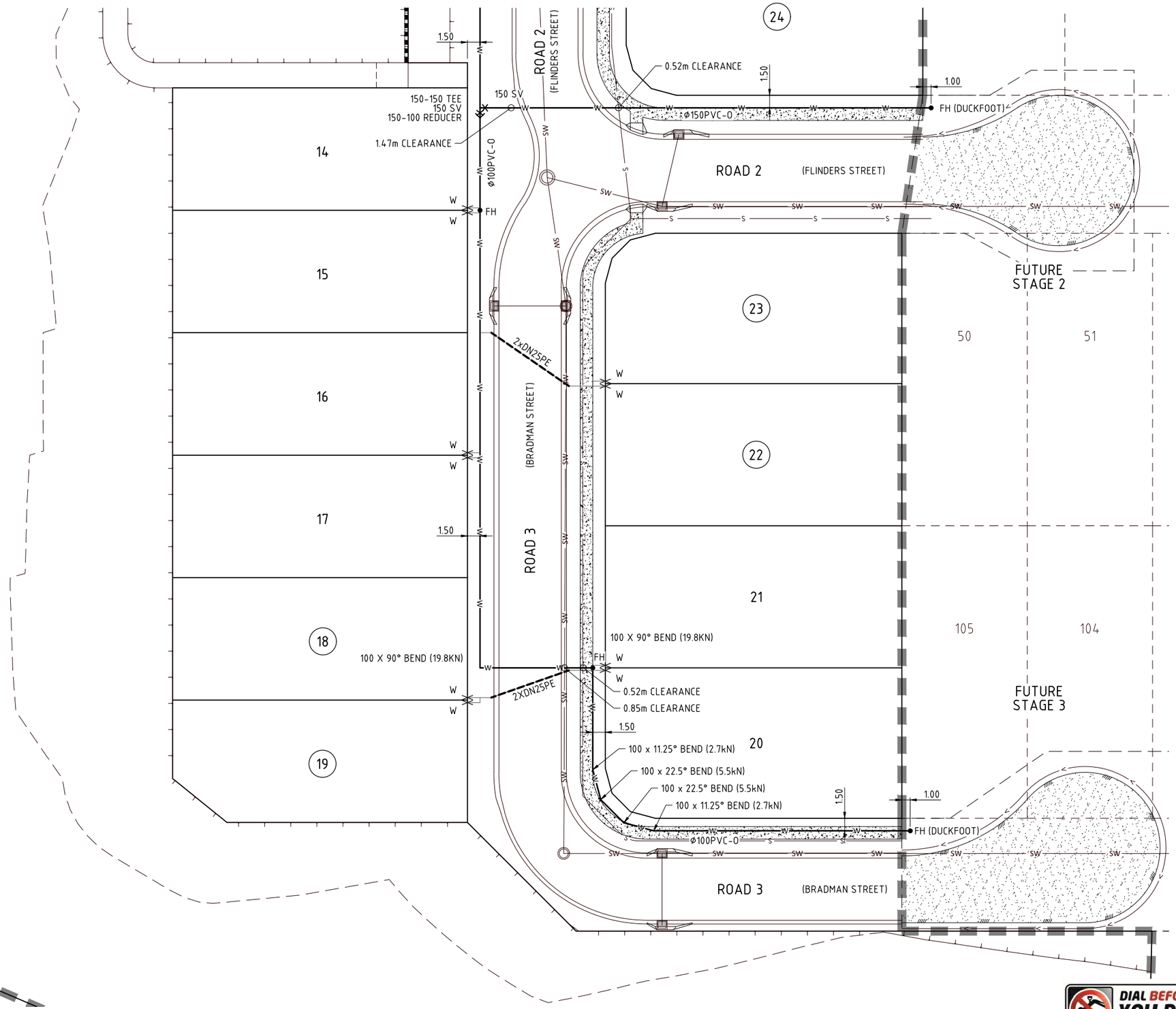
No.	SIZE	LOT NUMBERS
16	32mm	7
16	25mm	5,6, 18, 19, 22-27
16	20mm	1-4, 8-13, 14-17, 20, 21

LIVE WATER WORKS

LOT	DESCRIPTION
1	NEW METERED SERVICE
2	NEW METERED SERVICE
3	NEW METERED SERVICE
4	NEW METERED SERVICE
3/4 SIDE BOUNDARY	CUT IN NEW HYDRANT TO Ø200 PVC MAIN

FOR CONTINUATION REFER SHEET 1 of 3



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LANDSCAPE ARCHITECTS

NORTH: N

SCALE: 1:250 A1 — THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE (A1) 1:250 (A3) 1:500 — 0 2.5 5 7.5 10 12.5 25 Metres

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DESIGNED	CDV			
DRAWN	WN	B	RESPONSE TO RFI DATED 2020/05/26	15/06/20 CDV
CHECKED	ADF	A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20 WN
DATUM: AHD		ISSUE:	DETAILS:	DATE: INIT:

TITLE:

WATER RETICULATION LAYOUT PLAN 3 SHEET 3 of 3

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: W03 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: WATER.DWG

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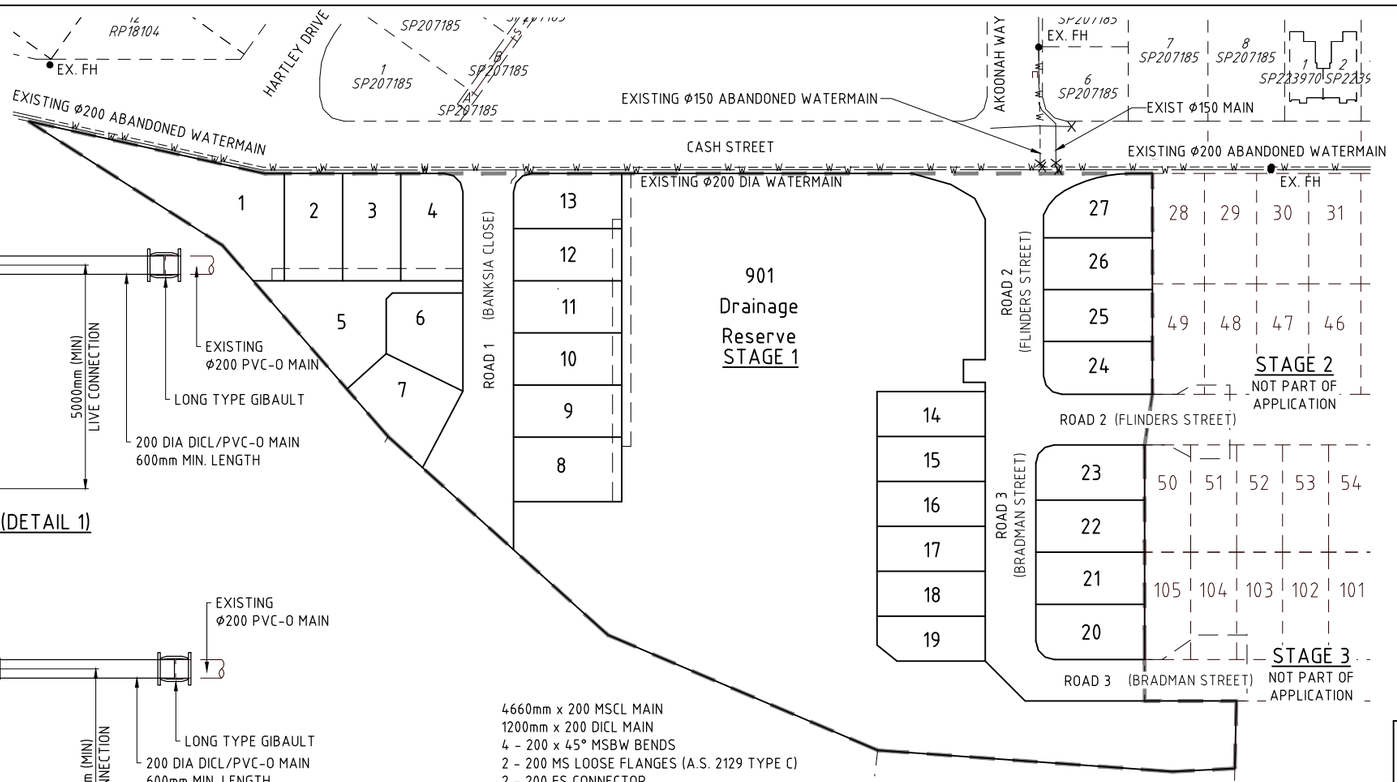
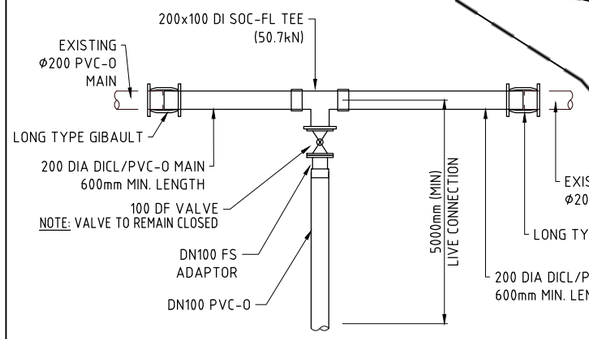
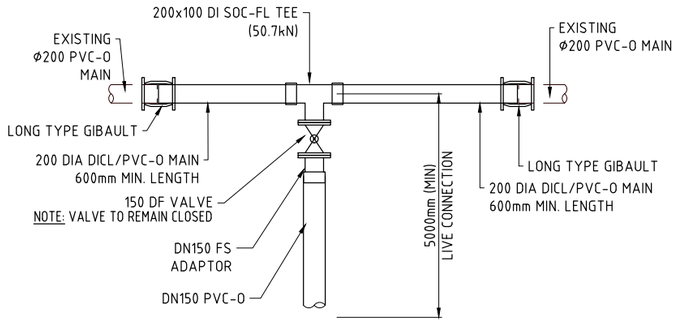
15/06/2020 N:\M2584E\DWG\STAGE_1\DWG\WORKING DRAWINGS\WATER



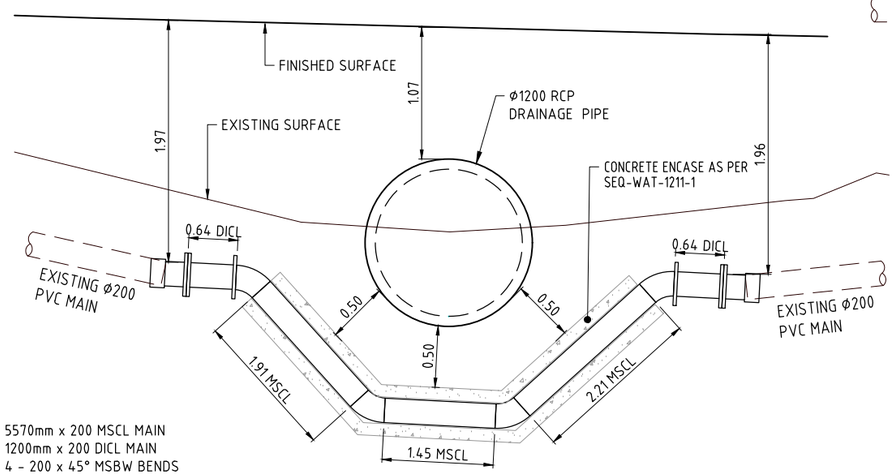
LOCALITY PLAN
SCALE 1:1000



LIVE CONNECTION (DETAIL 1)
SCALE 1 : 25



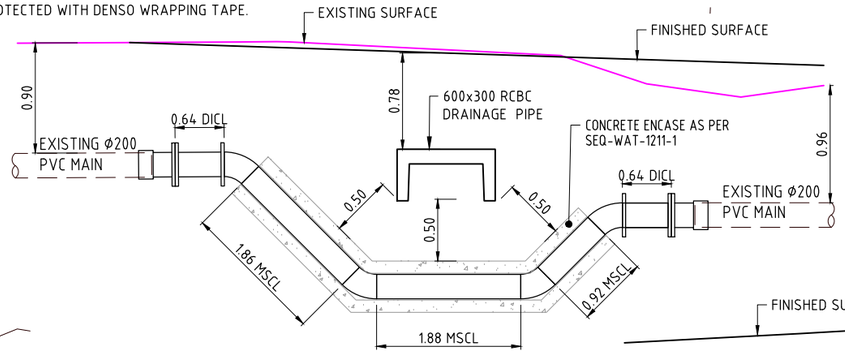
LIVE CONNECTION (DETAIL 2)
SCALE 1 : 25



5570mm x 200 MSCL MAIN
1200mm x 200 DICL MAIN
4 - 200 x 45° MSBW BENDS
2 - 200 MS LOOSE FLANGES (A.S. 2129 TYPE C)
2 - 200 FS CONNECTOR
MILD STEEL PIPE TO BE SINTAKOTED.
ALL FLANGES AND WELDED JOINTS TO BE PROTECTED WITH DENSO WRAPPING TAPE.

LIVE CONNECTION (DETAIL 5)
(IF REQUIRED)
SCALE 1 : 25

4660mm x 200 MSCL MAIN
1200mm x 200 DICL MAIN
4 - 200 x 45° MSBW BENDS
2 - 200 MS LOOSE FLANGES (A.S. 2129 TYPE C)
2 - 200 FS CONNECTOR
MILD STEEL PIPE TO BE SINTAKOTED.
ALL FLANGES AND WELDED JOINTS TO BE PROTECTED WITH DENSO WRAPPING TAPE.

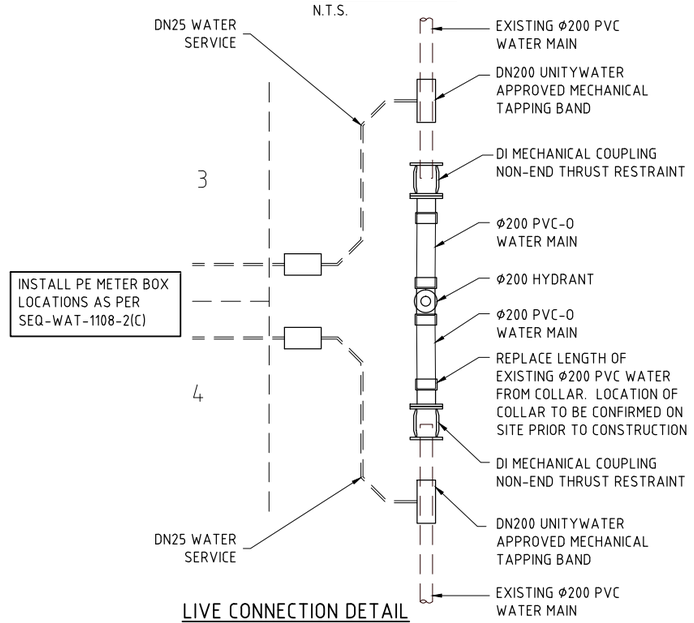


LIVE CONNECTION (DETAIL 4)
SCALE 1 : 25

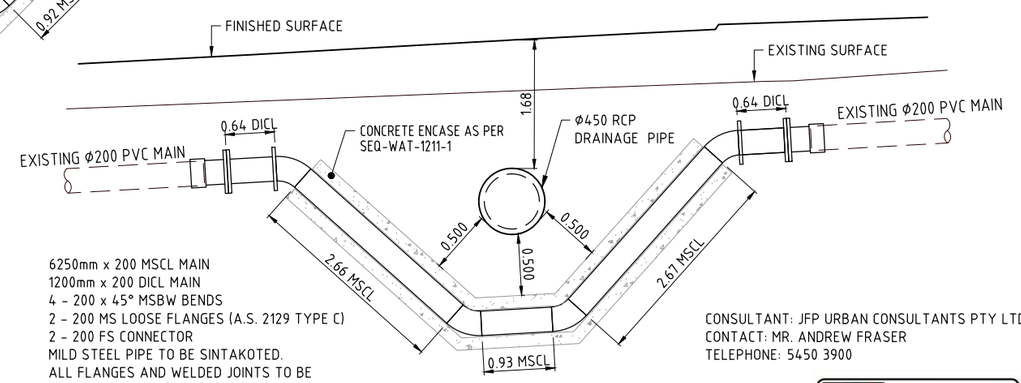
ALL LIVE WORKS ON EXISTING WATER SUPPLY MAIN SHALL BE PERFORMED BY UNITYWATER AT THE DEVELOPER'S EXPENSE

THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION: 1300 362 128.

REGIONAL PLAN
N.T.S.



LIVE CONNECTION DETAIL
SCALE 1:25



6250mm x 200 MSCL MAIN
1200mm x 200 DICL MAIN
4 - 200 x 45° MSBW BENDS
2 - 200 MS LOOSE FLANGES (A.S. 2129 TYPE C)
2 - 200 FS CONNECTOR
MILD STEEL PIPE TO BE SINTAKOTED.
ALL FLANGES AND WELDED JOINTS TO BE PROTECTED WITH DENSO WRAPPING TAPE.

LIVE CONNECTION (DETAIL 3)
SCALE 1 : 25

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD
CONTACT: MR. ANDREW FRASER
TELEPHONE: 5450 3900

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NORTH: N

SCALE: 1:1000 A1
THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE
0 10 20 30 40 50 (A1) 1:1000 100 Metres
(A3) 1:2000
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

APPROVED
FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD
☐ T.McKINNEY RPEQ 5087 ☑ A.FRASER RPEQ 5691 ☐ J.PAPPAS RPEQ 6086
☐ S.MARSH RPEQ 8068 ☐

DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
B	RESPONSE TO RFI DATED 2020/05/26	15/06/20	BJ
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:
WATER RETICULATION DETAILS PLAN
DFC (PROJECT MANAGEMENT) PTY LTD
'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR
DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: W04 ISSUE: B
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: WATER.DWG

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15/06/2020 N:\M2584E\W04\STAGE_1\DESIGN\WORKING\DRAWING\WATER

WATER RETICULATION NOTES

1. ALL WORKS AND MATERIALS MUST BE IN ACCORDANCE WITH CURRENT UNITYWATER SPECIFICATIONS:

   WATER SUPPLY CODE OF AUSTRALIA (WSA 03-2011 V3.1)

   SEQ SERVICE PROVIDERS EDITION VERSION 1.3 (AUGUST 2019)

   SEQ WS&S D&C CODE STANDARD DRAWINGS

   SEQ WS&S D&C CODE CIVIL IPAM LIST

2. UNLESS NOTED OTHERWISE, WATER MAINS SHALL BE oPVC PN16, FITTINGS TO BE DI FBE PN16.

3. INSTALLATION OF PIPES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING:
   - PVC PIPES SHALL BE CUT AND LAID IN ACCORDANCE WITH PVC MANUFACTURERS REQUIREMENTS.
   - DUCTILE IRON OR CAST IRON SPIGOTS SHALL NOT BE JOINED TO PVC SOCKETS.
   - DICL PIPES SHALL NOT BE CUT WITHIN 1.5m OF THE SOCKET AND IN GENERAL THE MINIMUM LENGTH OF DICL PIPE SHALL BE 0.6m.
   - FOR oPVC PIPE, MINOR DEFLECTION MAY BE ACHIEVED BY CUMULATIVE DEFLECTIONS AT THE JOINT OF ELASTOMERIC RING SEAL JOINTED PIPES. LIMITS OF DEFLECTION TO BE IN ACCORDANCE WITH PIPE MANUFACTURER. TYPICAL DEFLECTION 5° FOR DN150 & DN200, 4° FOR DN200 & DN225, AND 3° FOR DN225 & DN300.
   - FBE COATED FLANGES SHALL BE JOINED BY GRADE 316 STAINLESS STEEL BOLTS, NUTS AND WASHERS. IN THIS CONFIGURATION, FLANGES DO NOT NEED TO HAVE CORROSION PROTECTION WRAPPING.
   - CURVING OF PVC PIPES IS NOT PERMITTED.
   - DISTANCE BETWEEN SOCKETED FITTINGS SHALL BE SEPARATED BY A STRAIGHT LENGTH OF MINIMUM LENGTH OF 600mm.
   - EMBEDMENT MATERIAL FOR WATER MAINS SHALL BE 5 OR 7mm NOMINAL SINGLE SIZED AGGREGATE AS PER WSA ps-351, 10mm NOMINAL SINGLE SIZED RECYCLED CONCRETE AGGREGATE AS PER WSA PS-366 OR BEDDING SAND AS PER TABLE G3 OF AS/NZS 2566.2.
   - WHERE THE WATER MAIN CROSSES OTHER SERVICES, THE SEPARATION SHALL BE FILLED WITH EMBEDMENT MATERIAL AND COMPACTED.

4. DUCTILE IRON FITTINGS SHALL BE PN16 COATED WITH A FUSION BONDED POLYMERIC COATING IN ACCORDANCE WITH AS/NZS 4158. ALL DUCTILE IRON OR CAST IRON FITTINGS SHALL BE INSTALLED IN A POLYETHYLENE SLEEVE, INCLUDING FITTINGS WITH FUSION BONDED COATINGS. PARTICULAR FITTINGS SUCH AS SLUICE VALVES, HYDRANTS AND PRE-TAPPED PROPERTY SERVICE FITTINGS SHALL BE SUPPLIED WITH AN INTERNAL AND EXTERNAL FUSION BONDED POLYMERIC COATING IN ACCORDANCE WITH AS/NZS 4158.

5. PIPES SHALL BE LAID IN TYPE C EMBEDMENT IN ACCORDANCE WITH STD. DWGS. SEQ-WAT-1200-2C AND 1201-1A.

6. ALL EXISTING ROAD CROSSINGS WHERE NEW SEWERS ARE TO BE LAID SHALL BE TUNNEL BORED (U.N.O.) IN ACCORDANCE WITH STD DWG SEQ-SEW-1402-1A & 1403-1B. IF OPEN TRENCH EXCAVATION IS SPECIFIED, TRENCHES AND BEDDING UNDER OR ALONG ROADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. SEQ-WAT-1204-1B. DETECTABLE MARKER TAPE TO BE INSTALLED ABOVE ALL NON-METALLIC PIPES. TYPE L, M, K AND N TO BE ADOPTED UNDER EXISTING ROADS. TYPE L TO BE ADOPTED FOR NEW ROADS WITHOUT LEAN MIX LAYER. ROAD BACKFILL TO BE IN ACCORDANCE WITH STD DWG RS-170F.

7. STANDARD WATER MAIN ALIGNMENT:-
   FRONT: 1.5m OFFSET FROM PROPERTY BOUNDARY (IN VERGE)

8. MINIMUM PIPE COVERS DEPTHS SHALL BE AS LISTED BELOW:

LOCATION	≤ 200mm NB	> 200mmNB
NON-ROADWAYS	600mm	1000mm
SEALED ROADS	600mm	1000mm
MAJOR ROADWAYS/EMBANKMENT	750mm	1000mm
FREEWAYS	1200mm	1200mm

Partial extract from SEQ WATER SUPPLY CODE V1.3-2019, S7.4.2, TABLE 7.2

   - IN A ROAD CARRIAGEWAY, THE DEPTH OF COVER SHALL BE MEASURED FROM THE ROAD SHOULDER OR LIP OF KERB.
   - THE MAXIMUM DEPTH TO INVERT SHALL NOT EXCEED 1.5M FOR RETICULATION MAINS.

8. THRUST BLOCKS SHALL BE CONSTRUCTED ON ALL BENDS, TEES, VALVES, TAPERS, DEADENDS, DUCKFOOT HYDRANTS, AND TRANSITIONS TO UNRESTRAINED PIPEWORK IN ACCORDANCE WITH STD DWGS SEQ-WAT-1205-1A, 1206-1B AND 1207-1A.

9. PROPERTY SERVICES SHALL BE PE AND CONSTRUCTED IN ACCORDANCE WITH STD. DWG. SERIES SEQ-WAT-1108-1B,1108-2C, 1108-3C.
   - PE WATER SERVICES SHALL HAVE DETECTABLE MARKING TAPE PLACED ABOVE THE PIPE EMBEDMENT.
   - FOR PE SYSTEMS, WATER SERVICES SHALL BE CONSTRUCTED TO THE NEW MAINS WITH ELECTROFUSION FITTINGS ONLY. FOR RENEWALS, EITHER ELECTROFUSION OR MECHANICAL TAPPING FITTINGS CAN BE USED.
   - WATER SERVICES UP TO DN63 PE LOCATED UNDER EXISTING OR FUTURE ROADWAYS, CONCRETE OR PAVED DRIVEWAYS, FOOTPATHS, BIKEWAYS OR OTHER HARD STAND AREAS SHALL BE INSTALLED IN A SOLVENT WELDED DN100 PVC CONDUIT. CONDUITS SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ELECTRICAL CABLES.
   - MINIMUM COVER TO WATER SERVICES IN THE FOOTWAY SHALL BE 300MM AND UNDER ROAD WAYS 600MM MEASURED FROM THE LIP OF KERB.

10. STOP VALVES AND HYDRANTS, INSPECTION BOXES, MARGIN SETS, AND MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWGS. SEQ-WAT-1300-1C, 1300-2B, 1301-1C, 1302-1C, 1303-1B,1303-2B, 1304-1B, 1305-1B AND 1306-1C
    - STOP VALVES SHALL BE RESILIENT SEATED GATE VALVES
    - FOR DICL AND PVC PIPES, STOP VALVES SHALL BE DOUBLE SOCKET TYPE ONLINE, EXCEPT WHERE THE VALVE IS CONNECTED TO A FLANGED BRANCH IN WHICH CASE THE VALVE SHALL BE OF THE FLANGE / SOCKET TYPE
    - HYDRANTS SHALL BE SWAB TYPE. 100mm FLANGES, 100mm RISERS AND SPRING HEADS
    - HYDRANT SURROUNDS TO BE LEFT 30-50mm PROUD OF TOPSOIL, 10-15mm PROUD OF TURF, OR FLUSH WITH CONCRETE SURFACE
    - PAINT VALVE BOXES WHITE AND HYDRANT BOXES YELLOW, INCORPORATING GLASS REFLECTIVE BEADING. DO NOT PAINT CONCRETE SURROUNDS
    - RRPMS FOR POTABLE WATER SUPPLY (VALVES YELLOW AND HYDRANTS BLUE) WITH DIRECTIONAL ARROW TO BE INSTALLED ON THE CENTRE LINE OF ALL ROADS UNLESS LINE MARKED. ALTERNATIVELY, RRPMS MINUS DIRECTIONAL ARROW ON THE VALVE / HYDRANT SIDE OF THE MARKER WHICH IS TO BE LOCATED ON THE CENTRE LINE OF THE ROAD UNLESS LINE MARKED
    - WATER SERVICE POINTS SHARING A BOUNDARY CORNER WITH AN ELECTRICAL PILLAR SHALL BE A MINIMUM 1M CLEAR OF THE ELECTRICAL PILLAR AND ASSOCIATED CONDUITS.
    - HYDRANT MARKER POSTS ARE ONLY REQUIRED IN RURAL RESIDENTIAL AREAS.
    - FLANGES TO BE CLASS 16 AND BE IN ACCORDANCE WITH SEQ-WAT-1313/1A. GRUB SCREWS OR SIMILAR TYPE FLANGES ARE NOT ACCEPTABLE IN THE WATER MAIN CONSTRUCTION

11. WHERE THE GRADE OF A WATER MAIN IS EQUAL TO OR GREATER THAN 5%, BULKHEADS OR TRENCH STOPS SHALL BE INSTALLED IN ACCORDANCE WITH STD DWGS 1209-1A & 1210-1A

12. CONNECTION OF NEW WATER MAINS TO THE EXISTING WATER RETICULATION SYSTEM SHALL BE COMPLETED BY UNITYWATER AT THE DEVELOPER'S COST.

13. INSPECTOR MUST BE NOTIFIED BY PHONE AND GIVEN THE OPPORTUNITY TO WITNESS THE FOLLOWING WHERE APPLICABLE :-
    - EXPOSE EXISTING WATER MAIN AT CONNECTION POINT PRIOR TO COMMENCEMENT OF LAYING PIPE.ALL UNDER ROAD WPS, TAPPING BANDS AND FITTINGS BEFORE BACKFILLING.
    - ALL CONCRETE THRUST BLOCKS BEFORE POURING CONCRETE.
    - ALL CONCRETE THRUSTER PIPE AND CONDUITS BEFORE BACKFILLING.
    - ALL READYTAT BLOCKS AFTER POURING CONCRETE.
    - ALL WATER SERVICE CONNECTION LINES BEFORE BACKFILLING.
    - WATER PRESSURE TESTS (UNLESS CARRIED OUT BY NATA CERTIFIED TESTER - HOWEVER UNITYWATER INSPECTOR SHALL STILL BE NOTIFIED WHEN TESTING IS TO BE UNDERTAKEN AND MAY CONDUCT RANDOM INSPECTION OF NATA CERTIFIED TESTING).

14. PRIOR TO THE CONNECTION OF THE NEW MAIN TO EXISTING, THE PIPEWORK SHALL BE PRESSURE TESTED
    - WHERE TESTING IS NOT CONDUCTED BY A NATA CERTIFIED TESTING ORGANISATION THE CERTIFYING ENGINEER SHALL BE PRESENT FOR THE TESTING PROCEDURE AND THE UNITYWATER INSPECTOR MUST BE NOTIFIED WITH 3 DAYS PRIOR NOTICE OF THE TEST OCCURRING. (SHALL BE DONE AFTER WATER SERVICES ARE CONNECTED AND ELECTRICAL CONDUITS INSTALLED)ALL DEAD END LINES ARE TO BE TESTED AND CHLORINATED. THIS MAY REQUIRE TEMPORARY HYDRANTS OR TAPPING BANDS. TEMPORARY TAPPING BANDS TO BE CUT OFF WHEN CONNECTION TO LIVE MAIN OCCURS.
    - PRELIMINARY PRESSURISE THE MAINS TO 75% OF THE TEST PRESSURE FOR A MINIMUM OF TWELVE (12) HOURS
    - APPLY TEST PRESSURE (1200kPA) AT THE HIGHEST POINT OF THE WATER MAIN FOR FOUR (4) HOURS
    - IDEALLY THERE SHOULD BE NO PRESSURE LOSS AFTER FOUR (4) HOURS.

15. PRIOR TO THE CONNECTION OF THE NEW MAIN TO THE EXISTING, THE PIPEWORK SHALL BE FLUSHED CHLORINATED IN ACCORDANCE WITH UNITYWATER DOCUMENT PR9032 - PROCEDURE FOR MANAGING WATER QUALITY DURING MAINS COMMISSIONING

16. A WATER METER SUPPLIED AT THE DEVELOPERS COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT.

17. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE WATER RETICULATION STEM

18. TRENCH COMPACTION RESULTS TO BE IN ACCORDANCE WITH AS3798 AND MORETON BAY REGIONAL COUNCIL OPERATIONAL WORKS INSPECTION, MAINTENANCE AND BONDING PROCEDURES PLANNING SCHEME POLICY
    a) COMPACTION TO TRENCH BOTTOM - FIELD DENSITY 1 PER 40m (IF ORDERED)
    b) BACKFILL - FIELD DENSITY 1 PER 40m

19. MINIMUM COMPACTION TO BE IN ACCORDANCE WITH THE FOLLOWING:

MINIMUM COMPACTION OF EMBEDMENT, TRENCH, AND OTHER FILLS

MATERIAL TYPE	MINIMUM VALUE (%)			
	TRAFFICABLE AREAS		NON-TRAFFICABLE AREAS	
	EMBEDMENT	TRENCH	EMBEDMENT	TRENCH
NON-COHESIVE	70 (REFER NOTE BELOW)	70	60	60
COHESIVE	95	95	90	90
NOTE: SINGLE SIZE COARSE AGGREGATES OF SIZES 5, 7, 10 AND 14mm SHALL BE DEEMED "SELF COMPACTING" AND DO NOT REQUIRE COMPACTION TESTING WHEN USED FOR PIPE EMBEDMENT				

FOR ROAD PAVEMENTS THE FOLLOWING COMPACTION SHALL BE ACHIEVED:

- NATURAL SUBGRADE - 100% STANDARD MAXIMUM DRY DENSITY (MDD)
- PAVEMENT UPPER AND LOWER SUB BASE LAYERS - 100% STANDARD MAXIMUM DRY DENSITY (MDD)
- PAVEMENT BASE LAYER - 102% STANDARD MAXIMUM DRY DENSITY (MDD)

20. DURING ANY CONSTRUCTION ACTIVITY, AT LEAST ONE PERSON ON SITE MUST HAVE COMPLETED A PIPE LAYING TRAINING COURSE APPROVED BY THE SUPPLIER AND APPROPRIATE TO THE PIPE LINE UNDER CONSTRUCTION. THE TRAINING COURSE MUST HAVE BEEN COMPLETED WITH IN THE LAST 10 YEARS. DOCUMENTARY EVIDENCE TO BE PROVIDED BY THE CONTRACTOR PRIOR TO COMMENCEMENT

21. AS CONSTRUCTED DRAWINGS, ENGINEERING CERTIFICATION, PRESSURE TEST RESULTS, COMPACTION TEST RESULTS AND ASSOCIATED CONSULTANT'S REPORTS MUST BE DELIVERED AND RECEIVED 7 DAYS PRIOR TO AN ON-MAINTENANCE INSPECTION.

CLEARANCES BETWEEN WATER MAINS AND OTHER UNDERGROUND SERVICES

UTILITY (Existing Services)	Minimum horizontal clearance (mm) New main size NB ≤200 mm	Minimum horizontal clearance (mm) New main size NB >200 mm	Minimum Vertical Clearance mm
WATER MAINS ≤375 mm	300[3]	600	150
WATER MAINS >375 mm	600	600	300
GRAVITY SEWERS ≤DN 300	1000[5]/600	1000[5]/600	500[4]
GRAVITY SEWERS >DN 300	1000[5]/600	1000[5]/600	500[4]
SEWERS - PRESSURE	1000[5]	1000[5]	500
SEWERS - VACUUM	300	600	500
GAS MAINS	300[3]	600	500[4]
TELECOMMUNICATIONS CONDUITS & CABLES	300[3]	600	300
ELECTRICITY CONDUITS & CABLES	500	1000	500[4&7]
STORMWATER DRAINS <300 mm	300[3]	600	150[4]
STORMWATER DRAINS >300 mm	300[3]	600	300[4]
KERBS	150	600[6]	150

FOR NOTES, VARIATIONS TO CLEARANCES AND ACCEPTABLE REASONS SEE TABLE 5.5

Partial extract from SEQ WATER SUPPLY CODE V1.3-2019, S5.12.5.2, TABLE 5.5

ENVIRONMENTAL NOTES

VEGETATION PROTECTION

A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED, THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

A. FILTRATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
C. NO SOIL SHOULD BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.
B. PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED.

SAFETY

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

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SCALE: THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE A1
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DESIGNED	CDV
DRAWN	WN
CHECKED	ADF
DATUM: AHD	

ISSUE:	DETAILS:	DATE:	INIT:
A	ISSUE FOR OPERATIONAL WORKS APPROVAL	24/04/20	WN

TITLE:

WATER RETICULATION NOTES

DFC (PROJECT MANAGEMENT) PTY LTD

'ARCHERS WAY' ESTATE - STAGE 1
AT 22-80 CASH STREET, D'AGUILAR

DENNIS FAMILY CORPORATION

DETAILS:
PROJECT: M2584E_1 PLAN: W05 ISSUE: A
LOCAL AUTHORITY REF: MORETON BAY REGIONAL COUNCIL
COUNCIL REF: DA/38032/2019/V3RL
FILE NAME: WATER.DWG

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15/06/2020 N:\M2584E\DWG\PAGE_SIZES_A3\WORKING DRAWINGS\WATER