APPENDIX A

Drawings / Plans

PENSAR STRUCTURES

REDLAND BAY FERRY TERMINAL DESIGN

LOCALITY PLAN
Not to Scale

DRAWING INDEX

DRAWING NUMBER	DRAWING DESCRIPTION
497–001–C000–01	LOCALITY PLAN AND DRAWING INDEX
497–001–C001–01	NOTES AND LEGEND
497–001–C005–01	TYPICAL SECTIONS AND DETAILS SHEET 1
497–001–C005–02	TYPICAL SECTIONS AND DETAILS SHEET 2
497–001–C010–01	EXISTING FEATURES AND SERVICES
497–001–C020–01	DEMOLITION PLAN
497–001–C025–01	CONTROL LINE SETOUT
497–001–C030–01	GENERAL ARRANGEMENT SHEET 1
497–001–C030–02	GENERAL ARRANGEMENT SHEET 2
497–001–C030–03	GENERAL ARRANGEMENT SHEET 3
497–001–C035–01	GENERAL DETAILS SHEET 1
497–001–C035–02	GENERAL DETAILS SHEET 2
497–001–C050–01	PAVEMENT DETAILS
497–001–C060–01	SIGNS AND LINEMARKING
497–001–C070–01	SERVICES LAYOUT
497–001–C080–01	EARTHWORKS LAYOUT
497–001–C090–01	DREDGING PLAN
497–001–C090–02	TIDAL ANALYSIS PRE–CONSTRUCTION
497–001–C090–03	TIDAL ANALYSIS POST–CONSTRUCTION
497–001–C100–01	VEHICLE TURNPATHS SHEET 1
497–001–C100–02	VEHICLE TURNPATHS SHEET 2
497–001–C120–01	LANDSCAPE PLAN
497–001–C120–02	LANDSCAPE SCHEDULE SHEET 1
497–001–C120–03	LANDSCAPE SCHEDULE SHEET 2
497–001–C150–01	MC010 CROSS SECTIONS
Total = 25	

SUPPLEMENTARY DRAWING INDEX

DRAWING NUMBER	DRAWING DESCRIPTION
SD1	SHELTER DETAILS
SD2	GENERAL WASTE BIN DETAILS
SD3	RECYCLING BIN DETAILS
SD4	DIESEL TANK DETAILS

*Supplementary drawings included at back of drawing set.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No.	& Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
Not to Scale

REDLAND BAY FERRY TERMINAL

LOCALITY PLAN AND DRAWING INDEX

DRAWING NUMBER 497-001-C000-01

No IN SET 1 OF 25

REVISION B

Last Modified - Dec 10, 2021 - 4:05pm C:_SynergyWorkspace\data\S-AP-01\497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C000-DI-01.dwg By - FranG

GENERAL NOTES

1. These drawings shall be read in conjunction with the specifications, other consultants drawings and specifications, and all authority standard drawings and specifications.
2. Before proceeding with the work any discrepancies in the contract documents shall be referred for decision to the Superintendent.
3. The Contractor shall verify all locations of services prior to construction. The Contractor is responsible for the costs involved in the protection and the repair of any damaged services as a result of the work.
4. All materials and workmanship shall be in accordance with the relevant authority requirements. Where the relevant authority does not stipulate requirements, the Queensland Department of Transport and Main Roads Standard Specifications shall apply.
5. The Contractor shall prepare a Workplace Health and Safety Plan for the project and shall not commence work until it is complete and evidence of such has been provided to the Superintendent.
6. The Contractor shall not commence works until all required insurances are in place and evidence of such has been provided to the Superintendent.
7. The Contractor shall be responsible for notifying all relevant authorities before commencing work. Works shall not commence until pre-start meetings are held with the relevant authorities.
8. Where traffic management is required as part of the works the Contractor shall submit a traffic management plan for approval by the relevant authority prior to commencing work, and shall be responsible for the management of traffic throughout the construction period.
9. The Contractor is responsible for preparing Erosion and Sediment Control Plans, and undertaking Erosion and Sediment Control during construction in accordance with Council and other relevant authority's requirements.
10. The Contractor shall provide a consolidated set of test certificates demonstrating compliance with all construction requirements, along with the required authority CCTV reports at the completion of construction.
11. The Contractor shall be responsible for organising and co-ordinating any required private works that need to be undertaken by the approval authorities.
12. Unless otherwise advised, the Contractor shall be responsible for undertaking As Constructed survey of the works, including ADAC XML files with correct layering, labeling, co-ordinates and level information as per Council and water authority requirements.
13. The Contractor shall make allowance for works to be carried out by other Contractors or the Principal e.g. Electrical, Communications and Landscaping Contractors.
14. All levels are AHD.
15. All dimensions are in metres unless noted otherwise.
16. Scales shown are A1 size unless noted otherwise.
17. Do not scale from drawings.

ROADWORKS NOTES

1. Subgrade test results shall be forwarded to the Superintendent for the determination of pavement thickness prior to the excavation of the pavement box.
2. Tests shall include soaked CBR tests in accordance with Local authority requirements and other tests as requested by the Superintendent.

EARTHWORKS NOTES

1. The Contractor shall remove all structures, debris and fences from the site to the satisfaction of the Superintendent.
2. All environmental weeds are to be removed from the site.
3. The existing surface is to be cleared of vegetation matter prior to the start of earthworks operations.
4. All trees that are removed are to be mulched. The mulch is to be stockpiled on site for use in erosion and sediment control or landscaping in a location approved by the Superintendent.
5. Topsoil is to be stripped from all areas of proposed earthworks prior to the start of earthworks operations, and stockpiled in an approved location for re-use at a later date. The depth of topsoil stripping is to be agreed with the Superintendent.
6. If topsoil depth varies from that noted on plans, the Contractor shall advise the Superintendent immediately and seek direction to any required changes to the earthworks operations.
7. All earthworks operations shall be in accordance with Council Standards. Where not specified, allotment fill is to be carried out in accordance with Australian Standard AS3798 "Guidelines on Earthworks for Commercial and Residential Developments (Level 1 Supervision)". All other earthworks operations are to be carried out in accordance with MRTS04.
8. Imported fill material shall be approved by the Superintendent prior to commencing filling operations.
9. Earthworks are not to proceed past the following hold points until approval to proceed by the Superintendent is issued in writing:
   - After stripping topsoil, prior to undertaking any filling operations.
   - After laying subsoil drainage pipes, prior to backfilling.
   - After subgrade preparation, prior to placing pavement materials. (Note that a subgrade proof roll, inspected by the Superintendent, will be done after the installation of subsoil drains, unless the subsoil drains extend through the subbase, in which case the subgrade and subbase proof rolls will be required).
   - After completion of earthworks (including any necessary batter tining), prior to commencing topsoiling.
   - After completion of topsoiling, prior to laying turf, spraying hydromulch, spreading seed or mulch, or laying geofabric.
10. Topsoil is to be re-spread 75mm to 100mm thick on all footpaths, batters and lots within the limits of earthworks shown on the drawings unless noted otherwise in writing by the Superintendent.
11. Unless noted otherwise, the finished surface levels shown on the plans shall be the final levels after placement of surface coverings e.g. topsoil, turf, mulch, rock-lining etc.

BIORETENTION SWALE NOTES

1. The bioretention swale is to be used a as sedimentation basin during construction. De-watering shall not occur from the swale until testing confirms that it complies with Council Regulation.
2. Stormwater drainage infrastructure will not be accepted as on-maintenance until the site is stabilised through the provision of at least 80-90% ground cover as determined on site by Council's Compliance Coordinator.
3. The subsoil drains, filter media, topsoil and jute matting in the bioretention basin shall not be installed until 80-90% ground cover is achieved across the site. Council inspection hold points are required after installation of subsoil drains and after installation of filter media.
4. Immediately following installation of the filter media with the bioretention basin, the base of the entire swale shall be covered with BIDIM A24 Geofabric, 100mm of topsoil and turf.
5. All Materials to meet FAWB – Guidelines for Filter Media and Biofiltration Systems (V3.01 June 2009).

DRAINAGE NOTES

1. All stormwater drainage materials and construction standards including pipes, box culverts, pits, manholes, bedding, backfilling and testing (including CCTV) shall be in accordance with Council requirements.
2. All pipe sizes are in millimetres. All dimensions, lengths etc are in metres unless noted otherwise.
3. All Stormwater pipes (except inter-allotment drainage) to be RCP class 2 with RRJ joints unless noted otherwise, or otherwise required by Council.
4. The stormwater pipe classes have been designed for service loads only. The Contractor shall assess anticipated construction loads and upgrade the pipe classes, if necessary, in accordance with the Australian Standards at their own cost.
5. All manholes and property pits shall be constructed to match finished surface levels and slopes. The Contractor should confirm finished surface levels prior to pit construction.
6. Unless noted otherwise or otherwise required by the local authority, gully pits to be in accordance with IPWEAQ Standard Drawing DS-063. Field inlet pits to be in accordance with IPWEAQ Standard Drawing DS-050.
7. For pit reinforcement details refer to TMR Standard Drawings 1311 and 1307.
8. Setout for field inlets and manholes are to the centre of chamber unless otherwise noted.
9. All pipe/box culvert extensions will be on the same grade and alignment as existing unless noted otherwise.
10. The line, level and cross section of all open drains shall be inspected by the Superintendent prior to the installation of lining (e.g. geofabric, rock, topsoil and turf). The Contractor shall not proceed past this hold point until the Superintendent's approval is issued in writing.

CONCRETE NOTES

1. Prior to the construction of slab on ground, all topsoil and organic material shall be stripped from the site.
2. The subgrade beneath the concrete pavement shall be well compacted so as to provide no visible movement when proof rolled with a fully loaded water truck. Soft material shall be removed if required.
3. Unbound sub-base shall be well compacted type 2.5 crushed rock.
4. Unless noted otherwise PE plastic watertight membrane (minimum 200µm thickness) shall be placed over the subbase.
5. Unless noted otherwise, concrete pavements shall be N32 grade with SL72 mesh. Where pavement depths are greater than 150mm use SL82 mesh.
6. Minimum cover to be 40mm for slab thicknesses <150mm, and 50mm for slab thicknesses >150mm.
7. All joints to be Connolly preformed steel straight up contraction joints with permanent PVC capping with tear off strip unless otherwise shown or approved in writing by the Superintendent.
8. Contraction joints shall be provided at a maximum spacing of (1.5 x width) centres and expansion joints shall be provided at a maximum spacing of (6.0xWidth) unless approved otherwise.
9. If alternative joints are approved, saw cutting for joints shall occur whilst the concrete is still "green". i.e. as soon as the concrete can be walked on.
10. For expansion joints the material for the expansion wedge shall be a 10mm thick closed cell PE foam or approved equivalent.
11. The method of concrete curing shall generally be in accordance with the requirements of MRTS70 and shall be approved by the Superintendent prior to construction commencing.
12. To prevent evaporation during finishing an evaporation retardant shall be applied to the surface of the concrete immediately after the initial spreading has been completed, unless otherwise approved by the Superintendent.
13. Concrete testing requirements shall generally be in accordance with the requirements of MRTS70. A copy of the test results shall be given to Superintendent following construction.
14. Laps shall be such that the two outermost wires of one sheet of fabric overlap with the outermost wire of the sheet being overlapped.
15. Lapped portions shall be tied with wire at a maximum spacing of 500mm.
16. Reinforcement mesh shall be supported on chairs in a regular grid not exceeding 1.0m.
17. All dowels shall be 450mm long. For slab thicknesses <140mm use 16x16 square dowels; for slab thicknesses <160mm use 20x20 square dowels; for slab thicknesses <190mm use 24x24 square dowels.
18. Joint sealants shall be silicon and shall be installed in accordance with the manufacturers recommendations.
19. Unless noted otherwise all concrete shall be broomed finished. If exposed aggregate surfacing is specified a minimum aggregate PSV of 48 shall be used.
20. All concrete shall be thoroughly compacted with surface and/or immersion vibrators particularly around reinforcement and at corners of forms.
21. Concrete pavements shall not be trafficked inside of 7 days after placement.
22. All dowels shall be supported by preformed joints or on cradles and should not be tied to the reinforcement mesh.
23. The Superintendent shall undertake subgrade and prepour inspections. The Contractor shall not proceed past these hold points until the Superintendent's approval is issued in writing.

WATER RETICULATION NOTES

1. All Water reticulation materials and construction standards including pipes, valves, hydrants, conduits, tees, bends, markers, bedding, backfilling and testing shall be in accordance with the Water Authority's requirements.
2. All work on existing water reticulation to be coordinated by Contractor and carried out by the Water Authority (or Contractor if approved by the Water Authority) at Developer's expense.
3. Unless noted otherwise or otherwise required by the Water Authority.
   - All water mains to be PVC-O series 2 PN16 RRJ:
   - All water service conduits to be ø100 PVC-U Class 12
   - Water services shall be 32mm OD PE100 PN16 MDPE
   - Fire Hydrant Tee's and risers to be DN100
4. The nominated material types and classes do not allow for construction loading. The Contractor shall assess construction loadings and upgrade the pipe types or classes as necessary and obtain the Water Authority's approval.
5. Blue raised reflective pavement markers are required on the road centreline adjacent to hydrants. (In addition to pavement marking and hydrant marker post requirements.)
6. Brass "W" markers to be installed in kerb where water mains or water service conduits cross below.
7. Unless otherwise specified all materials and workmanship shall comply with the relevant Australian Standard.
8. All fittings, pipes etc. to be provided by the Contractor, except water meters, which shall be purchased from the Water Authorities.

LEGEND

EXISTING

dD dD
dS dS
dSRM dSRM
dWM dWM
dT dT
dNBN dNBN
E E E

PROPOSED

- Property boundary
- Stormwater
- Stormwater (DBYD)
- Sewer (DBYD)
- Sewer rising main (DBYD)
- (S) Sewer main
- (RM) Sewer rising main
- (W) Water
- Water (DBYD)
- Telecomms underground (DBYD)
- Telecomms NBN (DBYD)
- (E) (E) (E) Electrical aboveground
- (E) Eelectrical underground
- (A) Compressed air line
- Fuel line
- Top of wall
- 1.2m High weld mesh fence
- 1.5m High pool type fence
- Safety bollard (Staged construction)
- Dredging base
- HAT level
- MHWS level
- MSL level
- LAT level
- Priority development area boundary

PROPOSED AREAS LEGEND

- Road pavement
- Landscaping
- Footpath
- Rock batters
- Gravel base
- Buildings
- TURFPRO™ grass pavers
- Landscaping bioswale
- Planter box and landscaping
- Indisposable dredging material

SEWER RETICULATION NOTES

1. All Sewer materials and construction standards including pipes, manholes, bedding, backfilling and testing (including CCTV) shall be in accordance with the Sewer Authority's requirements.
2. Sewers to be laid in accordance with the Sewer Authority's Standard Drawings and Specifications.
3. Where sewers are laid in fill, such fill shall be compacted 95% standard A.A.S.H.O. in maximum layers of 150mm. Proof of compaction is to be submitted to the Superintendent.
4. Unless noted otherwise on sewer longitudinal section or otherwise required by Council, Sewer pipes shall be spigot/socket ø150mm PVC-U (SN8) or (PN12) where depth is greater than 3.0m. Where ductile iron pipe is specified, it shall be class PN35 heavy cement lined.
5. All work on existing sewers to be coordinated by Contractor and carried out by the Sewer Authority (or Contractor if approved by the Sewer Authority) at Developer's expense. This includes requests for quotations for live connections.
6. Minimum clear cover to be 0.6m in all lots and 0.9m in road reserve. Additional depth may be required by Service Authority in lots and footpaths where access driveways are to be constructed.
7. The preferred sewer alignment is 1.0m to 1.5m from side and rear boundaries.
8. Drops to be internal in D.I.C.L. or PVC.
9. Manhole covers shall be Class B 600mm clear opening ductile iron covers and cast iron frames. Class D covers to be used in roads and driveways. Where finished manhole surface levels are below Q100, bolt down lids to be used.
10. Where sewer manholes are located in roads or driveways, the finished surface of the manhole cover shall be constructed to match the level and grade of the finished surface and have class D cast iron cover.

SIGNS AND PAVEMENT MARKING NOTES

1. All works to join smoothly and neatly to existing works.
2. All signs, pavement markings, chevron pavement markings and raised pavement markers shall be in accordance with TMR's Manual of Uniform Traffic Control Devices (MUTCD).
3. Tactile Ground Surface Indicators are to be installed as per TMR standard drawing KRG1.
4. Pavement Markings to be verified by the Superintendent.
5. Sign clearances of 1.0m for cyclists in accordance with Austroads Guide to Road Design Part 6A Section 4.10.1.
6. All existing pavement marking within the extents of works that is not being removed by pavement works is to be removed by grinding.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2021/1187
Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.au

CLIENT: PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE: NTS

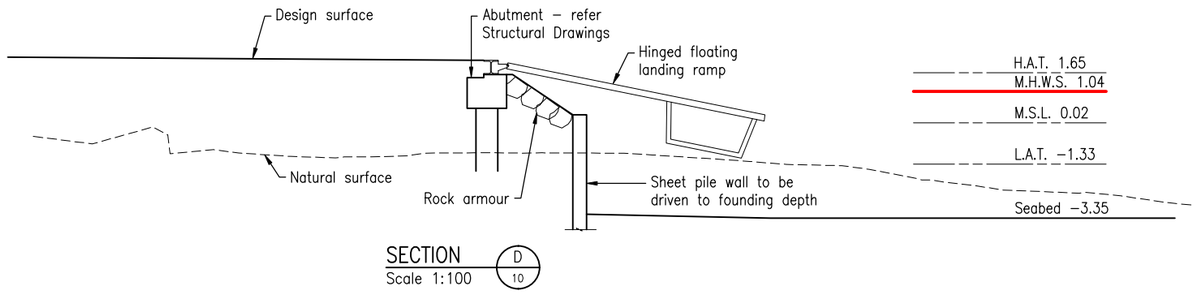
REDLAND BAY FERRY TERMINAL

NOTES AND LEGEND

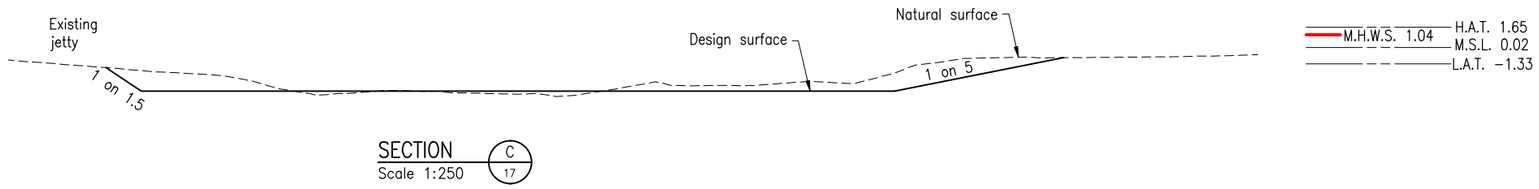
DRAWING NUMBER: 497-001-C001-01

No IN SET: 2 OF 25

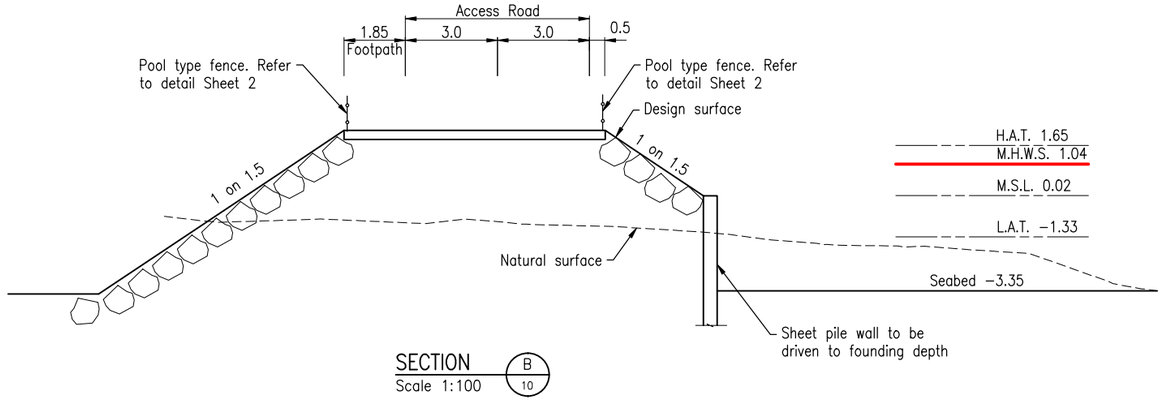
REVISION: B



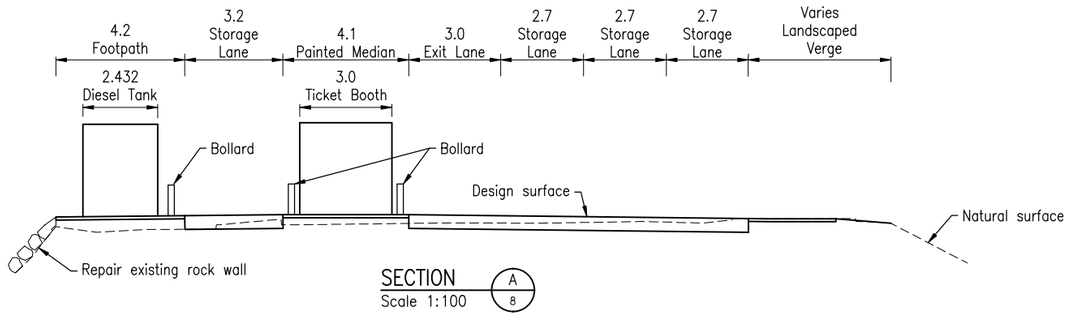
SECTION D
Scale 1:100



SECTION C
Scale 1:250



SECTION B
Scale 1:100



SECTION A
Scale 1:100

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ROCK ARMOUR NOTES

1. These drawings are to be read in conjunction with the Technical Specification.
2. Dimensioned layer thicknesses are an indication of minimum thickness only; and generally reflect that required to schieve the number of specified armour layers.
3. Seawall Design Parameters:
   - Design Event = 1% Annual Exceedance Probability
   - Ocean storm tide level (including wave setup) = RL4.0m AHD
   - Design wave parameters (at toe of seawall)
     Hs = 1.59 metres
     Tp = 4.47 seconds
   - Duration of joint storm tide and waves = 6 hours
4. Rock armour to be carefully placed to match smoothly into existing rock shelf and boulders.
5. Loose rock < armour size to be removed prior to placement of armour

TYPE A ROCK – PRIMARY ARMOUR

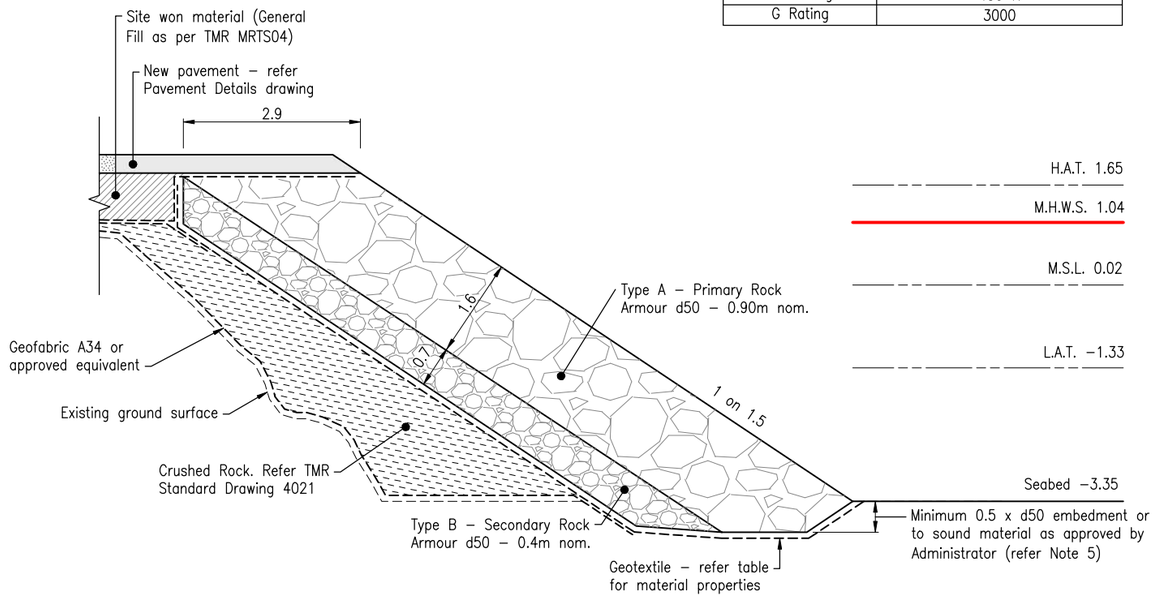
- D50 = 0.90m
- M50 = 1841kg
- Armour is to be placed to ensure interlocking is achieved

TYPE B ROCK – SECONDARY ARMOUR

- D50 = 0.40m
- M50 = 173kg
- Armour is to be placed to ensure interlocking is achieved

GEOTEXTILE PROPERTIES

Parameter	Requirement
Material	Non–woven needle punched staple fibre polyester or polypropylene meeting minimum strength Class D and Filtration Class 1
Elongation	> = 30%
Grab Strength	1200 N
Tear Strength	450 N
G Rating	3000



ROCK ARMOUR DETAIL
Scale 1:50

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

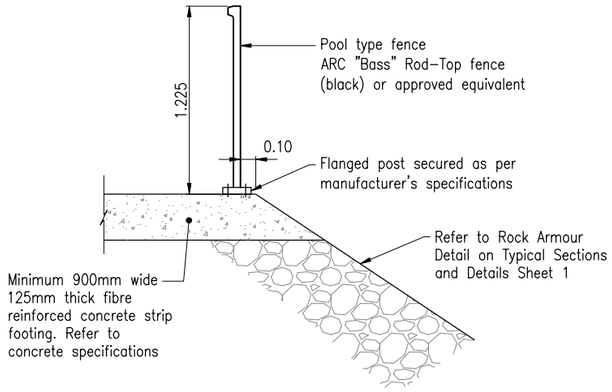
SCALE
1:50 0 0,5 1 2 A1
1:100 A3
1:100 0 1 2 3 4 A1
1:200 A3
1:250 0 5 10 A1
1:500 A3

REDLAND BAY FERRY TERMINAL

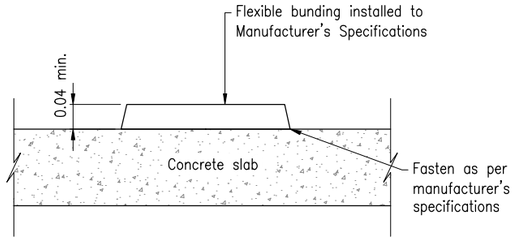
TYPICAL SECTIONS AND DETAILS SHEET 1

DRAWING NUMBER 497-001-C005-01
No IN SET 3 OF 25
REVISION B

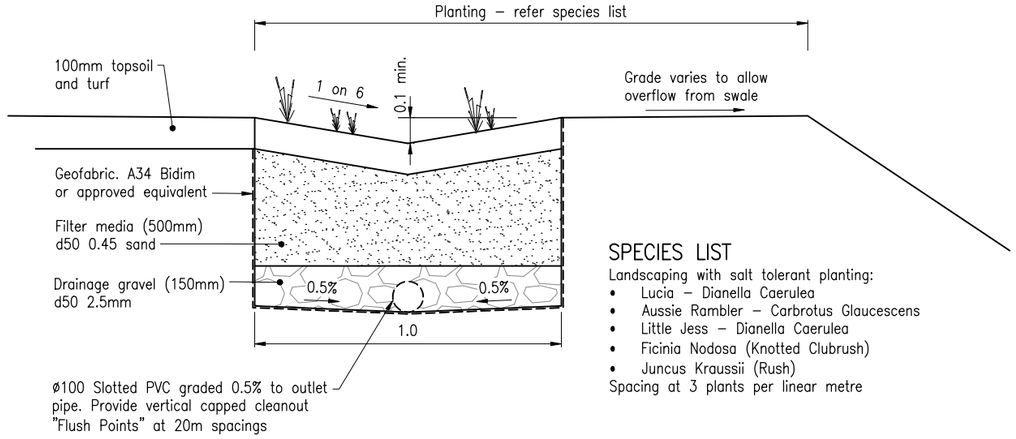
Last Modified - Dec 10, 2021 - 4:06pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C005-TC-01.dwg By - FranG



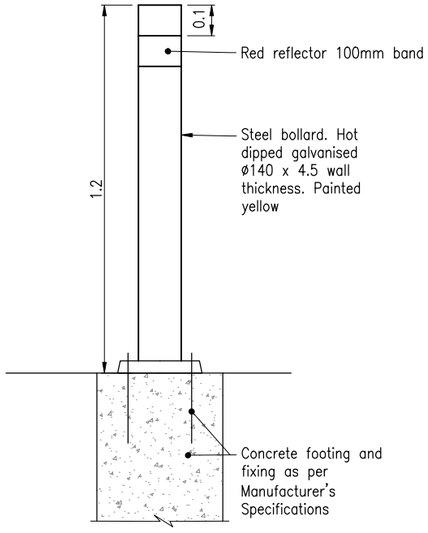
TYPICAL FENCE DETAIL ON ROCK WALL
Scale 1:20



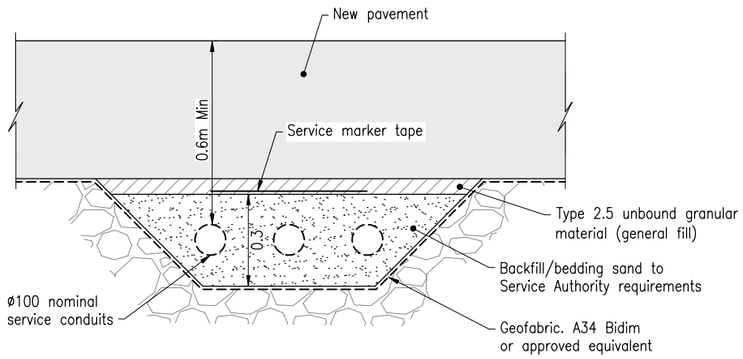
TYPICAL BUND DETAIL
Not to Scale



BIORETENTION SWALE DETAIL
Scale 1:10



BOLLARD DETAIL
Scale 1:10



TYPICAL SERVICES TRENCH DETAIL
Scale 1:10

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2021/1187
Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:06pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C005-TC-02.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:10 0 0,1 0,2 0,3 0,4 A1
1:20 A3
1:20 0 0,2 0,4 0,6 0,8 A1
1:40 A3

REDLAND BAY FERRY TERMINAL
TYPICAL SECTIONS AND DETAILS
SHEET 2

DRAWING NUMBER 497-001-C005-02
No IN SET 4 OF 25
REVISION B

CARPARK

Site Benchmark
PSM51697
RL 2.068m

2
SP261696

1
SP261696

1
AP1696

186
SL8029

167
SP279927

WEINAM STREET

ESPLANADE

MORETON BAY

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:06pm C:_SynergyWorkspace\data\SAP-011497-001 RBay Ferry_225401\Design\AutoCAD_DRAWINGS\497-001-C010-EF-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:250 0 5 10 A1
1:500 A3

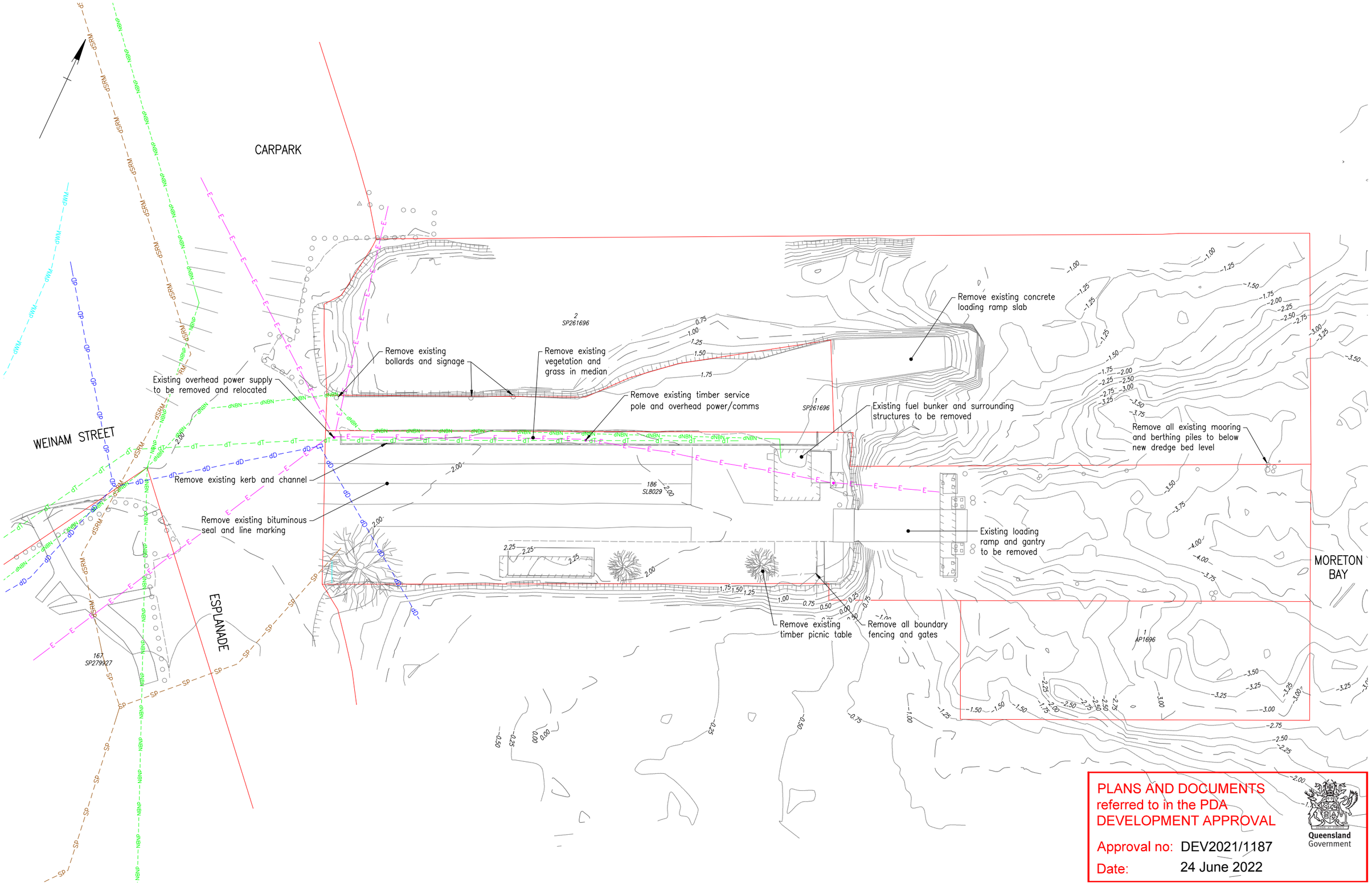
REDLAND BAY FERRY TERMINAL

EXISTING FEATURES AND SERVICES

DRAWING NUMBER 497-001-C010-01

No IN SET 5 OF 25

REVISION B



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:06pm C:_SynergyWorkspace\data\SA-P-01\497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C020-DP-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	22/11/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	30/11/2021

SCALE
1:250 0 5 10 A1
1:500 A3

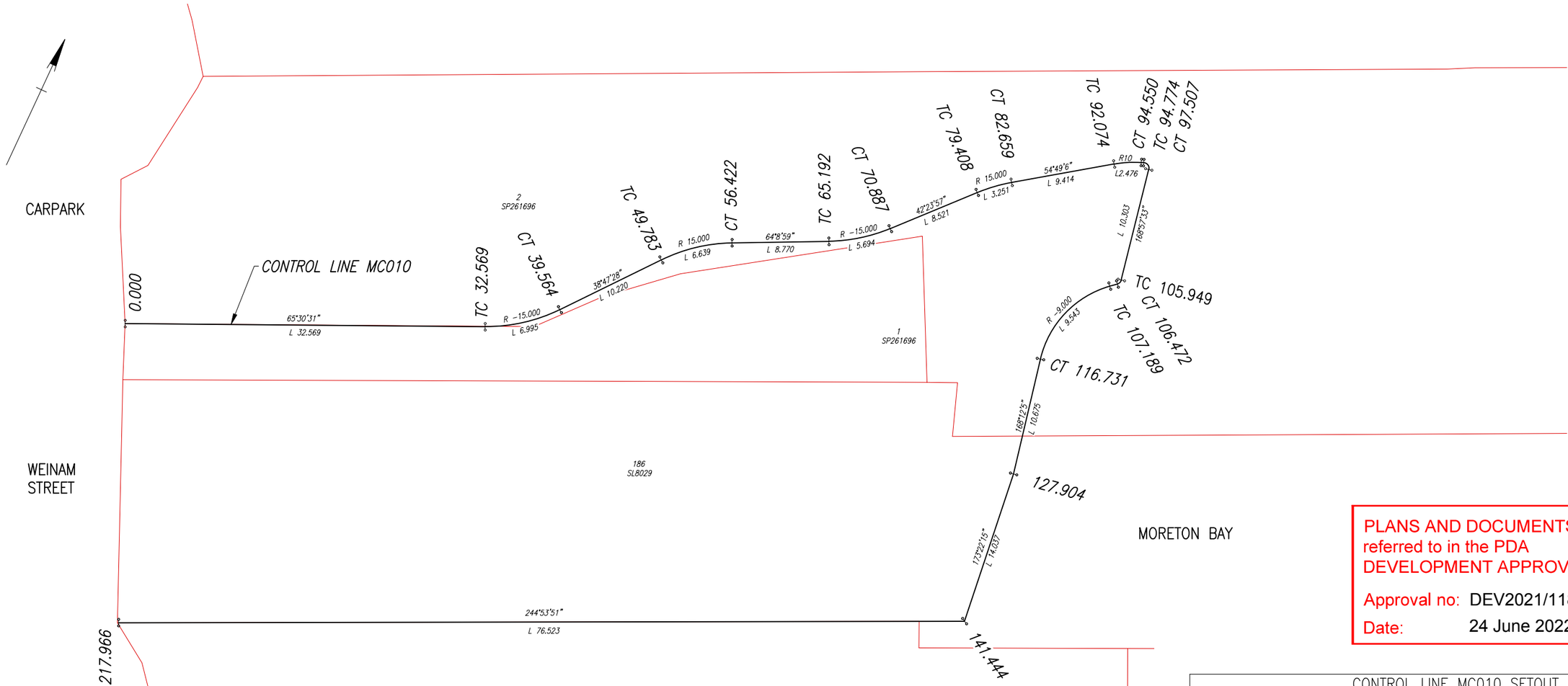
REDLAND BAY FERRY TERMINAL

DEMOLITION PLAN

DRAWING NUMBER 497-001-C020-01

No IN SET 6 OF 25

REVISION B



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

CONTROL LINE MC010 SETOUT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	530468.404	6945349.212	1.950	65°30'30.81"			
TC	32.569	530498.043	6945362.713	1.800	65°30'30.81"			
IP 2	36.066	530501.284	6945364.190	1.800		R = -15.000	6.995	26°43'02.65"
CT	39.564	530503.516	6945366.967	1.800	38°47'28.16"			
TC	49.783	530509.918	6945374.932	1.800	38°47'28.16"			
IP 3	53.103	530512.033	6945377.562	1.800		R = 15.000	6.639	25°21'31.09"
CT	56.422	530515.070	6945379.034	1.800	64°08'59.25"			
TC	65.192	530522.962	6945382.858	1.800	64°08'59.25"			
IP 4	68.040	530525.556	6945384.114	1.800		R = -15.000	5.694	21°45'02.13"
CT	70.887	530527.499	6945386.243	1.800	42°23'57.12"			
TC	79.408	530533.245	6945392.535	1.800	42°23'57.12"			
IP 5	81.034	530534.345	6945393.741	1.800		R = 15.000	3.251	12°25'09.34"
CT	82.659	530535.679	6945394.681	1.800	54°49'06.45"			
TC	92.074	530543.374	6945400.105	1.800	54°49'06.45"			
IP 6	93.312	530544.391	6945400.822	1.800		R = 10.000	2.476	14°11'14.70"
CT	94.550	530545.553	6945401.268	1.800	69°00'21.15"			
TC	94.774	530545.762	6945401.348	1.800	69°00'21.15"			
IP 7	95.210	530546.318	6945401.561	1.800		R = 0.500	0.872	99°57'11.90"
CT	95.646	530546.432	6945400.977	1.800	168°57'33.05"			
TC	105.949	530548.405	6945390.865	1.800	168°57'33.05"			
IP 8	106.210	530548.460	6945390.582	1.800		R = 0.500	0.524	59°59'29.80"
CT	106.472	530548.242	6945390.392	1.800	228°57'02.85"			
TC	107.189	530547.702	6945389.922	1.800	228°57'02.85"			
IP 9	111.960	530543.724	6945386.458	1.800		R = -9.000	9.543	60°44'58.09"
CT	116.731	530544.802	6945381.294	1.800	168°12'04.76"			
IP 10	127.406	530546.985	6945370.845	1.800				
IP 11	141.444	530548.606	6945356.901	1.834				
IP 12	217.966	530479.310	6945324.437	2.140	244°53'50.80"			

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT: PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE: 1:200 / 1:400 — 0 2 4 6 8 A1 / A3

REDLAND BAY FERRY TERMINAL

CONTROL LINE SETOUT

DRAWING NUMBER: 497-001-C025-01 | No IN SET: 7 OF 25 | REVISION: B

Last Modified - Dec 10, 2021 - 4:06pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C025-C_-01.dwg By - FrianG

Ch0.00–Ch35.00
Localised repair to existing grouted rock wall failures

Refer details on Drawing Number 497–001–C035–01

68kL Diesel storage tank by Petro Industrial (12.192x2.438). Storage to be limited to 58.8kL per manufacturer's details

Kerb and channel

Existing drainage pit and pipe. Remove grate and frame. Reinstate with heavy duty grate and set to new surface levels

Ticket booth (3x3)

Staff parking

Exit lane

Wheel stop/kerb

Gravel staff parking bay

Future storage shed and bollards(7.5x3.0m)

Existing demountable to remain

Existing wall to remain

Existing wall Ch172.500–Ch2404.00

Joins Sheet 2

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

NOTE
For notes and legend, refer to Drawing Number 497–001–C001–01.

Last Modified - Dec 15, 2021 - 4:36pm C:_Synergy\Workspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C030-GA-01.dwg By - JasonM

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:125 0 2.5 5 A1
1:250 A3

REDLAND BAY FERRY TERMINAL

GENERAL ARRANGEMENT SHEET 1

DRAWING NUMBER 497-001-C030-01

No IN SET 8 OF 25

REVISION B

Ch0.00–Ch35.00
Localised repair to existing
grouted rock wall failures

Ch35.00–Ch45.00
Localised repair to existing
ungrouted rock wall failures

Ch45.000–Ch95.200 New rock wall

New rock wall

Transition to Kerb
and channel

100mm subsurface pipe outlet

68kL Diesel storage tank by Petro
Industrial (12.192x2.438). Storage
to be limited to 58.8kL per
manufacturer's details

Kerb and channel

Transition to Kerb
and channel

Exit lane

Hinged floating
landing ramp

Refer details on
Drawing Number
497–001–C035–02

Wheel stop/kerb

Gravel staff parking bay

Future storage shed and
bollards(7.5x3.0m)

Existing demountable
to remain

Existing wall
to remain

Bike rack area

Wheel stop/kerb

Gravel staff parking bay

Future sheds on
concrete slabs

100mm subsurface pipe outlet

100mm subsoil connection
pipe under grass pavers

Ch141.500–Ch172.500
New rock wall and
sheet pile

Existing wall Ch172.500–Ch2404.00

Replenish existing rock Ch141.00–Ch172.00

Joins Sheet 1

Joins Sheet 3

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

NOTE
For notes and legend, refer to Drawing Number 497–001–C001–01.

Last Modified - Dec 15, 2021 - 4:38pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C030-GA-02.dwg By - JasonM

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:125 0 2.5 5 A1
1:250 A3

REDLAND BAY FERRY TERMINAL

GENERAL ARRANGEMENT
SHEET 2

DRAWING NUMBER 497-001-C030-02

No IN SET 9 OF 25

REVISION B

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Refer details on Drawing Number 497-001-C035-02

Hinged floating landing ramp. Refer Structural Drawings

Ch 95.200-Ch141.500 New rock wall and sheet pile

Hinged floating landing ramp. Refer Structural Drawings

Dredging base extents

1 AP1696

PILE LEGEND

P1 610CHS25 with Arch Fenders

P2 610CHS25

P3 762CHS25

Pile locations to be confirmed by marine architect to suit vessel mooring points

NOTE

For notes and legend, refer to Drawing Number 497-001-C001-01.

Joins Sheet 2

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\SAP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C030-GA-03.dwg By - FrancG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:125 0 2.5 5 A1
1:250 A3

REDLAND BAY FERRY TERMINAL

GENERAL ARRANGEMENT SHEET 3

DRAWING NUMBER 497-001-C030-03

No IN SET 10 OF 25

REVISION B

Remove grate and frame. Reinstate with heavy duty Class D grate and set to new surface levels

25mm Water service to building

Bollards

Relocate existing power service pole

Pedestrian crossing (painted)

2.0

Upgrade existing water meter to 63mm water meter and service

Water service pit for "T" and isolation valve

Proposed power service pole (location to be confirmed)

63mm Domestic water service

Service window

Ticket booth (4.5x3.0m)

Stop sign

Bollards

Staff parking

Exit lane

Diesel storage tank (12.192x2.438m)

1.0

1.0

63mm Domestic water service

1.85

Storage shed (7.5x3.0m)

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C035-GD-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:50 0 0.5 1 2 A1
1:100 A3

REDLAND BAY FERRY TERMINAL

GENERAL DETAILS
SHEET 1

DRAWING NUMBER 497-001-C035-01

No IN SET 11 OF 25

REVISION B

Joins below right

Pedestrian chain gate (6mm yellow safety chain with fixed end and padlock)

Main switchboard

Tie fencing to corner of shed

4 x stackable sliding doors

Colourbond shed

1.2m high weld mesh fence. Refer Note 1

Main fuel line "T" and isolation valves

Air compressor (320CPM 15AMP 3.5HP 110 litre pallet feet)

Spill kit (marine pallet high capacity 780 litre Nally Mega Bin)

Waste oil tank (100litre with spill tray and pallet feet)

Hose reel (30m 19mm hose)

1.2m high weld mesh fence. Refer Note 1

Fork truck access to shed

Plain concrete (broom finish)

Sewer rising main connection pit

Keco Pump-a-head (5HP peristaltic pump)

Bollards

Keco (RPC)

Safety shower

Services pillar (air, power, water tap and light)

Tie fencing to corner of shed

Pedestrian chain gate (6mm yellow safety chain with fixed end and padlock)

Relocate existing power service pole

Wheelie bin spill kit

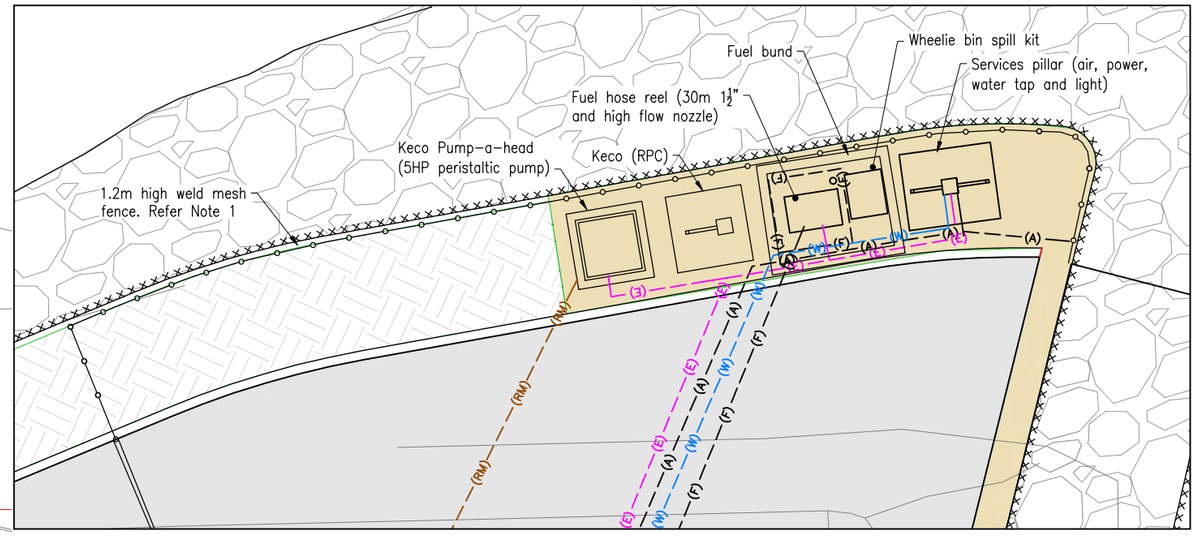
Black 1.5m high pool type fence

Bollards

Fuel bund

Fuel hose reel (30m 1½" and high flow nozzle)

Plain concrete (broom finish)



Joins above left

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

NOTE 1
Fencing to be pool type fence
ARC "Bass" Rod-Top fence (black)
or approved equivalent.

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

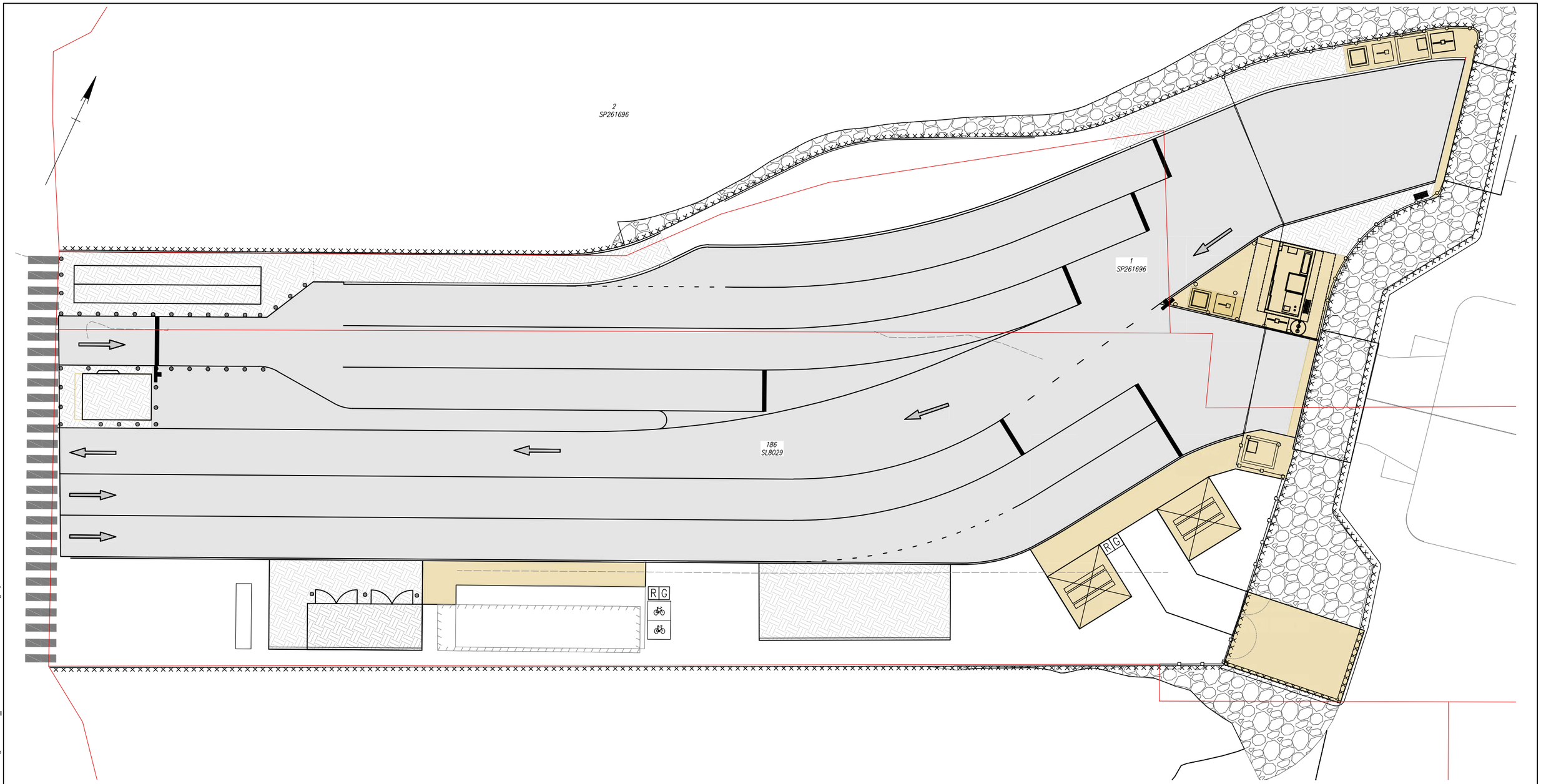
SCALE
1:50 1:100 0 0.5 1 2 A1 A3

REDLAND BAY FERRY TERMINAL

GENERAL DETAILS
SHEET 2

DRAWING NUMBER 497-001-C035-02
No IN SET 12 OF 25
REVISION B

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_225401\Design\AutoCAD_DRAWINGS\497-001-C035-GD-02.dwg By - FranG



LEGEND

Pavement	50mm DG14 Asphalt AMC5 Primer Seal, 10mm Aggregate (Spray rate 1.3 l/m², Spread rate 1.0m²/130m²) 100mm Type 2.1 unbound granular base 150mm Type 2.3 unbound granular subbase 150mm Type 2.5 unbound granular subgrade (min. replacement)
Concrete	125mm thick fibre reinforced concrete. Refer to Standard Drawing R-RCS-5
Gravel base	10mm gap graded gravel (100mm minimum depth)

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\SAP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C050-PD-01.dwg By - FrainG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:125 0 2.5 5 A1
1:250 A3

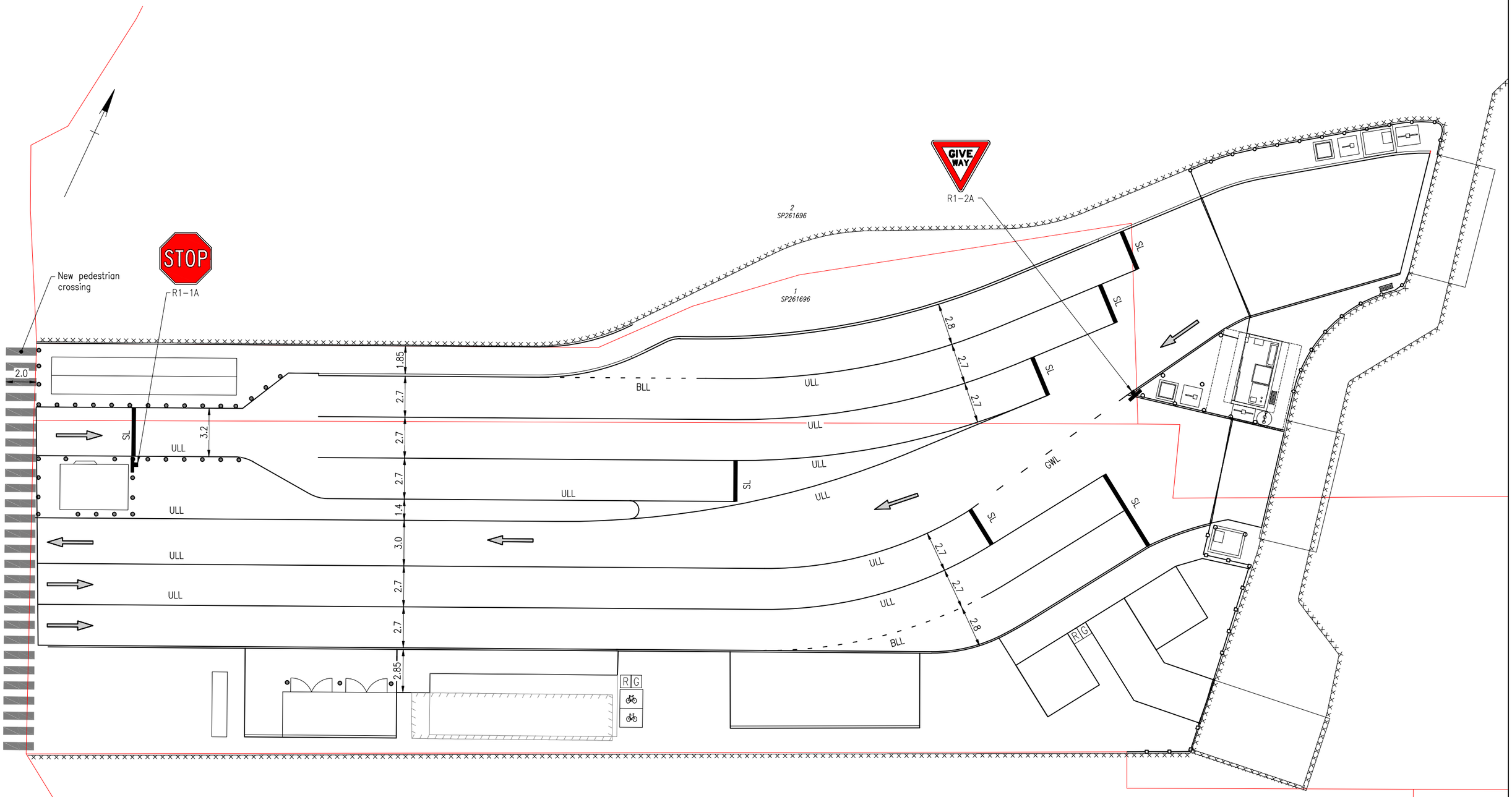
REDLAND BAY FERRY TERMINAL

PAVEMENT DETAILS

DRAWING NUMBER 497-001-C050-01

No IN SET 13 OF 25

REVISION B



LEGEND

Proposed Sign

PAVEMENT MARKING ABBREVIATIONS

ULL	Unbroken Lane Line
BLL	Broken Lane Line
SL	Stop Line
GWL	Give Way Line
EL	Edge Line

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT: PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE: 1:125 / 1:250 — 0 2.5 5 — A1 / A3

REDLAND BAY FERRY TERMINAL

SIGNS AND LINEMARKING

DRAWING NUMBER: 497-001-C060-01

No IN SET: 14 OF 25

REVISION: B

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C060-SL-01.dwg By - FranG

100mm subsurface pipe outlet

2
SP261696

1
SP261696

186
SL8029

Provide connection to existing administration building sewer (location to be confirmed)

25mm Water service and lockable tap to building with T fitting for connections to future shed

25mm Water service and lockable tap to shelter

100mm subsurface pipe outlet

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:125 0 2.5 5 A1
1:250 A3

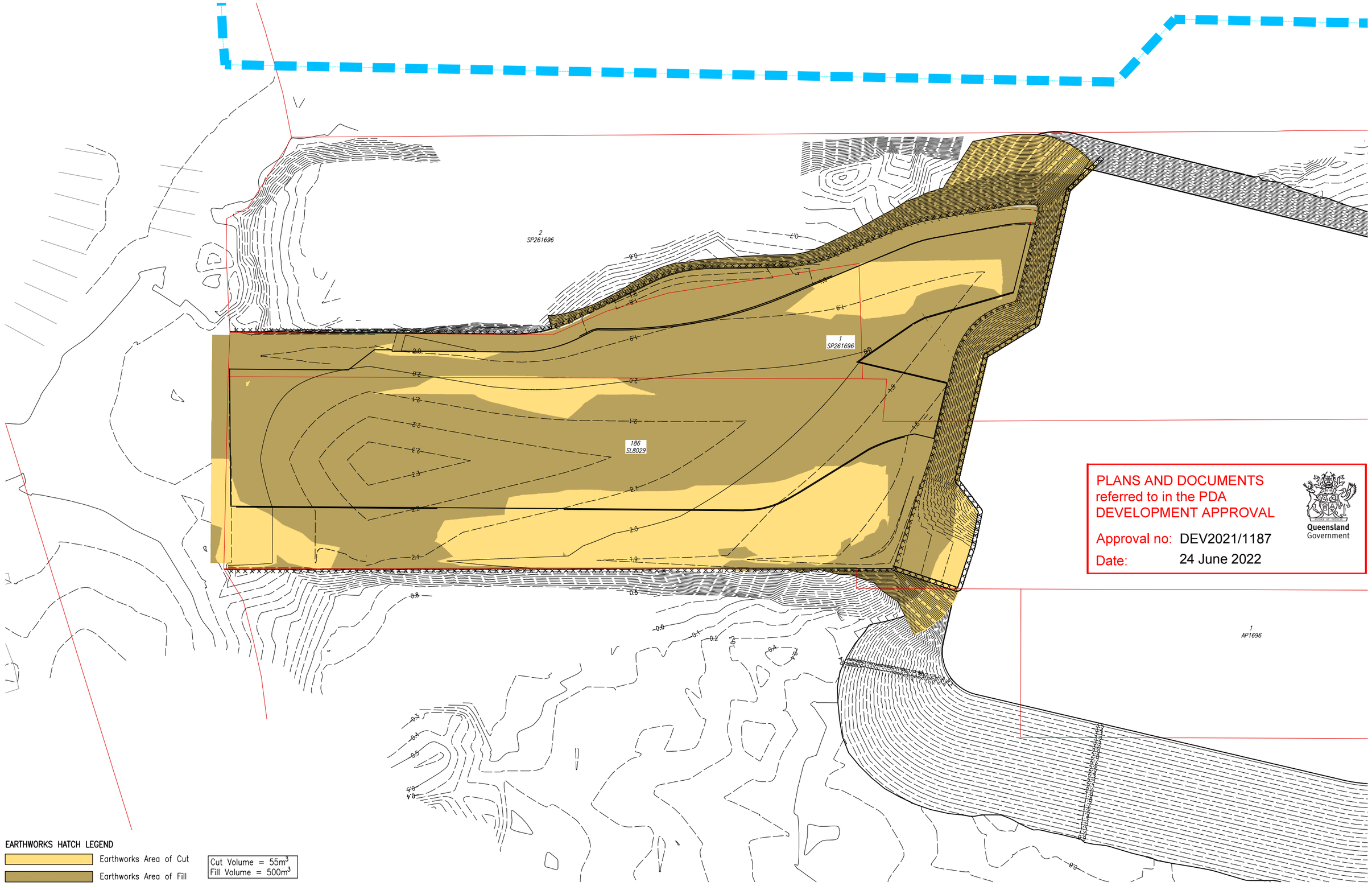
REDLAND BAY FERRY TERMINAL

SERVICES LAYOUT

DRAWING NUMBER 497-001-C070-01

No IN SET 15 OF 25

REVISION B



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

EARTHWORKS HATCH LEGEND

Earthworks Area of Cut

Earthworks Area of Fill

Cut Volume = 55m³
Fill Volume = 500m³

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-01\1497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\1497-001-C080-EW-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:200 0 2 4 6 8 A1
1:400 A3

REDLAND BAY FERRY TERMINAL

EARTHWORKS LAYOUT

DRAWING NUMBER 497-001-C080-01

No IN SET 16 OF 25

REVISION B

CONTOUR DATUM/LEVELS

SHOWN CONTOUR	TIDAL DATUM LEVEL	AHD LEVEL
HAT	2.98	1.65
MHWS	2.37	1.04
MSL	1.35	0.02
MLWS	0.40	−0.93
LAT	0.00	−1.33

Contours shown to AHD to match ground survey.

CARPARK

ESPLANADE

MORETON BAY

2 SP261696

1 SP261696

186 SL8029

1 AP1696

S11 Clean

S12 Clean

Dredge Bed Level
−2.22 Tidal Datum
−3.55 AHD Level

C 3

DREDGING LEGEND

- HAT level
- MHWS level
- MSL level
- LAT level
- Priority Development Area Boundary
- Earthworks Area of Cut
- Material Unsuitable for Offshore Disposal

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2021/1187
Date: 24 June 2022

Queensland Government

Cut Volume = 3490m³

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C090-DR-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
E	REVISED VOLUMES	10/12/2021	JC	JM	DB	6343	
D	REVISED LAYOUT	30/11/2021	JC	JM	DB	6343	DB
C	REISSUED FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6343	DB
B	LEVEL DETAILS ADDED	9/7/2021	CB	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

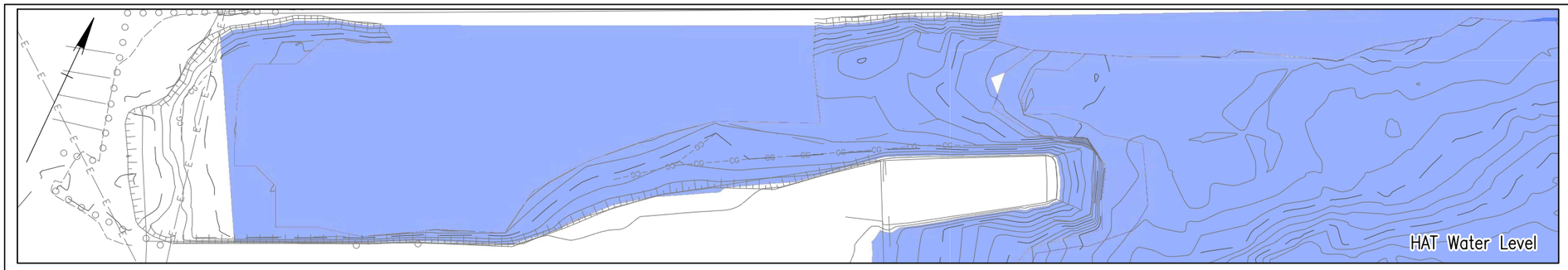
ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY	ORIGINAL SIGNED	6343	29/3/2021

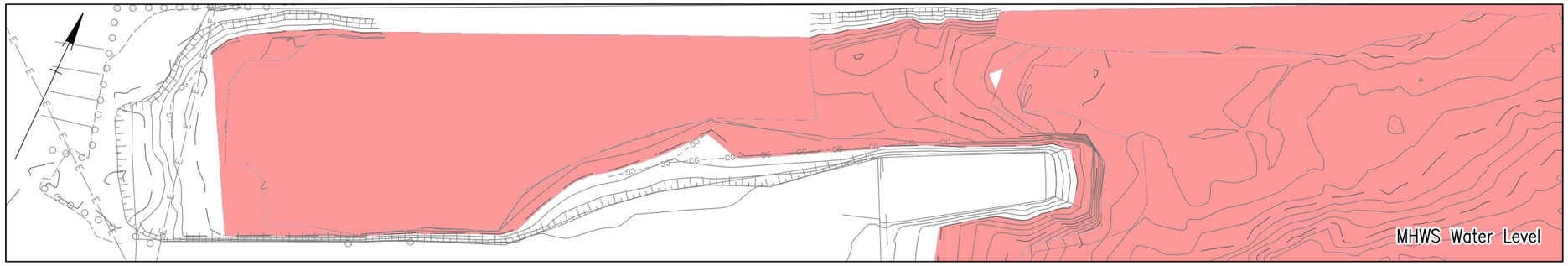
SCALE
1:250 1:500 0 5 10 A1 A3

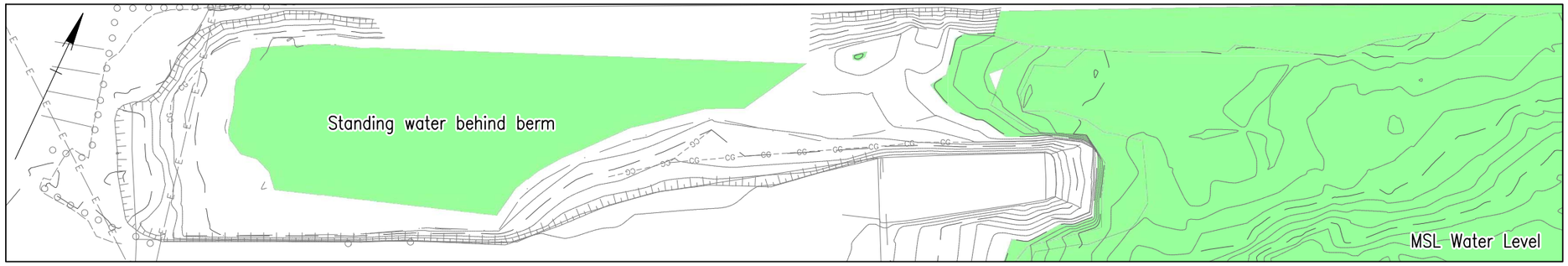
REDLAND BAY FERRY TERMINAL

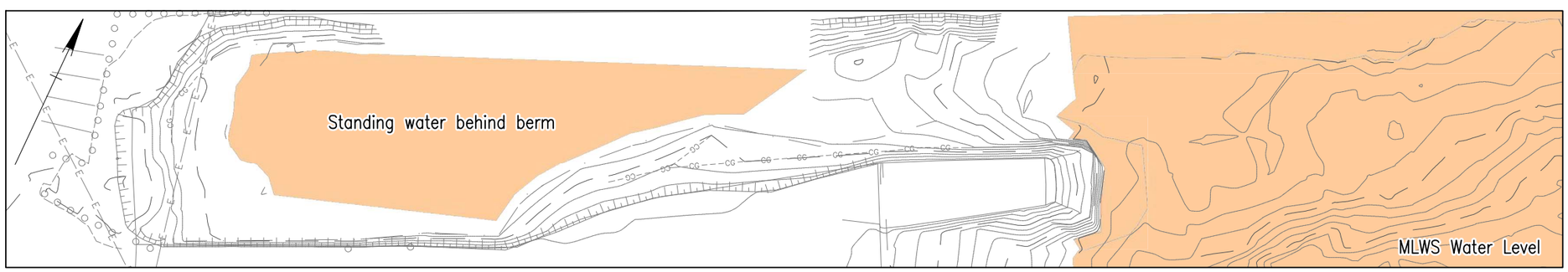
DREDGING PLAN

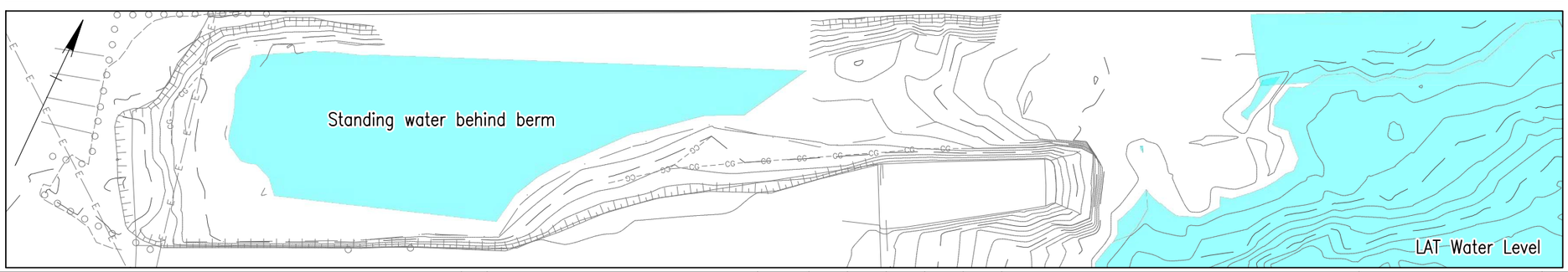
DRAWING NUMBER 497-001-C090-01
No IN SET 17 OF 25
REVISION E











HATCH LEGEND

- HAT Water Level (1.65 AHD)
- MHWS Water Level (1.04 AHD)
- MSL Water Level (0.02 AHD)
- MLWS Water Level (−0.93 AHD)
- LAT Water Level (−1.33 AHD)

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

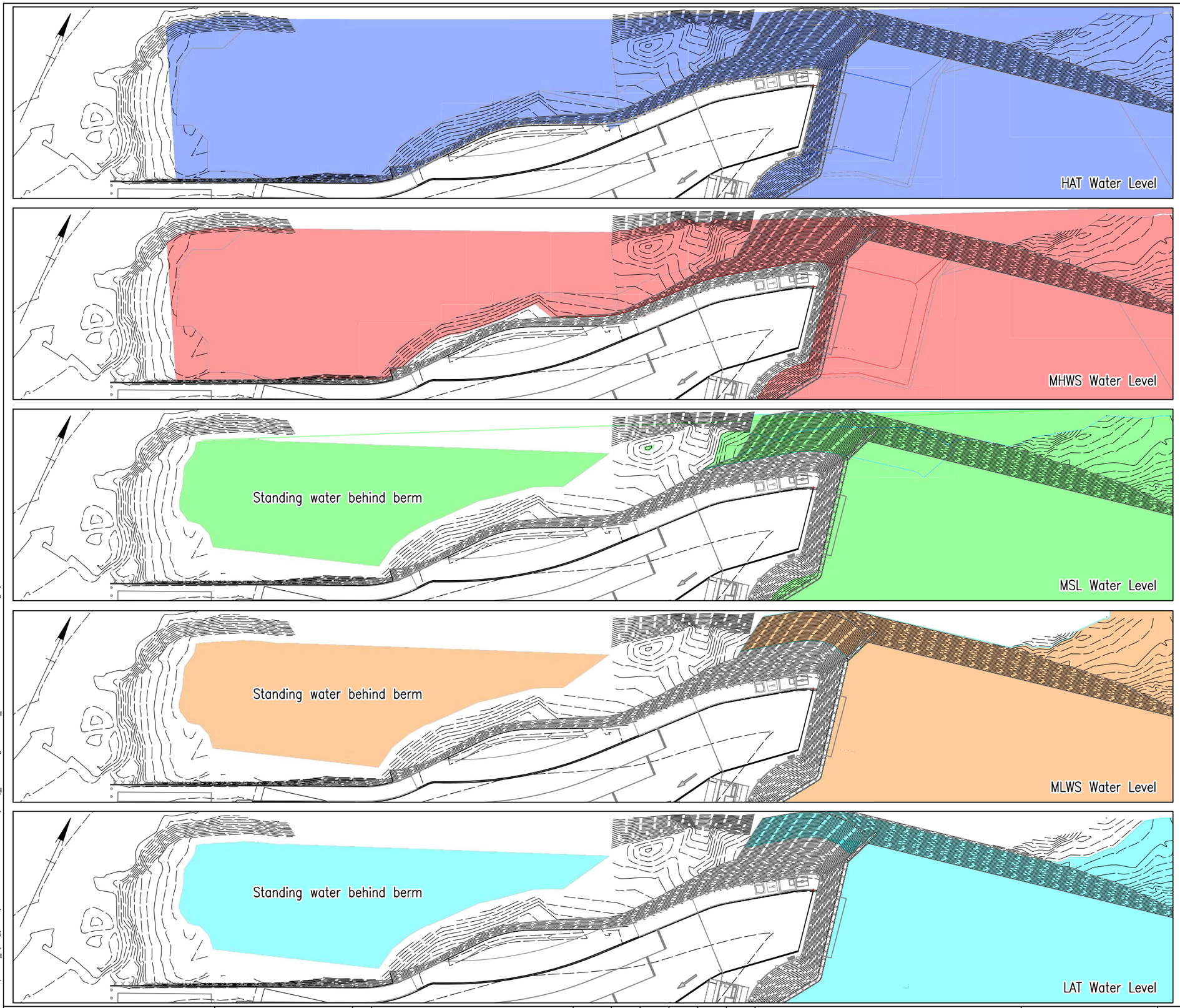
ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:250 0 5 10 A1
1:500 A3

REDLAND BAY FERRY TERMINAL

TIDAL ANALYSIS
PRE-CONSTRUCTION

DRAWING NUMBER 497-001-C090-02 | No IN SET 18 OF 25 | REVISION B



HATCH LEGEND

- HAT Water Level (1.65 AHD)
- MHWS Water Level (1.04 AHD)
- MSL Water Level (0.02 AHD)
- MLWS Water Level (−0.93 AHD)
- LAT Water Level (−1.33 AHD)

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\SAP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C090-DR-03.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:250 / 1:500 — 0 5 10 — A1 / A3

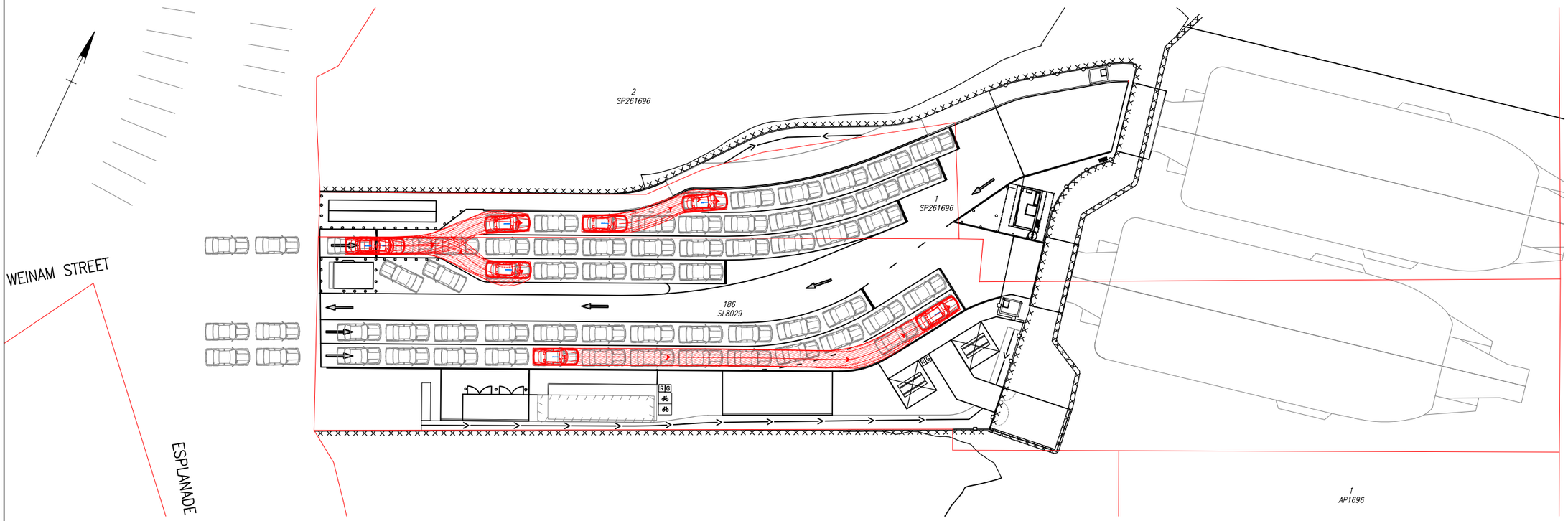
REDLAND BAY FERRY TERMINAL

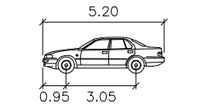
TIDAL ANALYSIS
POST-CONSTRUCTION

DRAWING NUMBER 497-001-C090-03

No IN SET 19 OF 25

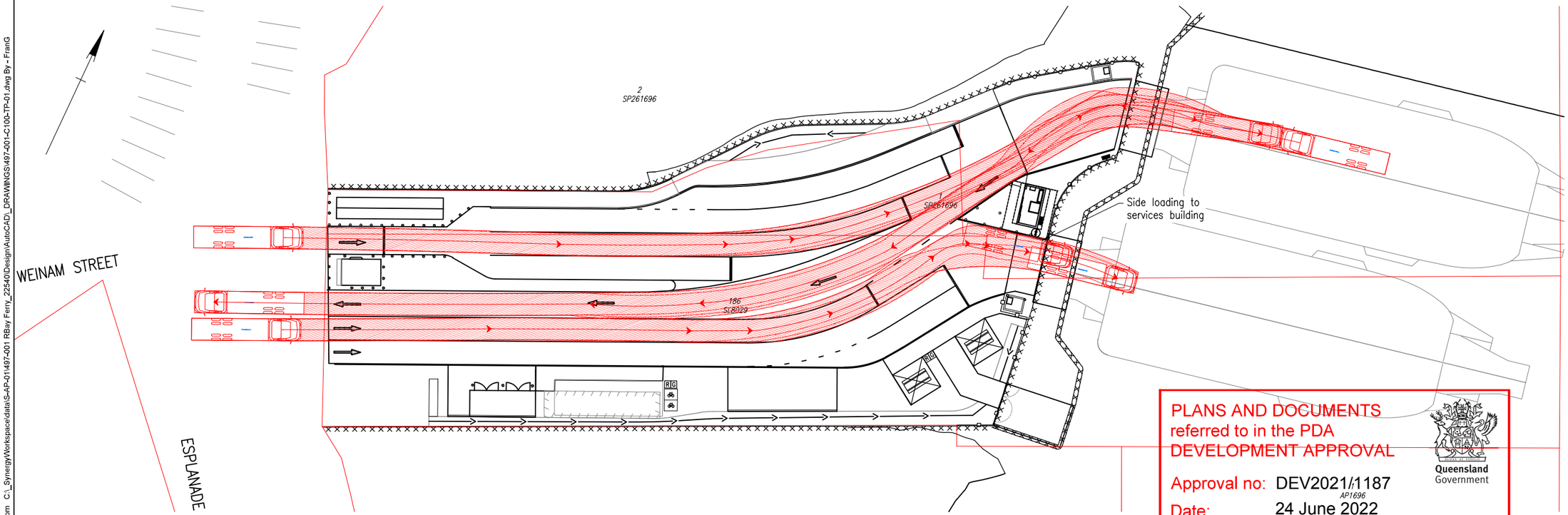
REVISION B





PASSENGER–CAR

	meters
Width	: 1.94
Track	: 1.84
Lock to Lock Time	: 6.0
Steering Angle	: 33.6

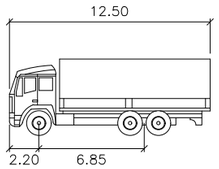


PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187
AP1696

Date: 24 June 2022

Queensland Government



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C100-TP-01.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

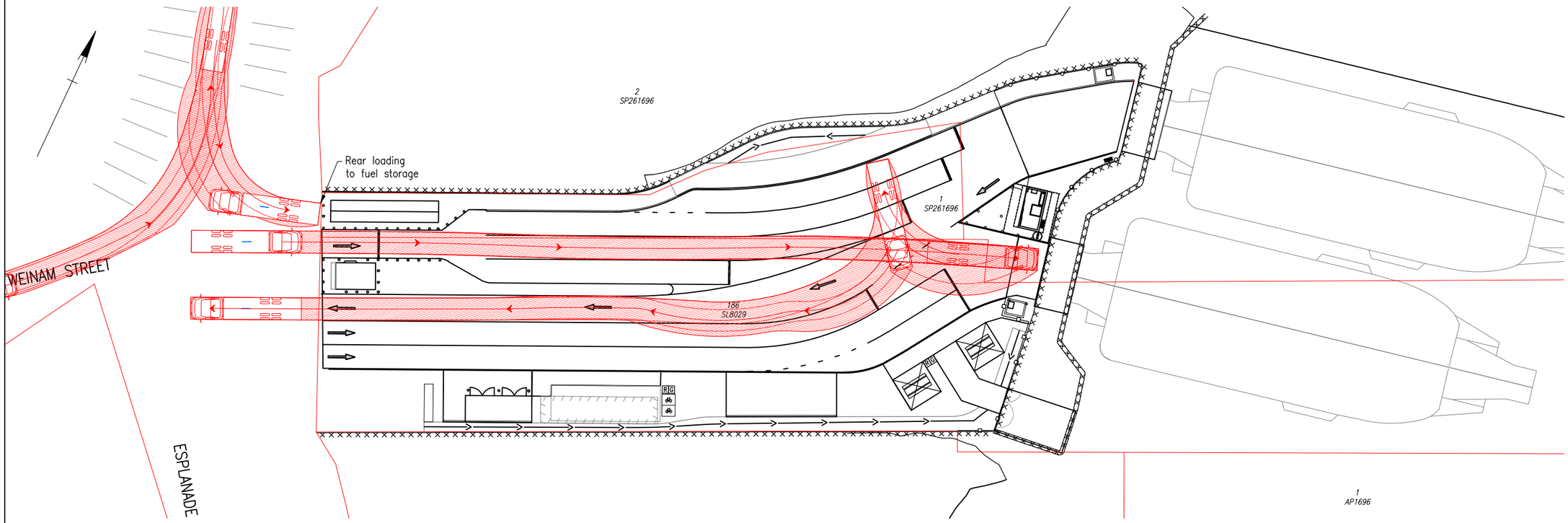
ENGINEERING CERTIFICATION (RPEQ)

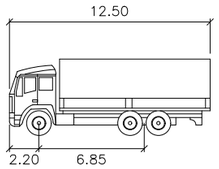
ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:250 1:500 0 5 10 A1 A3

REDLAND BAY FERRY TERMINAL
VEHICLE TURNPATHS
SHEET 1

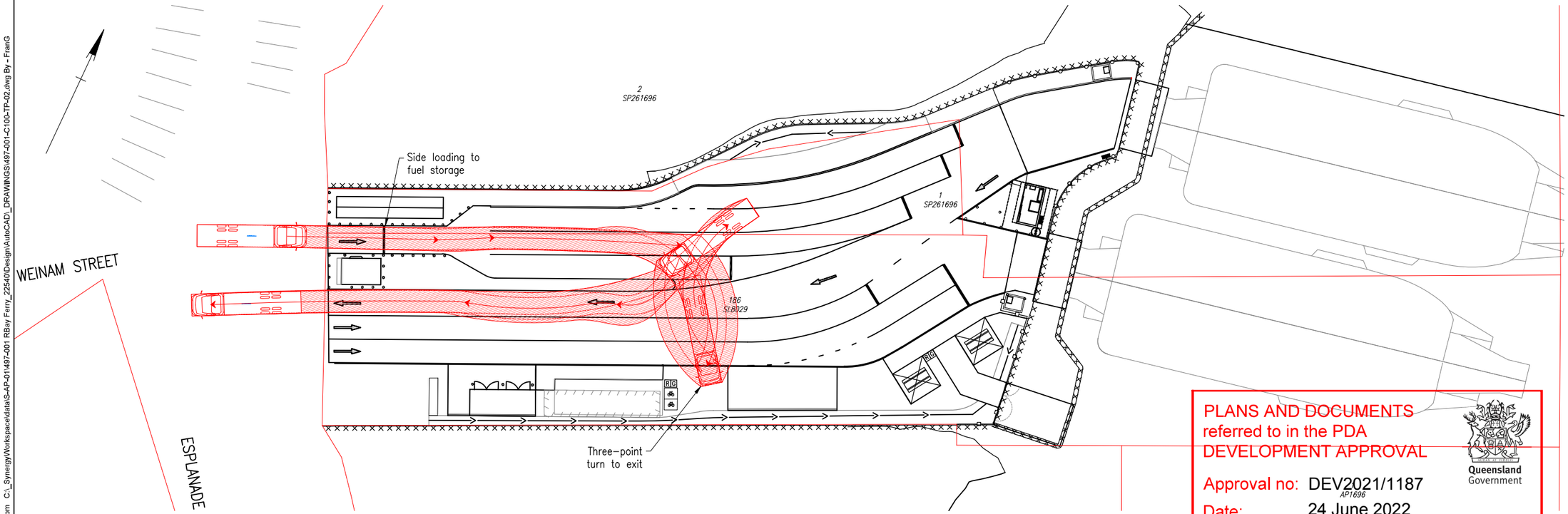
DRAWING NUMBER 497-001-C100-01
No IN SET 20 OF 25
REVISION B





SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

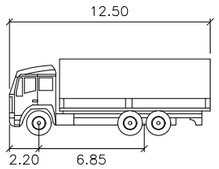


PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\S-AP-011497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C100-TP-02.dwg By - FranG

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	29/3/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:250 0 5 10 A1
1:500 A3

REDLAND BAY FERRY TERMINAL

VEHICLE TURNPATHS
SHEET 2

DRAWING NUMBER 497-001-C100-02

No IN SET 21 OF 25

REVISION B

LANDSCAPING LEGEND

- 100mm topsoil and turf *(Zoysia matrella)*
- Landscaping bioswale
- TURFPRO™ grass pavers
- Planter box and landscaping
- Concrete (broom finished)
- 1.2m High weld mesh fence
- 1.5m High pool type fence
- Safety bollard

PLANTER BOX SPECIES

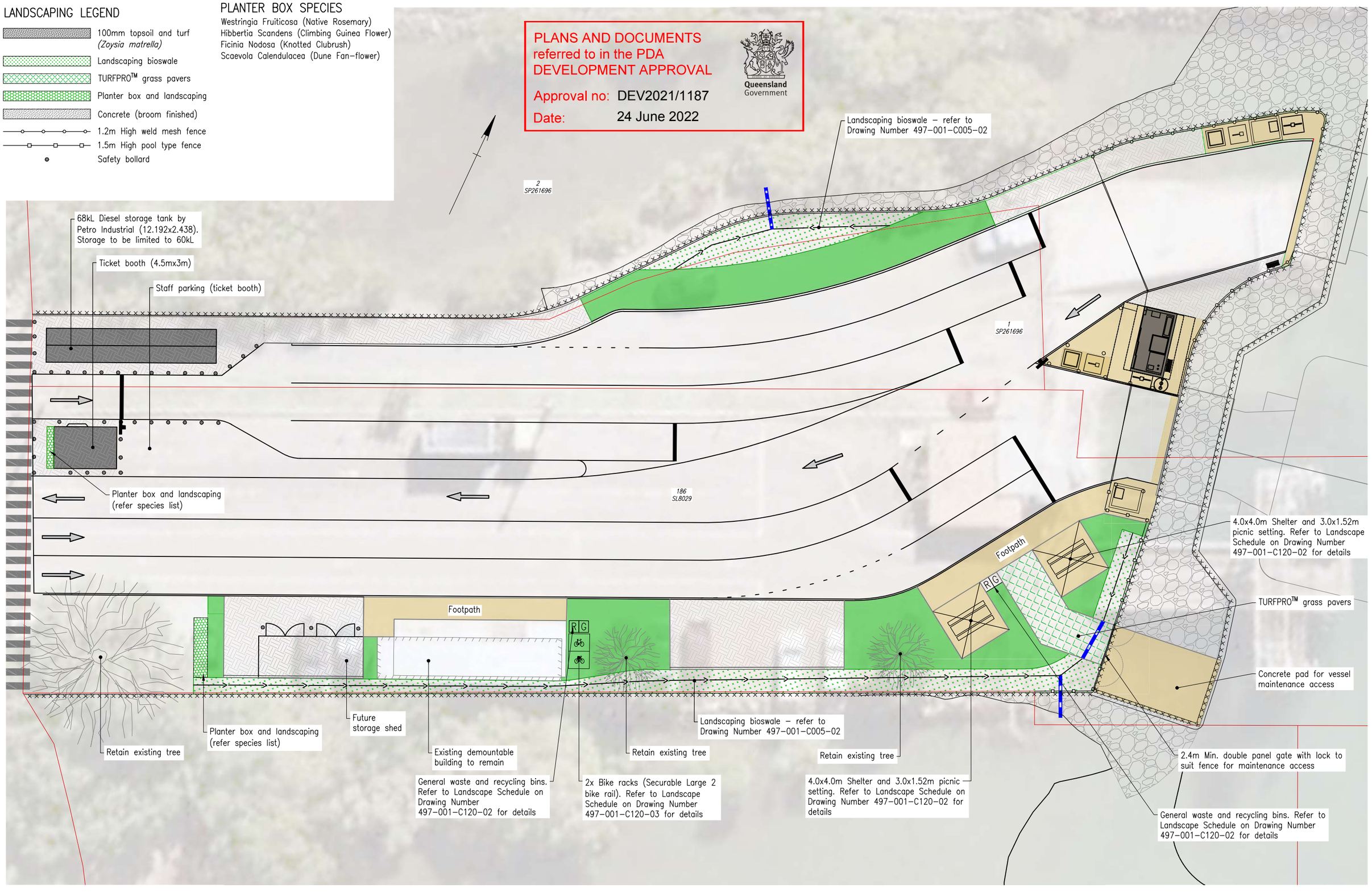
Westringia Fruiticosa (Native Rosemary)
Hibbertia Scandens (Climbing Guinea Flower)
Ficinia Nodosa (Knotted Clubrush)
Scaevola Calendulacea (Dune Fan-flower)

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government



ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

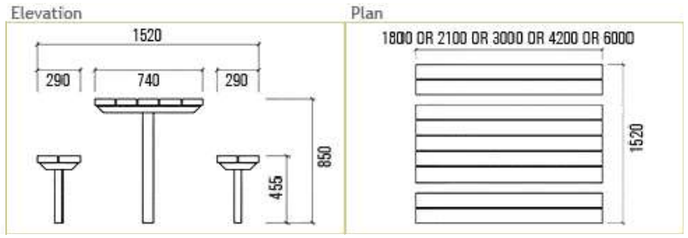
SCALE
1:125 0 2.5 5 A1
1:250 A3

REDLAND BAY FERRY TERMINAL

LANDSCAPE PLAN

DRAWING NUMBER 497-001-C120-01
No IN SET 22 OF 25
REVISION B

LANDSCAPE SCHEDULE

SYMBOL	ELEMENT	SPECIFICATIONS	IMAGE/S
	Shelter	Peninsula Series K302 (4.0m x 4.0m) skillion roof park shelter by LandmarkPRO. Refer to Supplementary Drawing SD1 for details.	 
	Picnic Setting	Taroom Picnic Setting (3.0m Length) by LandmarkPRO	 
G	General Waste Bin	MS Avenue Litter Receptacle – 240L (Side Entry) bin by LandmarkPRO. Refer to Supplementary Drawing SD2 for details.	
R	Recycling Bin	MS Avenue Recycle Unit – 240L (Side Entry) bin by LandmarkPRO. Refer to Supplementary Drawing SD3 for details.	 
	Diesel Storage Tank	68kL Diesel Storage Tank by Petro Industrial (12.192x2.438). Storage to be limited to 60kL. Refer to Supplementary Drawing SD4 for details.	

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT: PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343 DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434 DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE: Not to Scale

REDLAND BAY FERRY TERMINAL

LANDSCAPE SCHEDULE
SHEET 1

DRAWING NUMBER: 497-001-C120-02

No IN SET: 23 OF 25

REVISION: B

LANDSCAPE SCHEDULE

SYMBOL	ELEMENT	SPECIFICATIONS	IMAGE/S
	Bike Racks	Securabike Large 2 Bike Rail	

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
Not to Scale

REDLAND BAY FERRY TERMINAL

LANDSCAPE SCHEDULE
SHEET 2

DRAWING NUMBER 497-001-C120-03 | No IN SET 24 OF 25 | REVISION B

Last Modified - Dec 10, 2021 - 4:07pm C:_SynergyWorkspace\data\SAP-01\497-001 RBay Ferry_22540\Design\AutoCAD_DRAWINGS\497-001-C120-LR-03.dwg By - FrainG

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

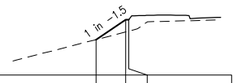
Queensland Government

LEGEND

Proposed Finished Surface

Existing Surface

CONTROL LINE MC010
X = 530503.789
Y = 6945367.307
Z = 1.800

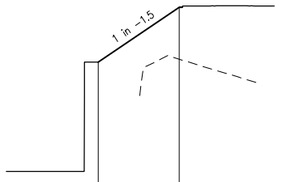


Datum 0.00

DESIGN HEIGHT	1.154	1.800	1.800
EXISTING SURFACE	1.154	1.404	1.430
OFFSETS	-1.069	-0.100	0.000

CHAINAGE 40.000

CONTROL LINE MC010
X = 530547.266
Y = 6945396.704
Z = 1.800

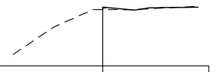


Datum -4.00

DESIGN HEIGHT	0.020	1.800	
EXISTING SURFACE		1.800	0.109
OFFSETS	-2.739	-0.100	

CHAINAGE 100.000

CONTROL LINE MC010
X = 530531.802
Y = 6945349.029
Z = 1.908

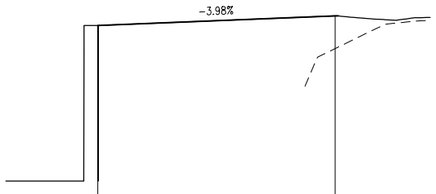


Datum 0.00

DESIGN HEIGHT	1.908		
EXISTING SURFACE	1.836		
OFFSETS	-0.100		

CHAINAGE 160.000

CONTROL LINE MC010
X = 530548.439
Y = 6945358.335
Z = 1.828

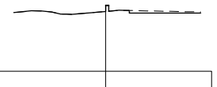


Datum -4.00

DESIGN HEIGHT	1.520	1.828	
EXISTING SURFACE		1.765	
OFFSETS	-7.834	-0.100	

CHAINAGE 140.000

CONTROL LINE MC010
X = 530479.311
Y = 6945324.437
Z = 2.140

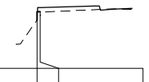


Datum 0.00

DESIGN HEIGHT	2.140		
EXISTING SURFACE	1.950		
OFFSETS	-0.100		

CHAINAGE 217.966

CONTROL LINE MC010
X = 530486.605
Y = 6945357.503
Z = 1.850

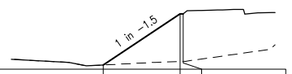


Datum 0.00

DESIGN HEIGHT	1.574	1.850	
EXISTING SURFACE	1.574	1.719	
OFFSETS	-0.103	0.000	

CHAINAGE 20.000

CONTROL LINE MC010
X = 530533.653
Y = 6945392.964
Z = 1.800

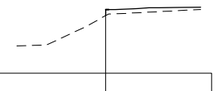


Datum 0.00

DESIGN HEIGHT	0.133	1.800	1.800
EXISTING SURFACE	0.133	0.246	0.249
OFFSETS	-2.601	-0.100	0.000

CHAINAGE 80.000

CONTROL LINE MC010
X = 530495.580
Y = 6945332.059
Z = 2.068



Datum 0.00

DESIGN HEIGHT	2.068		
EXISTING SURFACE	1.878		
OFFSETS	-0.100		

CHAINAGE 200.000

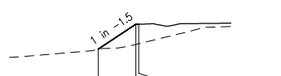
CONTROL LINE MC010
X = 530468.404
Y = 6945349.212
Z = 1.950

Datum 0.00

DESIGN HEIGHT	1.816	1.950	
EXISTING SURFACE	1.816	1.817	
OFFSETS	-0.101	0.000	

CHAINAGE 0.000

CONTROL LINE MC010
X = 530518.290
Y = 6945380.594
Z = 1.800

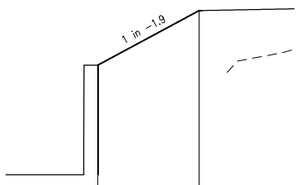


Datum 0.00

DESIGN HEIGHT	0.987	1.800	1.800
EXISTING SURFACE	0.987	1.137	1.162
OFFSETS	-1.320	-0.100	0.000

CHAINAGE 60.000

CONTROL LINE MC010
X = 530545.471
Y = 6945378.094
Z = 1.800



Datum -4.00

DESIGN HEIGHT	0.020	1.800	
EXISTING SURFACE			
OFFSETS	-3.395	-0.100	

CHAINAGE 120.000

CONTROL LINE MC010
X = 530513.691
Y = 6945340.544
Z = 1.988

Datum 0.00

DESIGN HEIGHT	1.988		
EXISTING SURFACE	1.935		
OFFSETS	-0.100		

CHAINAGE 180.000

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING
Ph: 1300 789 214 www.projexpartners.com.au

CLIENT
PENSAR STRUCTURES

Rev.	Description	Date	Drawn	Design	Check	RPEQ No. & Initial	
B	REVISED LAYOUT	10/12/2021	JC	JM	DB	6343	DB
A	FOR DEVELOPMENT APPLICATION APPROVAL	27/8/2021	JC	JM	DB	6434	DB

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	No.	DATE
CIVIL	D BERRY		6343	10/12/2021

SCALE
1:200 0 2 4 6 8 A1
1:400 A3

REDLAND BAY FERRY TERMINAL

MC010 CROSS SECTIONS

DRAWING NUMBER 497-001-C150-01

No IN SET 25 OF 25

REVISION B

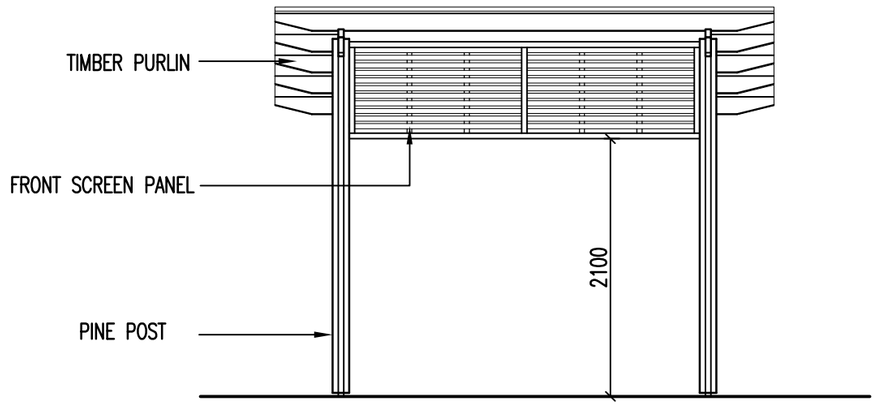
ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

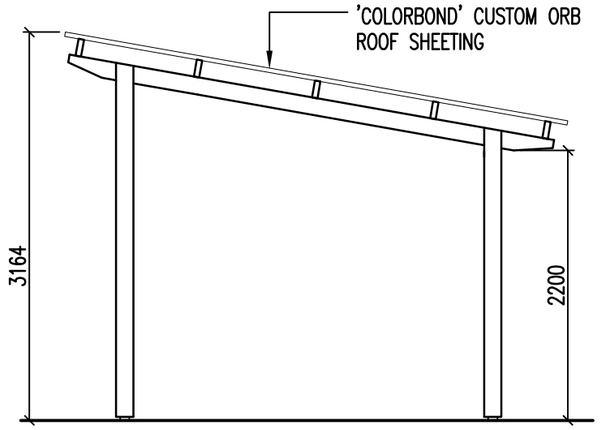
Approval no: DEV2021/1187

Date: 24 June 2022

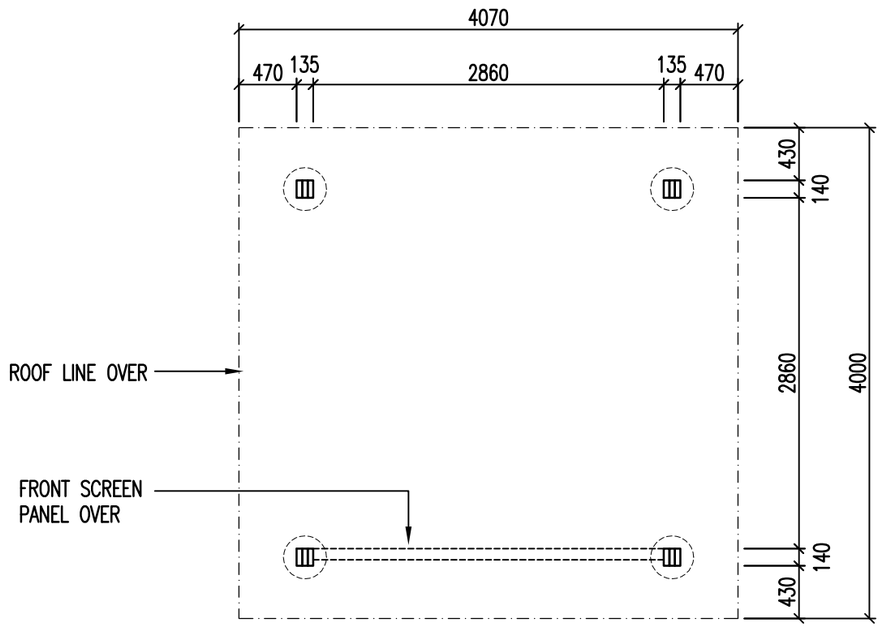
Queensland Government



FRONT ELEVATION
(1:50)



SIDE ELEVATION
(1:50)



PLAN
(1:50)

GENERAL NOTES:

G1. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVER STRESSED.

G2. PRIOR TO COMMENCEMENT OF WORKS THE BUILDER SHALL SATISFY THEMSELVES OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS.

G3. LOCATING OF THE STRUCTURE, INCLUDING CO-ORDINATES IF APPLICABLE, IS THE RESPONSIBILITY OF THE CLIENT AND/OR THE CLIENT'S SITE REPRESENTATIVE.

G4. STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE TO THE FOLLOWING AUSTRALIAN STANDARDS:
- **AS1170.1, AS1170.2, AS1720.1, AS3600 AND AS4100, AS1664.**

G5. STRUCTURE IS SUITABLE FOR **N3** AREAS AND HAS BEEN DESIGNED WITH AN AVERAGE RECURRENCE INTERVAL OF 100 YEARS.

G6. SITE COVERAGE IS **16m²** (ROOF AREA).

G7. THE FOOTING HAS BEEN DESIGNED ASSUMING:
- SITE CLASS S OR M
- ALLOWABLE SOIL BEARING CAPACITY OF 100kPa
- SOIL ADHESION OF 10kPa

(TO BE VERIFIED ON SITE).

G8. FOR SLABS ON GROUND, ALL TOPSOIL AND UPPER STRATA CONTAINING SOFT OR ORGANIC MATTER ARE TO BE REMOVED AND REPLACED WITH SELECT COMPACTED FILL.

G9. ALL FILL TO BE CLEAN, PLACED IN LAYERS NOT EXCEEDING 200mm AND COMPACTED TO 95% STANDARD COMPACTION.

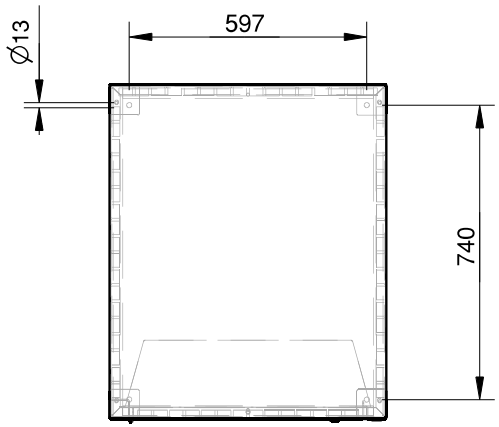
G10. EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CRITERIA AND PROCEDURES SET OUT IN AS3798 *GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.*

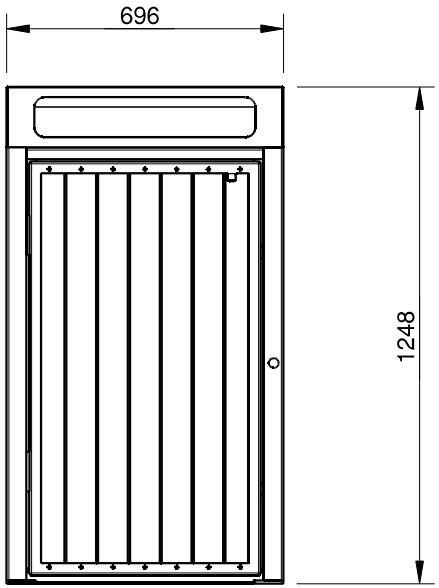
REVISION		DATE:	DRAWN BY.
6	-	-	-
5	-	-	-
4	-	-	-
3	-	-	-
2	-	-	-
1	-	-	-

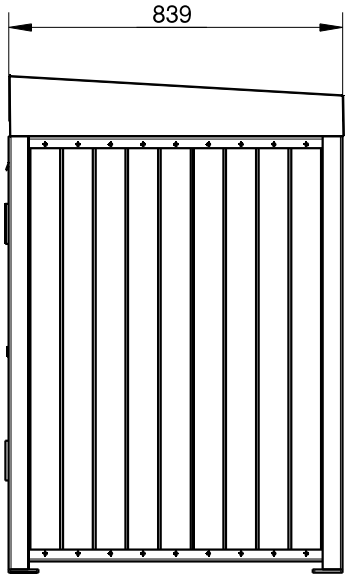
CHECKED BY: | DATE:

Landmark
Enhancing Open Space Environments
Landmark Products Limited.
A.B.N. 99 112 000 843
55-57 Kabi Circuit, Deception Bay
P.O. Box 603, Deception Bay
Queensland 4508
PH: 1300 768 230
FAX: 1300 768 260
www.landmarkpro.com.au
landmark@landmarkpro.com.au

CLIENT NAME: LANDMARK PRODUCTS LTD		PROJECT No.: -	PAGE: A3
PROJECT: - STD K302 "PENINSULA" SHELTER - W41, TP, PINE ROOF, IG, GAL		DATE: 28/05/12	DRAWN: BMM
		DRAWING No.: K3024P*P*IG	SCALE: NTD
DRAWING TITLE: BA - PLAN AND ELEVATIONS		SHEET No.: 101	REV.: 0





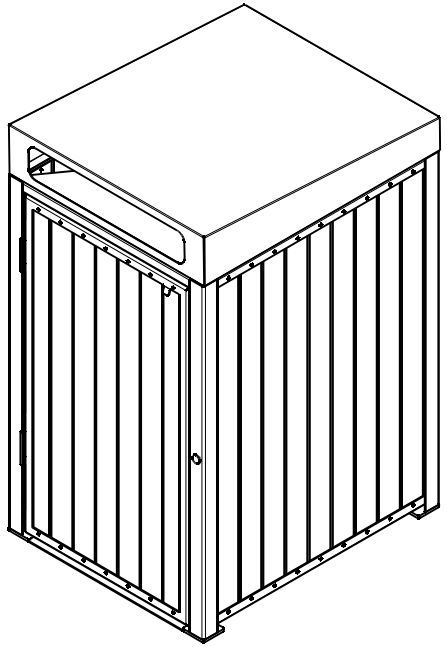


SPECIFICATION:

MATERIAL:
Mild steel unless otherwise stated
Slats: Hardwood timber

DIMENSIONS:
All in mm unless otherwise stated

FINISH:
Steel - Powder Coat
Timber - Oil Based



Certified System
Quality
ISO 9001
SAI GLOBAL

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

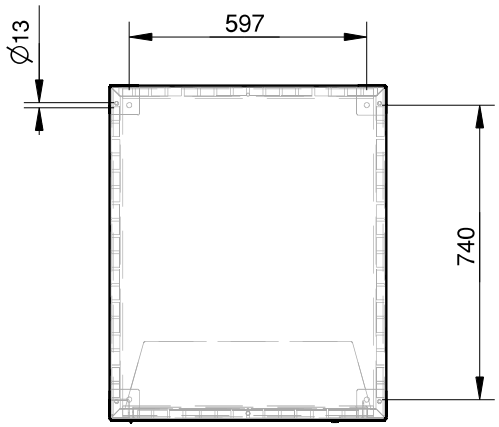
REVISION #	DESCRIPTION	BY	DATE
1	ORIGINAL DRAWING	DN	24.3.11
2	FULL PRODUCT REVIEW	RBC	15.4.14
3			
4			
5			

DRAWN	DRAWN DATE	CHECKED	CHECKED DATE	SCALE	
R.CRIGHTON	15.4.14			N/A	A4

FURPHY FOUNDRY EST. 1864

MS AVENUE LITTER RECEPTACLE 240L
- SIDE ENTRY - SPEC.

FFSB013003 | REV. 2 | SHEET 1 OF 3

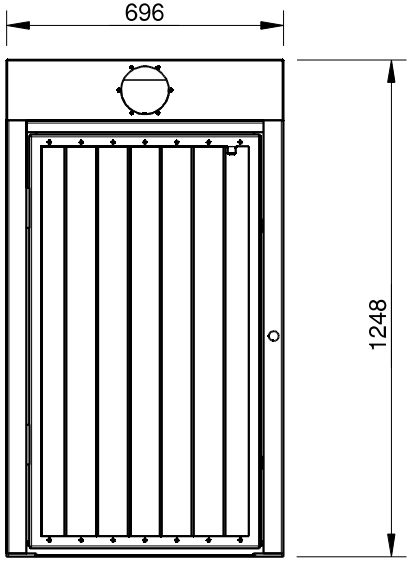


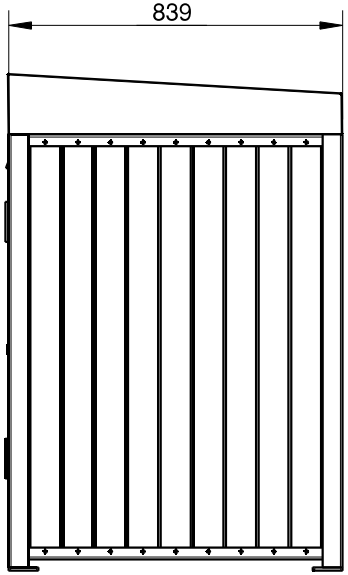
SPECIFICATION:

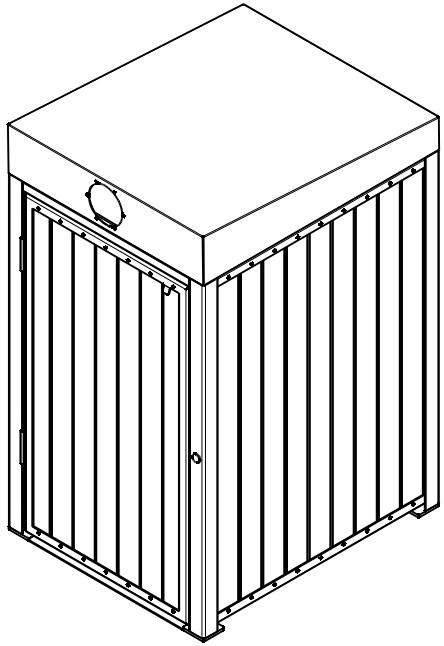
MATERIAL:
Mild steel unless otherwise stated
Slats: Hardwood timber

DIMENSIONS:
All in mm unless otherwise stated

FINISH:
Steel - Galvanised and optional Powder Coat
Timber - Oil Based







Certified System
Quality
ISO 9001
SAI GLOBAL

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

REVISION #	DESCRIPTION	BY	DATE
1	ORIGINAL DRAWING	DN	2.2.11
2	FULL PRODUCT REVIEW	RBC	15.4.14
3			
4			
5			

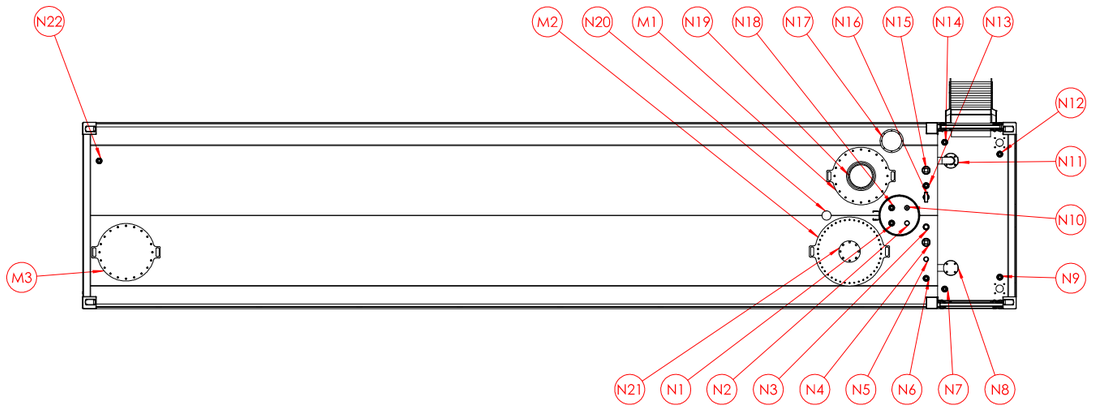
DRAWN	DRAWN DATE	CHECKED	CHECKED DATE	SCALE	
R.CRIGHTON	15.4.14			N/A	A4

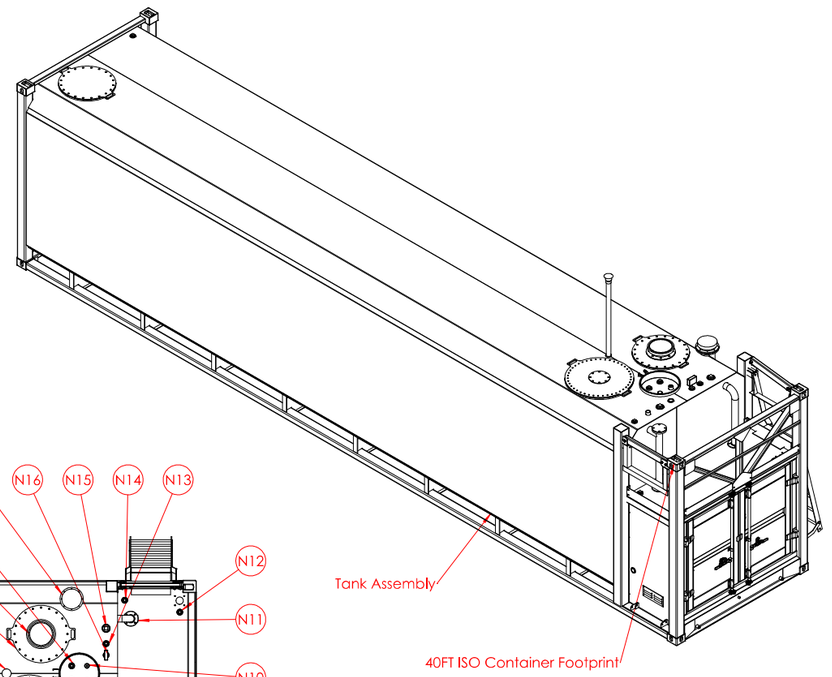
FURPHY FOUNDRY EST. 1864

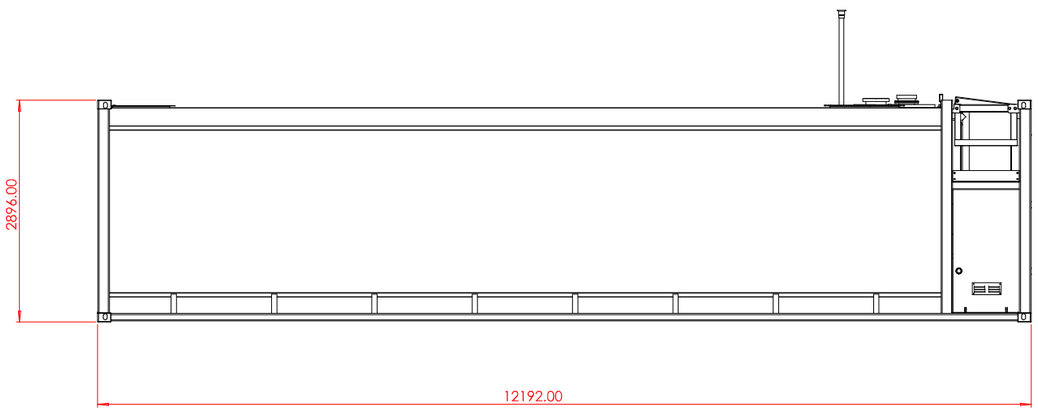
MS AVENUE RECYCLE UNIT 240L
- SIDE ENTRY - SPEC.

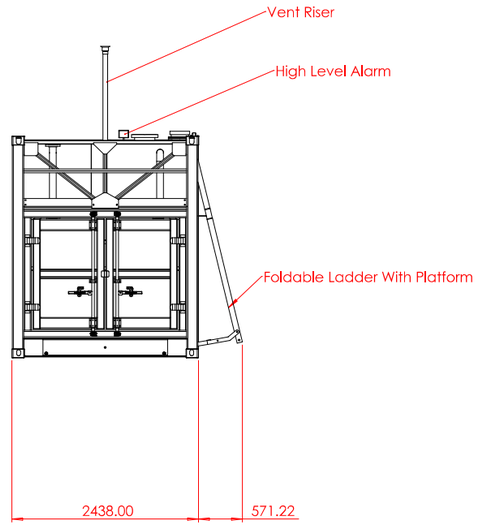
FFSB013005 | REV. 2 | SHEET 1 OF 3

Nozzle Schedule		
Nozzle ID	Connection Type	Service
N1	DN50 - ISO4144 - BSP Socket	Spare (Plugged)
N2	DN50 - ISO4144 - Male	Intersitial Dipstick (Capped)
N3	DN50 - ISO4144 - BSP Socket	Interstitial Vent
N4	DN80 - ISO4144 - BSP Socket	Spare (Plugged)
N5	DN50 - ISO4144 - Male	Secondary Suction (Capped)
N6	DN50 - ISO4144 - BSP Socket	Spare (Plugged)
N7	DN50 - ISO4144 - BSP Socket	Pump Bay Entry (Plugged)
N8	DN80 - ANSI 150 - Flange	Primary Suction Spool With Prime Point
N9	DN50 - ISO4144 - BSP Socket	Pump Bay Entry (Plugged)
N10	DN50 - ISO4144 - Male	Dip (Capped)
N11	DN80 - ANSI 150 - Flange	Primary Fill Spool (c/w Ball Valve, Check Wafer, Type F Camlock and Dustcap)
N12	DN50 - ISO4144 - BSP Socket	Pump Bay Entry (Plugged)
N13	DN50 - ISO4144 - BSP Socket	Spare (Plugged)
N14	DN50 - ISO4144 - BSP Socket	Pump Bay Entry (Plugged)
N15	DN80 - ISO4144 - BSP Socket	Spare (Plugged)
N16	DN50 - ISO4144 - BSP Socket	High Level Alarm
N17	DN200 - Flanged	Interstitial Vent
N18	DN50 - ISO4144 - BSP Socket	Spare (Plugged)
N19	DN200 - Flanged	Pressure Vent
N20	DN50 - ISO4144 - BSP Socket	Free To Air Vent
N21	DN200 - Flanged	Inspection Hatch
N22	DN50 - ISO4144 - BSP Socket	Spare (Plugged)
M1	Flanged (OD=750, ID=600)	Primary Manway
M2	Flanged (OD=900, ID=750)	Secondary Manway
M3	Flanged (OD=750, ID=600)	Tertiary Manway









PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1187

Date: 24 June 2022

Queensland Government

Tank Data	
DESIGN CODE	AS 1692, AS 1940
BUILT TO	AS 4100, AS 1554
PLATE THICKNESS	6MM/6MM Q235B
EXTERNAL DIMENSIONS	12192mm x 2438mm x 2896mm
GROSS VOLUME	69023 L
SAFE VOLUME	65570 L
NDT	MPT/DPT
TARE WEIGHT	13476 KG

PETRO INDUSTRIAL
Factory 2, 106 Potassium street
PO Box 407
Narangba QLD 4504
p: 07 3204 9558
e: sales@petroindustrial.com.au

REV.	DATE	REVISION DESCRIPTION	CHKD	APPR	REV.	DATE	REVISION DESCRIPTION	CHKD	APPR	REFERENCE DRAWING No.	REFERENCE DRAWINGS

All dimensions are in mm unless specified otherwise
Drawn to AS1100.101-1992

MATERIAL: As Per Manufacturing Drawings

FINISH: RAL9003: Signal White

PAGE: 1 OF 1

TITLE: GA Cover

DRAWN BY: | CHECK DRW:

CLIENT: | PROJECT NO:

THIRD ANGLE PROJECTION

DRAWING SIZE: A1

SCALE 1:40

DRAWING NUMBER: LT68-GA

REV.