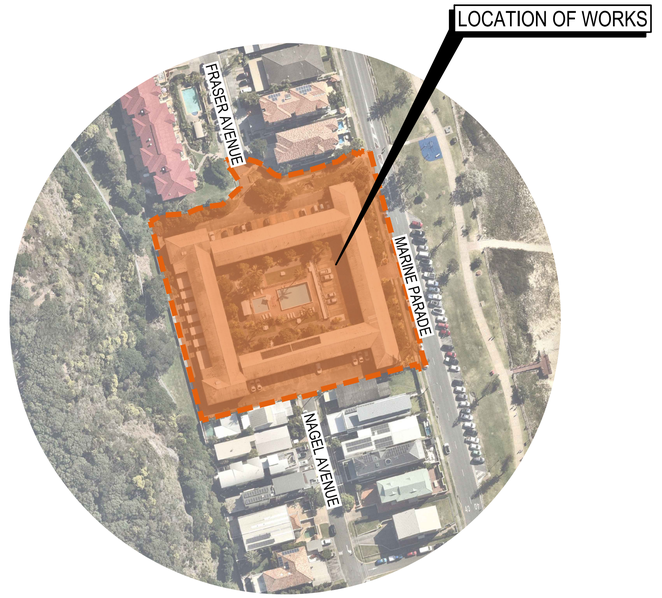
NALU - 122 MARINE PARADE, MIAMI

OPERATIONAL WORKS - CIVIL ENGINEERING, VEHICULAR CROSSOVER
CITY OF GOLD COAST

DRAWING SCHEDULE

DRAWING NUMBER	DESCRIPTION
GENERAL	
NAL-AAP-DD-00-DRG-CI-0001	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
NAL-AAP-DD-00-DRG-CI-0041	ABNORMAL CIVIL RISK REGISTER
NAL-AAP-DD-00-DRG-CI-0051	MANDATORY INSPECTION AND TESTING REGISTER
NAL-AAP-DD-00-DRG-CI-0071	EXISTING SURVEY AND DEMOLITION PLAN
NAL-AAP-DD-00-DRG-CI-0101	GROUND WORKS PLAN
NAL-AAP-DD-00-DRG-CI-0121	SITE SECTIONS SHEET 1
NAL-AAP-DD-00-DRG-CI-0122	SITE SECTIONS SHEET 2
NAL-AAP-DD-00-DRG-CI-0171	EROSION AND SEDIMENT CONTROL PLAN
NAL-AAP-DD-00-DRG-CI-0191	EROSION AND SEDIMENT CONTROL PLAN DETAILS
CIVIL WORKS	
NAL-AAP-DD-00-DRG-CI-0201	CIVIL WORKS PLAN SHEET 1
NAL-AAP-DD-00-DRG-CI-0202	CIVIL WORKS PLAN SHEET 2
NAL-AAP-DD-00-DRG-CI-0203	CIVIL WORKS PLAN SHEET 3
NAL-AAP-DD-00-DRG-CI-0361	CIVIL WORKS DETAIL
NAL-AAP-DD-00-DRG-CI-0441	STORMWATER LONGITUDINAL SECTION
NAL-AAP-DD-00-DRG-CI-0481	STORMWATER DETAILS
STORMWATER MANAGEMENT (NON-OPW)	
NAL-AAP-DD-00-DRG-CI-0491	STORMWATER MANAGEMENT DEVICE COORDINATION QUALITY SHEET 1
NAL-AAP-DD-00-DRG-CI-0492	STORMWATER MANAGEMENT DEVICE COORDINATION QUALITY SHEET 2
UTILITIES	
NAL-AAP-DD-00-DRG-CI-0521	SEWERAGE RETICULATION CONNECTION PLAN
NAL-AAP-DD-00-DRG-CI-0541	EXISTING SEWER LAYOUT AND LONGITUDINAL SECTIONS
NAL-AAP-DD-00-DRG-CI-0621	WATER CONNECTION PLAN AND SECTION
NAL-AAP-DD-00-DRG-CI-0622	MASTER WATER METER DETAIL PLAN AND SECTION



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Issue	Description	DR	CH	VE	Date
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales

0 25 50 75 100 125m

1 : 1250

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE

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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0001

Issue: 01

Date Plotted: 27 Mar 2026 - 03:04PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0001-CoverSheetAndDrawingList.dwg

HAZARD / RISK ASSESSMENT REGISTER - OPERATIONAL WORKS

PROJECT	NALU
LOCATION	122 MARINE PARADE, MIAMI
PROJECT NUMBER	30304300
PROJECT DESCRIPTION	OPERATIONAL WORKS APPLICATION

A HAZARD is something with the potential to cause harm.
RISK is a combination of the likelihood of the harm occurring and the severity of the harm should it occur.
CONTROLS are measures to eliminate or reduce risk to an acceptable level.
ABNORMAL RISKS are aspects of our project, structure or materials as identified by our design which may present significant hazards that are unusual, not obvious or may be difficult to manage

Risk ID No	Project Phase	Hazard / Risk Description	Risk Manager	Consequence / Likely Harm	Likelihood	Severity	Initial Risk Rating = L x S	Treatment Option Mitigation Action Plan for Avoidance Controls to be Provided	Consequence / Likely Harm	Likelihood	Severity	Residual Risk Rating = L x S	- Adopted Treatment - Reason - By Whom	Comment
1	Design & Construction	Works adjacent to existing services (electricity, optic fibre, water etc) and building structures. / Damage to services, electrocution	Principal Contractor	Existing service is struck / property damage, private property without services, physical injury or death (i.e. electrocution).	2	5	10	- Design considers clearances to mains as required by asset holders and has been approved by asset holders. -The Principal Contractor shall locate all existing services and ensure they are marked and protected appropriately onsite in accordance with the requirements of the respective asset holder and ensure safe work method statements are undertaken and approved by any asset holders as required. -where adjoining buildings undertake necessary delapidation reporting pre and post works and consider construction techniques (i.e. limited vibration adjoining footings etc) to suit structural engineer's requirements	Service is not struck, reduced likelihood.	1	5	5	- Treatment Adopted - Mandatory - Principal Contractor	Refer survey information prepared by Principal's surveyor. Note contractor must coordinate with Prinicpal for any services that must remain online to facilitate ongoing site operations. Temporary arrangements to be organised where shutdown is required.
2	Construction & Maintenance	Traffic and Pedestrians / Collision with traffic or pedestrian during works. Existing site operations will continue during construction.	Principal Contractor	Collision / Injury, death, property damage	3	5	15	Principal Contractor shall implement and maintain a safe work method statement and ensure personal awareness. Appropriate traffic control is to be implemented by the Contractor. All must consider any ongoing operational requirements of the Principal (i.e. keeping site areas operational during certain hours and for certain vehicles).	Reduced likehihood	2	5	10	- Treatment Adopted - Cost effective - Principal Contractor	
3	Construction	Open trench during night / Portions of the services may be constructed using open trench. Private site operators or others may fall into trenchs	Principal Contractor	Falling from heights / Major injury	3	4	12	Trench is backfilled each day before contractor leaves site	Trench is filled and therefore cannot be falled into	1	4	4	- Treatment may be adopted - Cost prohibitive but highly effected at reducing likelihood - Civil Contractor	Contractor to provide preferred management measure in safe work method statement
								Contractor provides man-proof fencing around open trench areas with adequate warning of deep excavation as well as covering open trench with boards.	Adequate warning and protection provided to prevent non-intentional entry.	1	4	4	- Treatment may be adopted - Cost and likelihood reduction effective - Civil Contractor	Note location of infrastructure has considered where practical locating away from working areas.
5	Design & Construction	Retaining wall batters / Fall off top of wall batters	Principal Contractor or / Operator	Falling from heights / major injury / death	3	5	15	Contractor shall make temporary provision for fencing and barriers during construction works. Site operator shall install permanent barriers (e.g. fence, vehicle barrier etc.) to top of wall batters at completion of site works based on operational requirements.	Reduced likelihood	1	5	5	- Treatment Adopted - Required - Principal Contractor / Site Operator	
6	Design & Maintenance	Maintenance of Batters / Fall on batter while using equipment	Principal Contractor or / Operator	Driver of vehicle is injured (i.e. slasher rolls) / Physical injury or death and property damage.	3	5	15	-Mowable batters minimum 1in4, otherwise densly landscaped in acoordance with landscape plans, or turned into retaining wall (see retaining wall risk item) -Landscaping to be low maintenance variety where possible. -Maintenance Entity shall undertake works in accordance with their site specific safe work method statement	Risk reduced in profile of batters. Maintenance works are undertaken in accordance with safe work method statement (e.g. maintenance undertaken on foot rather than vehicle), and maintenance intervals are reduced.	2	3	6	- Treatment Adopted - Cost Effective - Designer / Site Operator	
7	Construction	Stormwater Runoff / Sediment and Erosion of earthworks areas	Principal Contractor	Sedimentation of stormwater infrastructure and creeks as well as erosion of batters / environmental harm, conveyance of stormwater infrastructure comprimised	4	3	12	Principal Contractor shall implement and maintain erosion and sediment control in accordance with current guidelines prior to, during and after construction. Recommend contractor to utilise CPESC consultant.	Erosion and sedimentation is controlled on-site using devices	4	1	4	- Treatment Adopted - Cost effective - Principal Contractor	Arcadis drawings are provided to demonstrate a concept, however do not relfect the contractor's required work phasing and associated calculations.
8	Construction	Overland flow	Principal Contractor	Blocking and / or openings to overland flow paths, potentially causing stormwater ingress to subject site's construction areas and impacts to adjacent properties.	3	5	15	Principal Contractor to monitor weather conditions. Construction works to remain clear of identified overland flow paths unless otherwise necessary, and to be removed from from flow path while site is closed.	Overland flow paths remain clear	1	5	5	- As per treatment option - Prevent stormwater runoff impacts per DA conditions - Principal Contractor	
9	Construction	Connection to existing services	Principal Contractor	Damage to existing infrastructure or injury to person	3	5	15	Live connections are required to municipal sewers and pressure water mains. These present potential risks. Contractor shall seek all relevant approvals from Gold Coast Water (i.e. connection approvals, safe work method statements etc)	As identified but lesser chance	1	5	5	- As per treatment option - Statutory process - Necessary for safety - Principal / Contractor	Arcadis drawings are provided to demonstrate a concept, however do not relfect the contractor's required work phasing and associated calculations.

LIKELIHOOD	SCORE
OCCURRENCE VIRTUALLY INEVITABLE, MAY OCCUR MANY TIMES	5
OCCURRENCE NOT SURPRISING, MAY OCCUR MORE THAN ONCE	4
LIKELY TO OCCUR SOMETIMES	3
UNLIKELY TO OCCUR, THOUGH CONCEIVABLE	2
SO UNLIKELY THAT PROBABILITY IS CLOSE TO ZERO	1

SEVERITY	SCORE
FATALITY	5
MAJOR INJURY	4
SIGNIFICANT INJURY	3
FIRST AID INJURY	2
MINOR INJURY	1

SEVERITY

RISK RATING

5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5

LIKELIHOOD

RISK RATING RESULTS		
15-25	VERY HIGH	THIS ACTIVITY MUST NOT BE UNDERTAKEN, OR SHOULD BE STOPPED, UNTIL ADDITIONAL MEASURES HAVE BEEN PUT IN PLACE TO REDUCE THE RISK
8-12	HIGH	ALL REASONABLY PRACTICABLE CONTROL MEASURES MUST BE PUT IN PLACE BEFORE THIS TASK MAY PROCEED
3-6	MEDIUM	CONTROL MEASURES MUST BE PUT IN PLACE TO REDUCE THIS RISK UNLESS IT WOULD INVOLVE EXCESSIVE COST FOR LITTLE BENEFIT
1-2	LOW	NO FURTHER ACTION REQUIRED UNLESS BENEFICIAL ACTION CAN BE EASILY UNDERTAKEN

Issue	Description	DR	CH	VE	Date
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

Scales: N/A

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures

Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: ABNORMAL CIVIL RISK REGISTER

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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0041

Issue: 01

100mm on Original

Date Plotted: 27 Mar 2026 - 03:04PM File Name: C:\Users\bw8446\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0041-AbnormalCivilRiskRegister.dwg

INSPECTIONS AND QUALITY ASSURANCE TESTING REGISTER - OPERATIONAL WORKS

PROJECT	NALU
LOCATION	122 MARINE PARADE, MIAMI
PROJECT NUMBER	30304300
PROJECT DESCRIPTION	OPERATIONAL WORKS APPLICATION

QUALITY ASSURANCE AND TESTING DOCUMENTATION REGISTER

No.		Item	Received	Reviewed	Comments
1.0	**Roadworks**				
	1.0	Photos			
	2.0	AC Core Testing (if applicable)			
	3.0	Lean Mix Details (if applicable)			
	3.0	Footpaths			
	4.0	Kerb & Channel			
	5.0	As Constructed Survey			
2.0	**VXO & Concrete Driveways**				
	1.0	Concrete test results			
	2.0	Photos			
	3.0	CoGC Development Compliance Inspection Reports			
	4.0	Adopted Verge Setout			
	5.0	As-Constructed Survey			
3.0	**Stormwater Drainage and Management Devices**				
	1.0	Delivery Dockets/Product Certifications			
	a.	Pipes			
	b.	Pits			
	c.	Grates			
	d.	Lids			
	e.	Manufacturer Precast Structure(s)			
	2.0	Testing Documentation			
	a.	Concrete UCS Testing			
	b.	Compaction Testing			
	c.	Colour CCTV footage and report			
	4.0	Photos			
	5.0	As-Constructed Survey			
4.0	**Sewage Reticulation**				
	1.0	Delivery Dockets/Product Certifications			
	a.	Pipes			
	b.	Maintenance Shafts			
	c.	Lean Mix			
	2.0	Bedding Material			
	a.	PSD Test Results			
	b.	Materials Quality Specifications			
	3.0	Testing Documentation			
	a.	Pipe Pressure Test			
	b.	Vacuum Testing			
	c.	Ovality & Inclination Test Results			
	d.	Trench Compaction Density Test Results			
	e.	Infiltration Report (if applicable)			
	f.	Colour CCTV footage and report			
	4.0	Photos			
	5.0	As-Constructed Survey			
5.0	**Water Reticulation**				
	1.000	Delivery Dockets/Product Certifications			
	a.	Pipes			
	b.	Fittings/Hydrants			
	c.	Hydrant/SV Covers			
	d.	Lean Mix			
	2.0	Bedding Material			
	a.	PSD Test Results			
	b.	Materials Quality Specifications			
	3.0	Testing Documentation			
	a.	Hydrostatic Pressure Test			
	b.	Chlorination Testing			
	c.	Under pressure cut-in (tapped) connections assembly pressure test			
	d.	Trench Compaction Density Test Results			
	4.0	Water Meter Form			
	5.0	Photos			
	6.0	As-Constructed Survey			

MANDATORY INSPECTIONS REGISTER

City Inspections (Arcadis and Council)

No.	Item	Council Department	Date	Comment
1.0	Pre-start inspection	Contributed Assets & Water and Waste		
2.0	Prior to commencing sewerage and/or water reticulation	Contributed Assets & Water and Waste		
3.0	Vehicular crossing pre-pour, including footpath tie ins	Development Compliance		
4.0	Vehicular crossing post-pour	Development Compliance		
5.0	All thrust and anchor blocks	Contributed Assets & Water and Waste		
6.0	Placement of hydrostatic seals on all elements	Contributed Assets & Water and Waste		
7.0	Pre-live connection inspection for sewerage and water reticulation	Contributed Assets & Water and Waste		
8.0	Pre-seal	Contributed Assets		
9.0	Concrete pre-pour inspection for footpath	Contributed Assets		
10.0	Water and sewerage inspection	Contributed Assets & Water and Waste		
11.0	Practical completion (On-Maintenance)	Contributed Assets & Water and Waste		
12.0	Final defects liability (Off-Maintenance)	Contributed Assets & Water and Waste		

Other Inspections (Arcadis)

No.	Item	Council Department	Date	Comment
1.0	Private in Ground Stormwater	N/A		
2.0	Ocean Protect System	N/A		

ALL NOMINATED INSPECTIONS AND QUALITY ASSURANCE DOCUMENTATION MUST BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS, COUNCIL APPROVAL DOCUMENTATION AND CITY PLANNING SCHEME

ALL INSPECTIONS AND TESTING DOCUMENTATION SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL & CONFORMANCE BY CITY REPRESENTATIVE .

Issue	Description				Date
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

Scales: N/A

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures

Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: MANDATORY INSPECTION AND TESTING REGISTER

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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0051

Issue: 01

100mm on Original

Date Plotted: 27 Mar 2026 - 03:05PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0051-MandatoryInspections&TestingRegister.dwg



LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- 5.0 — EXISTING SURFACE CONTOURS
- swd — EXISTING STORMWATER DRAINAGE
- s — EXISTING SEWERAGE RETICULATION
- w — EXISTING WATER RETICULATION
- e — EXISTING UNDERGROUND ELECTRICAL
- oh — EXISTING OVERHEAD ELECTRICAL
- c — EXISTING COMMUNICATIONS
- g — EXISTING GAS
- SERVICE TO BE DECOMMISSIONED
- EXISTING STRUCTURE TO BE DEMOLISHED

SERVICE CONFLICT NOTES

1. THE EXISTING UTILITY SERVICES INFORMATION SHOWN HAS BEEN COMPILED FROM SURVEY INFORMATION SUPPLIED BY THE VARIOUS SERVICE AUTHORITIES.
2. THE INFORMATION IS NOT INTENDED TO PROVIDE THE CONTRACTOR WITH COMPLETE OR ACCURATE INFORMATION CONCERNING THE LOCATION AND EXTENT OF UTILITY SERVICES.
3. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE INCURRED TO EXISTING UTILITY SERVICES OR STRUCTURES AS A RESULT OF THE EXECUTION OF WORK UNDER THE CONTRACT.
4. NO WORK SHALL BE CARRIED OUT WITHIN 5 METRES OF ANY EXISTING SERVICES WITHOUT PRIOR RECORDED CONSULTATION WITH THE RELEVANT AUTHORITY.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND EXTENT OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.
6. ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT AND WHERE RELOCATION IS REQUIRED, REFER SPECIFICATION.

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales

0 5 10 15 20 25m

1 : 250

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: EXISTING SURVEY AND DEMOLITION PLAN

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ABN 76 104 485 289
Tel No: +61 7 5503 4800
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Project Number: 30304300

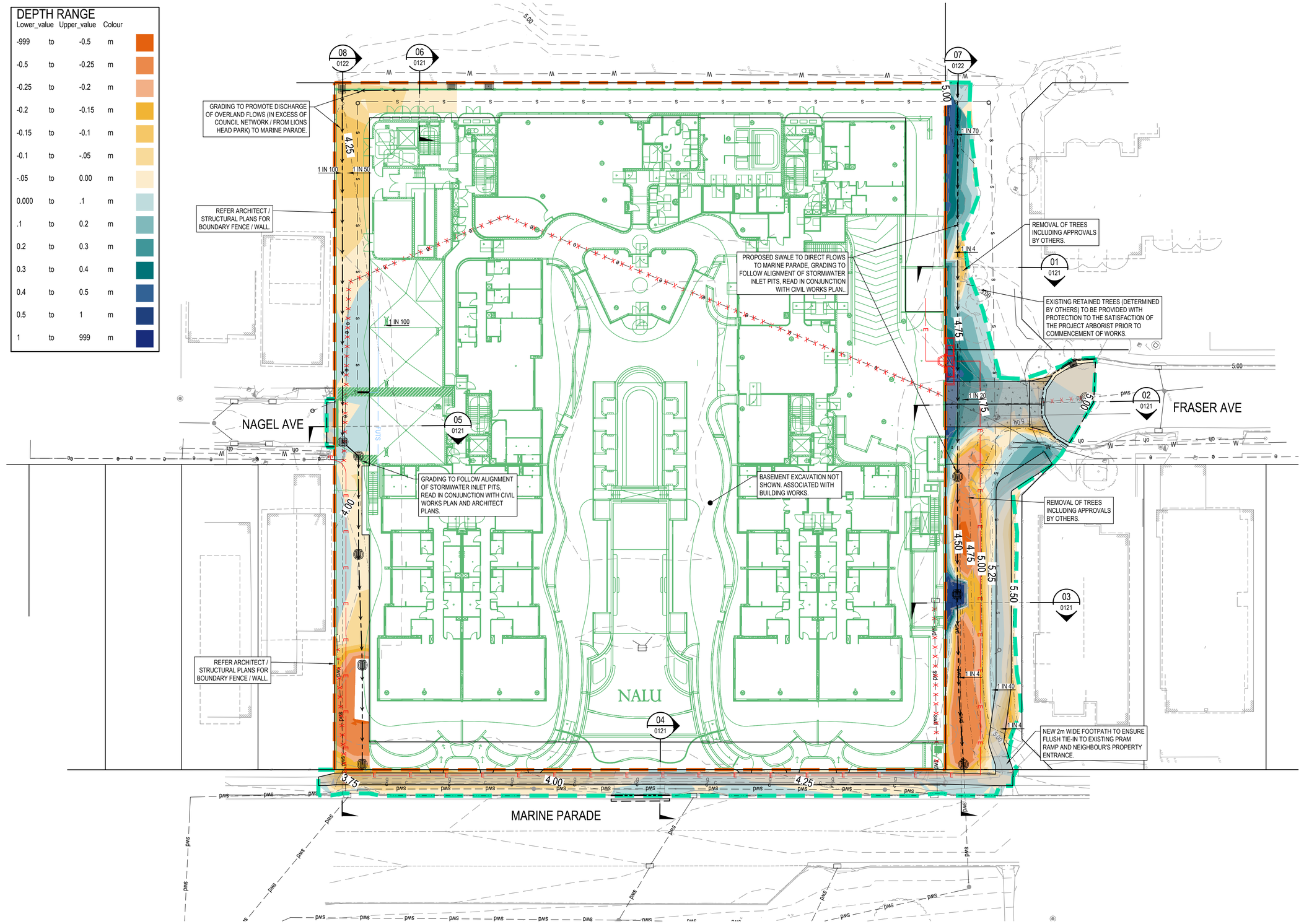
Drawing No.: NAL-AAP-DD-00-DRG-CI-0071

Issue: 02

Date Plotted: 27 Mar 2026 - 03:05PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0071-ExistingSurveyandDemolitionPlan.dwg

DEPTH RANGE

Lower_value		Upper_value	Colour
-999	to	-0.5	m
-0.5	to	-0.25	m
-0.25	to	-0.2	m
-0.2	to	-0.15	m
-0.15	to	-0.1	m
-0.1	to	-.05	m
-.05	to	0.00	m
0.000	to	.1	m
.1	to	0.2	m
0.2	to	0.3	m
0.3	to	0.4	m
0.4	to	0.5	m
0.5	to	1	m
1	to	999	m



LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- EXISTING SURFACE CONTOURS
- PROPOSED SURFACE CONTOURS
- PROPOSED BARRIER KERB & CHANNEL
- PROPOSED SWALE
- PROPOSED CONCRETE FOOTPATH. REFER TO IPWEA STD DRG PCD-101
- PROPOSED CONCRETE VXO. REFER TO IPWEA STD DWG RSD-102
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWERAGE RETICULATION
- EXISTING WATER RETICULATION
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- EXISTING COMMUNICATIONS
- EXISTING GAS
- SERVICE TO BE DECOMMISSIONED
- EXISTING TREES

GENERAL NOTES

1. THE CONTRACTOR IS TO FENCE LIMIT OF WORKS PRIOR TO PRE START MEETING WITH COUNCIL.
2. SEDIMENT & EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCEMENT OF WORKS.
3. NOTWITHSTANDING THE LIMITS OF CUTTING & FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE ENGINEER DURING CONSTRUCTION. FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE ARCHITECT/ENGINEER DURING CONSTRUCTION.
4. FILL AREAS SHALL BE CONSTRUCTED IN LAYERS NOT EXCEEDING 300MM LOOSE DEPTH. THE FILL MATERIAL SHALL BE COMPACTED TO 95% (MINIMUM) OF THE MAXIMUM DRY DENSITY. TESTING SHALL BE IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER CERTIFICATION OF THE COMPACTION ACHIEVED.
5. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798 UNDER LEVEL 1 SUPERVISION.
6. ALL FILL PLACED ON THE SITE IS TO COMPRISE OF ONLY NATURAL EARTH & ROCK & IS TO BE FREE OF ALL CONTAMINANTS (REFER TO THE ENVIRONMENTAL PROTECTION ACT 1994 SECTION 11). NO DEMOLITION MATERIAL IS TO BE USED.
7. UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT ALL FILL SHALL BE PLACED AT BETWEEN +2% & -2% OF OPTIMUM MOISTURE CONTENT.
8. DESIGN LEVELS GIVEN ARE FINISHED SURFACE LEVELS.
9. ALL NEW WORKS TO MATCH NEATLY WITH EXISTING. THE CONTRACTOR SHALL CONFIRM LOCATION OF ALL EXISTING SERVICES & PROTECT THESE SERVICES DURING CONSTRUCTION. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
10. ALL OF THE SITE SHALL BE KEPT FREE DRAINING DURING ALL PHASES OF THE PROJECT.
11. ALL RETAINING STRUCTURES AND SHORING SYSTEMS IN ACCORDANCE WITH STRUCTURAL ENGINEER'S DETAILS.
12. CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CONFIRM PRIOR TO AND IMMEDIATELY AFTER CONSTRUCTION THAT ALL LOCAL AND GLOBAL STABILITY PERFORMANCE OUTCOMES HAVE BEEN ACHIEVED.
13. ALL WORKS WITHIN TPZ TO BE UNDERTAKEN UNDER SUPERVISION OF LEVEL 5 ARBORIST IN ACCORDANCE WITH APPROVED VMP.

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

Scales
0 5 10 15 20 25m
1 : 250

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: GROUND WORKS PLAN

ARCADIS
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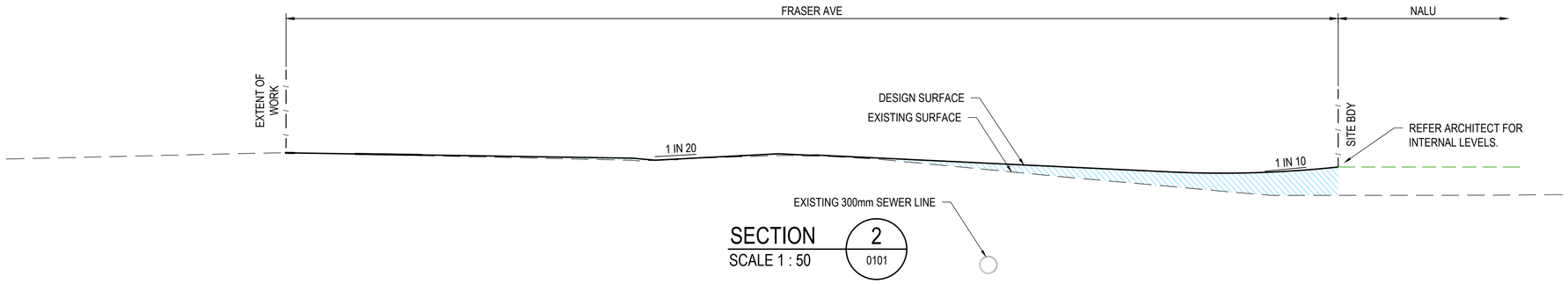
Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0101

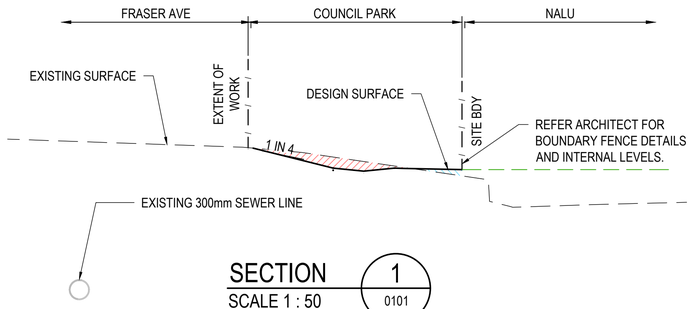
Issue: 02

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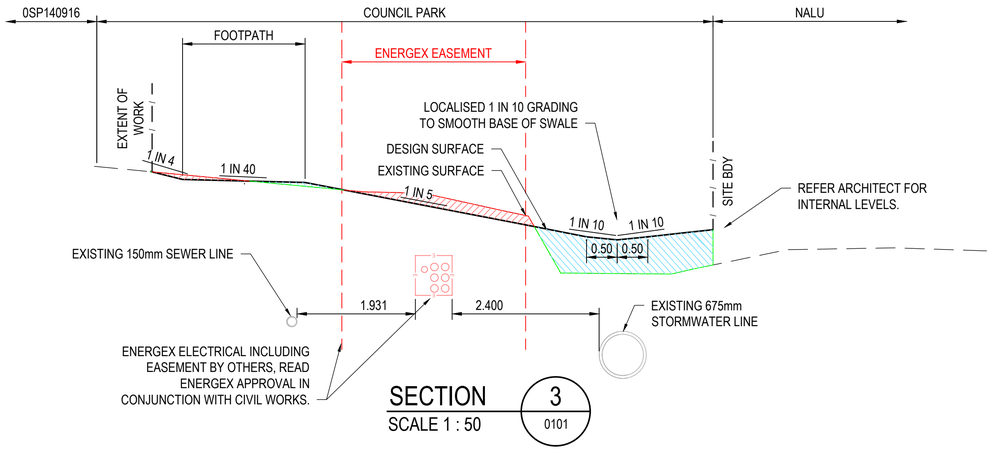
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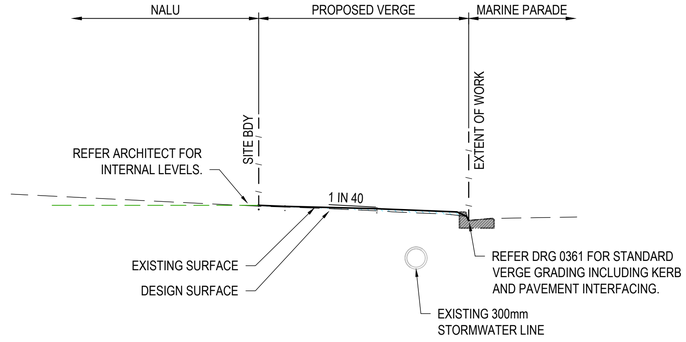
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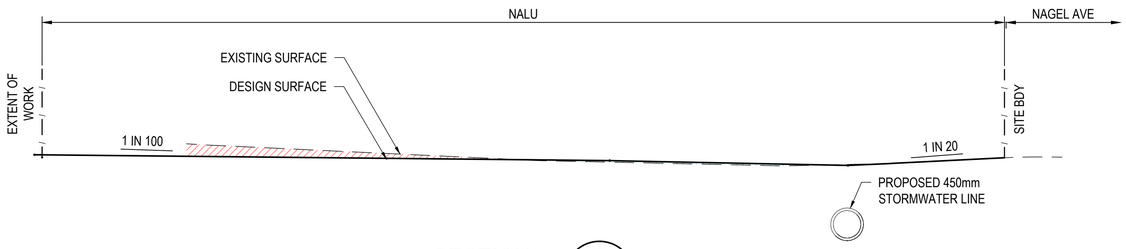
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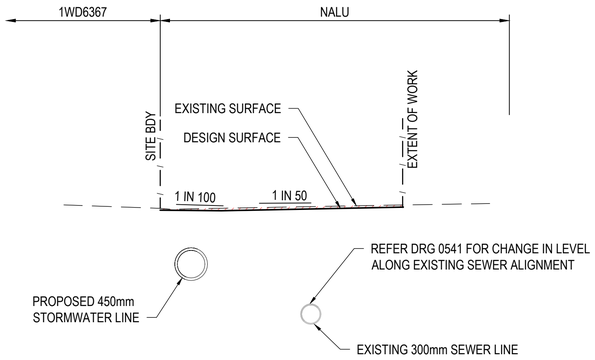
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SECTION 4
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SECTION 5
SCALE 1 : 50
0101



SECTION 6
SCALE 1 : 50
0101

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales
0 0.5 1 2 3 4 5m
1 : 50

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
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Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: SITE SECTIONS
SHEET 1

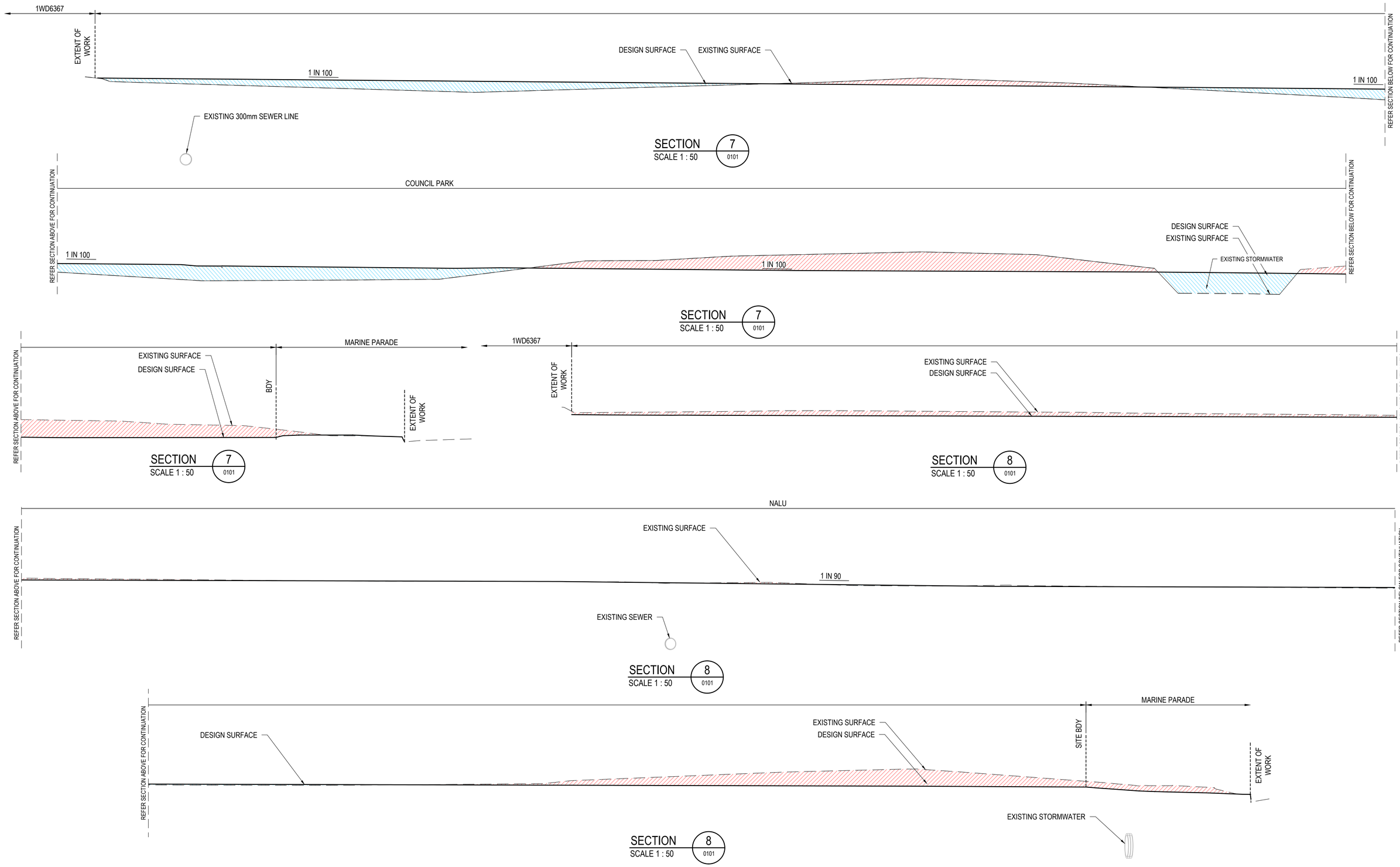
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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0121

Issue: 02

Date Plotted: 27 Mar 2026 - 03:05PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0121-EarthworksSiteSectionsSheet1.dwg



Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

Scales

0 0.5 1 2 3 4 5m

1 : 50

100mm on Original

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
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Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: SITE SECTIONS
SHEET 2

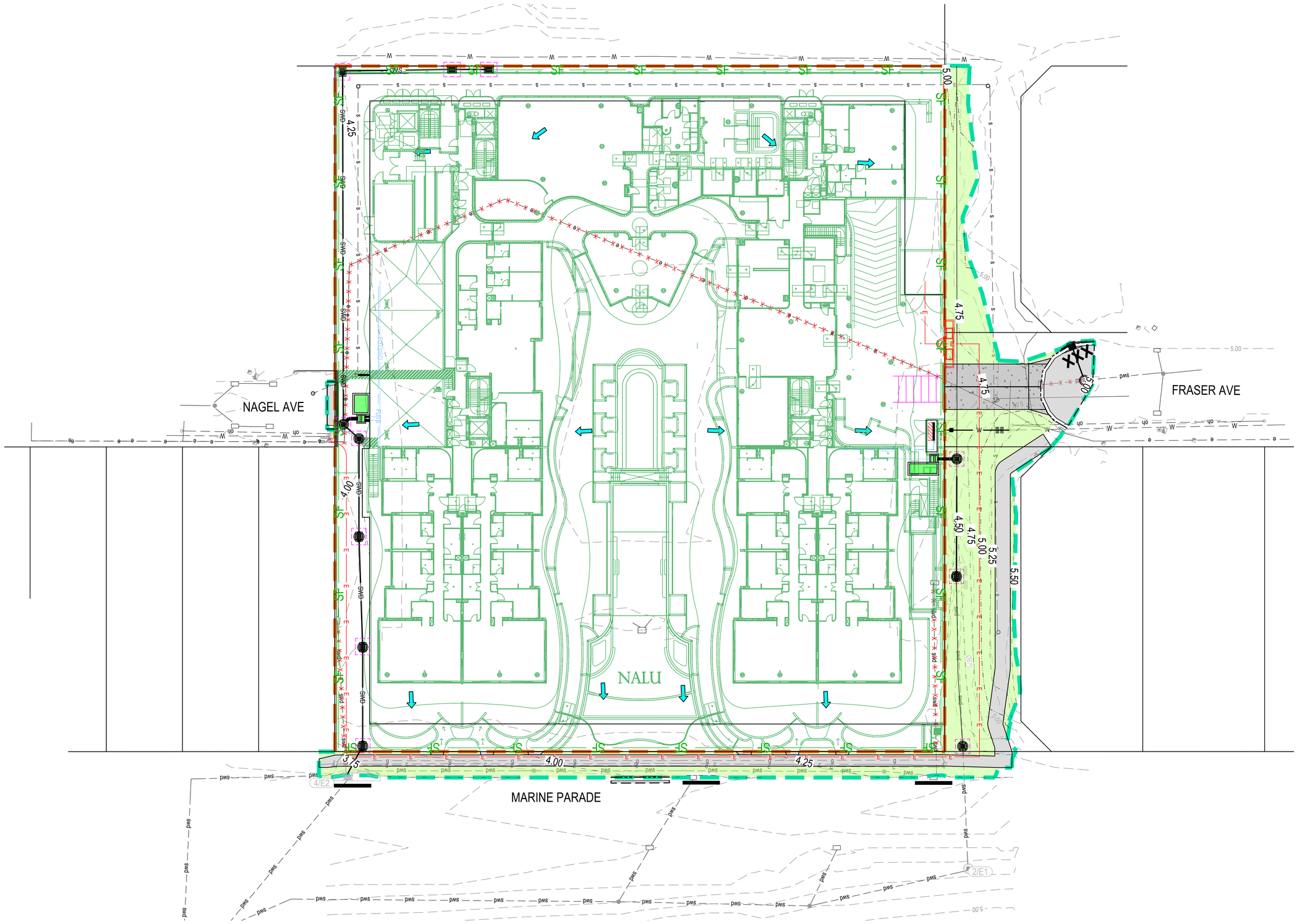
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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0122

Issue: 02

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LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- 5.0 PROPOSED SURFACE CONTOURS
- 5.0 EXISTING SURFACE CONTOURS
- TURF
- SF SILT FENCE
- GULLY TREATMENT ON GRADE
- XXX SAG GULLY TREATMENT
- CONSTRUCTION ENTRY/EXIT PAD
- DIRECTION OF OVERLAND FLOW
- INLET PROTECTION
- SWD PROPOSED STORMWATER PIPE & PIT
- swd EXISTING STORMWATER DRAINAGE
- s EXISTING SEWERAGE RETICULATION
- w EXISTING WATER RETICULATION
- e EXISTING UNDERGROUND ELECTRICAL
- oh EXISTING OVERHEAD ELECTRICAL
- c EXISTING COMMUNICATIONS
- g EXISTING GAS
- SERVICE TO BE DECOMMISSIONED

NOTES

1. FOR SEDIMENT AND EROSION CONTROL DETAILS AND NOTES REFER DRAWING No. 0191.
2. SEDIMENT AND EROSION CONTROL PLAN IS TO BE READ IN CONJUNCTION WITH THE ENVIRONMENT MANAGEMENT PLAN AND LANDSCAPING DRAWINGS.

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales

0 5 10 15 20 25m

1 : 250

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Project: NALU
122 MARINE PARADE MIAMI

Title: EROSION AND SEDIMENT CONTROL PLAN

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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0171

Issue: 02

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SEDIMENT CONTROL

1. OPTIMUM BENEFIT MUST BE MADE OF EVERY OPPORTUNITY TO TRAP SEDIMENT WITHIN THE WORK SITE, & AS CLOSE AS PRACTICABLE TO ITS SOURCE.
2. SEDIMENT TRAPS MUST BE INSTALLED & OPERATED TO BOTH COLLECT & RETAIN SEDIMENT.
3. THE POTENTIAL SAFETY RISK OF A PROPOSED SEDIMENT TRAP TO SITE WORKERS & THE PUBLIC MUST BE GIVEN APPROPRIATE CONSIDERATION, ESPECIALLY THOSE DEVICES LOCATED WITHIN PUBLICLY ACCESSIBLE AREAS.
4. ALL REASONABLE & PRACTICABLE MEASURES MUST BE TAKEN TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT FROM THE SITE.
5. SUITABLE ALL-WEATHER MAINTENANCE ACCESS MUST BE PROVIDED TO ALL SEDIMENT CONTROL DEVICES.

SEDIMENT FENCE

1. SEDIMENT FENCE TO BE INSTALLED ALONG A LINE OF CONSTANT GROUND ELEVATION WHEREVER PRACTICAL.
2. BOTH ENDS OF THE SEDIMENT FENCE TO EXTEND UP THE SLOPE AT LEAST 1m.
3. SUPPORT POST TO BE SPACED A MAXIMUM 2m UNLESS THE FENCE IS SUPPORTED BY A TOP WIRE OR MESH BACKING, IN WHICH CASE 3m MAXIMUM SPACING.
4. FENCE 'RETURNS' SHALL BE INSTALLED AT MAXIMUM 20m SPACING IF FENCE IS INSTALLED ALONG THE CONTOUR, OTHERWISE 5 TO 10m MAXIMUM SPACING DEPENDING ON SLOPE.
5. MINIMUM 4 STAPLES OR TIE WIRES PER STAKE.

MATERIALS:

1. FABRIC: POLYPROPYLENE, POLYAMIDE, NYLON, POLYESTER, OR POLYETHYLENE WOVEN OR NON-WOVEN FABRIC, AT LEAST 700mm IN WIDTH & A MINIMUM UNIT WEIGHT OF 140GSM. ALL FABRICS TO CONTAIN ULTRAVIOLET INHIBITORS & STABILISERS TO PROVIDE A MINIMUM OF 6 MONTHS OF USEABLE CONSTRUCTION LIFE (ULTRAVIOLET STABILITY EXCEEDING 70%).
2. FABRIC REINFORCEMENTS: WIRE OR STEEL MESH MINIMUM 14-GAUGE WITH A MAXIMUM MESH SPACING OF 200mm.
3. SUPPORT POSTS/STAKES: 1500mm² (MIN.) HARDWOOD, 2500mm² (MIN.) SOFTWOOD, OR 1.5kg/m (MIN) STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

INSTALLATION OF A SPILL-THROUGH WEIR:

1. LOCATE THE SPILL-THROUGH WEIR SUCH THAT THE WEIR CREST WILL BE LOWER THAN THE GROUND LEVEL AT EACH END OF THE FENCE.
2. ENSURE THE CREST OF THE SPILL-THROUGH WEIR IS AT LEAST 300mm ABOVE THE GROUND ELEVATION.
3. SECURELY TIE A HORIZONTAL CROSS MEMBER (WEIR) TO THE SUPPORT POSTS/STAKES EACH SIDE OF THE WEIR. CUT THE FABRIC DOWN THE SIDE OF EACH POST & FOLD THE FABRIC OVER THE CROSS MEMBER & APPROPRIATELY SECURE THE FABRIC.
4. INSTALL A SUITABLE SPLASH PAD &/OR CHUTE IMMEDIATELY DOWN-SLOPE OF THE SPILL-THROUGH WEIR TO CONTROL SOIL EROSION & APPROPRIATELY DISCHARGE THE CONCENTRATED FLOW PASSING OVER THE WEIR.

INSTALLATION FABRIC DROP INLET PROTECTION:

1. ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.
2. WHERE POSSIBLE, EXCAVATE A 200x200mm TRENCH AROUND THE INLET STRUCTURE.
3. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE STORMWATER INLET AT A MAXIMUM 1m SPACING & SECURELY DRIVE THEM INTO THE GROUND.
4. WHERE NECESSARY, INSTALL A HORIZONTAL SPILL-THROUGH WEIR TO LIMIT THE MAXIMUM HEIGHT WATER PONDING AROUND THE STRUCTURE.
5. ENSURE THE MAXIMUM POND HEIGHT WILL NOT CAUSE A SAFETY HAZARD, INCLUDING UNDESIRABLE FLOODING OF AN ADJACENT PROPERTY OR ROADWAY. WHEREVER PRACTICAL, THE SPILL-THROUGH WEIR SHOULD BE AT LEAST 300mm ABOVE GROUND LEVEL.
6. IF A SPILL THROUGH WEIR IS NOT INSTALLED, THEN FRAME THE TOP OF THE STAKES WITH HORIZONTAL CROSS MEMBERS.
7. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS.
8. PLACE THE BOTTOM 300mm OF FABRIC IN THE EXCAVATED TRENCH
9. SECURELY FASTEN THE FABRIC TO THE STAKES & CROSS MEMBERS AT THE FABRIC JOINT, OVERLAP THE FABRIC TO THE NEXT STAKE.
10. BACKFILL THE TRENCH WITH AT LEAST 200mm OF AGGREGATE OR COMPACTED SOIL. IF A TRENCH CANNOT BE EXCAVATED, LAY THE BOTTOM 300mm OF FABRIC EVENLY ON THE GROUND SURFACE & COVER WITH A 300mm LAYER OF AGGREGATE, NOT EARTH OR SOIL.
11. WHERE REQUIRED, INSTALL A FLOW CONTROL BUND TO MAINTAIN THE SPECIFIED POOL DEPTH & CONTROL THE MOVEMENT OF WATER.
12. TAKE ALL NECESSARY MEASURES TO MINIMISE THE SAFETY RISK CAUSED BY THE STRUCTURE & TO PREVENT UNSAFE ENTRY INTO THE STORMWATER INLET.

SITE ACCESS

1. PRIOR TO THE COMMENCEMENT OF SITE WORKS, THE LOCATION OF THE SITE ACCESS POINT(S) MUST BE VERIFIED WITH THE RELEVANT REGULATORY AUTHORITY.
2. SITE ACCESS MUST BE RESTRICTED TO THE MINIMUM PRACTICAL NUMBER OF LOCATIONS.
3. SITE EXIT POINTS MUST BE APPROPRIATELY MANAGED TO MINIMISE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
4. INSTALL SEDIMENT FENCING &/OR BARRIER FENCING TO CONFINE INGRESS TO & EGRESS FROM THE SITE TO STABILISED ACCESS POINTS ONLY.
5. STORMWATER RUNOFF FROM ACCESS ROADS & STABILISED ENTRY/EXIT POINTS MUST DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.

CONSTRUCTION EXIT - ROCK PAD

MATERIALS:

1. ROCK: WELL GRADED, HARD, ANGULAR, EROSION RESISTANT ROCK, NOMINAL DIAMETER OF 50 TO 75mm (SMALL DISTURBANCES) OR 100 TO 150mm (LARGE DISTURBANCES). ALL REASONABLE MEASURES MUST BE TAKEN TO OBTAIN ROCK OF NEAR UNIFORM SIZE.
2. FOOTPATH STABILISING AGGREGATE: 25 TO 50mm GRAVEL OR AGGREGATE.
3. GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE -PUNCHED, NON-WOVEN FILTER CLOTH ('BIDIM' A24 OR EQUIVALENT).

INSTALLATION:

1. CLEAR THE LOCATION OF THE ROCK PAD, REMOVING STUMPS, ROOTS & OTHER VEGETATION TO PROVIDE A FIRM FOUNDATION SO THAT THE ROCK IS NOT PRESSED INTO SOFT GROUND. CLEAR SUFFICIENT WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY THAT NECESSARY FOR THE EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION & SEDIMENT CONTROL DEVICES ARE IN PLACE.
2. IF THE EXPOSED SOIL IS SOFT, PLASTIC OR CLAYEY, PLACE A SUB-BASE OF CRUSHED ROCK OR A LAYER OF HEAVY-DUTY FILTER CLOTH TO PROVIDE A FIRM FOUNDATION.
3. PLACE THE ROCK PAD FORMING A MINIMUM 200mm THICK LAYER OF CLEAN, OPEN-VOID ROCK.
4. IF THE ASSOCIATED CONSTRUCTION SITE IS UP-SLOPE OF THE ROCKPAD, THUS CAUSING STORMWATER RUNOFF TO FLOW TOWARD THE ROCK PAD, THEN FORM A MINIMUM 300mm HIGH FLOW CONTROL BERM ACROSS THE ROCK PAD TO DIVERT SUCH RUNOFF TO A SUITABLE SEDIMENT TRAP.
5. THE LENGTH OF THE ROCK PAD SHOULD BE AT LEAST 15m WHERE PRACTICABLE, & AS WIDE AS THE FULL WIDTH OF THE ENTRY OR EXIT & AT LEAST 3m. THE ROCK PAD SHOULD COMMENCE AT THE EDGE OF THE OFF-SITE SEALED ROAD OR PAVEMENT.
6. FLARE THE END THE ROCK PAD WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES DO NOT TRAVEL OVER UNPROTECTED SOIL.
7. IF THE FOOTPATH IS OPEN TO PEDESTRIAN MOVEMENT, THEN COVER THE COARSE ROCK WITH FINE AGGREGATE OR GRAVEL, OR OTHERWISE TAKE WHATEVER MEASURES ARE NEEDED TO MAKE THE AREA SAFE.

FILTER SOCKS-CONCENTRATED FLOW

MATERIALS:

1. SOCKS: MINIMUM Ø200mm SYNTHETIC OR BIODEGRADABLE TUBES MANUFACTURED FROM NON-WOVEN OR COMPOSITE FABRIC SUITABLE FOR THE "FILTRATION" OF COURSE SEDIMENT.
2. FILL MATERIALS: STRAW, CANE MULCH, COMPOSTED MATERIAL (AS4454), COARSE SAND, OR CLEAN AGGREGATE

INSTALLATION:

1. ENSURE THE SOCKS ARE PLACED INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT:
   - i) LEAKAGE AROUND OR UNDER THE SOCKS IS MINIMISED;
   - ii) ADJOINING SOCKS ARE TIGHTLY BUTTED OR OVERLAPPED AT LEAST 450mm.
   - iii) THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH SEDIMENT TRAP IS MAXIMISED.
   - iv) TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE FORMED POND BEFORE FLOWING OVER THE DOWN-SLOPE END OF THE SEDIMENT TRAP.

DRAINAGE CONTROL

1. WHEREVER REASONABLE & PRACTICABLE, STORMWATER RUNOFF ENTERING THE SITE FROM EXTERNAL AREAS, & NON-SEDIMENT LADEN (CLEAN) STORMWATER RUNOFF ENTERING A WORK AREA OR AREA OF SOIL DISTURBANCE, MUST BE DIVERTED AROUND OR THROUGH THAT AREA IN A MANNER THAT MINIMISES SOIL EROSION & THE CONTAMINATION OF THAT WATER FOR ALL DISCHARGES UP TO THE SPECIFIED DESIGN STORM DISCHARGE.
2. DURING THE CONSTRUCTION PERIOD, ALL REASONABLE & PRACTICABLE MEASURES MUST BE IMPLEMENTED TO CONTROL FLOW VELOCITIES IN SUCH A MANNER THAT PREVENTS SOIL EROSION ALONG DRAINAGE PATHS & AT THE ENTRANCE & EXIT OF ALL DRAINS & DRAINAGE PIPES DURING ALL STORMS UP TO THE RELEVANT DESIGN STORM DISCHARGE.
3. TO THE MAXIMUM DEGREE REASONABLE & PRACTICABLE, ALL WATERS DISCHARGED DURING THE CONSTRUCTION PHASE MUST DISCHARGE ONTO STABLE LAND, IN A NON-EROSIVE MANNER, & AT A LEGAL POINT OF DISCHARGE.
4. DURING THE CONSTRUCTION PERIOD, ROOF WATER MUST BE MANAGED IN A MANNER THAT MINIMISES SOIL EROSION THROUGHOUT THE SITE, & SITE WETNESS WITHIN ACTIVE WORK AREAS.

EROSION CONTROL

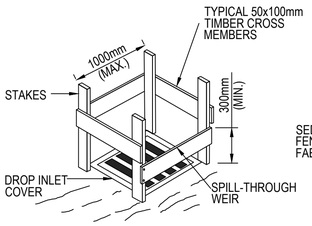
1. THE APPLICATION OF LIQUID-BASED DUST SUPPRESSION MEASURES MUST ENSURE THAT SEDIMENT-LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD.
2. ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, & EMBANKMENTS ASSOCIATED WITH CONSTRUCTED SEDIMENT BASINS MUST BE MACHINE-COMPACTED, SEEDED & MULCHED FOR THE PURPOSE OF ESTABLISHING A TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
3. UNPROTECTED SLOPE LENGTHS MUST NOT EXCEED 80M, OR AN EQUIVALENT VERTICAL FALL OF 3M.
4. THE CONSTRUCTION & STABILISATION OF EARTH BATTERS STEEPER THAN 6:1 (H:V) MUST BE STAGED SUCH THAT NO MORE THAN 3 VERTICAL-METRES OF ANY BATTER IS EXPOSED TO RAINFALL AT ANY INSTANT.
5. SYNTHETIC REINFORCED EROSION CONTROL MATS & BLANKETS MUST NOT BE PLACED WITHIN, OR ADJACENT TO, RIPARIAN ZONES & WATERCOURSES IF SUCH MATERIALS ARE LIKELY TO CAUSE ENVIRONMENTAL HARM TO WILDLIFE OR WILDLIFE HABITATS.
6. A MINIMUM 60% GROUND COVER MUST BE ACHIEVED ON ALL NON-COMPLETED EARTHWORKS EXPOSED TO ACCELERATED SOIL EROSION IF FURTHER CONSTRUCTION ACTIVITIES OR SOIL DISTURBANCES ARE LIKELY TO BE SUSPENDED FOR MORE THAN 30 DAYS DURING THOSE MONTHS WHEN THE EXPECTED RAINFALL IS LESS THAN 30mm; MINIMUM 70% COVER WITHIN 30 DAYS IF BETWEEN 30 & 45mm; MINIMUM 70% COVER WITHIN 20 DAYS IF BETWEEN 45 & 100mm; MINIMUM 75% COVER WITHIN 10 DAYS IF BETWEEN 100 & 225mm; & MINIMUM 80% COVER WITHIN 5 DAYS IF GREATER THAN 225mm. (ALTERNATIVE TO ABOVE)

EROSION CONTROL MAT LINING

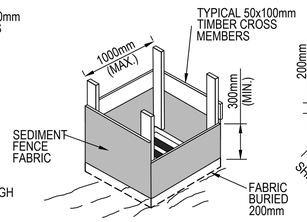
1. EROSION CONTROL MATS MUST BE STORED AWAY FROM DIRECT SUNLIGHT OR COVERED WITH ULTRAVIOLET PROTECTIVE SHEETING UNTIL THE SITE IS READY FOR THEIR INSTALLATION.
2. VEHICLES & CONSTRUCTION EQUIPMENT MUST NOT BE PERMITTED TO MANEUVER OVER THE MATTING UNLESS IT HAS BEEN COVERED WITH A LAYER OF SOIL OR GRAVEL AT LEAST 150mm THICK.
3. IF THE CHANNEL IS TO BE GRASSED, PREPARE A SMOOTH SEED BED OF APPROXIMATELY 75mm OF TOPSOIL, SEED, FERTILISE, WATER & RAKE TO REMOVE ANY REMAINING SURFACE IRREGULARITIES.
4. EXCAVATE A 300mm DEEP BY 150mm WIDE ANCHOR TRENCH ALONG THE FULL WIDTH OF THE UPSTREAM END OF THE AREA TO BE TREATED.
5. AT LEAST 300mm OF THE MAT MUST BE ANCHORED INTO THE TRENCH WITH THE ROLL OF MATTING RESTING ON THE GROUND UP-SLOPE OF THE TRENCH.
6. WHEN SPREADING THE MATS, AVOID STRETCHING THE FABRIC. THE MATS SHOULD REMAIN IN GOOD CONTACT WITH THE SOIL.
7. THE INSTALLATION PROCEDURE MUST ENSURE THAT THE MAT ACHIEVES & RETAINS GOOD CONTACT WITH THE SOIL.
8. DAMAGED MATTING MUST BE REPAIRED OR REPLACED.

TURF LINED

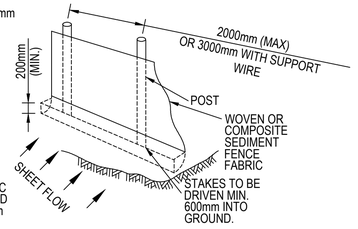
1. TURF SHOULD BE USED WITHIN 12 HOURS OF DELIVERY, OTHERWISE ENSURE THE TURF IS STORED IN CONDITIONS APPROPRIATE FOR THE WEATHER CONDITIONS (e.g. A SHADED AREA).
2. MOISTENING THE TURF AFTER IT IS UNROLLED WILL HELP MAINTAIN ITS VIABILITY.
3. TURF SHOULD BE LAID ON A MINIMUM 75mm BED OF ADEQUATELY FERTILISED TOPSOIL. RAKE THE SOIL SURFACE TO BREAK THE CRUST JUST BEFORE LAYING THE TURF.
4. DURING THE WARMER MONTHS, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY BEFORE LAYING THE TURF.
5. ENSURE THE TURF IS NOT LAID ON GRAVEL, HEAVILY COMPACTED SOILS, OR SOILS THAT HAVE BEEN RECENTLY TREATED WITH HERBICIDES.
6. ENSURE THE TURF EXTENDS UP THE SIDES OF THE DRAIN AT LEAST 100mm ABOVE THE ELEVATION OF THE CHANNEL INVERT, OR AT LEAST TO A SUFFICIENT ELEVATION TO FULLY CONTAIN EXPECTED CHANNEL FLOW.
7. ON CHANNEL GRADIENTS OF 3:1(H:V) OR STEEPER, OR IN SITUATIONS WHERE HIGH FLOW VELOCITIES (i.e. VELOCITY >1.5m/s) ARE LIKELY WITHIN THE FIRST TWO WEEK FOLLOWING PLACEMENT, SECURE THE INDIVIDUAL TURF STRIPS WITH WOODEN OR PLASTIC PEGS.
8. ENSURE THAT INTIMATE CONTACT IS ACHIEVED & MAINTAINED BETWEEN THE TURF & THE SOIL SUCH THAT SEEPAGE FLOW BENEATH THE TURF IS AVOIDED.
9. WATER UNTIL THE SOIL IS WET 100mm BELOW THE TURF. THEREAFTER, WATERING SHOULD BE SUFFICIENT TO MAINTAIN & PROMOTE HEALTHY GROWTH.



DETAILS OF SUPPORT FRAME WITH SPILL-THROUGH WEIR

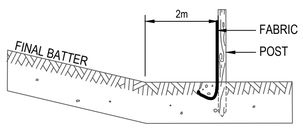


FABRIC DROP INLET PROTECTION WITH SPILL-THROUGH WEIR

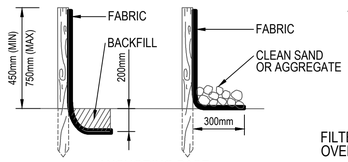


INSTALLATION WITHOUT BACKING SUPPORT

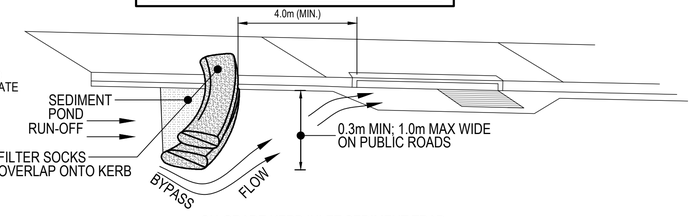
FABRIC DROP INLET PROTECTION

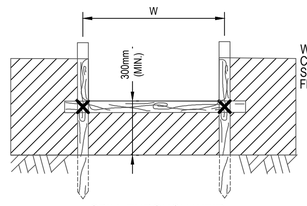


LOCATION OF FENCE RELATIVE TO BASE OF SLOPE

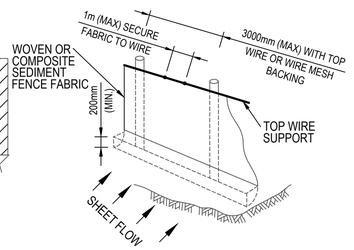


ANCHORING BASE OF FABRIC



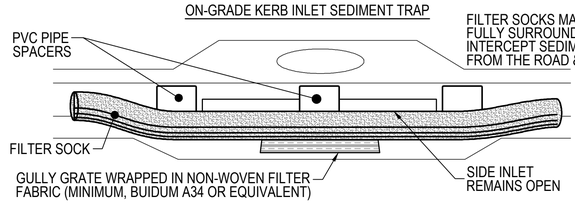


SPILL THROUGH WEIR

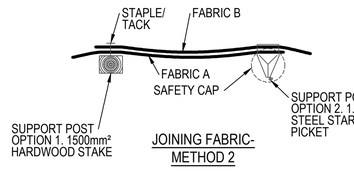


INSTALLATION WITH TOP WIRE SUPPORT

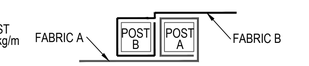
ON-GRADE KERB INLET SEDIMENT TRAP



SAG INLET SEDIMENT TRAP

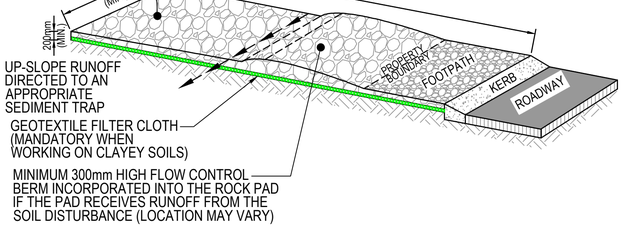


JOINING FABRIC- METHOD 2

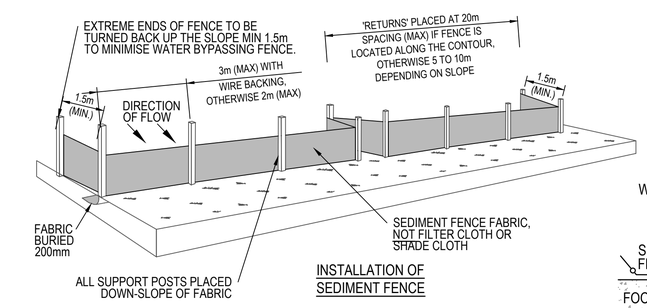


FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. STAKE B TO BE DRIVEN TIGHTLY AGAINST STAKE A. THE TOPS OF BOTH STAKES TO BE SECURED WITH WIRE.

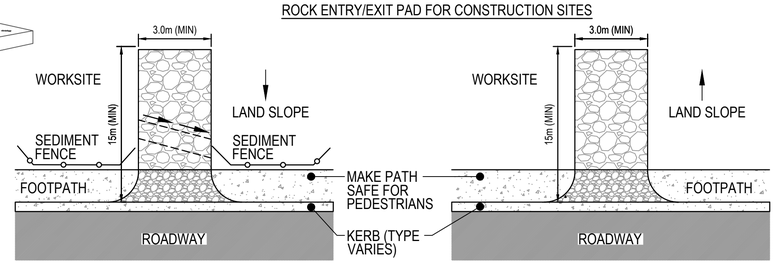
JOINING FABRIC - METHOD 1



ROCK ENTRY/EXIT PAD FOR CONSTRUCTION SITES



INSTALLATION OF SEDIMENT FENCE



ROCK PAD SLOPING TOWARDS THE ROAD

ROCK PAD SLOPING AWAY FROM ROAD

SEDIMENT FENCE

FILTER SOCKS - CONCENTRATED FLOWS

CONSTRUCTION EXIT - ROCK PAD

(CONSTRUCTION SITES ONLY)

Issue	Description	DR	CH	VE	Date
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales: N/A

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: EROSION AND SEDIMENT CONTROL PLAN DETAILS

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0191

Issue: 01

Date Plotted: 27 Mar 2026 - 03:05PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0191-ErosionAndSedimentControlDetails.dwg

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VERGE SPOT LEVELS

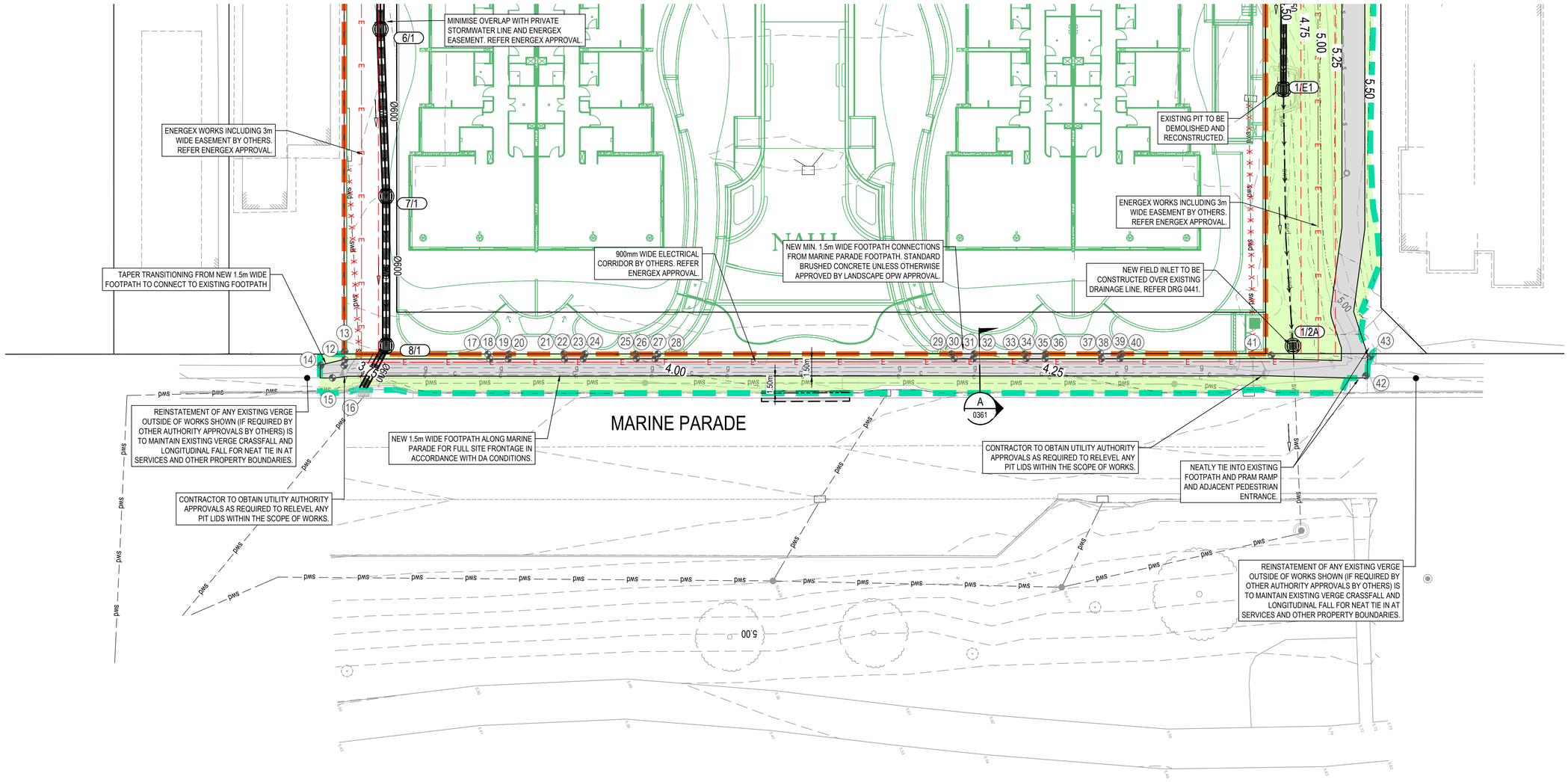
POINT	EASTING	NORTHING	LEVEL
13	2009.333	1004.848	3.777
14	2010.630	1003.133	3.913
15	2011.223	1004.501	3.871
16	2009.767	1004.978	3.779
17	2003.862	1016.105	3.907
18	2004.181	1016.412	3.892
19	2003.126	1017.790	3.923
20	2003.533	1017.896	3.906
21	2001.205	1022.173	3.965
22	2001.205	1022.411	3.949
23	2000.446	1023.866	3.980
24	2000.891	1023.884	3.962
25	1998.660	1027.919	4.015
26	1998.998	1028.135	4.000
27	1997.880	1029.688	4.031
28	1998.356	1029.620	4.012
29	1987.541	1053.183	4.228

VERGE SPOT LEVELS

POINT	EASTING	NORTHING	LEVEL
30	1987.810	1053.556	4.214
31	1986.744	1054.982	4.244
32	1987.161	1055.078	4.227
33	1984.967	1059.021	4.276
34	1985.271	1059.307	4.262
35	1984.226	1060.714	4.290
36	1984.626	1060.823	4.273
37	1982.304	1065.080	4.324
38	1982.649	1065.322	4.308
39	1981.554	1066.778	4.338
40	1981.989	1066.806	4.320
41	1976.395	1078.793	4.403
42	1974.723	1087.074	4.412
43	1973.028	1086.727	4.542

LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- 5.0 — PROPOSED SURFACE CONTOURS
- 5.0 — EXISTING SURFACE CONTOURS
- TURF
- PROPOSED BARRIER KERB & CHANNEL
- PROPOSED STORMWATER PIPE & PIT (CIVIL WORKS)
- FUTSWD — PROPOSED STORMWATER PIPE & PIT (REFER BUILDING HYDRAULICS)
- B01-2 — PROPOSED PIT LABEL
- EX 14-02 — EXISTING PIT LABEL
- EXISTING KERB INLET PIT
- EXISTING GRATED PIT
- PROPOSED SWALE DRAIN
- PAVEMENT CUTBACK LINE
- swd — EXISTING STORMWATER DRAINAGE
- s — EXISTING SEWERAGE RETICULATION
- w — EXISTING WATER RETICULATION
- e — EXISTING UNDERGROUND ELECTRICAL
- oh — EXISTING OVERHEAD ELECTRICAL
- c — EXISTING COMMUNICATIONS
- g — EXISTING GAS
- X · X · X · X · X · X · X — SERVICE TO BE DECOMMISSIONED
- PROPOSED ASPHALT RECTIFICATION REFER TO COGC STD DRG 02-602 FOR SERVICES AND DRG 00211 ELSEWHERE
- PROPOSED CONCRETE FOOTPATH. REFER TO IPWEA STD DRG PCD-101
- PROPOSED CONCRETE VXO. REFER TO IPWEA STD DRG RSD-102



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ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	MB	JS	19.12.25

Scales: 0 5 10 15 20m — 1 : 200

100mm on Original

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: CIVIL WORKS PLAN
SHEET 1

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0201

Issue: 02

Date Plotted: 27 Mar 2026 - 03:05PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0201-CivilWorksPlanSheet1.dwg

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37	1982.304	1065.080	4.324
38	1982.649	1065.322	4.308

VERGE SPOT LEVELS

POINT	EASTING	NORTHING	LEVEL
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40	1981.989	1066.806	4.320
41	1976.395	1078.793	4.403
42	1974.723	1087.074	4.412
43	1973.028	1086.727	4.542
44	1934.487	1061.593	4.611
45	1928.995	1059.177	4.674
46	1929.646	1057.697	4.780
47	1935.138	1060.113	4.720
48	1925.184	1067.840	4.989
49	1930.676	1070.256	4.926
50	1924.191	1070.096	4.861
51	1929.757	1072.346	4.894
52	1893.581	1042.475	5.041

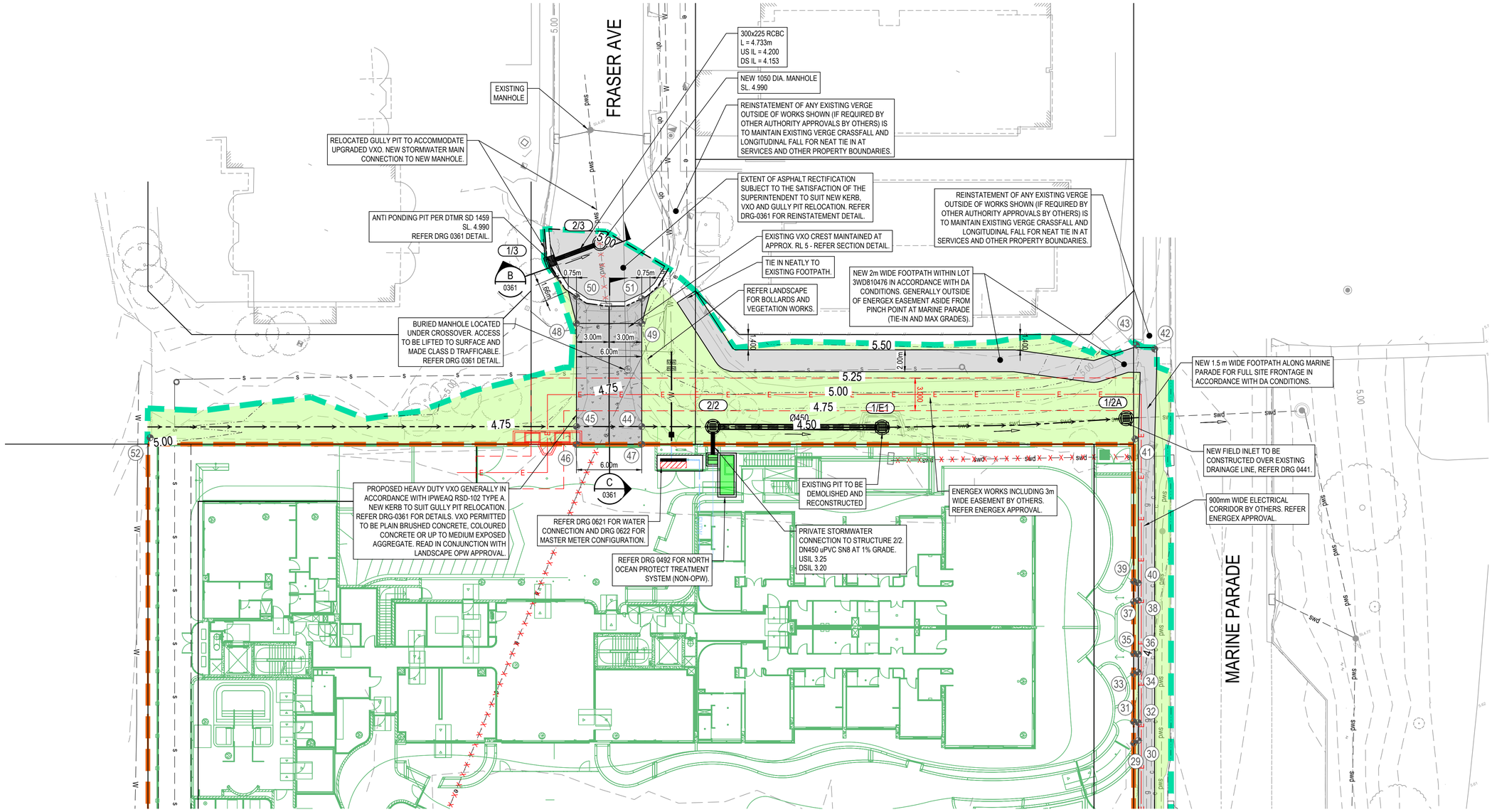
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- PAVEMENT CUTBACK LINE
- swd EXISTING STORMWATER DRAINAGE
- s EXISTING SEWERAGE RETICULATION
- w EXISTING WATER RETICULATION
- e EXISTING UNDERGROUND ELECTRICAL
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Issue	Description	DR	CH	VE	Date

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Scales
0 5 10 15 20m
1 : 200

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures

Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: CIVIL WORKS PLAN
SHEET 2

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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0202

Issue: 02

Date Plotted: 27 Mar 2026 - 03:06PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0202-CivilWorksPlanSheet2.dwg

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11	1971.624	991.384	4.047
12	2008.673	1004.545	3.883
13	2009.333	1004.848	3.777
14	2010.630	1003.133	3.913
15	2011.223	1004.501	3.871
16	2009.767	1004.978	3.779
17	2003.862	1016.105	3.907
18	2004.181	1016.412	3.892

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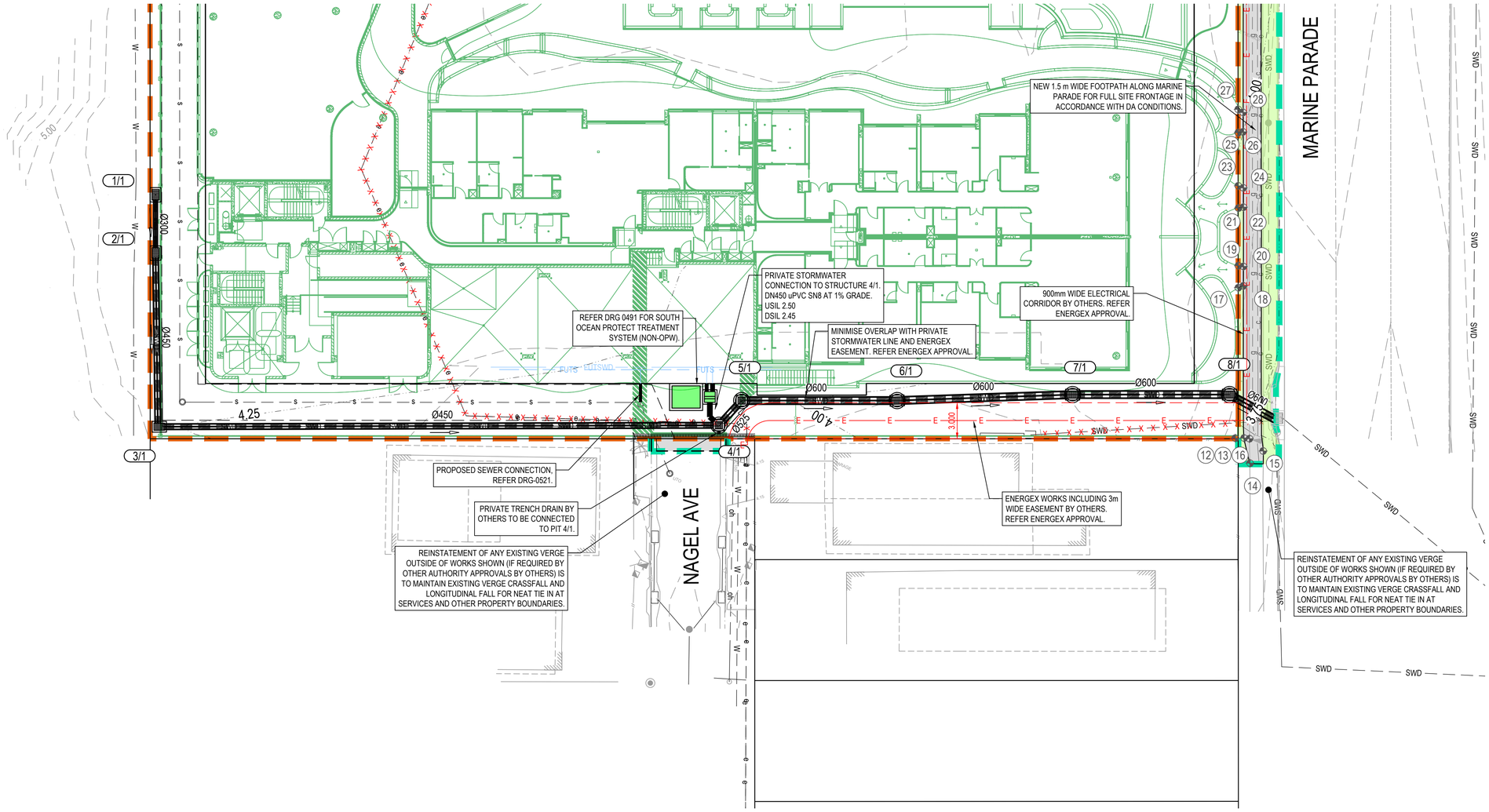
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- PROPOSED STORMWATER PIPE & PIT (CIVIL WORKS)
- PROPOSED STORMWATER PIPE & PIT (REFER BUILDING HYDRAULICS)
- B01-2 PROPOSED PIT LABEL
- EX 14-02 EXISTING PIT LABEL
- EXISTING KERB INLET PIT
- EXISTING GRATED PIT
- PROPOSED SWALE DRAIN
- PAVEMENT CUTBACK LINE
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWERAGE RETICULATION
- EXISTING WATER RETICULATION
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- EXISTING COMMUNICATIONS
- EXISTING GAS
- SERVICE TO BE DECOMMISSIONED
- PROPOSED ASPHALT RECTIFICATION REFER TO COGC STD DRG 02-602 FOR SERVICES AND DRG 00211 ELSEWHERE
- PROPOSED CONCRETE FOOTPATH. REFER TO IPWEA STD DRG PCD-101
- PROPOSED CONCRETE VXO. REFER TO IPWEA STD DRG RSD-102

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.



Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	MB	JS	19.12.25

100mm on Original

Scales

0 5 10 15 20m

1 : 200

Surveyor: JENSEN BOWERS

Architect: BDA ARCHITECTURE

Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: CIVIL WORKS PLAN
SHEET 3

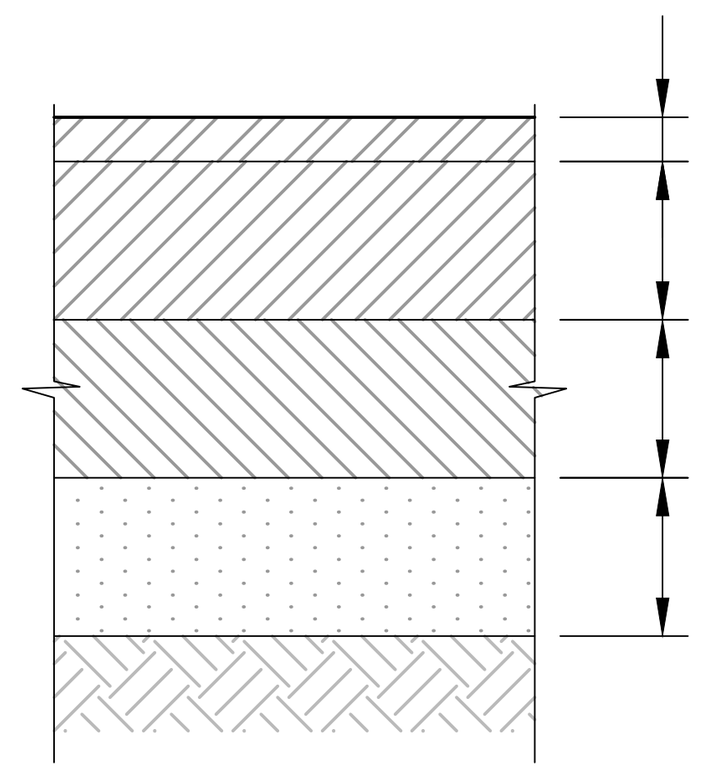
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SOUTHPORT QLD 4215
ABN 76 104 485 289
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Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0203

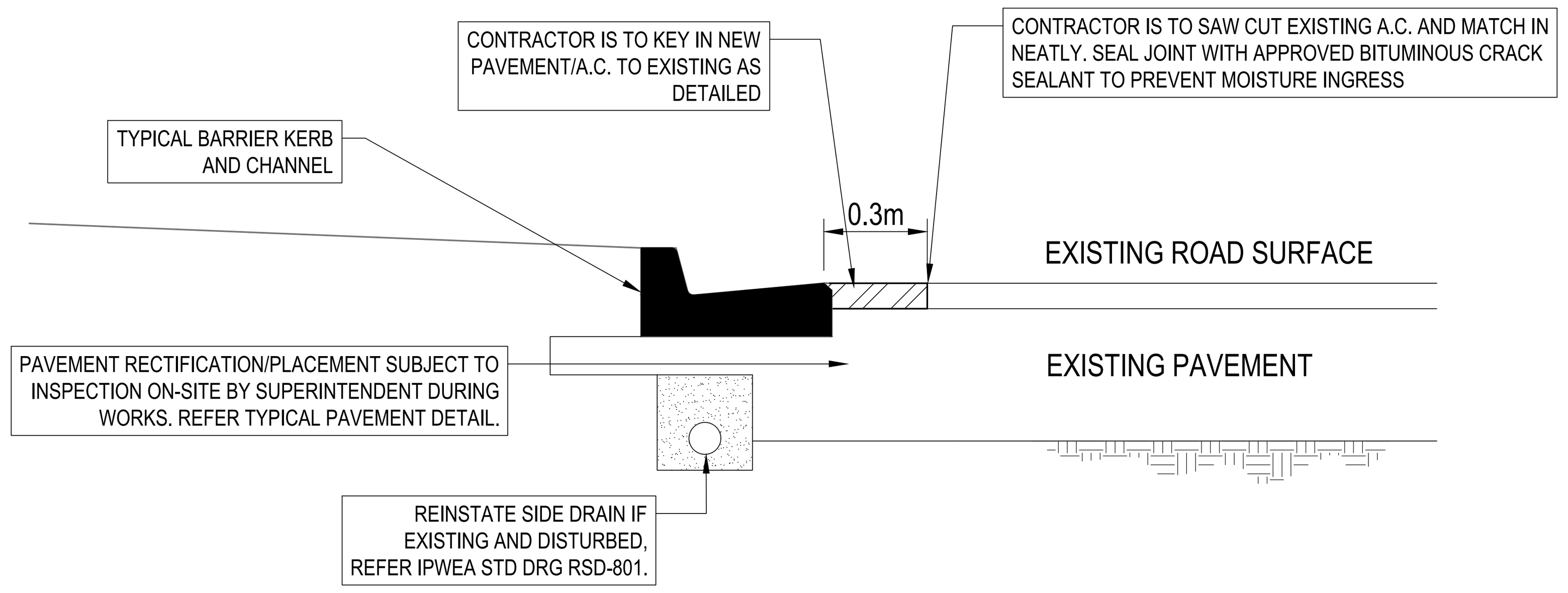
Issue: 02

Date Plotted: 27 Mar 2026 - 03:06PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0203-CivilWorksPlanSheet3.dwg



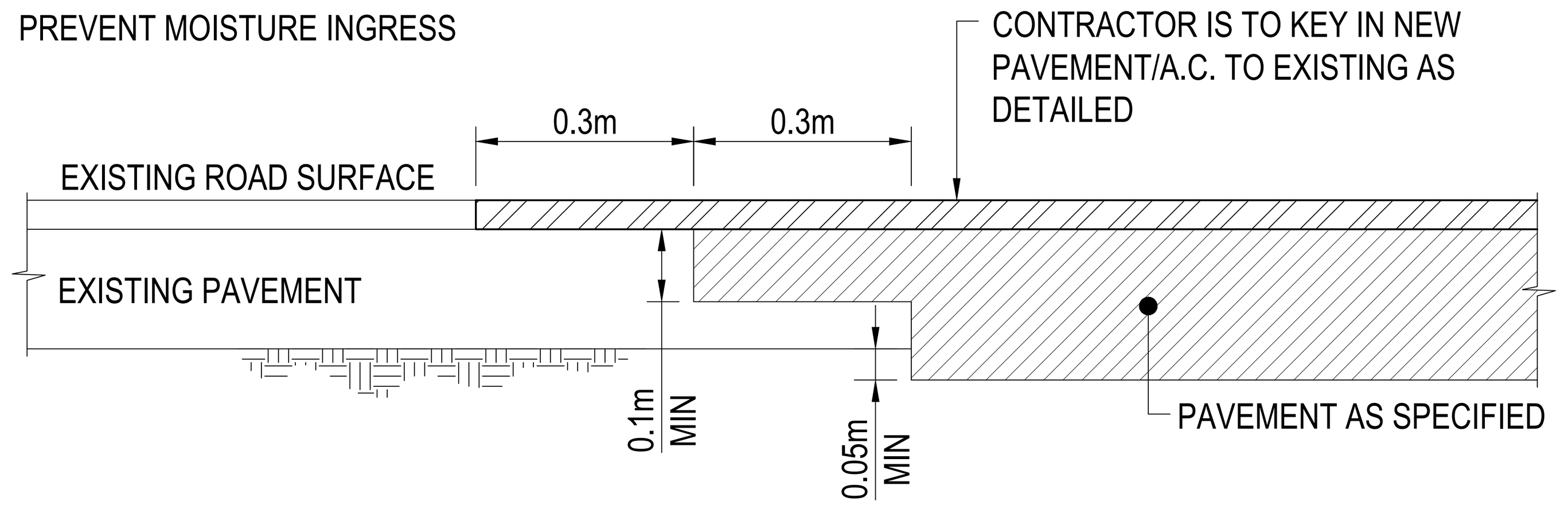
TYPICAL PAVEMENT SPECIFICATION

COLLECTOR STREET - ASSUMED CBR 3.0
TO BE CONFIRMED ON SITE ONCE PAVEMENT EXPOSED AND TO THE SATISFACTION OF COUNCIL.
ALL TRENCH RESTORATION IN ACCORDANCE WITH CoGC STD DWG 02-602 UNLESS OTHERWISE APPROVED



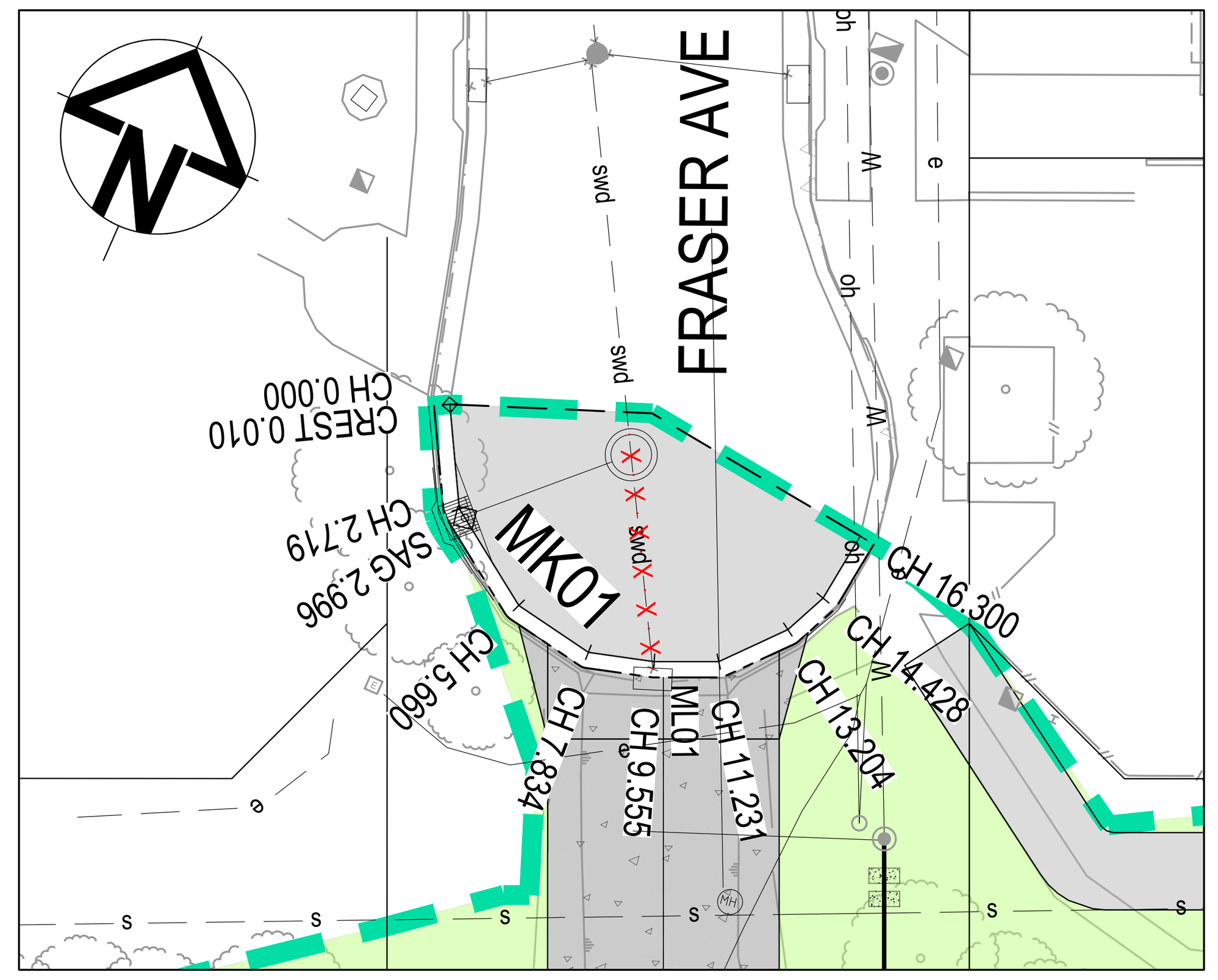
TYPICAL CONNECTION TO EXISTING PAVEMENT ADJACENT TO KERB

SHOWING LONGITUDINAL CONSTRUCTION DETAIL
FOR CONNECTION TO EXISTING PAVEMENT/A.C.
N.T.S



CONNECTION TO EXISTING PAVEMENT

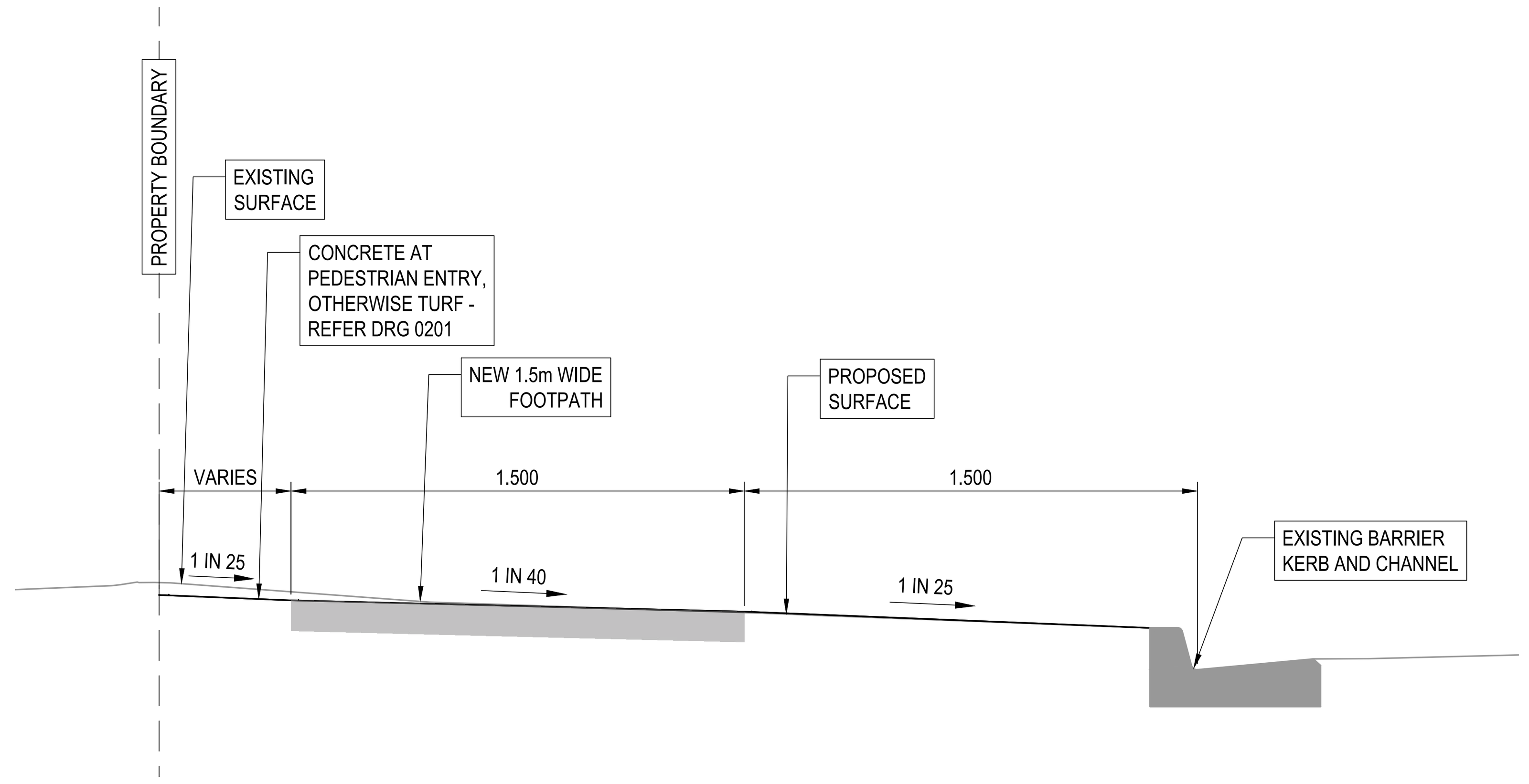
TYPICAL DETAIL
SHOWING LONGITUDINAL CONSTRUCTION DETAIL
FOR CONNECTION TO EXISTING PAVEMENT/A.C.
N.T.S



MK01 SETOUT PLAN

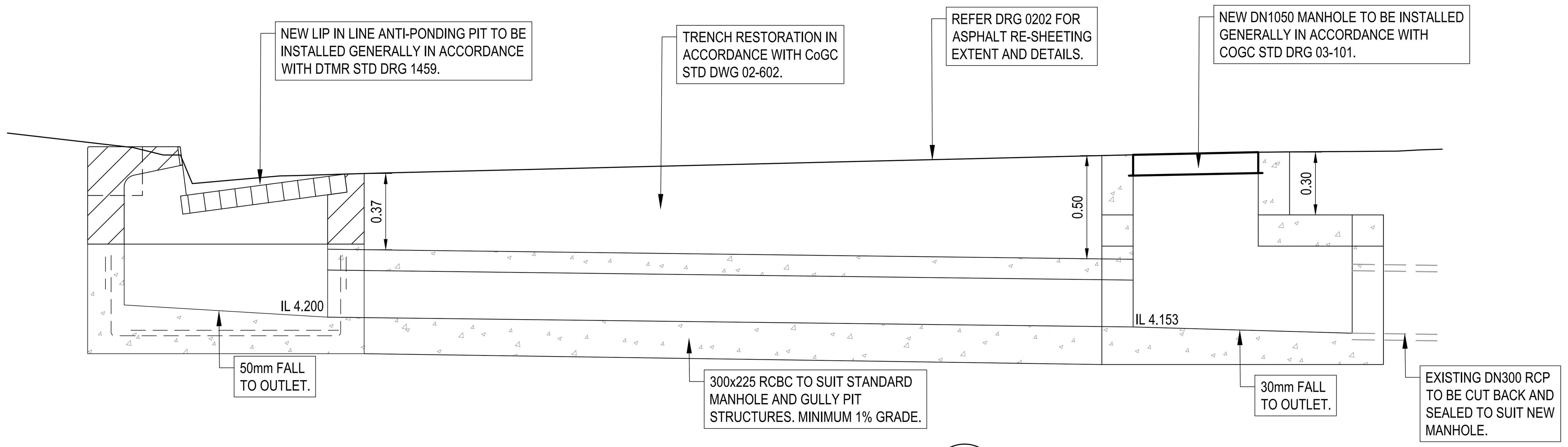
1:200

Alignment/Kerb/MK01->MK01 HORIZONTAL POINTS					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	1919.368	1074.763	4.899	151°02'04.00"
IP 2	2.719	1920.684	1072.384	4.879	
IP 3	5.660	1923.103	1070.710	4.892	
IP 4	7.834	1925.243	1070.325	4.904	
IP 5	9.555	1926.899	1070.791	4.914	
IP 6	11.231	1928.433	1071.466	4.923	
IP 7	13.204	1929.738	1072.947	4.934	
IP 8	14.428	1930.246	1074.060	4.941	
IP 9	16.300	1930.477	1075.918	4.951	7°05'35.77"



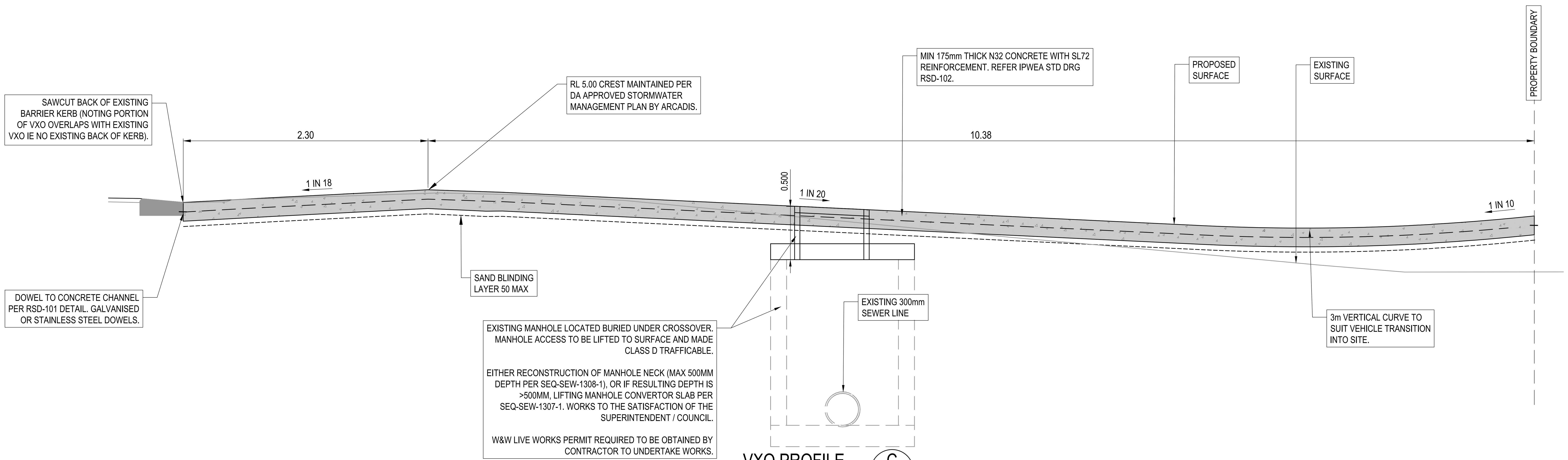
TYPICAL VERGE PROFILE (A / 0201)

1 : 20



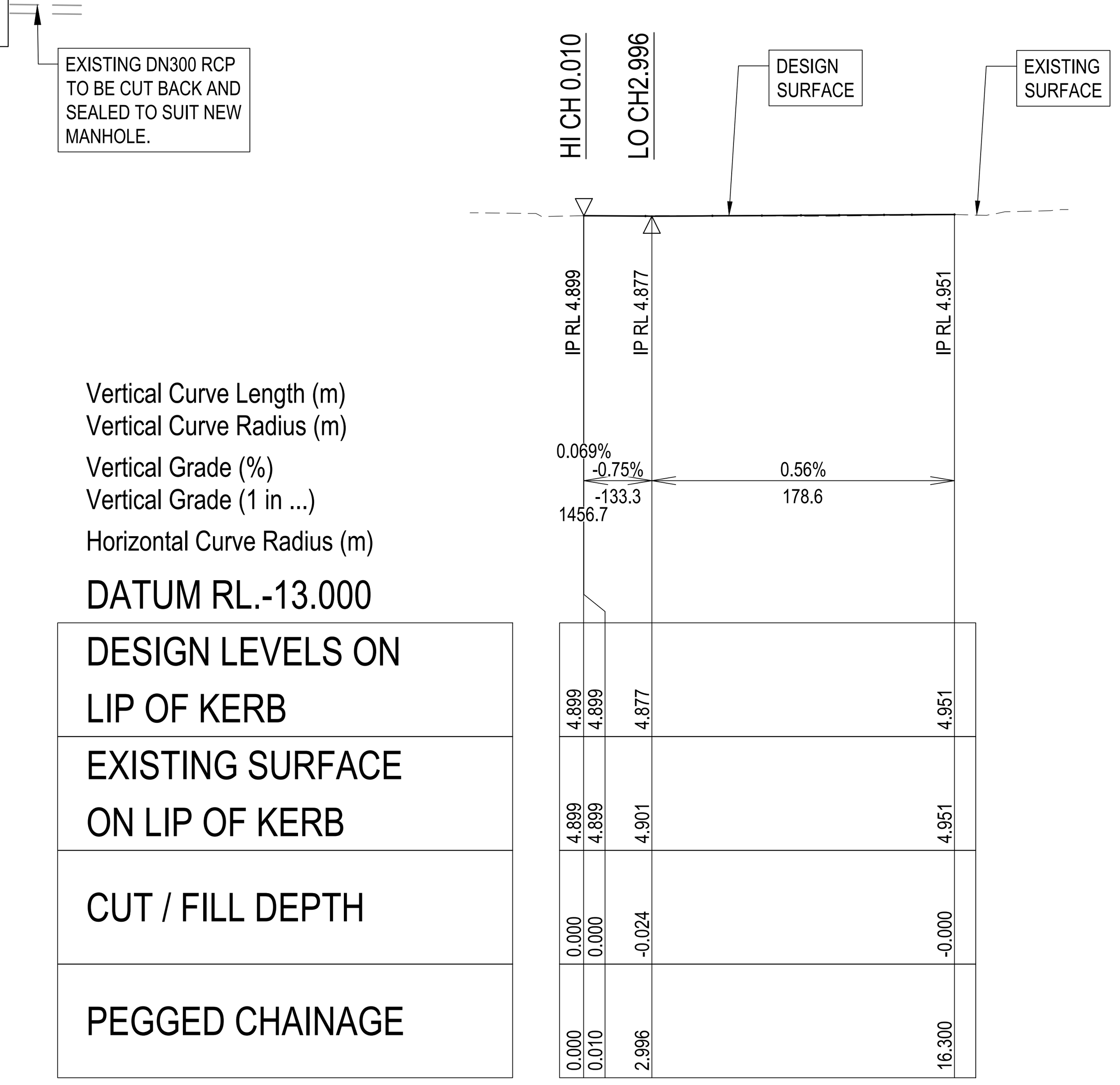
FRASER AVENUE GULLY PIT RELOCATION (B / 0202)

1 : 20



VXO PROFILE (C / 0201)

1 : 25



MK01 LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:250
VERTICAL - 1:250

REFER DRG 0201 FOR NOTES.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	MB	JS	19.12.25

Scales
0 0.5 1 1.5 2m — 1 : 20
0 5 10 15 20m — 1 : 200
0 5 10 15 20 25m — 1 : 250

100mm on Original

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: CIVIL WORKS DETAILS

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www.arcadis.com/au

Project Number: 30304300
Drawing No.: NAL-AAP-DD-00-DRG-CI-0361
Issue: 02

Date Plotted: 27 Mar 2026 - 03:06PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0361-CivilWorksDetails.dwg

	1/1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	4/E2	2/2	1/E1	1/E1	1/2A	2/E1
CO-ORDINATES	1918.295E 986.934N	1920.247E 982.496N	1926.345E 969.393N	1968.913E 988.240N	1969.817E 990.883N	1981.658E 996.088N	1994.819E 1002.418N	2006.769E 1007.671N	2011.242E 1007.496N	1940.477E 1064.206N	1954.708E 1070.411N	1954.708E 1070.411N	1974.896E 1080.198N	1988.889E 1087.087N
STRUCTURE NAME	1/1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	4/E2	2/2	1/E1	1/E1	1/2A	2/E1
STRUCTURE DESCRIPTION	COGC DOME TOP FIELD INLET 600x900	COGC FIELD INLET (V-GRATE) 600x900 (ON-GRADE)	COGC FIELD INLET (V-GRATE) 600x900 (ON-GRADE) REFER TO PIT DETAILS	COGC FIELD INLET (V-GRATE) 600x600 (ON-GRADE) OVER 1050 CHAMBER	COGC FIELD INLET (V-GRATE) 600x600 (ON-GRADE) OVER 1050 CHAMBER	COGC FIELD INLET (V-GRATE) 600x900 (ON-GRADE) OVER 1050 CHAMBER	COGC FIELD INLET (V-GRATE) 600x900 (ON-GRADE) OVER 1050 CHAMBER	COGC FIELD INLET (V-GRATE) 600x900 (ON-GRADE) OVER 1050 CHAMBER	GCCC LIP IN LINE GULLY 3.6m Lintel	COGC DOME TOP FIELD INLET 600x600 OVER 1050 CHAMBER	COGC DOME TOP FIELD INLET 600x900 OVER 1050 CHAMBER REFER TO PIT DETAILS	COGC DOME TOP FIELD INLET 600x900 OVER 1050 CHAMBER REFER TO PIT DETAILS	COGC DOME TOP FIELD INLET 600x600 OVER 1050 CHAMBER REFER TO PIT DETAILS	COGC STD MANHOLE 1050mm DIA

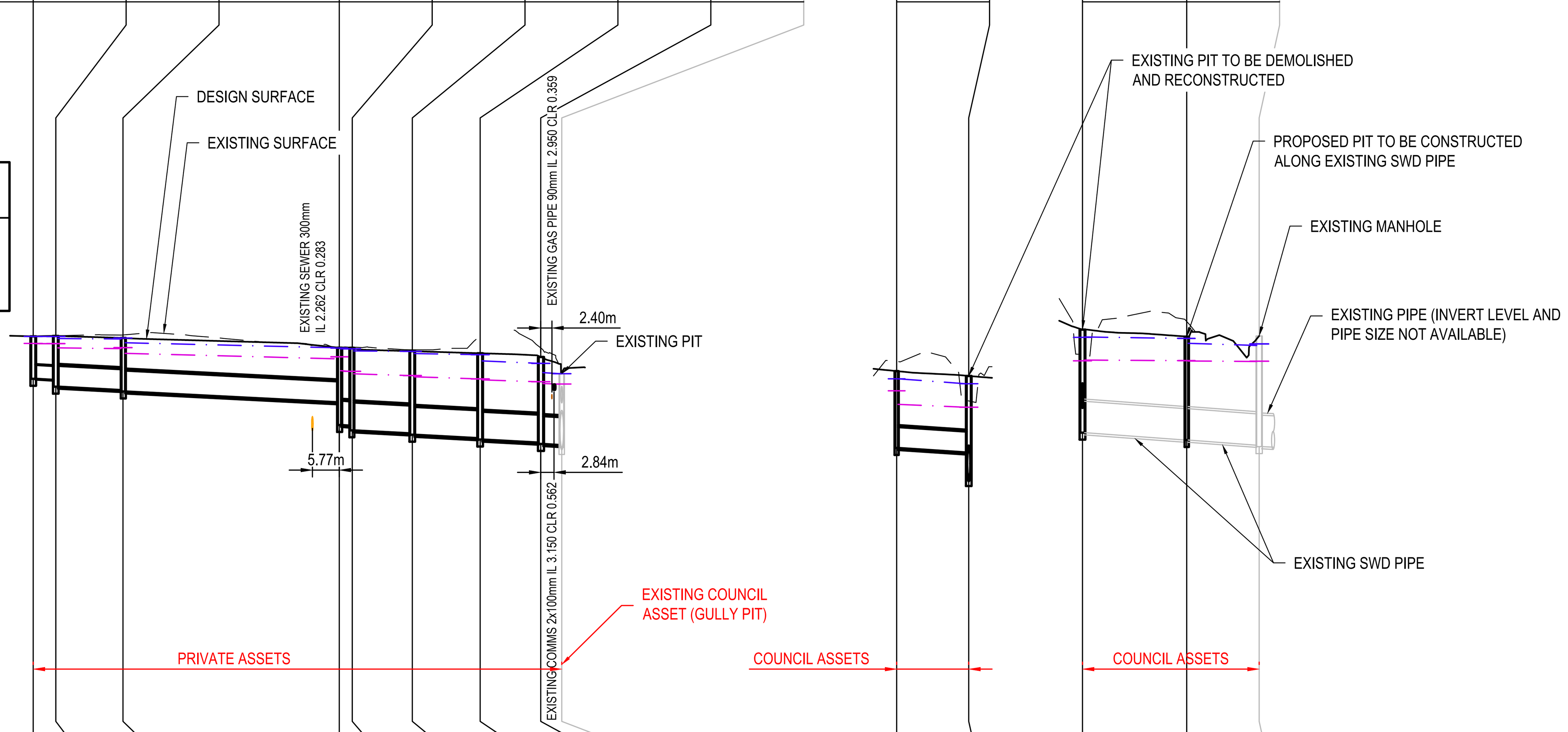
REFER DRG 0361 SECTION B FOR FRASER AVENUE WORKS SECTION DETAIL.

LEGEND

- Q100 HYDRAULIC GRADE LEVEL
- Q10 HYDRAULIC GRADE LEVEL

INFLOWS PER DRAINS MODELLING BY ARCADIS INCLUDING MINOR DRAINAGE NETWORK PERFORMANCE ASSUMPTIONS (10% AEP DESIGN) PER APPROVED SBSMP. TAILWATER ASSUMPTIONS FOR MINOR AND MAJOR EVENTS PER QUDM SECTION 7.16.5.

ALL LINE 1 ASSETS ARE PRIVATE AND ARE TO REMAIN AN ASSET OF THE BODY CORPORATE OR SIMILAR INTERNAL AUTHORITY. ADOPTION OF BLACKMAX OR SIMILAR FLEXIBLE PIPEWORK IN LIEU OF RCP'S SUBJECT TO INSTALLATION SUITABILITY AND SUPERINTENDENT APPROVAL



LINE 1

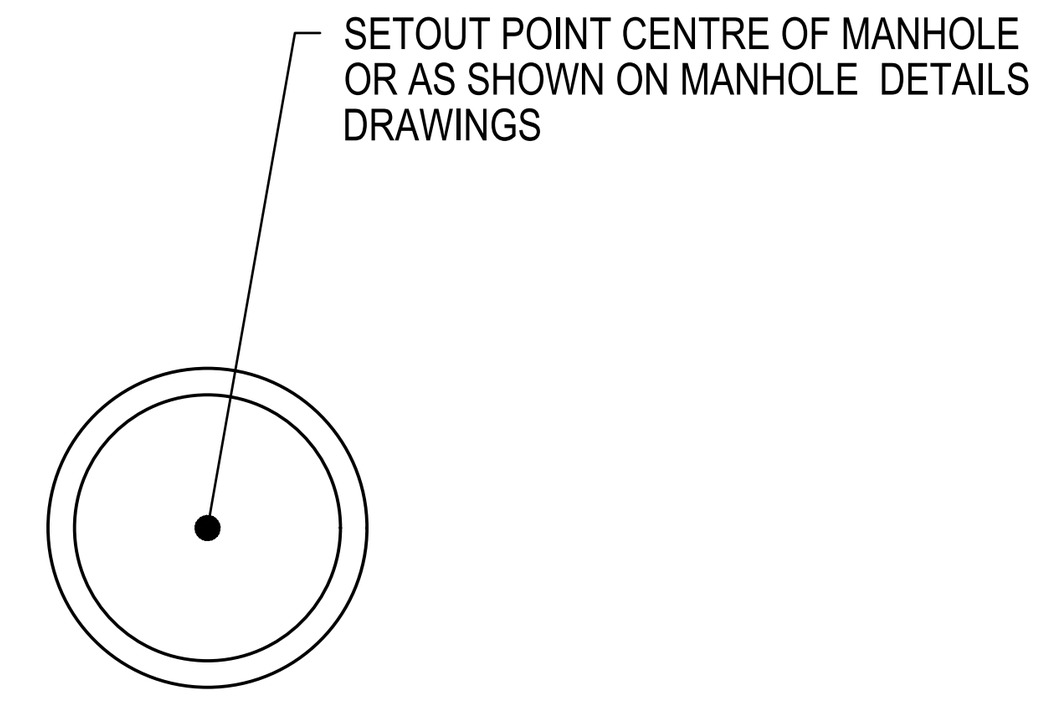
	1/1–2/1	2/1–3/1	3/1–4/1	4/1–5/1	5/1–6/1	6/1–7/1	7/1–8/1	8/1–4/E2
PIPE SIZE (mm)	300	450	450	525	600	600	600	600
PIPE CLASS	PVC	RCP3	RCP3	RCP3	RCP3	RCP3	RCP3	RCP3
PIPE GRADE (%)	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
PIPE SLOPE (1 in X)	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
FULL PIPE FLOW VELOCITY (m/s)	0.17	0.68	1.01	1.68	1.32	1.35	1.35	1.35
PART PIPE FLOW VELOCITY (m/s)	0.81	1.41	1.55	1.76	1.88	1.89	1.89	1.89
DATUM RL	-11.000							
Q10 HYDRAULIC GRADE LEVEL	4.143 / 4.137 – 4.137	4.046 – 4.029 4.052	3.928 – 3.810 3.854	3.555 – 3.539 3.541	3.488 – 3.449	3.423 – 3.378	3.357 – 3.317	3.279 – 3.265 3.268 / 3.244
PIPE FLOW (cumecs)	0.012	0.108	0.161	0.363	0.374	0.382	0.383	0.383
PIPE CAPACITY AT GRADE (cumecs)	0.078	0.228	0.228	0.342	0.485	0.485	0.485	0.485
DEPTH TO INVERT	0.914 – 0.947	1.093 – 1.122	1.152 – 1.174	1.663 – 1.677	1.778 – 1.770	1.800 – 1.828	1.858 – 1.843	1.873 – 1.615 / 1.669
INVERT LEVEL OF DRAIN	3.380 – 3.356	3.210 – 3.137	3.107 – 2.874	2.385 – 2.371	2.269 – 2.205	2.175 – 2.102	2.072 – 2.007	1.977 – 1.954 / 1.900
DESIGN (& EXISTING) SURFACE LEVEL	4.294 / – 4.303	(4.306) – 4.259	(4.324) – 4.048	(4.029) – 4.048	(4.063) – 3.975	(4.005) – 3.930	– 3.849	(4.045) – 3.569 / (3.517)
CHAINAGES	0.000 / 4.849 – 4.849	14.474 – 19.323	46.553 – 65.876	2.793 – 68.669	12.935 – 81.604	14.604 – 96.208	13.053 – 109.262	4.523 – 113.785

LINE 2

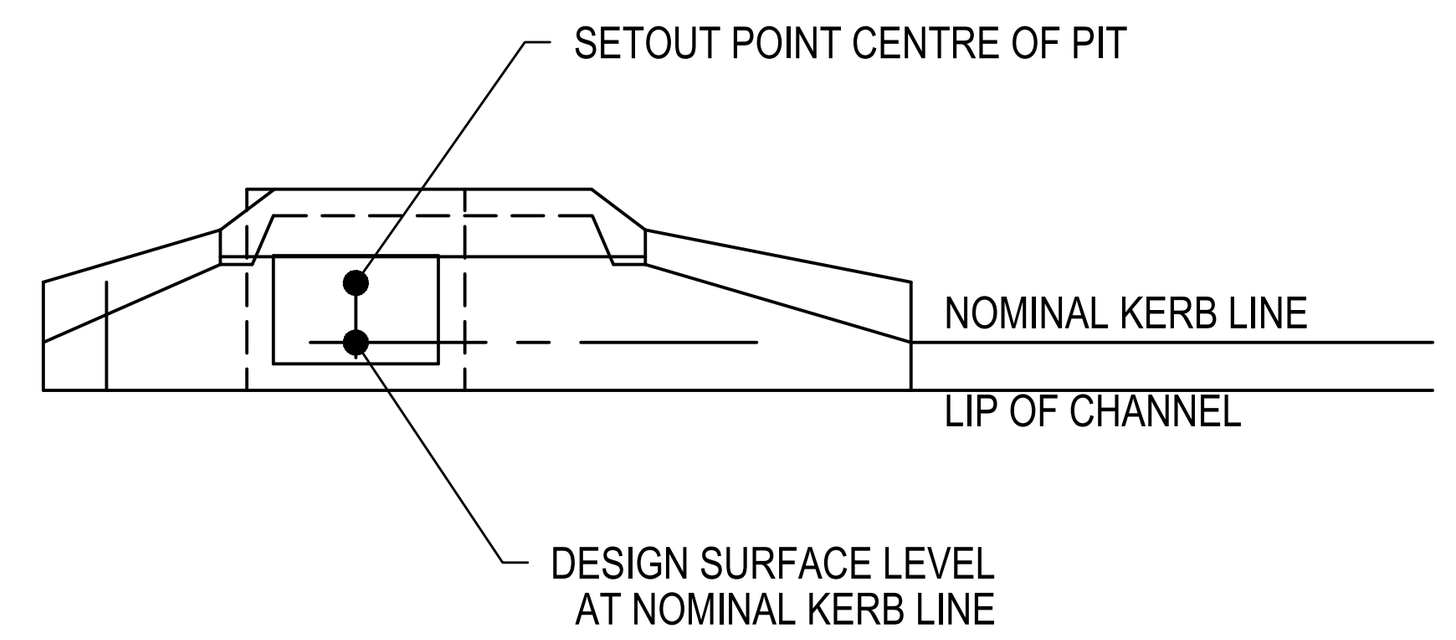
	2/2–1/E1
PIPE SIZE (mm)	450
PIPE CLASS	RCP3
PIPE GRADE (%)	0.63%
PIPE SLOPE (1 in X)	158.8
FULL PIPE FLOW VELOCITY (m/s)	1.29
PART PIPE FLOW VELOCITY (m/s)	1.78
DATUM RL	-10.000
Q10 HYDRAULIC GRADE LEVEL	4.122 / 3.829 – 3.767 3.767 / 3.784
PIPE FLOW (cumecs)	0.204
PIPE CAPACITY AT GRADE (cumecs)	0.256
DEPTH TO INVERT	1.656 – 1.648 / 2.221
INVERT LEVEL OF DRAIN	2.890 – 2.792 / 2.220
DESIGN (& EXISTING) SURFACE LEVEL	4.546 / (4.756) – 4.441 / (3.904)
CHAINAGES	0.000 / 15.525 – 15.525

LINE E1

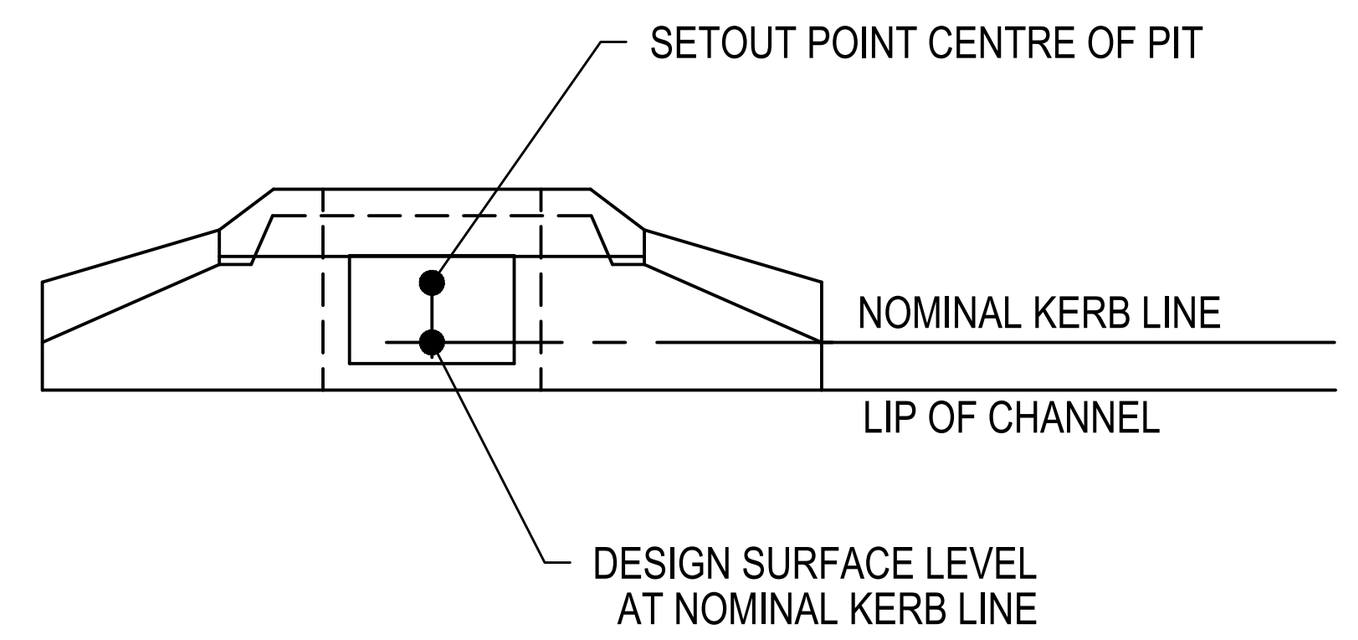
	1/E1–1/2A	1/2A–2/E1
PIPE SIZE (mm)	675	675
PIPE CLASS	RCP3	RCP3
PIPE GRADE (%)	0.71%	0.71%
PIPE SLOPE (1 in X)	140.9	140.9
FULL PIPE FLOW VELOCITY (m/s)	0.62	0.65
PART PIPE FLOW VELOCITY (m/s)	1.91	1.93
DATUM RL	-11.000	
Q10 HYDRAULIC GRADE LEVEL	3.767 / 3.784 – 3.771	3.763 – 3.753 3.758 / 3.714
PIPE FLOW (cumecs)	0.222	0.232
PIPE CAPACITY AT GRADE (cumecs)	0.789	0.789
DEPTH TO INVERT	2.221 – 2.228	2.228 – 2.353 / 2.383
INVERT LEVEL OF DRAIN	2.220 – 2.061	2.061 – 1.950 / 1.920
DESIGN (& EXISTING) SURFACE LEVEL	4.441 / (3.904) – 4.289	(4.614) – 4.303
CHAINAGES	0.000 / 22.451 – 22.451	15.597 – 38.048



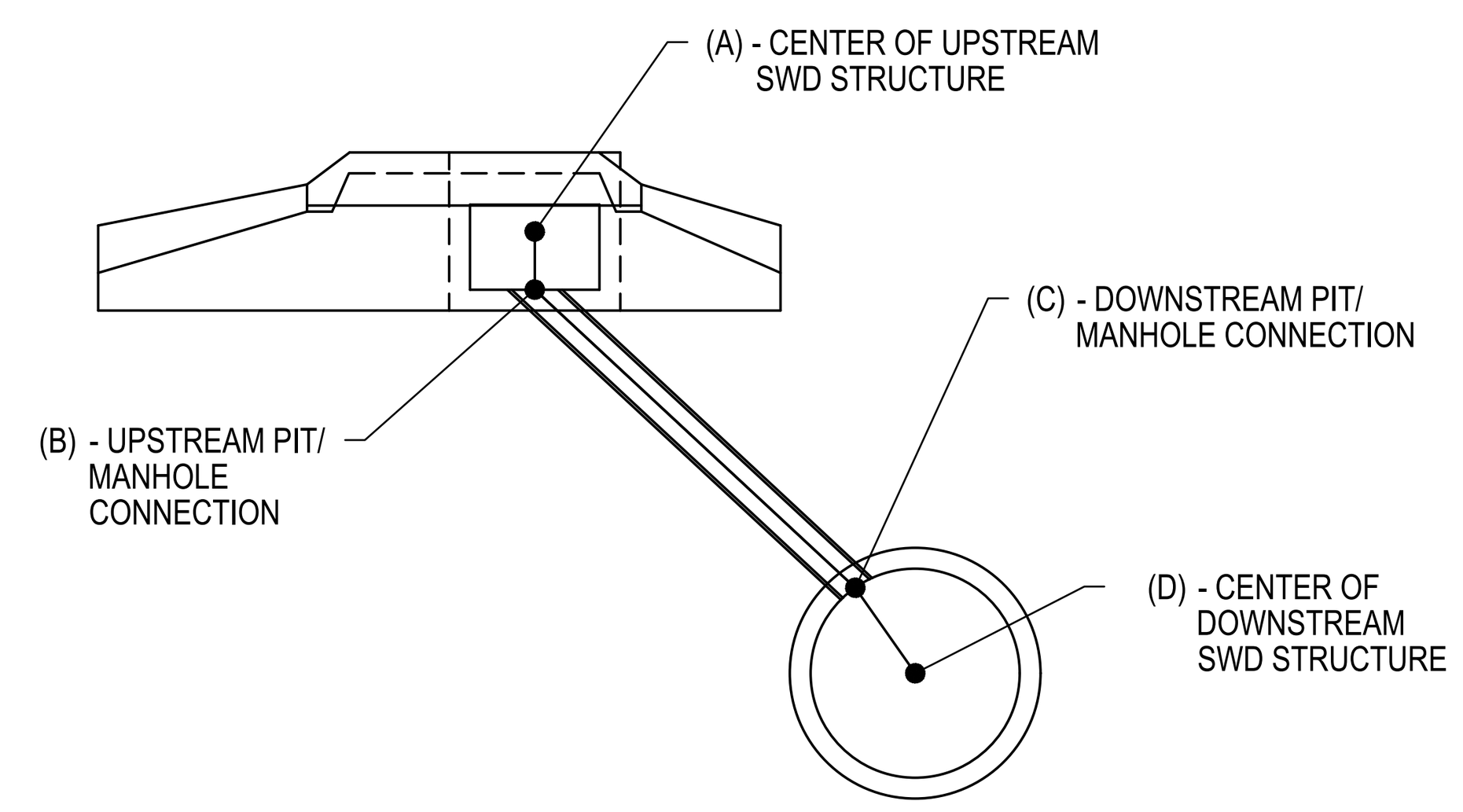
MANHOLE SETOUT POINT



ON GRADE GULLY SETOUT POINT



SAG GULLY SETOUT POINT



NOTES:
1. SEGMENT BC IS THE PIPE LENGTH MEASURED ALONG THE CENTERLINE.
2. THE CHAINAGE DIFFERENCE BETWEEN THE TWO SWD STRUCTURES (SHOWN IN THE LONG SECTION) IS THE SUM OF SEGMENTS AB, BC, AND CD

CHAINAGE DIFFERENCE BETWEEN SWD STRUCTURES

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	MB	DC	19.12.25

100mm on Original

Scales
HORZ 0 10 20 40 60 80 100m — 1:1000
VERT 0 1 2 4 6 8 10m — 1:100

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures

Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	D. CASTRO	DARLAN CASTRO RPEQ 19918 APPROVED BY AND ON BEHALF OF ARCADIS AUSTRALIA PACIFIC PTY LTD	

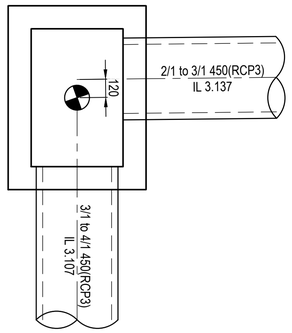
Project: NALU
122 MARINE PARADE MIAMI

Title: STORMWATER LONGITUDINAL SECTIONS

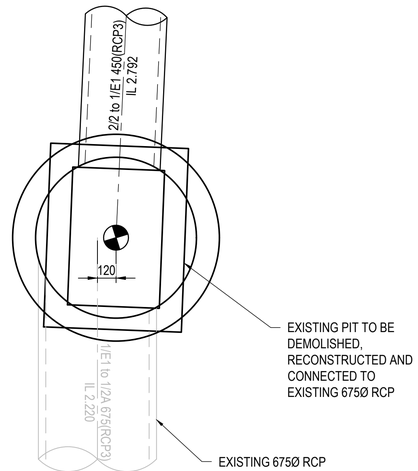
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SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number: 30304300
Drawing No.: NAL-AAP-DD-00-DRG-CI-0441
Issue: 02

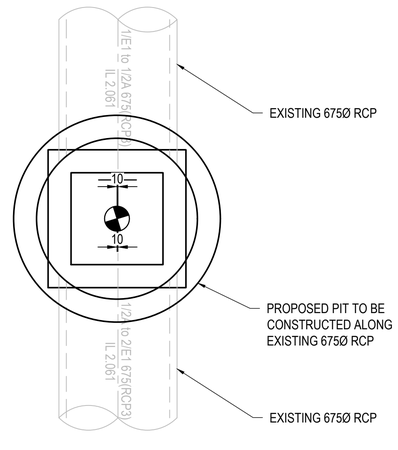
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3/1 - GCCC FIELD INLET
V-GRATE - 900 x 600
SL4.259



1/E1 - GCCC FIELD INLET
DOME TOP - 900 x 600
OVER 1050 CHAMBER
SL4.441



1/2A - GCCC FIELD INLET
DOME TOP - 600 x 600
OVER 1050 CHAMBER
SL4.289

PIT DETAIL
SCALE 1:20

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	MB	DC	19.12.25

100mm on Original

Scales
0 0.5 1 1.5 2m
1 : 20

Surveyor
JENSEN BOWERS

Architect
BDA ARCHITECTURE

Client
122 MARINE PARADE
PTY LTD

Status
FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	M. BANTOL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	D. CASTRO	SIGNATURE APPROVED AND ACCEPTED BY ARCADIS AUSTRALIA PACIFIC PTY LTD	

Project
NALU
122 MARINE PARADE MIAMI

Title
STORMWATER DETAILS

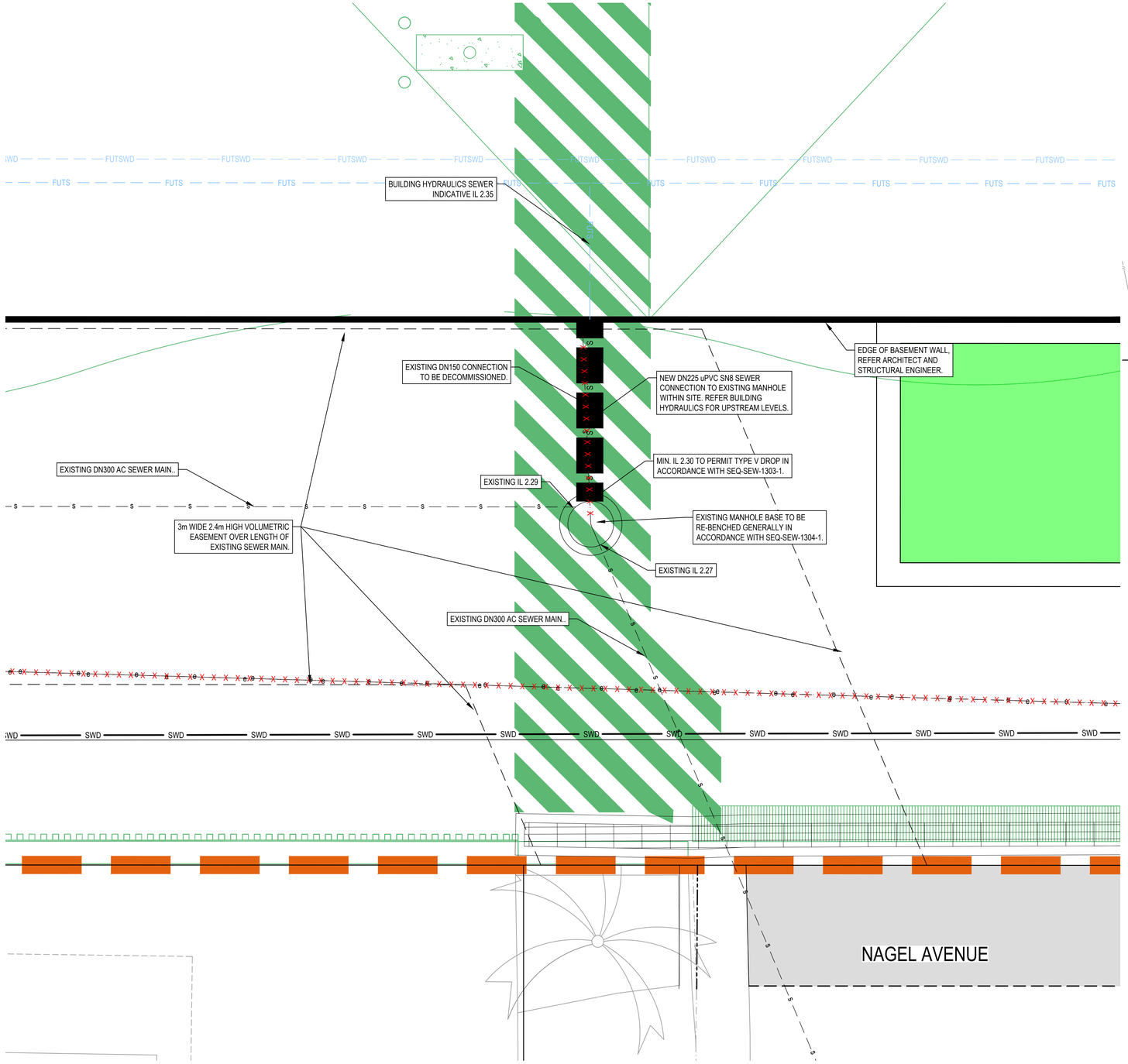
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Project Number: 30304300

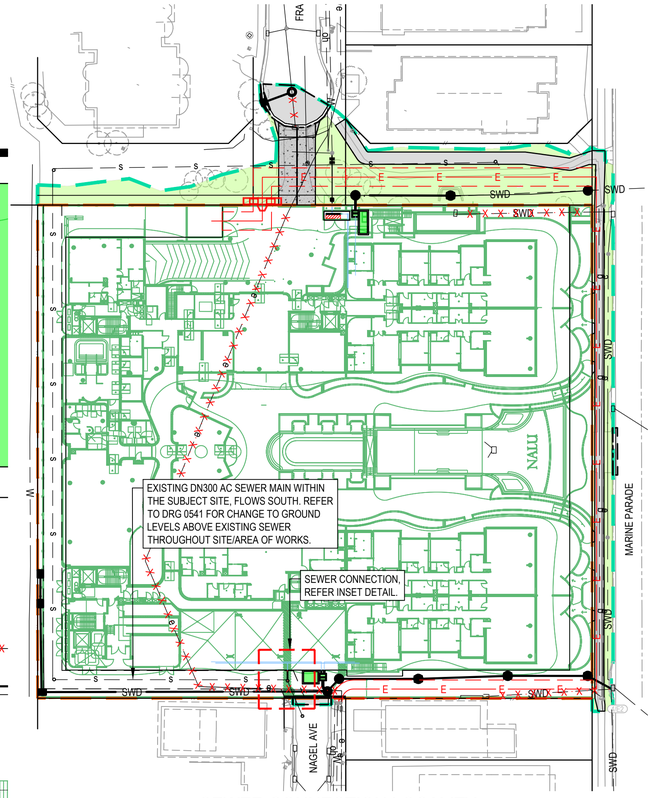
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Issue: 02

Date Plotted: 27 Mar 2026 - 03:06PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0481-StormwaterDrainageDetails.dwg



SEWER CONNECTION - INSET
1 : 20



SEWER CONNECTION LOCALITY
1 : 500

LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- 5.0 — PROPOSED SURFACE CONTOURS
- 5.0 — EXISTING SURFACE CONTOURS
- S — PROPOSED SEWERAGE RETICULATION
- SWD — PROPOSED STORMWATER DRAINAGE
- W — PROPOSED WATER RETICULATION
- swd — EXISTING STORMWATER DRAINAGE
- s — EXISTING SEWERAGE RETICULATION
- w — EXISTING WATER RETICULATION
- e — EXISTING UNDERGROUND ELECTRICAL
- oh — EXISTING OVERHEAD ELECTRICAL
- c — EXISTING COMMUNICATIONS
- g — EXISTING GAS

GENERAL NOTES

1. THE CONTRACTOR SHALL OBTAIN THE LOCATION OF ALL SERVICES AND PROTECT THESE SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO ADVISE ANY DISCREPANCIES OF THE LOCATION OF SERVICES TO THE SUPERVISING ENGINEER.
2. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT IMMEDIATELY IF MIN. & MAX. DEPTHS AS DEFINED BY SEQ WATER ARE EXCEEDED DURING CONSTRUCTION.
3. ALL WORK & MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SEQ SEWERAGE CODE SPECIFICATIONS & STANDARDS.
4. THE CONSTRUCTION ON THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THE REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
5. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER SUPERVISION OF WATER & WASTE.
6. SEWER SHALL BE DISUSED / ABANDONED IN ACCORDANCE WITH PREOCEDURES SET OUT IN THE SEQ SEWER CODE.
7. THE CONTRACTOR IS TO COMPLETE AND OBTAIN APPROVAL FOR COUNCIL'S APPLICATION TO WORK ON THE CITY'S INFRASTRUCTURE.
8. BENCH MARK & LEVELS TO AHD.

SAFETY

1. THE DESIGN & CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales
0 0.5 1 1.5 2m
1 : 20
0 5 10 20 30 40 50m
1 : 500

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures

Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

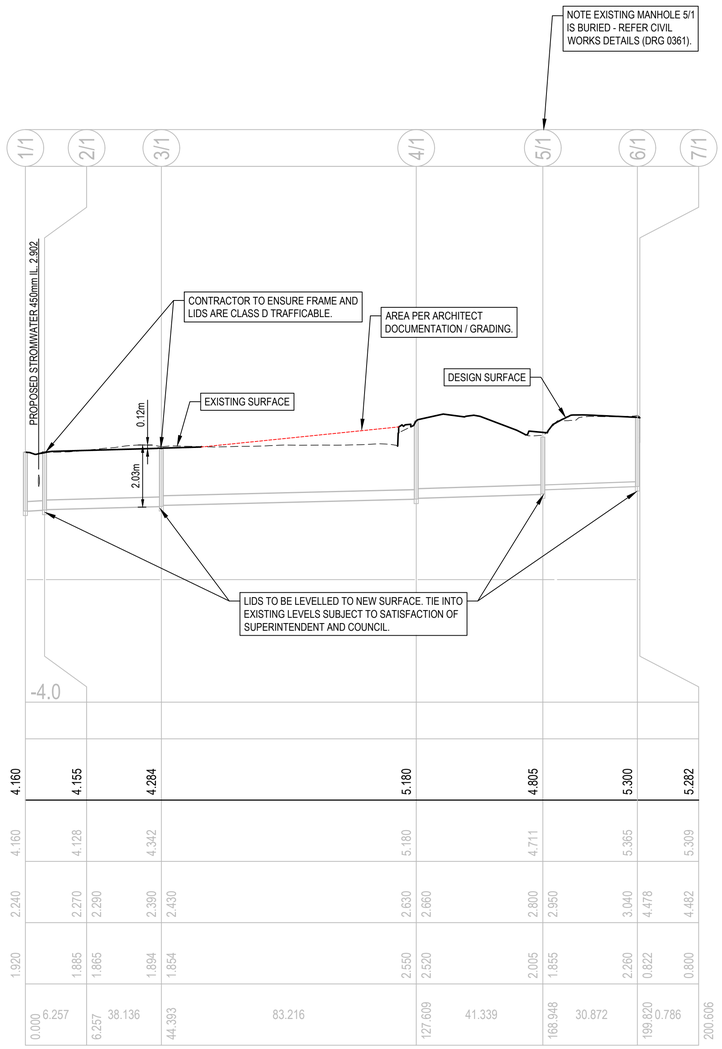
Title: SEWERAGE RETICULATION CONNECTION PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

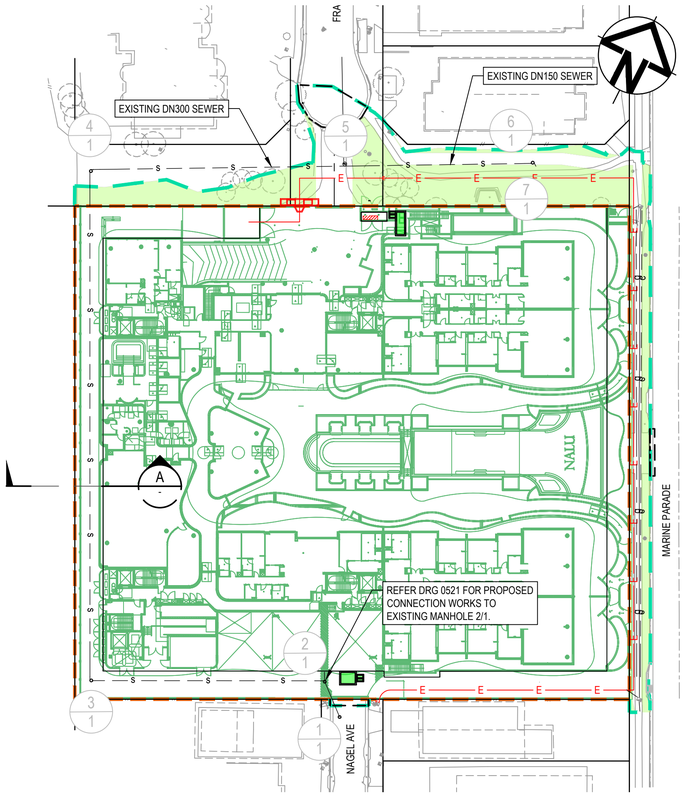
Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0521
Issue: 02

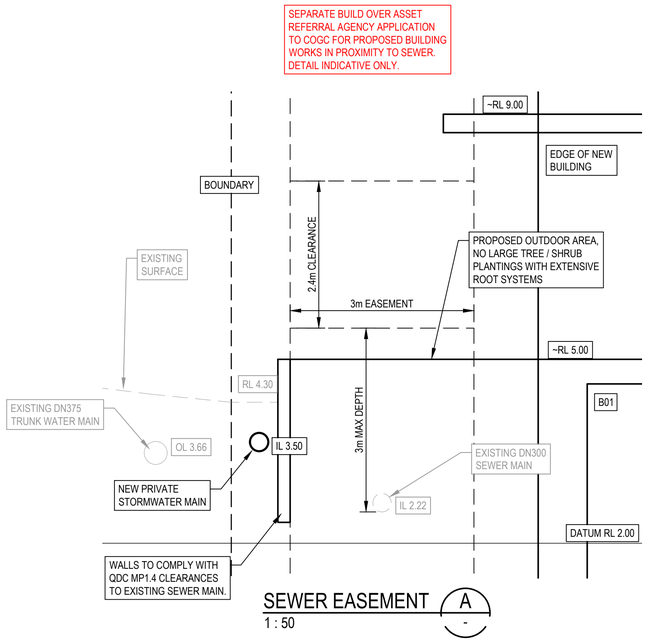
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EXISTING SEWER LONGITUDINAL SECTION
HORZ 1:1000
VERT 1:100



EXISTING SEWER LAYOUT
1 : 500



1 : 50

REFER DRG 0521 FOR NOTES.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

100mm on Original

Scales
HORZ 0 10 20 40 60 80 100m
1:1000
VERT 0 1 2 4 6 8 10m
1:100
1 : 500

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

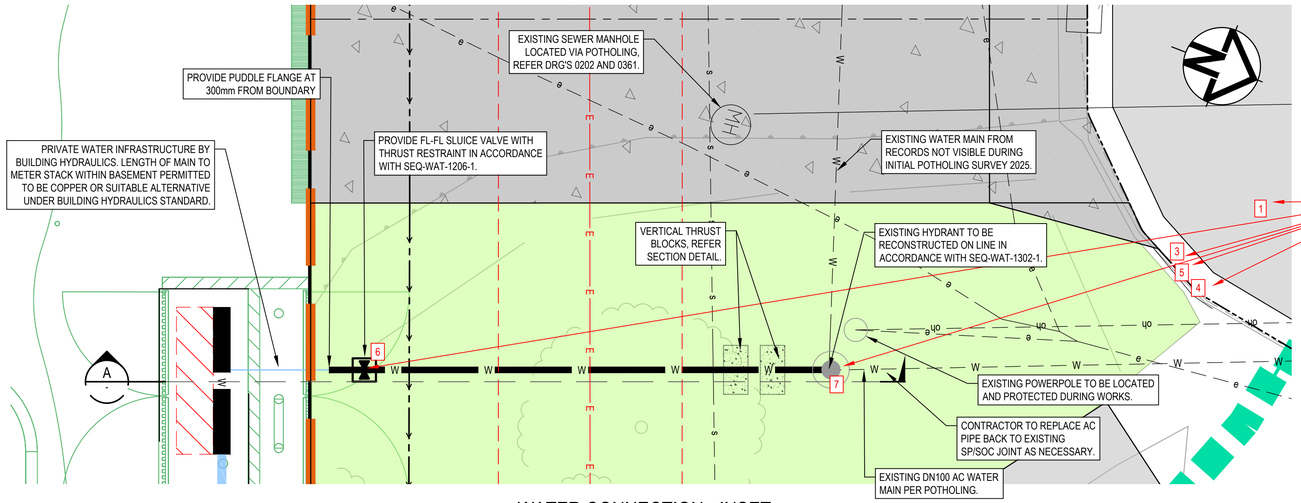
Project: NALU
122 MARINE PARADE MIAMI

Title: EXISTING SEWER LAYOUT AND LONGITUDINAL SECTIONS

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Arcadis Australia Pacific Pty Limited
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Project Number: 30304300
Drawing No.: NAL-AAP-DD-00-DRG-CI-0541
Issue: 02

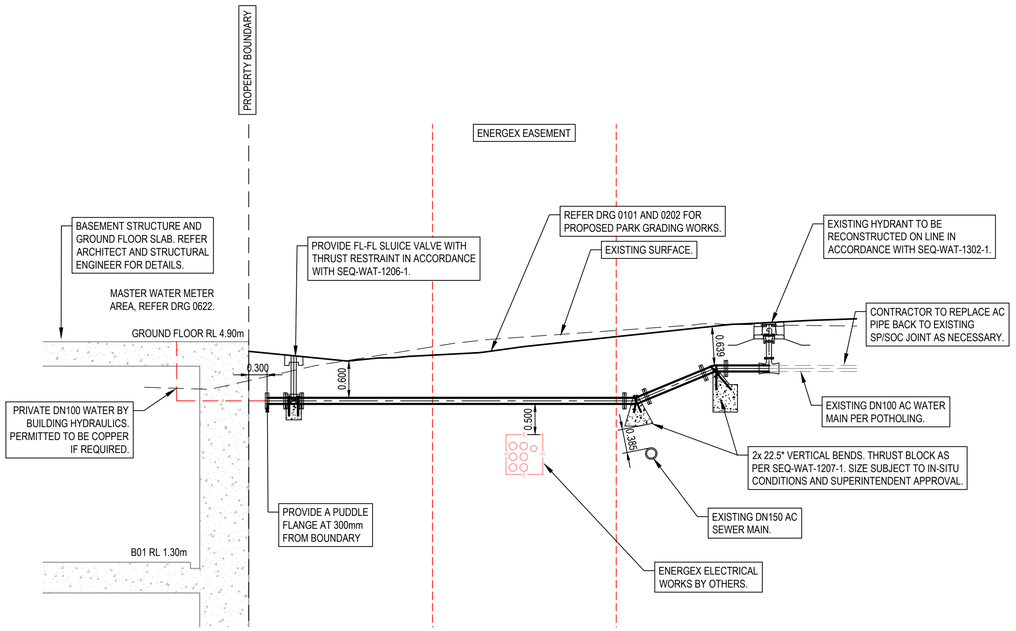
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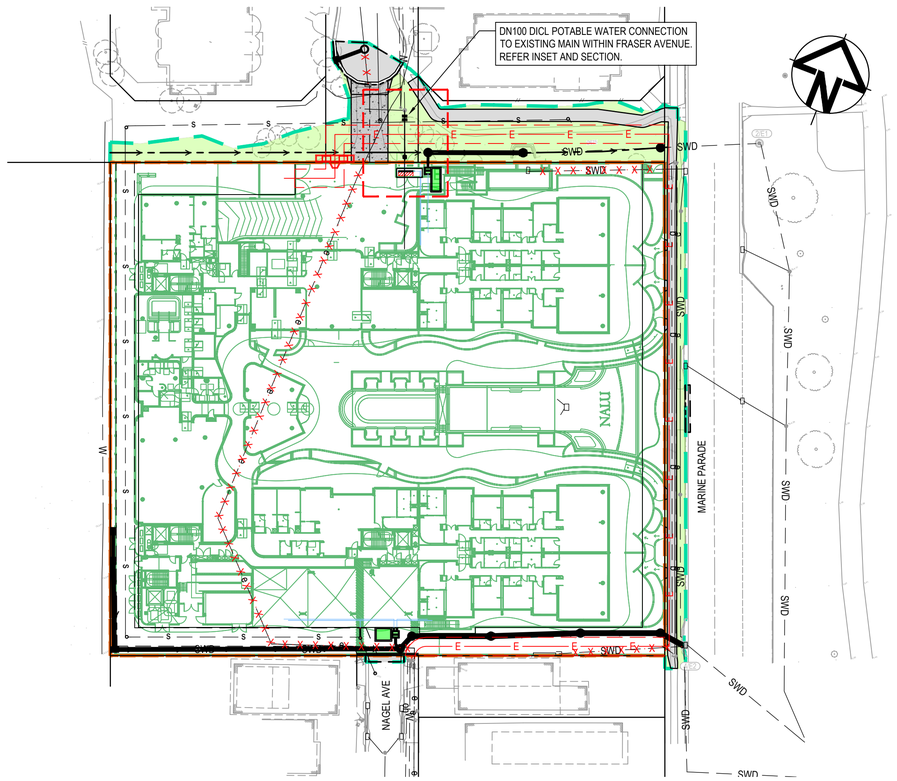
LINEMARKING WORKS IN ACCORDANCE WITH SEQ-WAT-1300-1, PROVIDE:

1. VALVE "V" PAVEMENT MARKING
2. BLUE REFLECTIVE CATS EYE FOR HYDRANT
3. WHITE KERB MARKING WITH VALVE KERB BADGE IN LINE WITH VALVE LOCATION
4. YELLOW KERB MARKING WITH HYDRANT KERB BADGE IN LINE WITH HYDRANT LOCATION
5. WATER METER KERB BADGE IN LINE WITH WATER METER
6. WHITE LID FOR VALVE
7. YELLOW LID FOR HYDRANT

WATER CONNECTION - INSET
1:50



WATER CONNECTION - DETAIL SECTION A
1:50



WATER CONNECTION - LOCALITY PLAN
1:500

LEGEND

- SITE BOUNDARY
- EXTENT OF WORK BOUNDARY
- 5.0 PROPOSED SURFACE CONTOURS
- 5.0 EXISTING SURFACE CONTOURS
- W PROPOSED WATER RETICULATION
- SWD PROPOSED STORMWATER DRAINAGE
- S PROPOSED SEWERAGE RETICULATION
- swd EXISTING STORMWATER DRAINAGE
- s EXISTING SEWERAGE RETICULATION
- w EXISTING WATER RETICULATION
- e EXISTING UNDERGROUND ELECTRICAL
- oh EXISTING OVERHEAD ELECTRICAL
- c EXISTING COMMUNICATIONS
- g EXISTING GAS

GENERAL NOTES

1. ALL FITTINGS SHALL BE D.I.CLASS PN16 FL-FL TO AS 2280-1986 UNLESS NOTED OTHERWISE.
2. ANCHOR BLOCKS SHALL BE INSTALLED AT ALL BENDS, JUNCTIONS AND DEAD ENDS.
3. THE CONTRACTOR SHALL OBTAIN THE LOCATION OF ALL SERVICES AND PROTECT THESE SERVICES PRIOR TO WORKING IN THE VICINITY. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
5. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
6. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED & DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP.
7. TEST / CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO.SEQ-WAT-1410-1.
8. 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 RETICULATION SYSTEM.
9. CONTRACTOR TO PROVIDE KERB MARKERS TO SEQ-CODE REQUIREMENT. REFER DRG 0381.
10. THE CONTRACTOR IS TO COMPLETE AND OBTAIN APPROVAL FOR COUNCIL'S APPLICATION TO WORK ON THE CITY'S INFRASTRUCTURE.
11. EXISTING REDUNDANT WATER METERS MUST BE DISCONNECTED TO SATISFACTION OF GOLD COAST WATER & WASTE (GCWW).

SAFETY

1. THE DESIGN & CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

WARNING : EXISTING SERVICES
EXISTING SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

EXISTING SERVICES PLOTTED FROM SURVEY AND POTHOLING. PLEASE REFER TO SURVEY/POTHOLING PLAN BY JENSEN BOWERS FOR FURTHER DETAILS.

ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.

Issue	Description	DR	CH	VE	Date
02	INFORMATION REQUEST RESPONSE	BW	CP	JS	27.03.26
01	ORIGINAL ISSUE	BM	CP	JS	19.12.25

Scales
0 0.5 1 2 3 4 5m
1 : 50
0 5 10 20 30 40 50m
1 : 500

100mm on Original

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: WATER CONNECTION PLAN AND SECTION

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www.arcadis.com/au

Project Number: 30304300

Drawing No.: NAL-AAP-DD-00-DRG-CI-0621

Issue: 02

Date Plotted: 27 Mar 2026 - 03:06PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0621-WaterConnectionPlan.dwg

NOTES

1. METER STACK ASSEMBLY TO BE IN ACCORDANCE WITH SEQ-WAT-1111-6 AND SEQ-WAT-1111-12
2. REFER DRG 0621 FOR NOTES

MASTER WATER METER COMPONENT SCHEDULE

No.	DESCRIPTION
4.	TYPE 1A DN100 DOMESTIC METER, ARAD WOLTMAN SILVER TURBO OR APPROVED EQUIVALENT
21.	DN100 TOP ENTRY DIRT BOX/STRAINER
23.	DUCTILE IRON FL-FL SHORT PIPE
26.	RESILIENT SEATED GATE VALVE - RSGV
27.	BLANK FLANGE
28A.	TYPE 2A DN100 FIRE METER, ARAD OCTAVE ULTRASONIC OR APPROVED EQUIVALENT
47.	TEST PORT
NOTE:	ALL COMPONENTS TO BE IN ACCORDANCE WITH CoGC MATERIALS AND ASSEMBLY SPECIFICATIONS AND COMPONENTS SCHEDULES FOR PROPERTY SERVICE INSTALLATIONS AND METER AND SUB-METER ASSEMBLIES STANDARD DRAWING 11-133 G. FURTHER SPECIFICATIONS ARE PROVIDED ON THESE STANDARD DRAWINGS.

LEGEND

- SITE BOUNDARY
- W — PROPOSED WATER RETICULATION
- FUTW — FUTURE WATER RETICULATION

GENERAL NOTES

1. ALL FITTINGS SHALL BE D.I.CLASS PN16 FL-FL TO AS 2280-1986 UNLESS NOTED OTHERWISE.
2. ANCHOR BLOCKS SHALL BE INSTALLED AT ALL BENDS, JUNCTIONS AND DEAD ENDS.
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4. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
5. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
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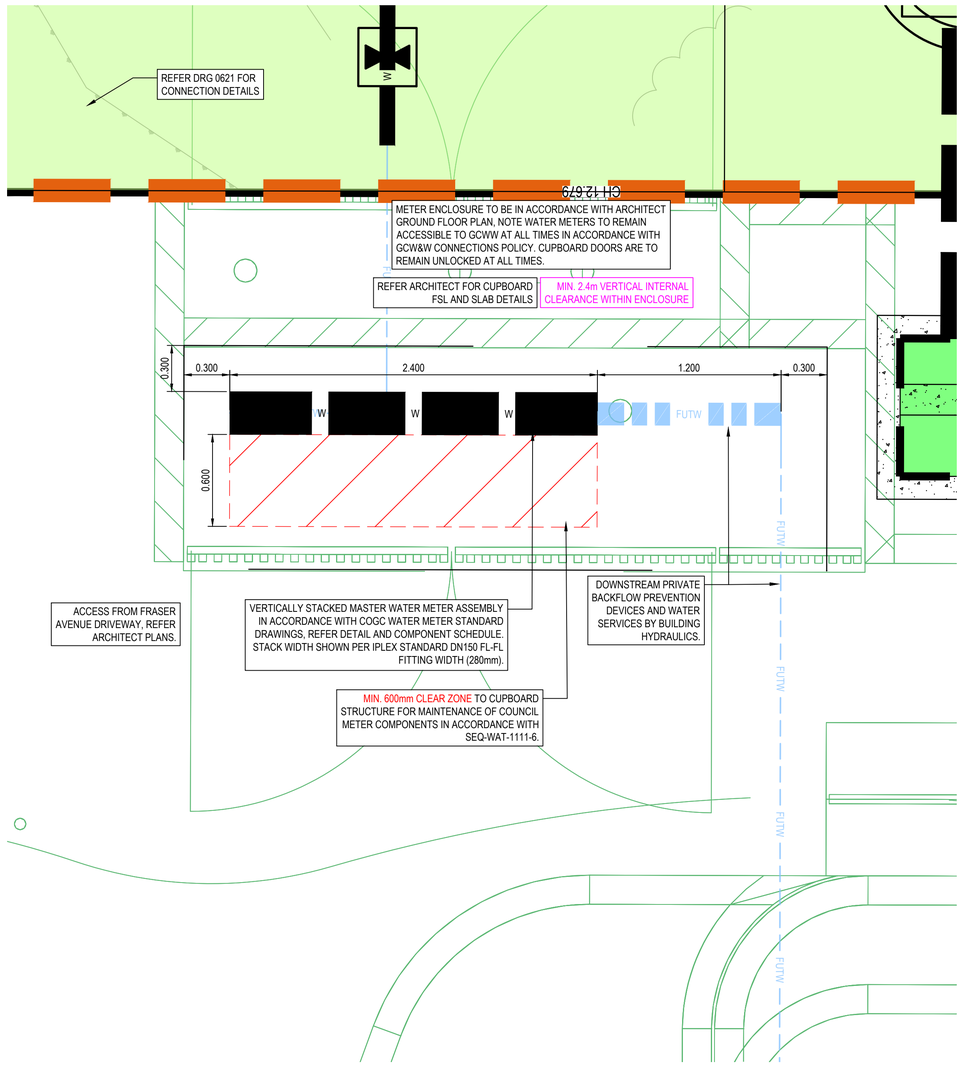
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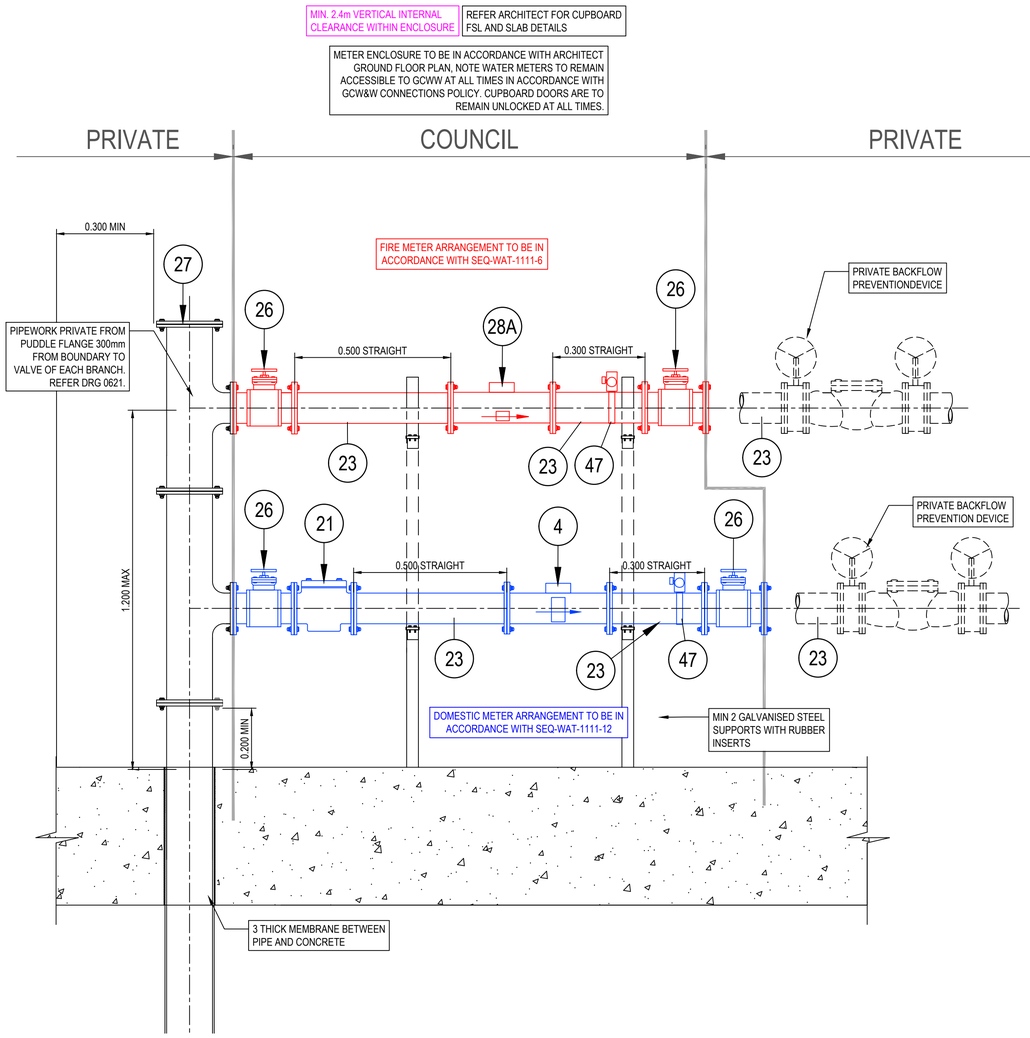
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ALL WORKS SUBJECT TO CITY OF GOLD COAST AND GOLD COAST WATER APPROVAL.



MASTER WATER METER - INSET
1 : 20



MASTER WATER METER - DETAIL SECTION
1 : 10

Issue	Description	DR	CH	VE	Date
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100mm on Original

Scales
0 0.5 1 1.5 2m
1 : 20
0 100 200 400 600 800 1000mm
1 : 10

Surveyor: JENSEN BOWERS
Architect: BDA ARCHITECTURE
Client: 122 MARINE PARADE PTY LTD

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

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Original Issue Signatures			
Drawn	B. MONROYO	Original Size	A1
Designed	C. PASCUAL	Height Datum	AHD
Project Manager	B. WIESER	Grid	LOCAL
Verified	J. STOCKWELL		

Project: NALU
122 MARINE PARADE MIAMI

Title: MASTER WATER METER DETAIL PLAN AND SECTION

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Project Number: 30304300
Drawing No.: NAL-AAP-DD-00-DRG-CI-0622
Issue: 02

Date Plotted: 27 Mar 2026 - 03:20PM File Name: C:\Users\bw84462\DC\ACCDocs\Arcadis ACC AU\AAU-30304300-Nalu\Project Files\10_WIP\10_Civil\STG_00\DRG\NAL-AAP-DD-00-DRG-CI-0622-MasterWaterMeterDetail.dwg