

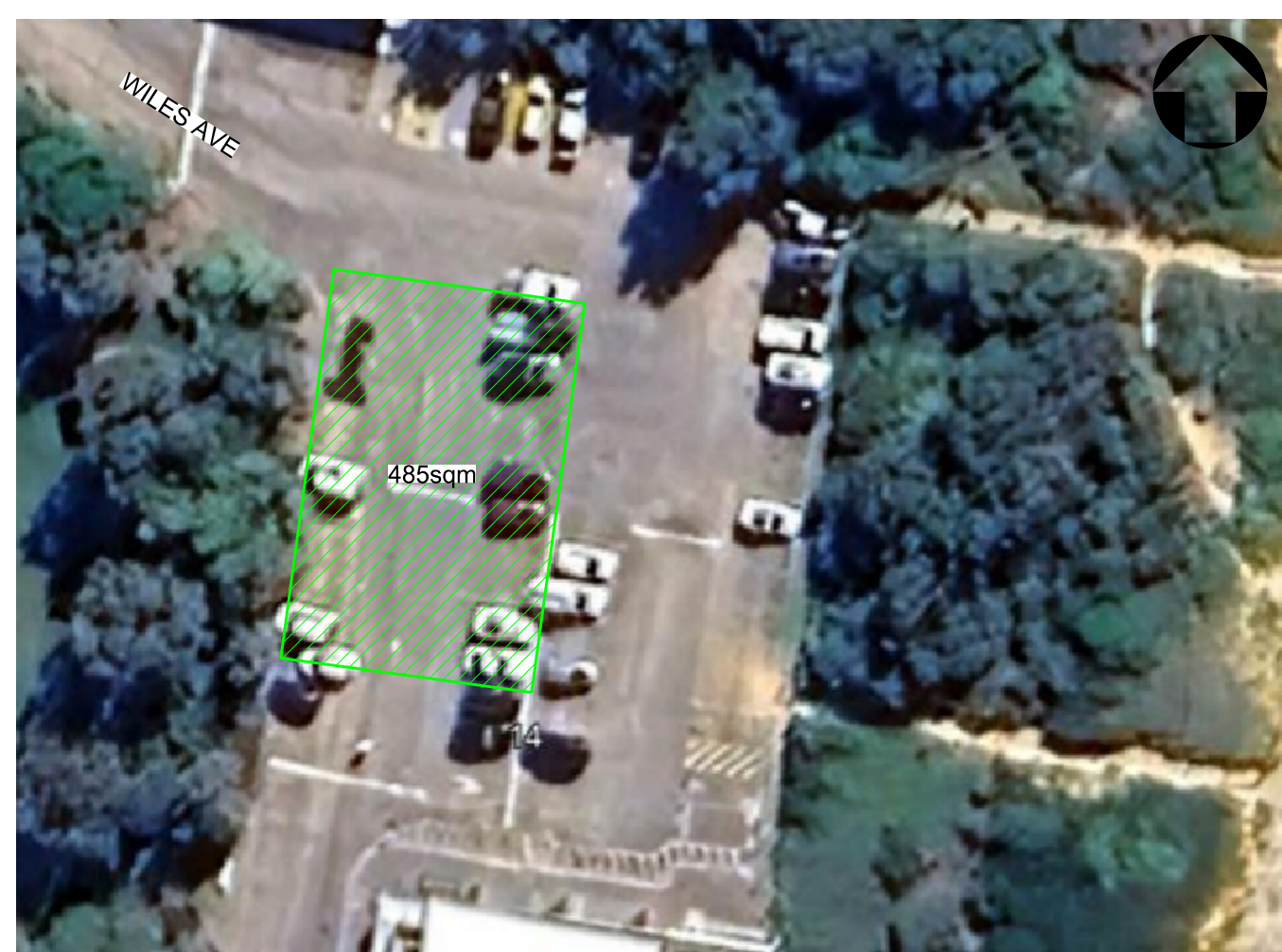
ATTACHMENT C – SECTION A – STRUCTURAL PLANS

	1	2	3	4	5	6	7	8
	0001-762-922-0000-2730327H ON, DWG							
A	15. STAINLESS STEEL 15.1. ALL STAINLESS STEEL UP TO RL 3.0m AHD SHALL BE GRADE 2205 OR 2307, ABOVE RL 3.0m CD MAY BE 316 OR 2205. 15.2. ALL STAINLESS STEEL BOLTS SHALL HAVE ROLLED THREADS AND BE: a) A4-70 FOR BOLTS LESS THAN OR EQUAL TO M20 b) A4-50 FOR BOLTS GREATER THAN M20 BOLTS AND NUTS SHALL COMPLY WITH RELEVANT STANDARDS, INCLUDING : 3506 15.3. ALL STAINLESS STEEL FASTENERS IN CONTACT WITH NON STAINLESS STEEL MEMBERS SHALL BE ISOLATED USING ISOLATING GROMMETS AND WASHERS.			21. EXPANSION JOINT 21.1. TPS EXPANSION JOINTS ARE NOT CURRENTLY SHOWN. TO BE INCLUDED AT DETAILED DESIGN ISSUE.			29. HAZARDOUS MATERIALS 29.1. HAZARDOUS MATERIALS SUCH AS ASBESTOS AND OTHER NON -NATIVE MATERIALS MAY BE PRESENT ALONG THE ENTIRE FORESHORE OF THE WORKS. 29.2. MANAGEMENT OF CONTAMINATED LANDS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE NSW ENVIRONMENTAL PROTECTION AUTHORITY (EPA) REQUIREMENTS INCLUDING THE CONTAMINATED LAND MANAGEMENT ACT 1997, STATE ENVIRONMENTAL PLANNING POLICY (RESILIENCE) 29.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF A WASTE MANAGEMENT PLAN IN ACCORDANCE WITH THE COUNCIL'S DEVELOPMENT CONTROL PLAN. 29.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE PLAN SUCH THAT ANY DEMOLITION AND CONSTRUCTION WASTE, INCLUDING EXCAVATED MATERIALS IS REUSED, RECYCLED OR DISPOSED OF IN AN ENVIRONMENTALLY FRIENDLY MANNER.	
	16. FASTENERS 16.1. ALL BOLTS, NUTS AND WASHERS SHALL A) BE STAINLESS STEEL UNO B) SHALL COMPLY WITH AS 1252			22. SAND NOURISHMENT 22.1. ONGOING NOURISHMENT AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF COUNCIL. (MHL 2872,2022) 22.2. MATERIALS USED IN SAND NOURISHMENT SHALL BE IN ACCORDANCE WITH THE DESIGN REQUIREMENT (MHL2872, 2022)			30. APPLICATION OF TPS DESIGN OPTIONS. 30.1 THE TPS DESIGN OPTIONS PROPOSED ARE PRELIMINARY. THE EXACT APPLICATION OF DESIGN OPTION AT EACH PROPERTY INCLUDING LOCATION OF TRANSITION BETWEEN OPTIONS IS SUBJECT TO DETAILED DESIGN.	
B	17. ACCESS STAIRWAYS 17.1. STAIRWAY ARRANGEMENT SHOWN IN THE TPS IS INDICATIVE ONLY. DETAIL AND LOCATION IS SUBJECT TO DETAILED DESIGN. 17.2. HANDRAILS SHALL BE PROVIDED IN ACCORDANCE WITH RELEVANT STANDARDS AND TO BE DETERMINED IN THE DETAILED DESIGN			23. ARCHITECTURAL PANEL, SANDSTONE BLOCK, ACCESS STAIRWAYS, AND LANDSCAPING: 23.1. REFER TO SEPARATE DRAWINGS / DOCUMENTS FOR DETAILS.				
	18. PROTECTIVE COATING 18.1. ALL PROTECTIVE COATINGS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATION AND SHALL COMPLY WITH RELEVANT STANDARDS. 18.2. DAMAGED ARCHITECTURAL SURFACES SHALL EITHER BE REPLACED OR REPAIRED IN A MANNER THAT ACHIEVES THE INTENDED AESTHETIC.			24. TERMINAL PROTECTION STRUCTURE END CONTROLS (RETURN WALLS) 24.1. END CONTROL MEASURES SHALL BE PROVIDED AT THE TPS TERMINATION POINTS. EXTENT OF THE RETURN WALL TO BE CONFIRMED AND FURTHER DEVELOPED AT DETAILED DESIGN. 				
				INDICATIVE TERMINAL END CONTROL RETURN WALLS - TO BE DEFINED AT DETAILED DESIGN STAGE (NOT TO SCALE)				
	19. EXISTING SERVICES / BUILDINGS 19.1. ALL INFORMATION REGARDING THE EXISTING UTILITIES, SERVICES, STRUCTURES OR OTHER FEATURES SHOWN ON DRAWINGS ARE FOR GUIDANCE ONLY. THE DETAILS HAVE BEEN OBTAINED AND / OR REPRODUCED FROM RECORD OR CONSTRUCTION DRAWING FROM VARIOUS SOURCES. THE INFORMATION IS MADE AVAILABLE TO THE CONTRACTOR ON UNDERSTANDING THAT NEITHER "WAMBERAL PROTECTION ASSOCIATION" NOR "HATCH PTY LTD" NOR THE AGENTS OF EITHER ACCEPT RESPONSIBILITY FOR ACCURACY OR EXTENT OF THE INFORMATION CONTAINED IN RESPECT OF EXISTING DETAILS. IN RESPECT OF ALL EXISTING DETAIL, THE CONTRACTOR SHALL UNDERTAKE ASSESSMENT OF EXCAT LINES, LEVEL, NATURE, TYPE, SIZE AND LOCATION.			25. WAMBERAL TERMINAL PROTECTION STRUCTURE ALIGNMENT 25.1. THE ALIGNMENT HAS BEEN PRIMARILY DEVELOPED CONSIDERING KEY CRITERIA AND ENGINEERING REQUIREMENTS PROVIDED BY THE COUNCIL. ADDITIONALLY, IMPACT ON THE EXISTING STRUCTURES (INFORMATION IS BASED ON THE AVAILABLE SURVEY) AND TREE PROTECTION ZONES HAS BEEN CONSIDERED IN THE DEVELOPMENT OF THE ALIGNMENT. 25.2. ALIGNMENT MAY NEED TO BE ADJUSTED LOCALLY TO SUIT IN SITU CONDITIONS AND TO AVOID ANY POTENTIAL DAMAGE TO THE EXISTING STRUCTURES/FEATURES AND AROBORIST INPUTS DURING THE DETAILED DESIGN AND/OR PRIOR TO THE CONSTRUCTION. 25.3. ANY ADJUSTMENTS TO THE ALIGNMENT AFTER DETAILED DESIGN APPROVAL, IF REQUIRED, SHALL BE REFERRED TO THE ENGINEER FOR REVIEW AND FINALIZATION. 25.4. TPS TERMINATION: RETURN WALLS AT WALL TERMINATION POINTS SHOWN ARE INDICATIVE ONLY. EXTENT, SHAPE AND ARRANGEMENT TO BE DETERMINED DURING THE DETAILED DESIGN.				
C	20. CONSTRUCTION / ERECTION: 20.1. THE FOLLOWING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR: A) STRIPPING, LIFTING, STACKING, TRANSPORTATION, ERECTION AND ALL HANDLING B) PROVISION OF SUITABLE LIFTING BRACKS, SLINGS, SPREAD BEAMS, ETC. C) OBTAINING AND COORDINATION OF BEACH ACCESS WITH COUNCIL. D) ESTABLISHMENT OF THE APPROPRIATE EXCLUSION ZONES NECESSARY TO BEACH USER SAFETY DURING CONSTRUCTION. D) TEMPORARY WORKS AND SUPPORTS NECESSARY TO ELIMINATE THE RISK OF DAMAGE TO EXISTING STRUCTURES. E) REUSE/ REMOVAL OF ALL NON-NATIVE MATERIALS EXISTING WITHIN THE BEACH AND DUNE SUBSTRATE SEAWARD OF THE TPS. F) REUSE/ RECYCLE OR DISPOSAL OF ALL MATERIALS SHALL BE UNDERTAKEN IN ACCORDANCE WITH WASTE MANAGEMENT PLAN. 20.2. DILAPIDATION SURVEY REPORTS SHALL BE COMPLETED PRIOR TO COMMENCEMENT AND AT THE COMPLETION OF WORKS FOR ALL STRUCTURES ADJACENT TO TPS. 20.3. SITE SURVEYS (INCLUDING BEACH AND FOREDUNE) SHALL BE COMPLETED PRIOR TO WORKS, DURING WORKS (INCLUDING STRUCTURE ALIGNMENT AND LAYOUT) AND WITHIN 4 DAYS AFTER COMPLETION OF THE WORKS 20.4. CONSTRUCTION SEQUENCING INFORMATION IS PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SEQUENCING. 20.5. THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE TO EXISTING BUILDINGS, STRUCTURES AND FOUNDATIONS, ANY CLASH WITH EXISTING STRUCTURES IDENTIFIED SHALL BE BROUGHT TO THE CLIENT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORKS. 20.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING NO DAMAGE OCCURS TO COUNCIL ASSETS, ANY DAMAGE THAT OCCURS SHALL BE RECTIFIED BY THE CONTRACTOR AT NO COST TO THE COUNCIL IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION. 20.7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING OF WEATHER/ WAVE HEIGHT CONDITIONS AND ERECTION OF TEMPORARY SHORING WORKS TO STABILIZE THE WORKS AREA.			26. ARCHITECTURAL PANEL 26.1. ARCHITECTURAL PANEL DETAIL INCLUDING TOP WAVE DEFLECTOR SHAPE DETAIL SHOWN ARE INDICATIVE ONLY. FINAL DETAIL IS SUBJECT TO DETAILED DESIGN.				
				27. INDICATIVE CONSTRUCTION METHODOLOGY 27.1. THE TPS IS PROPOSED TO BE CONSTRUCTED IN THE FOLLOWING STAGES: A) UNDERTAKE SITE CLEARANCE AS REQUIRED. REMOVE/RELOCATE EXISTING ROCK AND NON -NATIVE MATERIALS. B) ERECT TEMPORARY PROTECTION METHODS TO EXISTING STRUCTURES AND SERVICES AS REQUIRED TO PREVENT DAMAGE DURING PILING WORKS. C) MOBILIZE PILING EQUIPMENT FROM SEAWARD SIDE AND ERECT GUIDE WALL IF REQUIRED. CONDUCT INITIAL SITE SURVEY D) CONSTRUCT PRIMARY PILES TO SOCKET DEPTH (UNREINFORCED PILES) E) CONSTRUCT SECONDARY PILES TO SOCKET DEPTH (REINFORCED PILES) F) EXCAVATE TRENCH AND ERECT TEMPORARY SHORING/ FORM WORK AS REQUIRED. G) CONSTRUCT CAPPING BEAM. CONDUCT SITE SURVEY. H) INSTALL GEOTEXTILE ON LANDWARD SIDE OF CAPPING BEAM. I) UNDERTAKE GROUND IMPROVEMENT WORKS ON LANDWARD SIDE. INSTALL SANDSTONE BLOCKS (WHERE RELEVANT) J) EXCAVATE FRONT OF CAPPING BEAM AND INSTALL SEASIDE ARCHITECTURAL PANEL. K) COMPLETE SAND NOURISHMENT ON SEASIDE TO REQUIRED FINISH LEVEL. L) CONDUCT COMPLETION SITE SURVEY. 27.2. CONSTRUCTION METHODOLOGY PROVIDED FOR INFORMATION ONLY. FINAL METHODOLOGY AND DEVELOPMENT OF A CONSTRUCTION MANAGEMENT PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND APPROVED BY THE ENGINEER.				
D								
E								
F								

DWG. No. H370327-0000-225-294-1004



INDICATIVE STORAGE AREA - PARK NEXT TO SURF CLUB
(APPROXIMATE STORAGE AREA : 500 sqm)



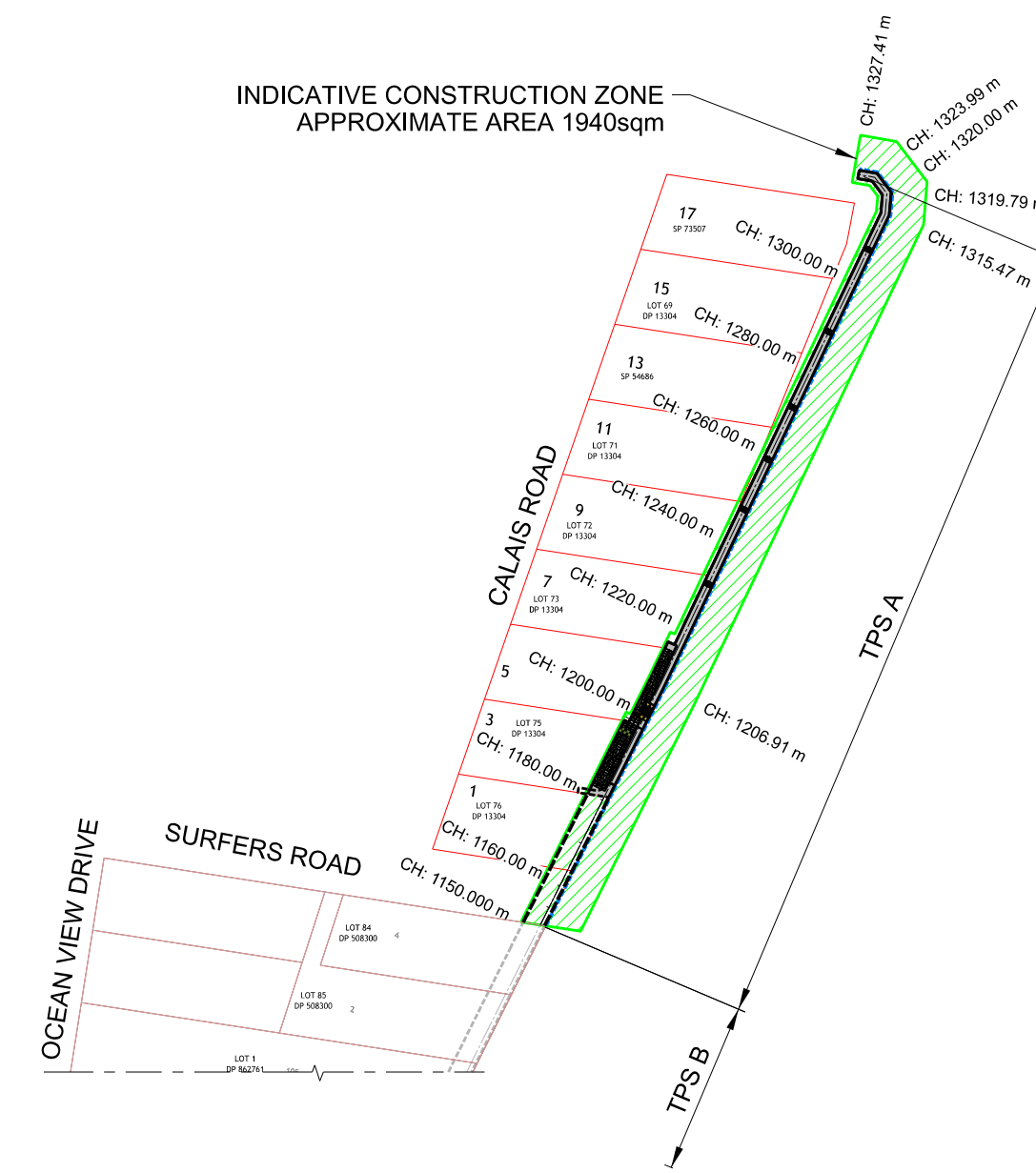
INDICATIVE STORAGE AREA - SURF CLUB CAR PARK
(APPROXIMATE STORAGE AREA : 485 sqm)



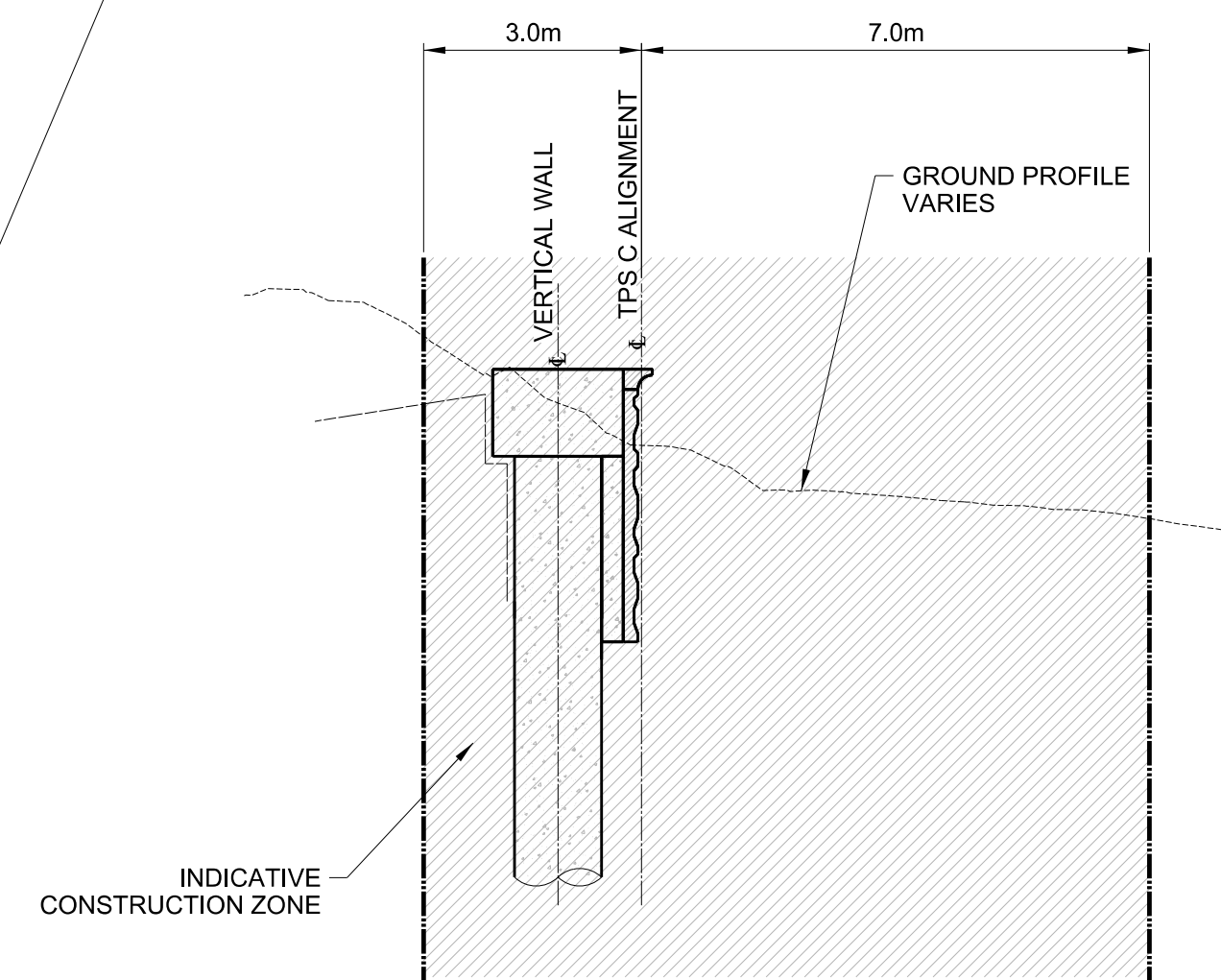
INDICATIVE STORAGE AREA - SURF CLUB CAR PARK
(APPROXIMATE STORAGE AREA : 230 sqm)



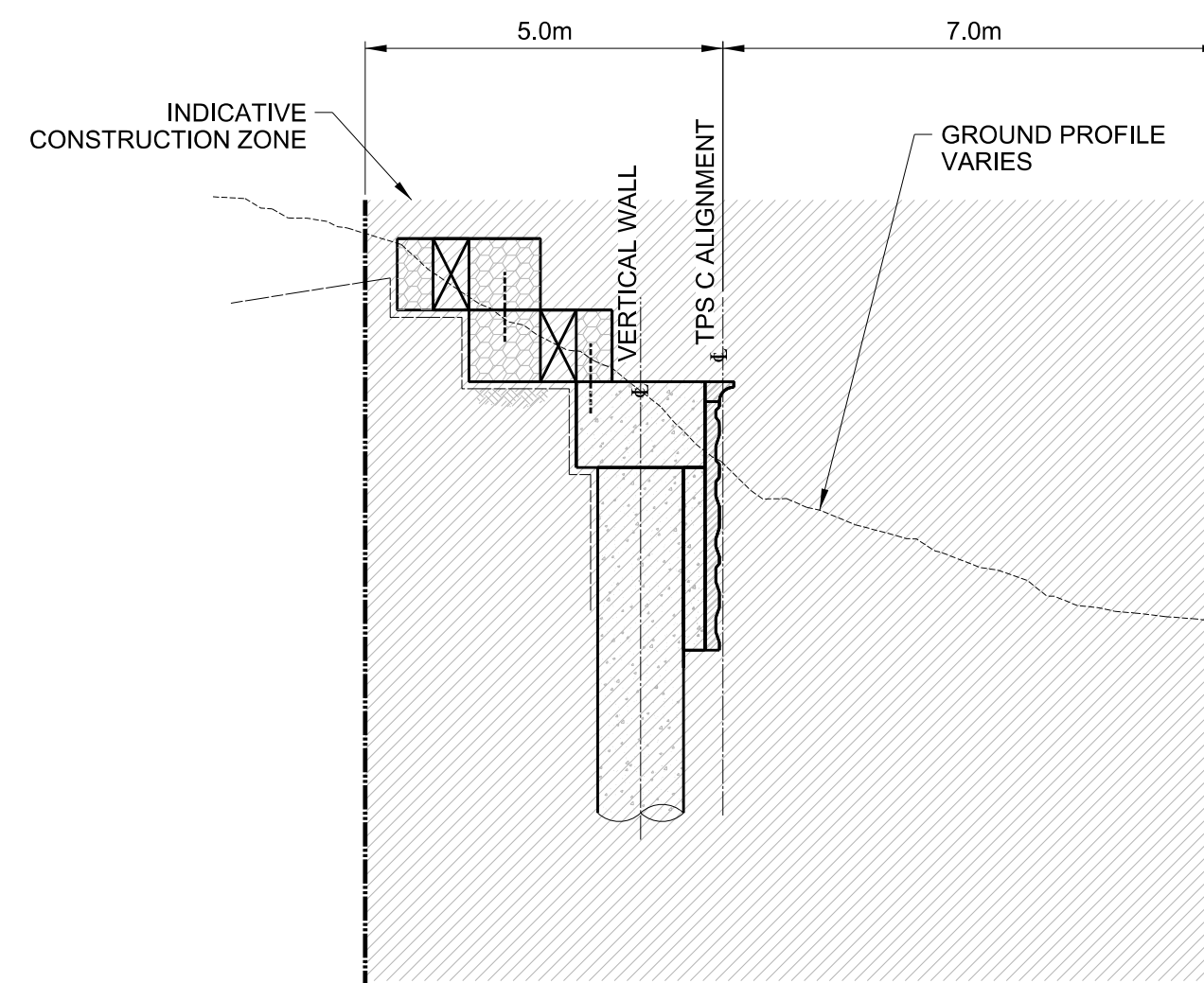
INDICATIVE STORAGE AREA - END OF PACIFIC STREET
(APPROXIMATE STORAGE AREA : 150 sqm)



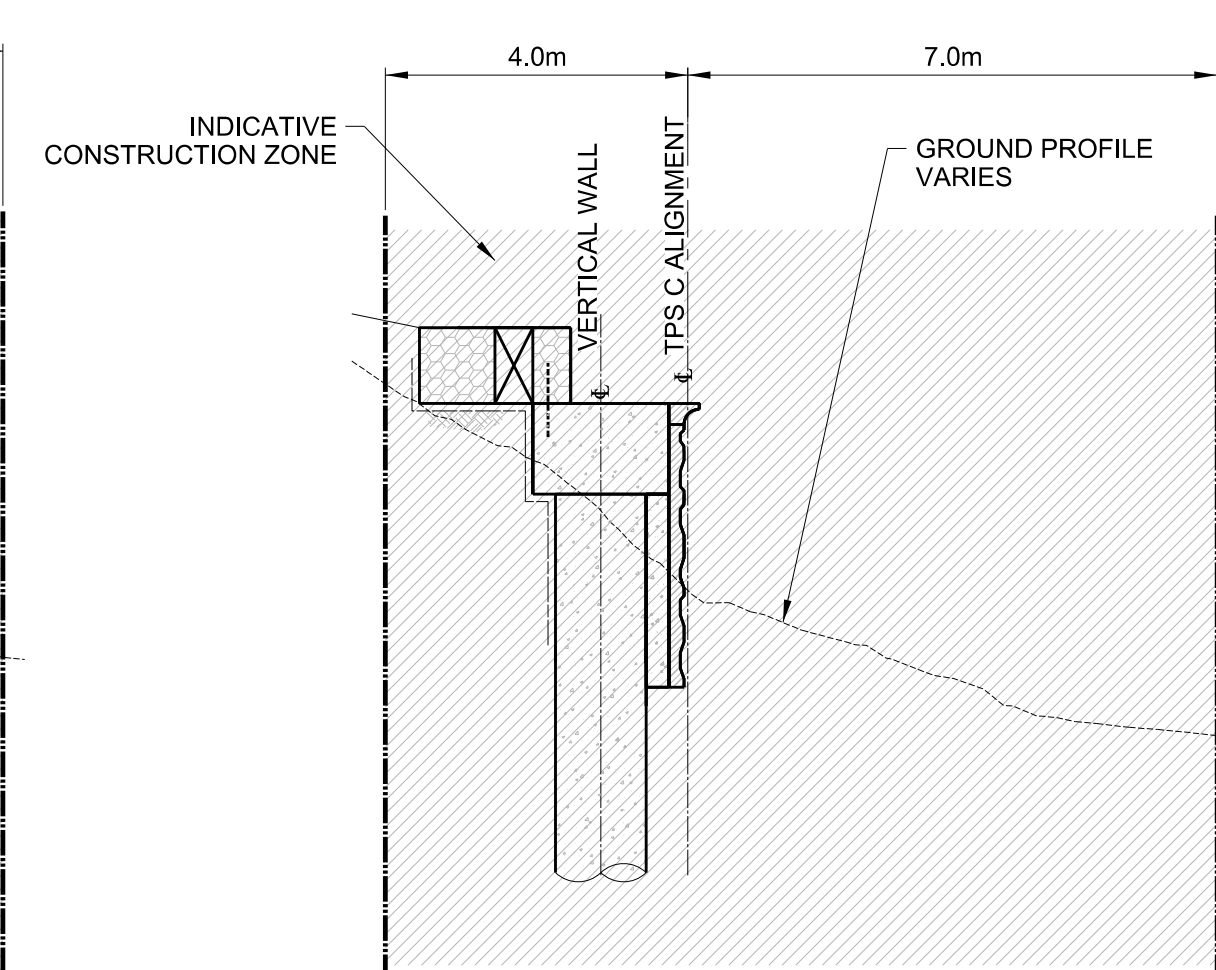
TPS A - ALIGNMENT



TPS A - SECTION - WALL ONLY



TPS A - SECTION - 2 STEPS



TPS A - SECTION - 1 STEPS

LEGEND

CH: 50.00m

RESIDENTIAL PROPERTY BOUNDARY

TPS CHAINAGE 50 METRES AND MEASURED
AT CENTERLINE OF VERTICAL WALL

INDICATIVE CONSTRUCTION ZONE

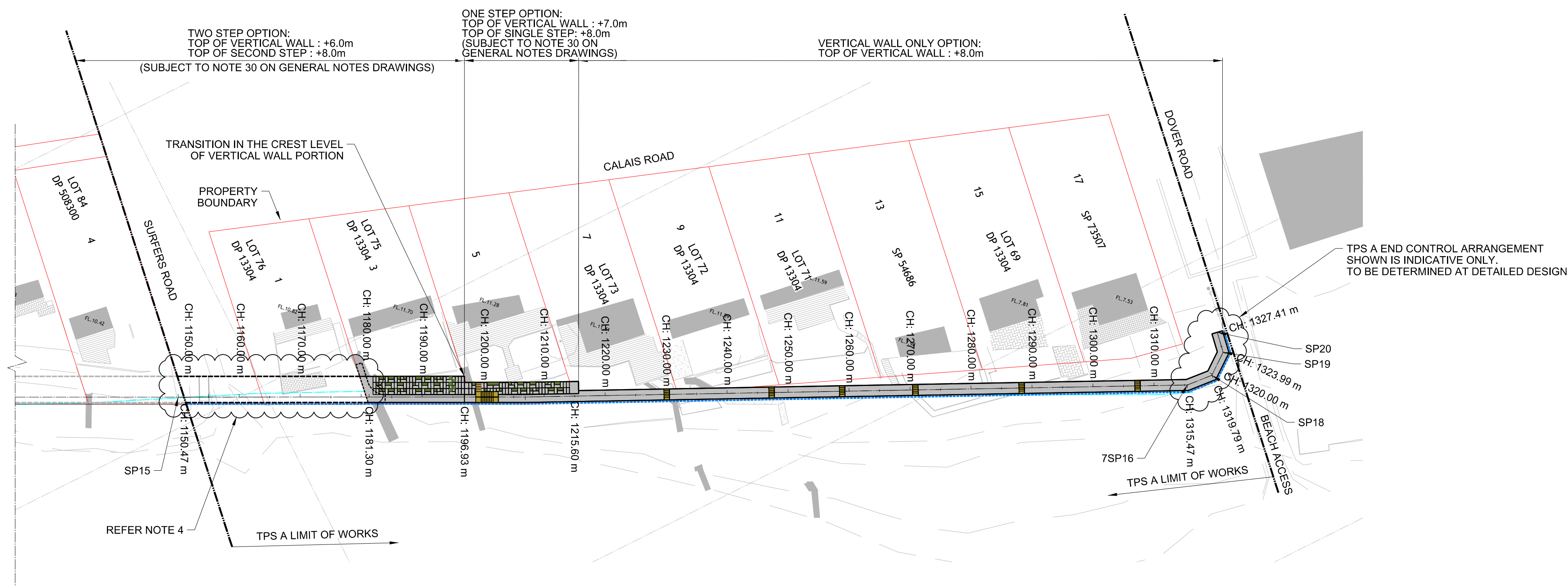
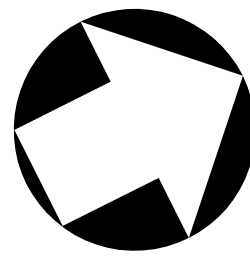
NOTES:

1. FOR DRAWING LIST REFER TO H370327-0000-225-294-1001
2. FOR GENERAL NOTES REFER TO H370327-000-225-294-1002 & 1003
3. REFER TO H370327-0000-225-270-1011, 1012 & 1013 FOR GENERAL ARRANGEMENT DETAILS OF THE TERMINAL PROTECTION STRUCTURE (TPS)

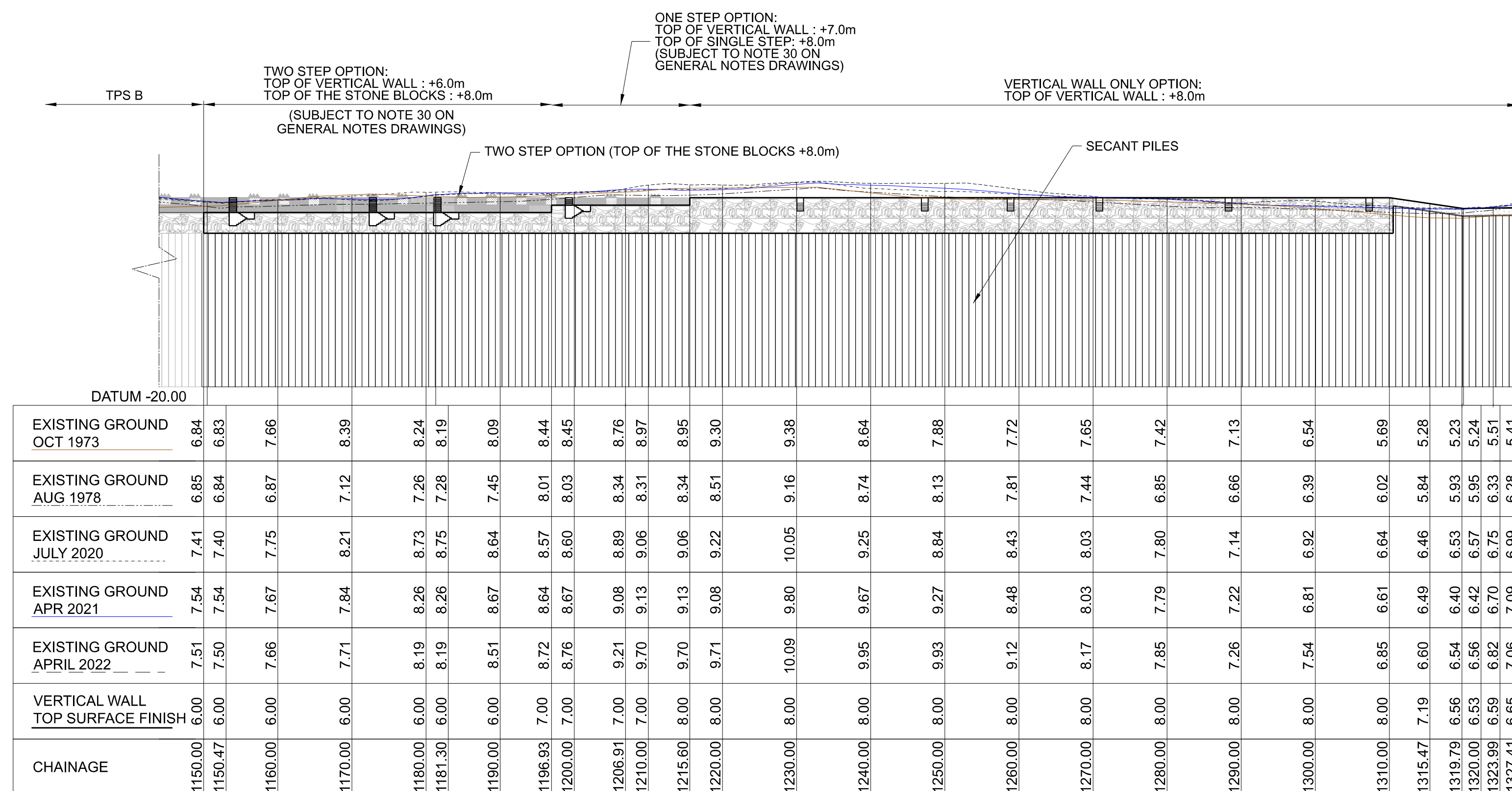
PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

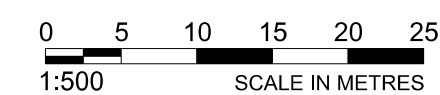
DWG. No. H370327-0000-225-270-1011



WAMBERAL TPS A PLAN

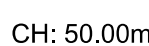


TPS A ELEVATION
1:500



TPS A SET OUT POINTS (INDICATIVES AND COORDINATES ARE TAKE ALONG THE CENTRE LINE OF THE VERTICAL WALL)			
REFERENCE	CHAINAGE (m)	NORTHING (m)	EASTING (m)
SP15	1150.00	6299736.968	355545.415
SP16	1206.91	6299787.873	355570.856
SP17	1315.47	6299885.411	355617.442
SP18	1319.79	6299890.141	355618.015
SP19	1323.99	6299893.488	355615.478
SP20	1327.41	6299894.082	355612.108

LEGEND

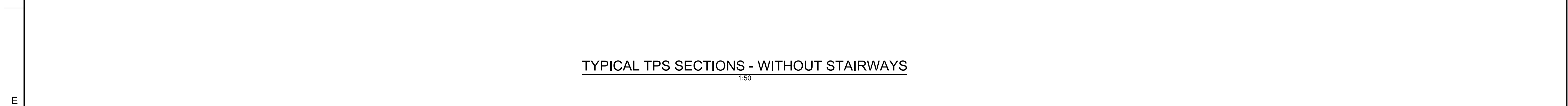
- | | |
|---|---|
|  | <p>PROPOSED TPS ALIGNMENT</p> <p>MHL ALIGNMENT</p> <p>RESIDENTIAL PROPERTY BOUNDARY</p> <p>CH: 50.00m</p> |
|  | <p>EXISTING STRUCTURE FOOT PRINT</p> <p>PROPOSED TPS</p> <p>SANDSTONE BLOCK</p> |
|  | <p>STAIRWAY</p> |

NOTES:

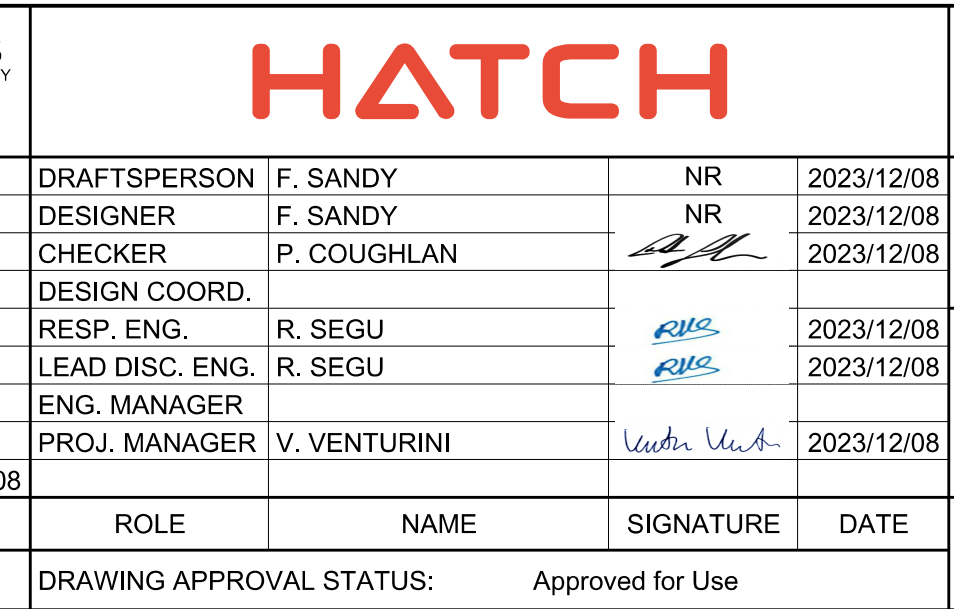
1. FOR DRAWING LIST REFER TO H370327-0000-225-294-1001
2. FOR GENERAL NOTES REFER TO H370327-000-225-294-1002 & H370327-000-225-294-1003
3. FOR SET OUT POINT CO-ORDINATES, REFER TO TABLE.
4. TPS AT #1 CALAIS ROAD AND SURFER'S ROAD IS NOT PART OF THE APPLICATION AT THE TIME OF SUBMISSION.
5. CONTINUOUS TPS EXTENT IS SHOWN FOR COMPLETENESS.
6. TERMINATION END CONTROLS TO BE IMPLEMENTED. REFER TO GENERAL NOTES FOR INDICATIVE DETAIL OF RETURN WALL.

PRELIMINARY
NOT FOR CONSTRUCTION

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PRELIMINARY
NOT FOR CONSTRUCTION



1	2	3	4	5	6	7	8	SHEET SIZE: A1
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