

BABBACOMBE BEACH ROAD STABILISATION SCHEME



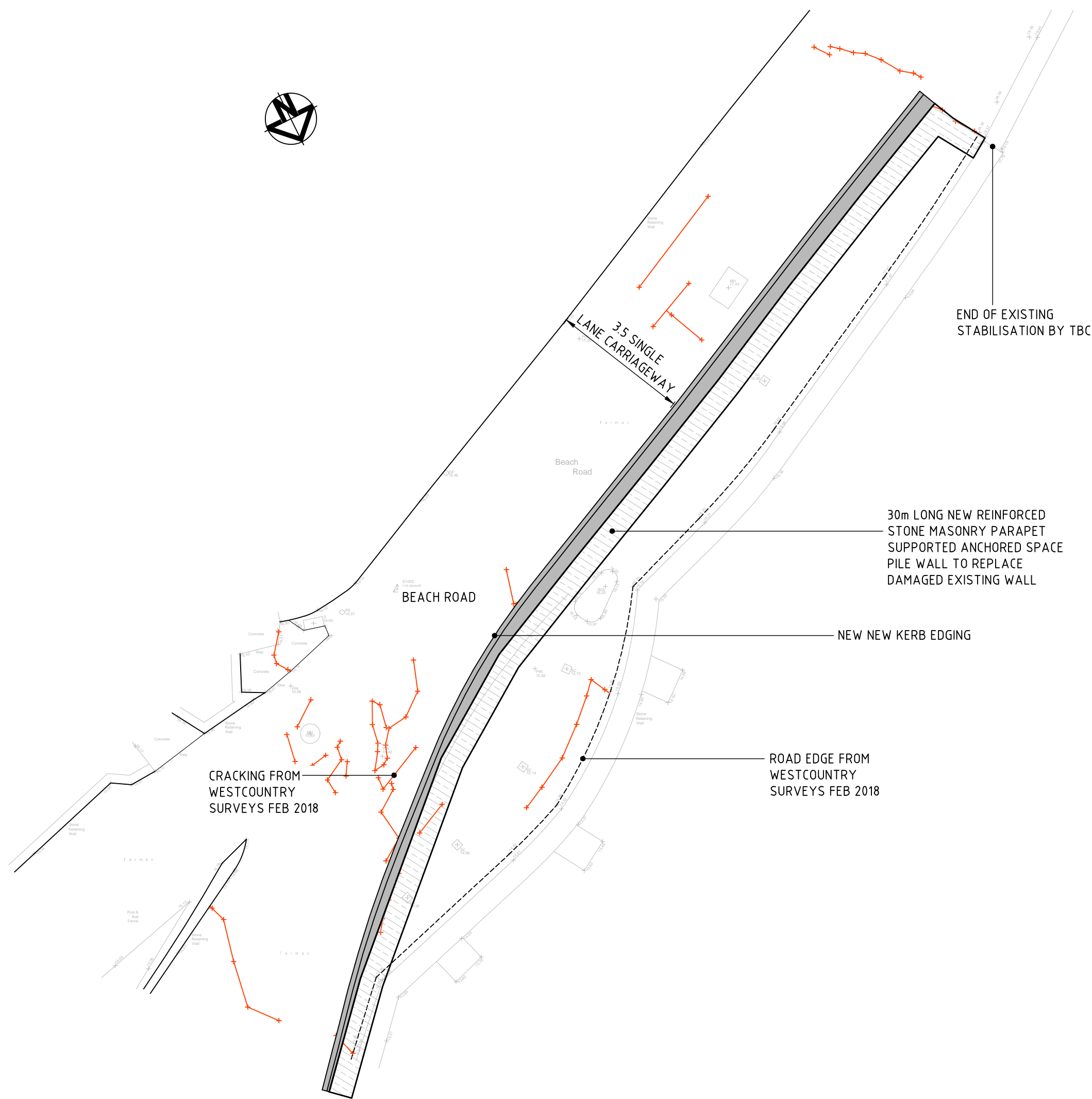
APPENDIX B SCHEME DRAWINGS

IAN JONES
SERVICE MANAGER
HIGHWAYS AND TRANSPORT
COMMUNITY AND CUSTOMER SERVICES,
LOWER GROUND FLOOR,
TOWN HALL,
TORQUAY,
TQ1 3DR.

SCHEME DRAWINGS

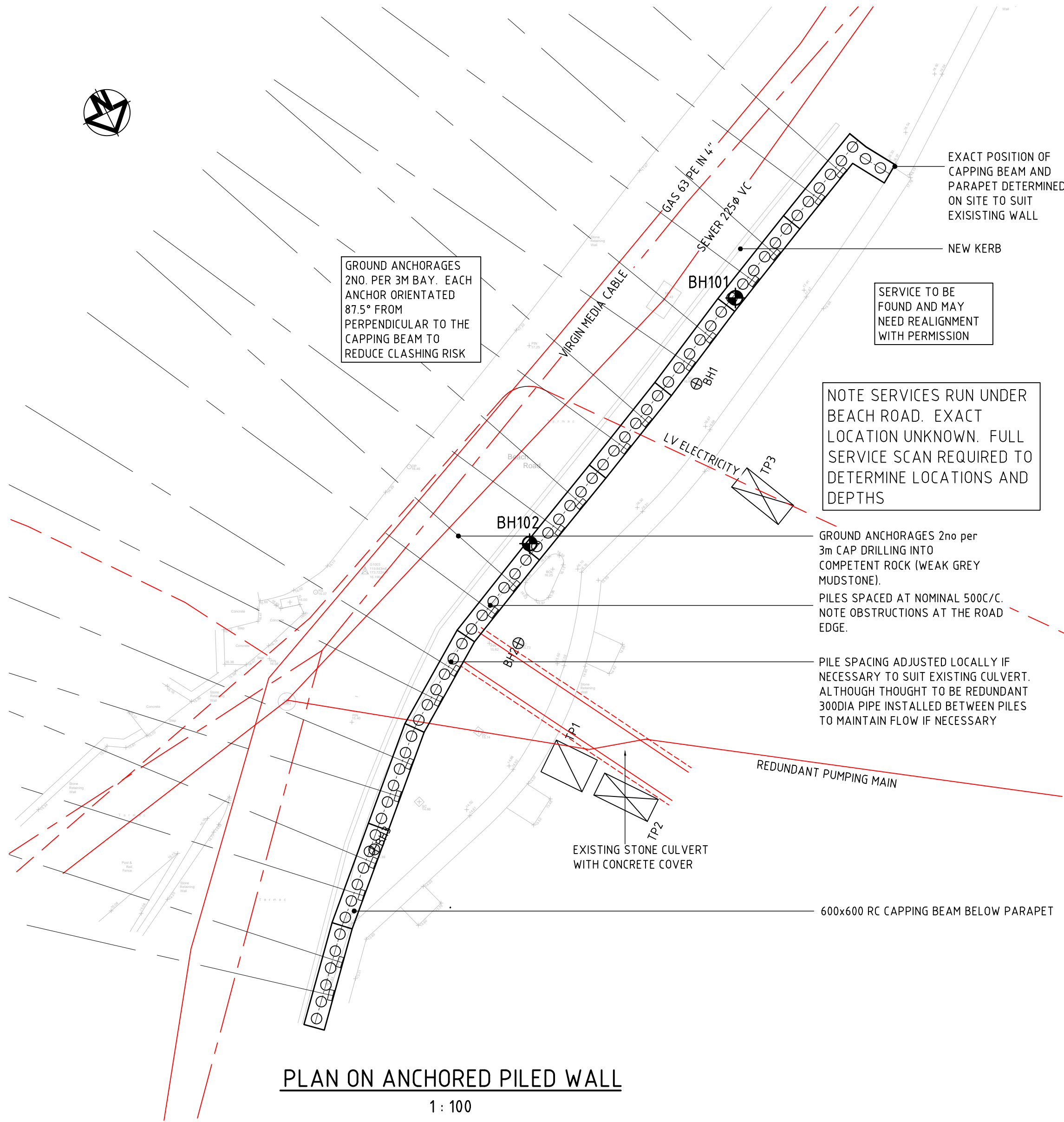
General

- 14682 - 201 - T1 Stabilisation Layout and Typical Section
- 14682 - 202 - T1 Pile Elevation and Anchor Schedule
- 14682 - 203 - T2 Typical Details
- 14682 - 204 - T1 Test Anchor Details
- 14682 - 205 - T2 Setting Out Drawing
- 14682 - 206 - T2 Road Plan and Sections
- 14682 - 207 - T1 Reinforced Concrete Details



PLAN ON PARAPET

1 : 100

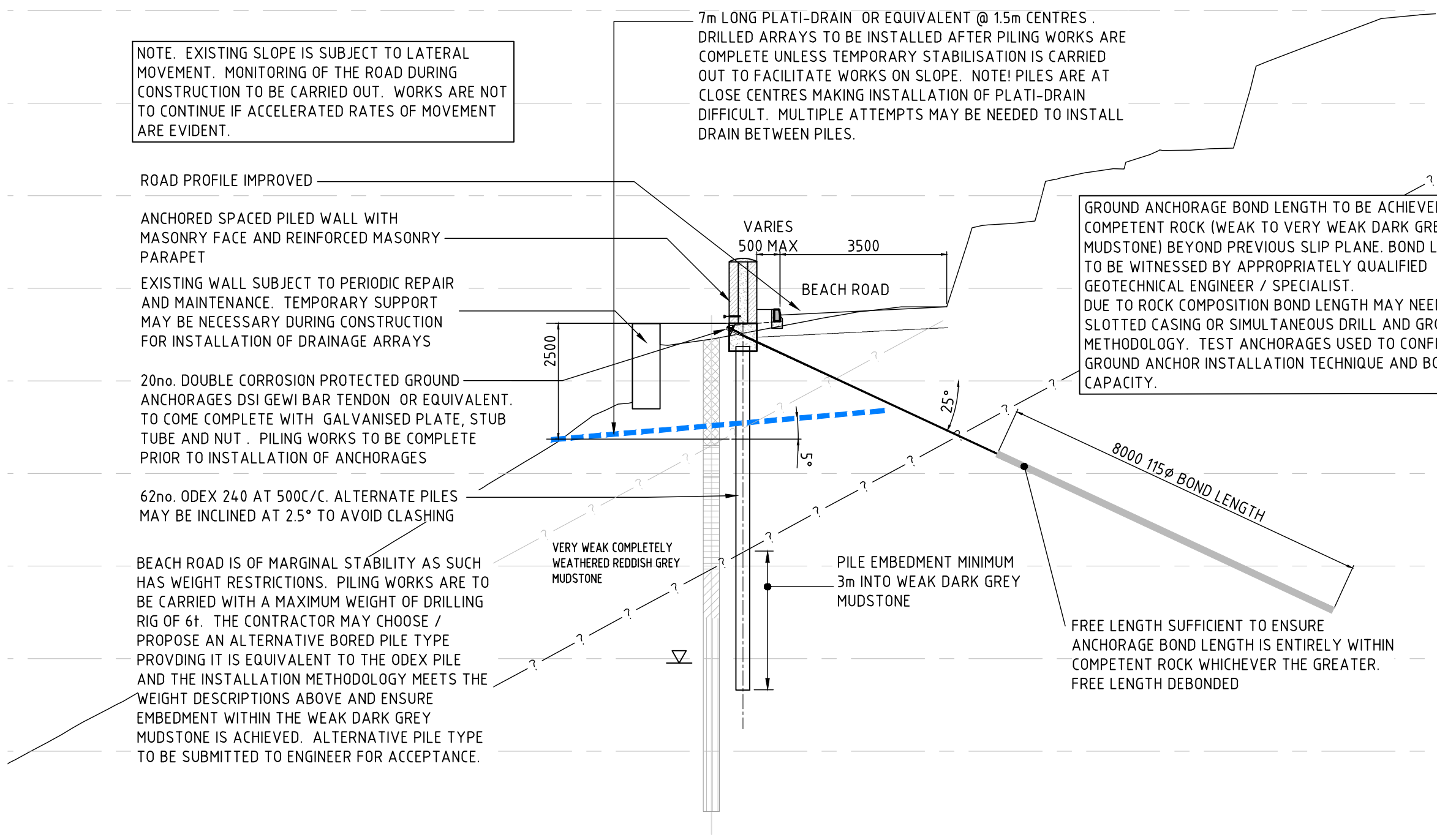


PLAN ON ANCHORED PILED WALL

1 : 100



LOCATIONS FOR TRAFFIC LIGHT SYSTEM MANAGEMENT OF SINGLE FILE TRAFFIC.



TYPICAL SECTION

1 : 100

DESIGN NOTES

RETAINING WALLS AT BASE OF SLOPE MAY REQUIRE STRENGTHENING. ALTHOUGH WORKS WORKS REDUCE FORCE ON LOWER WALLS, THE WORKS DO NOT PROVIDE RESTRAINT TO SUCH STRUCTURES.

DETAILED STABILISATION WORKS DESIGNED TO SUPPORT BEACH ROAD TO THE DEPTH OF DARK GREY MUDSTONE IN THE EVENT THE LOWER SLOPE FAILS / MOVES. BASED ON POTENTIAL SLIP BOUNDARY AT TRANSITION BETWEEN SHALE TYPES.

DESIGN VEHICLE SURCHARGE LOAD: 10 KN/m². VEHICLE ACCESS TO AREA RESTRICTED DUE TO ROAD GEOMETRY AND GRADIENT TO SOUTH OF AREA.

- DESIGNERS ANTICIPATED CONSTRUCTION SEQUENCE
1. SCAN SITE FOR SERVICES
 2. INSTALL NECESSARY WORKING PLATFORMS TO ENABLE INSTALLATION OF WORKS (THIS MAY BE DONE FOR EACH PRINCIPAL ELEMENT)
 3. PILES INSTALLED
 4. INVESTIGATIVE TEST ANCHORAGES INSTALLED AND TESTED
 5. GROUND LOCALLY EXCAVATED FOR CAPPING BEAM
 6. CAPPING BEAM INSTALLED
 7. GROUND ANCHORAGES INSTALLED THROUGH CAPPING BEAM. ANCHORS TESTED AND COMMISSIONED ONCE CAPPING BEAM HAS REACHED DESIGN STRENGTH
 8. PLATI-DRAIN INSTALLED
 9. EXISTING ROAD CONSTRUCTION REMOVED AND NEW CONSTRUCTION INSTALLED.

- Notes:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM.
 3. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- HEALTH AND SAFETY
- a. THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 APPLY TO THIS WORK.
 - b. THE CLIENT, CONTRACTORS AND DESIGNERS HAVE LEGAL DUTIES UNDER CDM 2015. REFER TO THE HEALTH AND SAFETY EXECUTIVE WEBSITE (<http://www.hse.gov.uk>) AND THE CONSTRUCTION INDUSTRY TRAINING BOARD WEBSITE (www.citb.co.uk) FOR FURTHER DETAILS.
 - c. JOHN GRIMES PARTNERSHIP LTD ARE NOT THE PRINCIPAL DESIGNER.
 - d. THE PRINCIPAL CONTRACTOR AND ALL SUBCONTRACTORS MUST SATISFY THEMSELVES THAT THEY FULLY UNDERSTAND THE DESIGN AND SITE CONSTRAINTS/ACTIVITIES IN TERMS OF CDM 2015 AND THAT AN APPROPRIATE CONSTRUCTION PHASE PLAN IS IN PLACE PRIOR TO COMMENCING ANY WORKS ON SITE. THE CONSTRUCTION PHASE PLAN SHALL INCLUDE RISK ASSESSMENTS AND SAFE METHODS OF WORKING AS A MINIMUM.
 - e. POTENTIAL CONSTRUCTION RISKS ASSOCIATED WITH THIS SITE INCLUDE:
 - i)WORKS ABOVE AND ADJACENT STEEP SLOPE AND EXISTING ROTATED RETAINING WALL
 - ii) WORKS ADJACENT PUBLIC ROAD
 - iii)EXISTING SERVICES WITHIN ROAD
 - ii)CRACKED ROAD SURFACE THAT HAS MOVED AND POTENTIALLY STILL MOVING
 - f. THE PRINCIPAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE RELEVANT RECORDS AND INFORMATION TO THE PRINCIPAL DESIGNER FOR INCLUSION IN THE HEALTH AND SAFETY FILE. THIS MAY INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION: CERTIFICATES IN RESPECT TO SUITABILITY AND SPECIFICATION COMPLIANCE OF RELEVANT MATERIALS AND/OR MANUFACTURE PROCESSES, OPERATION AND MAINTENANCE MANUALS, AS CONSTRUCTED DRAWINGS.

T1	TENDER ISSUE	11JUN20	SKT	MB
P4	PILE SPACING REDUCED TO SUIT FSL COMMENTS	17APR20		MB
P3	ANCHOR TENDON SIZE REFINED BOND DIAMETER REDUCED	28SEP18	CE	MB
P2	AIP ISSUE DRG 02 TRANSFERRED TO DRG 201	31JUL18	TRS	MB
P1	FIRST ISSUE	16MAY18	MB	MC
Issue	Description	Date	Drwn	Chkd

Status			
TENDER			
NOT TO BE USED FOR CONSTRUCTION			
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Scales	AS SHOWN	Author	T.R. SPILLER
Original Size	A1	Checker	M. BURROWS



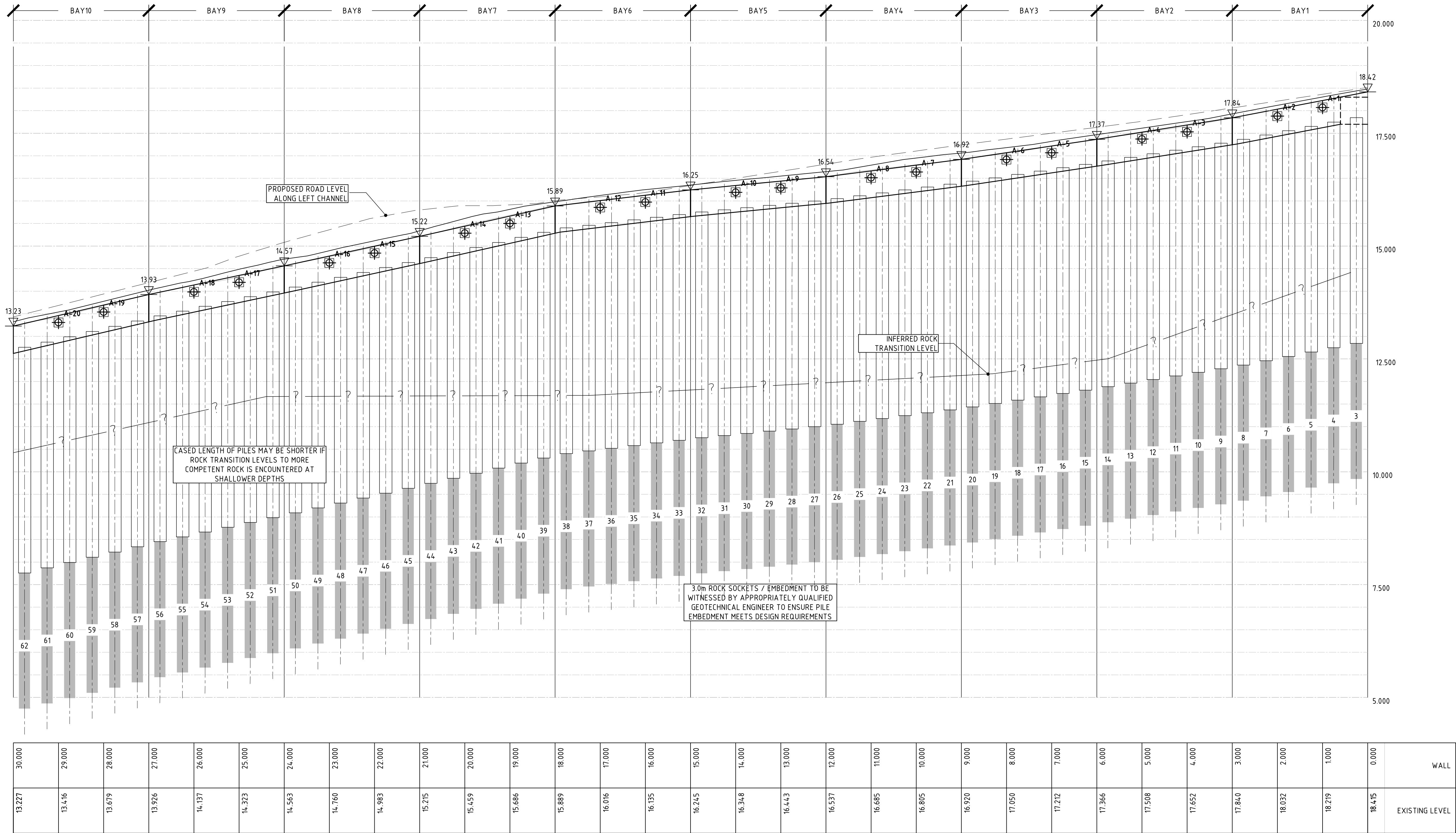
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Client
HAVANA WEST

Project
BEACH ROAD STABILISATION

Title
PILED WALL GA AND TYPICAL SECTION

Project No.	Drawing No.	Rev.
14682	201	T1



Anchor ID	Elevation (mAOD)	Tendon Diameter (mm) Gewi-Bar	Working Load (kN)	Proof Load (kN)	Lock Off Load (kN)	Approx anticipated Free Length (m)	Bond Length (m)	Bond Diameter (mm)	Anchor Inclination (° off horizontal) (± 2.5°)	Plate Size (mm)
A-1	18.15	25	97.5	147	221	8.0	8	115	25	200x200x30
A-2	17.86	25	97.5	147	221	8.0	8	115	25	200x200x30
A-3	17.60	25	97.5	147	221	8.0	8	115	25	200x200x30
A-4	17.36	25	97.5	147	221	8.0	8	115	25	200x200x30
A-5	17.13	25	97.5	147	221	8.0	8	115	25	200x200x30
A-6	16.91	25	97.5	147	221	8.0	8	115	25	200x200x30
A-7	16.70	25	97.5	147	221	8.0	8	115	25	200x200x30
A-8	16.51	25	97.5	147	221	8.0	8	115	25	200x200x30
A-9	16.34	25	97.5	147	221	8.0	8	115	25	200x200x30
A-10	16.20	25	97.5	147	221	8.0	8	115	25	200x200x30

Anchor ID	Elevation (mAOD)	Tendon Diameter (mm) Gewi-Bar	Working Load (kN)	Proof Load (kN)	Lock Off Load (kN)	Approx anticipated Free Length (m)	Bond Length (m)	Bond Diameter (mm)	Anchor Inclination (° off horizontal) (± 2.5°)	Plate Size (mm)
A-11	16.03	25	97.5	147	221	8.0	8	115	25	200x200x30
A-12	15.86	25	97.5	147	221	8.0	8	115	25	200x200x30
A-13	15.60	25	97.5	147	221	8.0	8	115	25	200x200x30
A-14	15.26	25	97.5	147	221	8.0	8	115	25	200x200x30
A-15	14.93	25	97.5	147	221	8.0	8	115	25	200x200x30
A-16	14.60	25	97.5	147	221	8.0	8	115	25	200x200x30
A-17	14.28	25	97.5	147	221	8.0	8	115	25	200x200x30
A-18	13.96	25	97.5	147	221	8.0	8	115	25	200x200x30
A-19	13.63	25	97.5	147	221	8.0	8	115	25	200x200x30
A-20	13.28	25	97.5	147	221	8.0	8	115	25	200x200x30

GROUND ANCHORAGE TESTING

GROUND ANCHORAGES INSTALLED AND TESTED IN ACCORDANCE WITH BS EN 1537 & BS 8081
10% OF ANCHORAGES TO BE SUITABILITY TESTED IN FIVE CYCLES UP TO 100% PROOF LOAD (150% WORKING LOAD) (TABLE 1).
ALL REMAINING ANCHORAGES TO BE SUITABILITY TESTED IN THREE CYCLES UP TO 100% PROOF LOAD (150% WORKING LOAD) (TABLE 2)

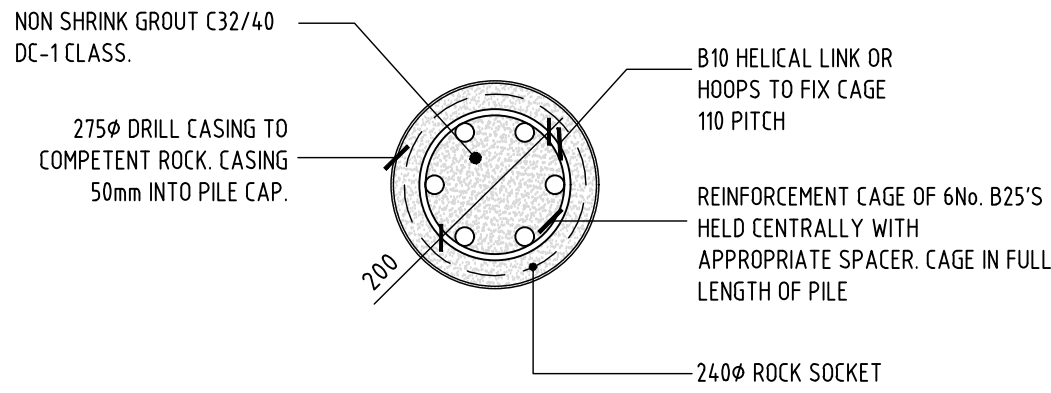
Load increment (% Proof load)					Minimum period of Observation (mins)
Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	
10	10	10	10	10	1
20	20	30	30	30	1
50	50	70	70	70	1
70	70	100	100	100	15
50	50	70	70	70	1
20	20	30	30	30	1
10	10	10	10	10	1

TABLE 1 - FIVE CYCLE SUITABILITY TESTING

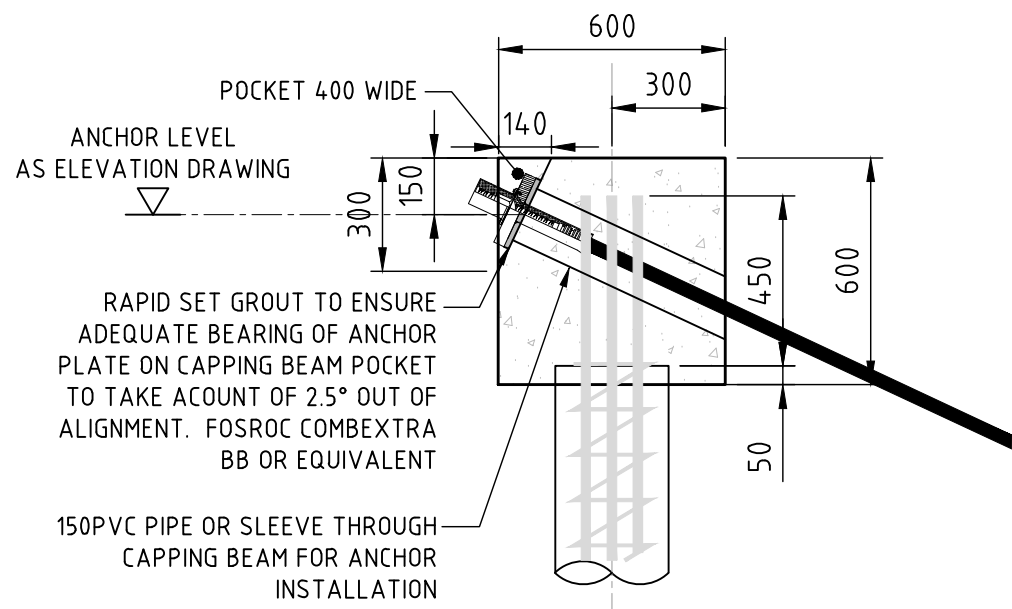
Load increment (% proof load)			Minimum period of Observation (mins)
Cycle 1	Cycle 2	Cycle 3	
10	10	10	1
30	30	30	1
70	70	70	1
100	100	100	15
70	70	70	1
30	30	30	1
10	10	10	1

TABLE 2 - THREE CYCLE SUITABILITY TESTING

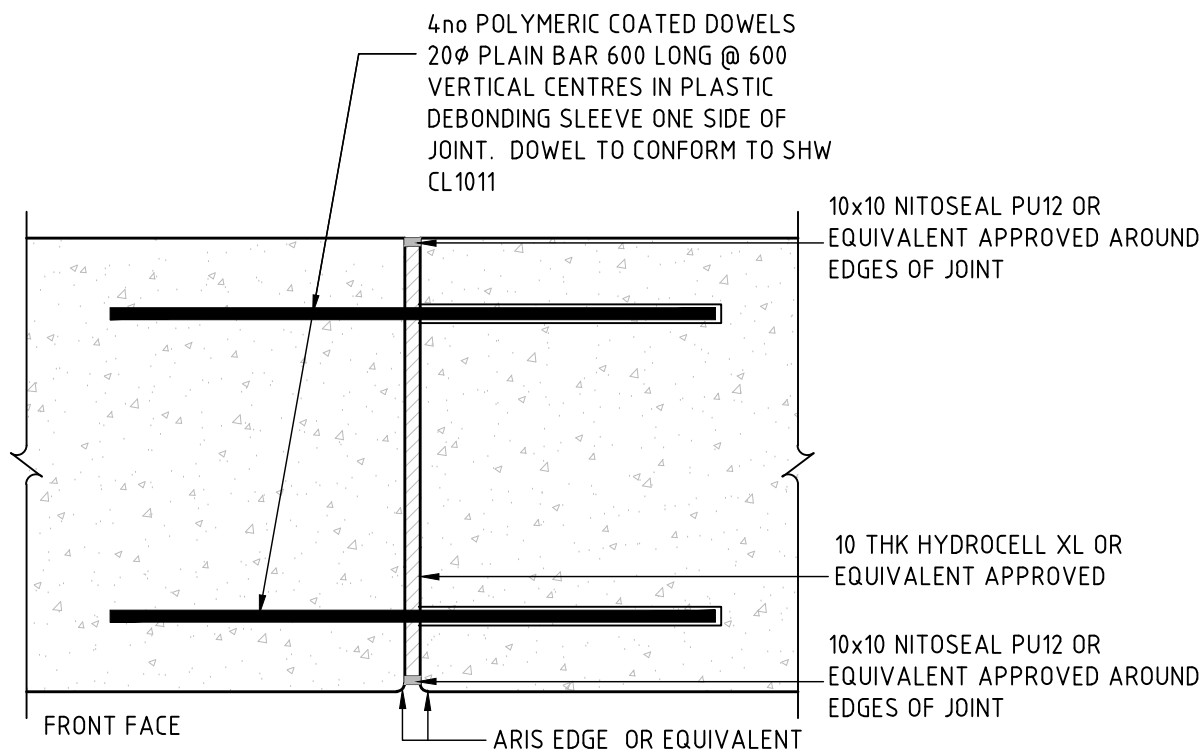
					Notes:					Client				Project				<div><div>JGP</div><div>JOHN GRIMES PARTNERSHIP</div></div> <div>Leonards Road, Ivybridge, Devon, PL21 0RU</div> <div>Tel: +44 (0)1752 690533</div> <div>post@johngrimes.co.uk www.johngrimes.co.uk</div> <table><tr><td>Project No.</td><td>Drawing No.</td><td>Rev.</td></tr><tr><td>14682</td><td>202</td><td>T1</td></tr></table>				Project No.	Drawing No.	Rev.	14682	202	T1
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14682	202	T1																									
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					2. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM.					TENDER				Title													
					3. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.					NOT TO BE USED FOR CONSTRUCTION																	
					HEALTH AND SAFETY					© Copyright reserved		First Issue Signatures		PILE WALL ELEVATION AND ANCHOR SCHEDULE													
T1	TENDER ISSUE			11JUN20	SKT	MB						Scales	AS SHOWN									Author	C. EASTERBROOK				
P1	PRELIMINARY ISSUE			28SEP18	CE	MB	1. SEE DRAWING 201 – PILED WALL GA AND TYPICAL SECTION					Original Size	A1									Checker	M. BURROWS				
Issue	Description			Date	Drwn	Chkd																					



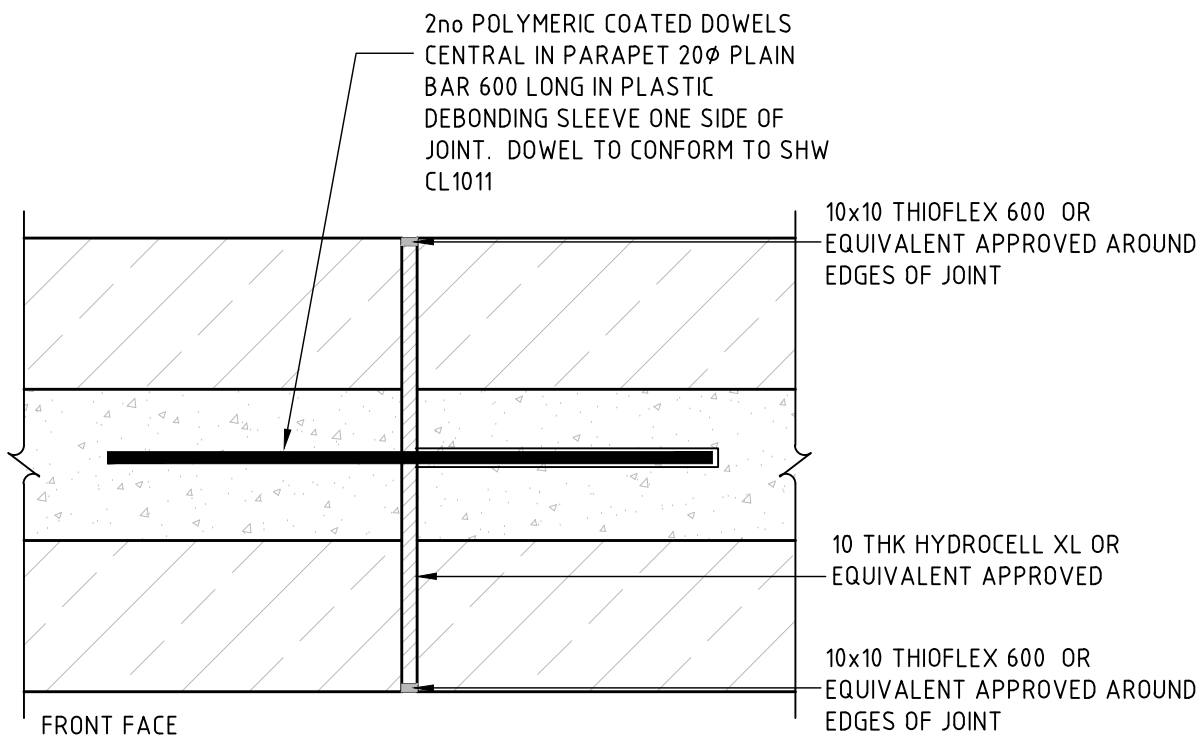
TYPICAL PILE SECTION
SCALE 1:10



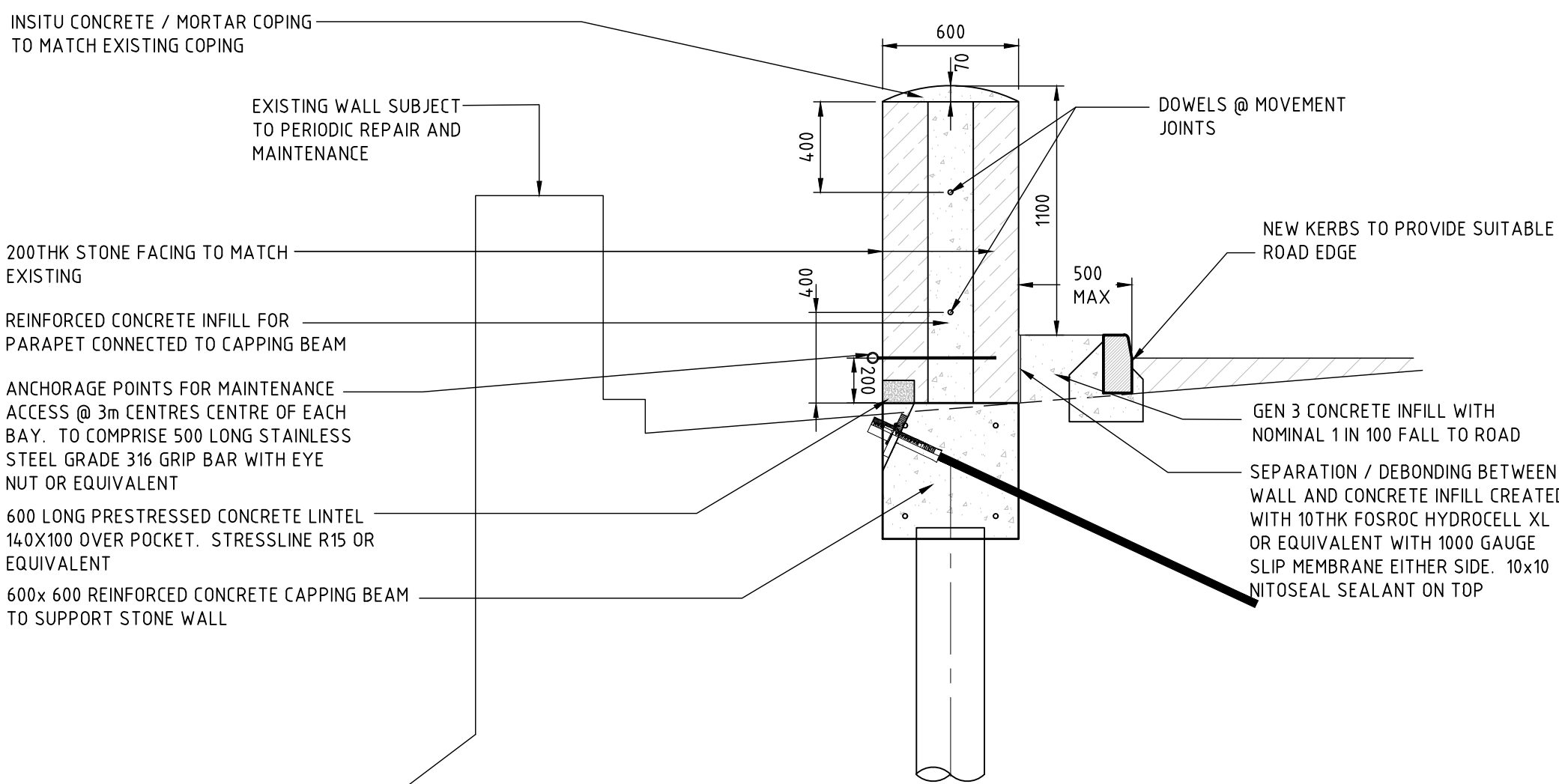
CAPPING BEAM SECTION
WITH ANCHOR
1: 20



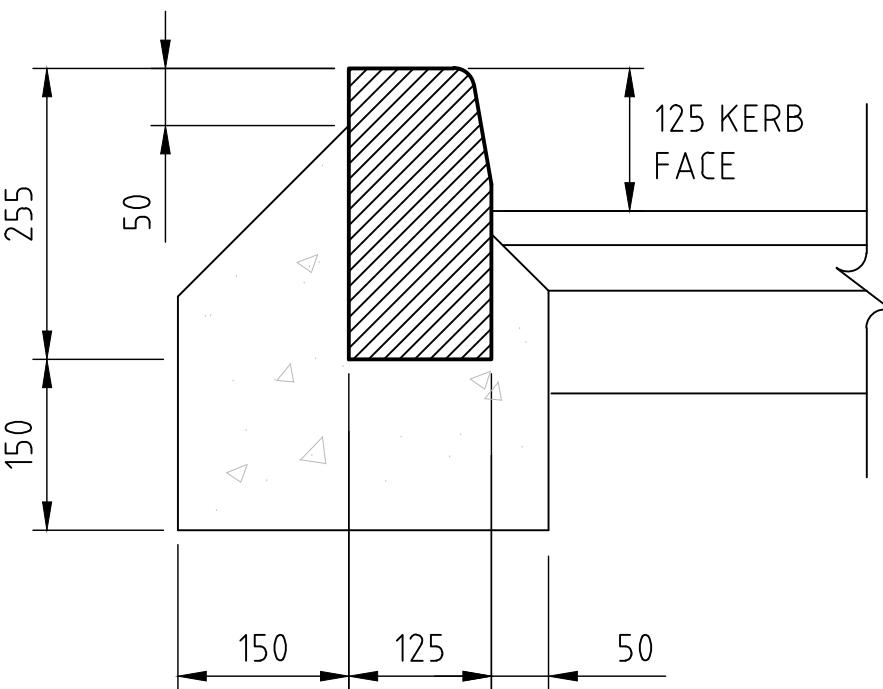
CAPPING BEAM MOVEMENT JOINT PLAN - 3m CENTRES
NTS



PARAPET MOVEMENT JOINT PLAN - 3m CENTRES
NTS



TYPICAL DETAIL SECTION
1: 25



KERB TYPE HB2

125X255 HALF BATTERED KERB TO BS 7263
GEN 3 CONCRETE BED AND HAUNCH

REINFORCED CONCRETE

- CAPPING BEAM - CONCRETE SHALL BE MINIMUM STRENGTH GRADE C32/40 WITH A MINIMUM CEMENT OR COMBINATION CONTENT TO SUIT CEMENT OR COMBINATION TYPES AND WATER / CEMENT RATIO TO MEET XD3+XC3/XC4+XF1+AC1 CHEMICAL CLASS WITH NOMINAL 65mm COVER (55 MIN), 100 YEAR DESIGN LIFE AND 20mm AGGREGATE.
ANTICIPATED MINIMUM MIX
 - 360kg/m³ CEMII-B-V
 - MAXIMUM WATER/CEMENT RATIO OF 0.45.
- ALL CONCRETE TO BE IN ACCORDANCE WITH BS 8500. CEMENTS SHALL BE TO BS EN 197-1 AND AGGREGATES TO BS EN 12620. FULL CONCRETE MIX DETAILS TO BE PROVIDED TO THE CONTRACT ADMINISTRATOR FOR APPROVAL BEFORE PLACING ORDERS.
- A MINIMUM OF 3 No. CONCRETE TEST CUBES (150x150x150) SHALL BE TAKEN PER 15m³ POURED AND TESTED IN ACCORDANCE WITH BS EN 12390.
- CONCRETE SHALL BE FULLY COMPACTED BY MEANS OF POKER VIBRATORS. CONCRETE WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CLAUSES OF BS EN 13670.
- REINFORCEMENT SHALL COMPLY WITH BS 4449 AND BE SECURELY FIXED BY CONCRETE SPACER BLOCKS AND TYING WIRE TO THE CORRECT POSITION. REINFORCEMENT WORKMANSHIP TO BE IN ACCORDANCE WITH BS EN 13670.
- AS AND WHERE APPLICABLE, INSITU CONCRETE TO BE CAST ON A REGULATED FORMATION AND VERTICAL FACES CAST AGAINST FAIR-FACE SHUTTERING. CAPPING BEAM REINFORCEMENT TO ENSURE SPECIFIED COVERS ARE ACHIEVED.
- REINFORCEMENT WILL BE LISTED ON BAR BENDING SCHEDULES. MAIN LONGITUDINAL BARS TO BE SET OUT TO SUCH THAT LAPS ARE EQUAL BUT ARE (UNO) AT LEAST 40 x DIAMETER OF THE SMALLEST BAR LAPPED. THE FOLLOWING ABBREVIATIONS APPLY:-

NF NEAR FACE	ABR	ALTERNATE BARS REVERSED
FF FAR FACE	ES	EQUALLY SPACED
T TOP	FP	FULL PERIMETER
B BOTTOM	UNO	UNLESS NOTED OTHERWISE
C CENTRAL		
- CONCRETE TO HAVE STEEL TROWEL FINISH, EXPOSED EXTERNAL EDGES TO HAVE 25X25 CHAMFER

PILES

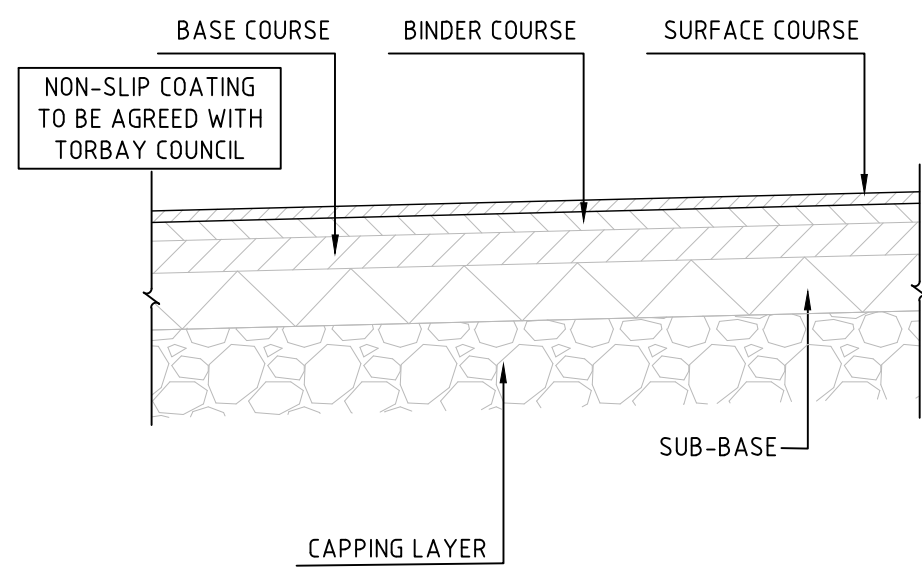
- STRENGTH CLASS ; C32/40 NON-SHRINK GROUT
- CHEMICAL CLASSIFICATION : DC-1 AC-1
- PILES INSTALLED IN ACCORDANCE WITH THE ICE SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS 3RD EDITION AND TO BE INSTALLED IN ACCORDANCE WITH BS EN 14199:2015 EXECUTION OF SPECIAL GEOTECHNICAL WORKS - MICROPILES
3.1. IT IS ASSUMED PILES ARE INSTALLED WITHIN 50mm OF SETTING OUT POSITION AND INCLINATION WILL BE WITHIN 2.5° OF THE DESIGN INCLINATION. WITH PILE SPACING A CLASH RISK IS POSSIBLE. THEREFORE ALTERNATE PILES MAY BE INSTALLED AT 2.5DEGREES OFF VERTICAL TO MITIGATE CLASH RISK
- 10% OF PILES TO HAVE GROUT TESTED TO VERIFY COMPRESSIVE STRENGTH. EACH TESTED PILE TO HAVE MINIMUM OF THREE CUBES TAKEN. AT LEAST ONE CUBE TO BE TESTED AT 28DAYS. REMAINING CUBES TESTED TO SUIT CONTRACTORS PROGRAMME.

GROUND ANCHORAGE NON-SHRINK GROUT

- STRENGTH CLASS ; C32/40
- CHEMICAL CLASSIFICATION : DC-1 AC-1
- ANCHORS CENTRALISED WITH APPROPRIATE LANTERN SPACERS
- ANCHORS INSTALLED IN ACCORDANCE WITH THE CURRENT VERSIONS OF 80081 & BS EN 1537 - EXECUTION OF SPECIAL GEOTECHNICAL WORKS: GROUND ANCHORAGES
- GROUND WATER CONDITIONS MAY NECESSITATE NON-SHRINK LOW BLEED PROPRIETARY GROUT SUCH AS pAREX sOIL NAIL GROUT OF EQUIVALENT

BEACH ROAD CONSTRUCTION.

SURFACE COURSE	40mm THICK DENSE BITUMEN MACADAM (DBM)		
BINDER COURSE	80mm THICK AC20 DENSE BIN 100/150 IN ACCORDANCE WITH SHW C1906 AND BS EN 13108-1		
BASE COURSE	100mm THICK AC32 DENSE BASE 100/150 IN ACCORDANCE WITH SHW C1906 AND BS EN 13108-1		
SUB-BASE	150 THICK GRANULAR SUB-BASE TYPE 1 SHW DTP SPEC CLAUSE 803.		
CAPPING LAYER	THICKNESS DEPENDANT ON SUB-GRADE CBR VALUE.		
CBR	THICKNESS	THICKNESSES ASSUME WATER TABLE DOES NOT RISE TO WITHIN 600mm OF FORMATION	
15%	0		
5%	250		
1%-2%	600		



Notes:

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 - DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- HEALTH AND SAFETY
a. SEE DRAWING 201

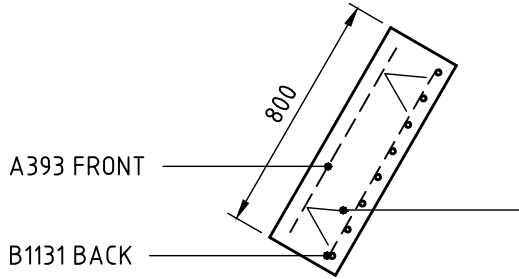
T2	TENDER ISSUE	24 JUL20	SKT	MB
T1	TENDER ISSUE	12 JUN20	SKT	MB
Issue	Description	Date	Drwn	Chkd
Status				
TENDER				
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Scales	AS SHOWN	Author	S. Turner	
Original Size	A1	Checker	M. Burrows	
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HAVANNA WEST				
Project				
BEACH ROAD STABILISATION BABBACOMBE				
Title				
TYPICAL DETAILS				
Project No.		Drawing No.		Rev.
14682		203		T2

HEALTH AND SAFETY

- a. THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 APPLY TO THIS WORK.
- b. THE CLIENT, CONTRACTORS AND DESIGNERS HAVE LEGAL DUTIES UNDER CDM 2015. REFER TO THE HEALTH AND SAFETY EXECUTIVE WEBSITE (<http://www.hse.gov.uk>) AND THE CONSTRUCTION INDUSTRY TRAINING BOARD WEBSITE (www.citb.co.uk) FOR FURTHER DETAILS.
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- e. POTENTIAL CONSTRUCTION RISKS ASSOCIATED WITH THIS SITE INCLUDE:
1. TESTING TO HIGH TENSION LOAD. ANCHOR FAILURE POSSIBLE. CRACKING OF RC PAD ANTICIPATED AT HIGH LOADS. APPROPRIATE METHODS OF WORK TO BE IN PLACE.
2. DRILLING IN MADE GROUND
- f. THE PRINCIPAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE RELEVANT RECORDS AND INFORMATION TO THE PRINCIPAL DESIGNER FOR INCLUSION IN THE HEALTH AND SAFETY FILE. THIS MAY INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION; CERTIFICATES IN RESPECT TO SUITABILITY AND SPECIFICATION COMPLIANCE OF RELEVANT MATERIALS AND/OR MANUFACTURE PROCESSES, OPERATION AND MAINTENANCE MANUALS, AS CONSTRUCTED DRAWINGS.

EXCAVATED FACE TO BE REGULATED AND PREPARED TO ENSURE COVERS ARE ACHIEVED. IF COVERS CANNOT BE ACHIEVED CONCRETE THICKNESS INCREASED TO SUIT

CONCRETE PANEL MAY BE PRECAST. IF PRECAST, LIFTING EYES SHOULD BE INCORPORATED TO SUIT CONTRACTORS LIFTING PLAN.



A393 FRONT
B1131 BACK

50 NOMINAL COVER (40min) REAR
40 NOMINAL COVER (30min) FRONT

CONTRACTOR SUPPLIED PROPRIETARY CHAIRS AT FREQUENT CENTERS TO ENSURE STRUCTURAL THICKNESS IS MAINTAINED

RC SECTION DETAIL

1 : 25

TRIAL TEST ANCHORS BETWEEN PILES 8&9 AND 32&33. TENDONS CUT BACK AFTER TESTING TO AVOID CLASH WITH CAPPING BEAM

ANCHORAGE TESTED IN ACCORDANCE WITH TABLE G1 OF BS8081:2015+A1 2017 WHERE $f_{pk}=250KN$. TENDON TO BE 32 ϕ DSI GEWI BAR OR EQUIVALENT OR EQUIVALENT. PLATE TO BE 350X350X60tk GRADE S275 STEEL.

150 ϕ PVC SLEEVE IN RC PAD TO DRILL THROUGH OR EQUIVALENT

DSI TESTING BEAM AND PLATES AS GA.250

GROUND LOCALLY EXCAVATED AFTER PILE INSTALLATION TO ENABLE TEST ANCHOR SET UP

6no TIMBER SLEEPER BEARING PADS AS DSI DRAWING GA250 OR EQUIVALENT TO SPREAD TESTING LOAD ONTO CONCRETE PAD.

2200x800x250 C32/40 RC PAD. SEE RC SECTION DETAIL. PAD TO REACH 40N/mm² CUBE STRENGTH PRIOR TO TESTING. UPGRADING OF CONCRETE AND USE OF ACCELERANT MAY BE USED TO SUIT PROGRAM TIME. CONCRETE PANEL MAY BE PRECAST. IF PRECAST, LIFTING EYES SHOULD BE INCORPORATED TO SUIT CONTRACTORS LIFTING PLAN. ALSO SUITABLE SUPPORT SHOULD BE PROVIDED DURING INSTALLATION TO ENSURE TEMPORARY STABILITY OF PANEL BEFORE TESTING.

NOTE! BS8081:2015+A1 2017 IS NO LONGER THE LATEST / CURRENT TESTING METHOD FOR GROUND ANCHORAGES. THE TESTING INDICATED IN BS8081:2015 IS CONSIDERED ACCEPTABLE TO JGP TO CONFIRM DESIGN ASSUMPTIONS HOWEVER THE LEAD ENGINEER / STAKEHOLDERS MAY REQUIRE THE TESTING CARRIED OUT TO BS EN ISO 22477-5:2018. ACCEPTANCE FROM LEAD ENGINEER SHOULD BE SOUGHT FOR USE OF BS8081:2015 TESTING PROCEDURES

8NO. (2 ROWS OF 4NO.) 1t DUMPY BAGS COMPRISING GRANULAR BALLAST WITH FREE DRAINING WELL GRADED GRANULAR FILL BETWEEN ANCHOR TEST PAD AND DUMPY BAG. 6N FILL COMPACTED IN ACCORDANCE WITH SHW. MINIMUM SHEAR STRENGTH $\phi 35^{\circ}$ @ 20KN/M³

FREE LENGTH WRAPPED IN DENSO TAPE OR EQUIVALENT. FREE LENGTH AS REQUIRED TO ENSURE BOND LENGTH IS ENTIRELY IN COMPETENT ROCK.

675

600

ASSUME 7m

2000 + DISTAL NUT

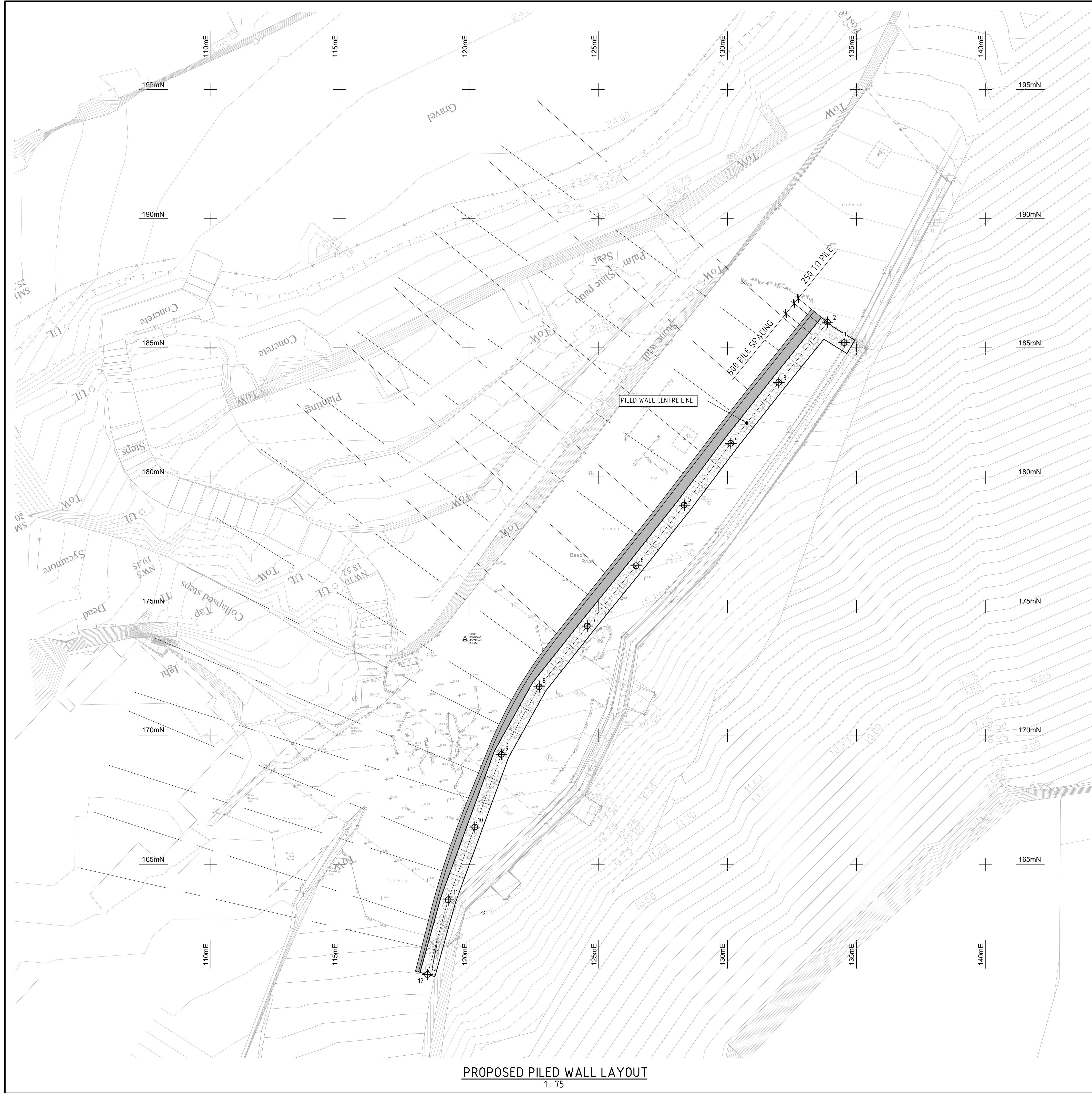
GROUND ANCHORAGE BOND LENGTH TO BE ACHIEVED IN COMPETENT ROCK (WEAK TO VERY WEAK DARK GREY MUDSTONE) BEYOND PREVIOUS SLIP PLANE. BOND LENGTH TO BE WITNESSED BY APPROPRIATELY QUALIFIED GEOTECHNICAL ENGINEER / SPECIALIST. DUE TO ROCK COMPOSITION BOND LENGTH MAY NEED TO USE SLOTTED CASING OR SIMULTANEOUS DRILL AND GROUT METHODOLOGY. TEST ANCHORAGES USED TO CONFIRM GROUND ANCHOR INSTALLATION TECHNIQUE AND BOND CAPACITY.

ANCHOR INSTALLED IN ACCORDANCE WITH BS EN 1537 AND BS8081:2018 ANCHOR GROUT TO BE C32/40 NON-SHRINK.

TEST ANCHOR SECTION

1 : 100

					<div>Notes</div> <div>1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.</div> <div>2. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM.</div> <div>3. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.</div>	<div>Client</div> <div>HAVANNA WEST LTD</div>		<div>Project</div> <div>BEACH ROAD BABBACOMBE</div>		<div>JGP</div> <div>JOHN GRIMES PARTNERSHIP</div> <div>Leonards Road, Ivybridge, Devon, PL21 0RU</div> <div>Tel: +44 (0)1752 690533 Fax: +44 (0)1752 690570</div> <div>post@johngrimes.co.uk www.johngrimes.co.uk</div> <div>Project No. 14682 — Drawing No. 204 — Rev. T1</div>	
						<div>Status</div> <div>TENDER</div> <div>NOT TO BE USED FOR CONSTRUCTION</div>					
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						<div>Scales</div> <div>AS SHOWN</div>		<div>Author</div> <div>S. Turner</div>			
						<div>Original Size</div> <div>A3</div>		<div>Checker</div> <div>M. Burrows</div>			
T1	TENDER ISSUE	23JUL20	S.K.T.	M.B.	<div>TEST ANCHOR DETAILS</div>						
Issue	Description	Date	Drwn	Chkd							



PROPOSED PILED WALL LAYOUT
1: 75

ID	Eastings (m)	Northings (m)
1	134.516	185.129
2	133.876	185.991
3	131.991	183.657
4	130.133	181.302
5	128.329	178.905
6	126.462	176.557
7	124.576	174.224
8	122.712	171.873
9	121.250	169.254
10	120.219	166.436
11	119.188	163.619
12	118.388	160.727

Co-ordinates are relative to Westcontry Land Survey Dated February 2018.
(Job Title: The Glenn, Cary Armys. TQ1 3LX)

PROPOSED PILED WALL LAYOUT
CO-ORDINATES TABLE

- NOTES:
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM.
 - DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.

HEALTH AND SAFETY
1. SEE DRAWING 201 - PILE WALL GA AND TYPICAL SECTION

T2	TENDER ISSUE	23JUN20		MB
T1	TENDER ISSUE	12JUN20	SKT	MB
P1	PRELIMINARY ISSUE	28SEP18	CE	MB
Issue	Description	Date	Drwn	Chkd

Status			
TENDER			
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Scales	AS SHOWN	Author	C. EASTERBROOK
Original Size	A1	Checker	M. BURROWS

JGP JOHN GRIMES PARTNERSHIP

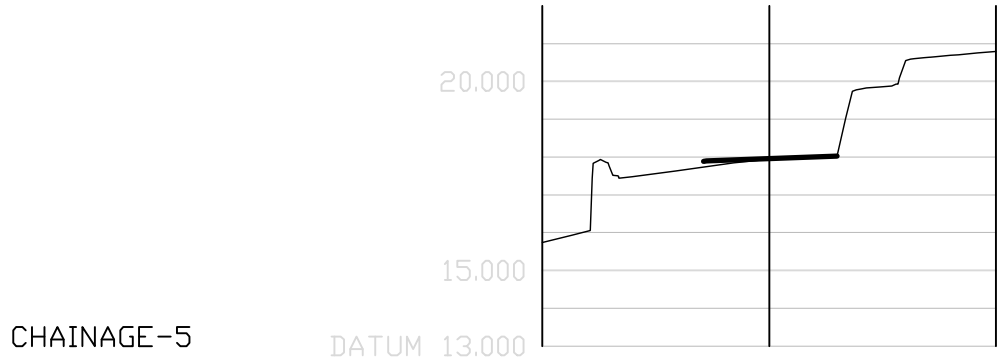
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Tel: +44 (0)1752 690533
post@johngrimes.co.uk www.johngrimes.co.uk

Client
HAVANA WEST

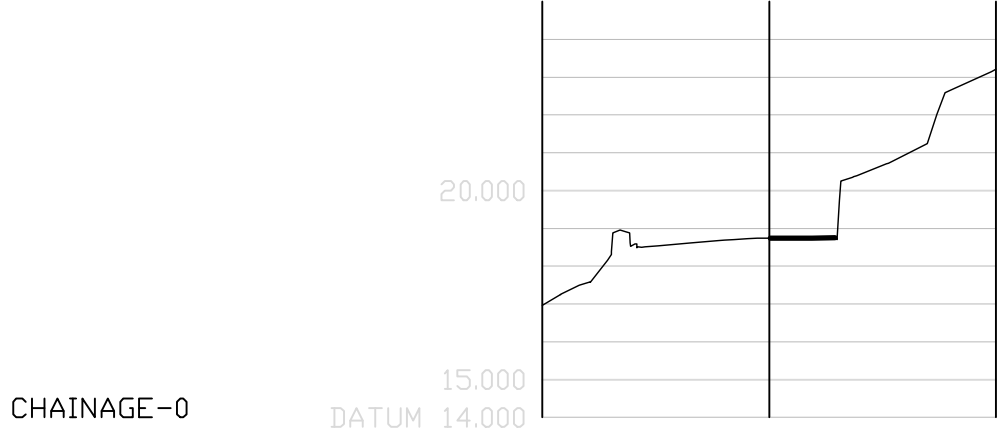
Project
BEACH ROAD, BABBACOMBE

Title
PILE WALL SETTING OUT

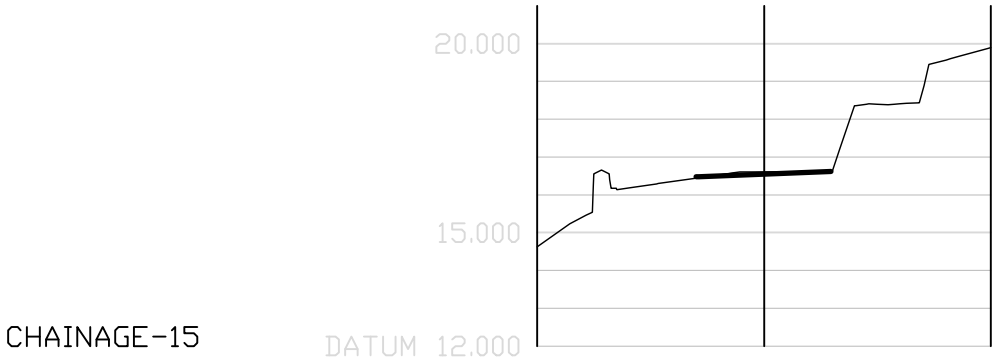
Project No.	Drawing No.	Rev.
14682	205	T2



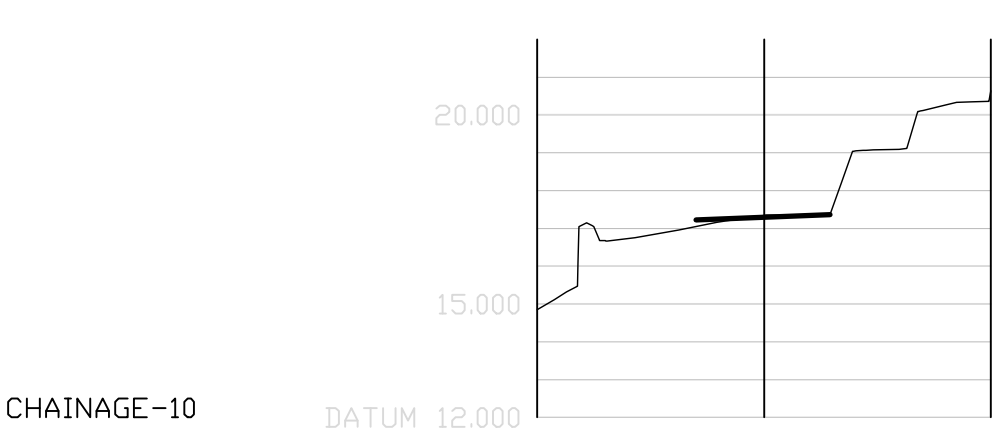
CHAINAGE -5	DATUM 13,000
OFFSET	60
EXISTING LEVEL	15,738 15,983 17,495 17,562 17,697 17,834 17,916 17,954 17,989 18,022 18,911 19,863 20,614 20,703 20,793
PROPOSED ROAD LEVEL	17,888 17,916 17,954 17,989 18,022 18,911 19,863 20,614 20,703 20,793



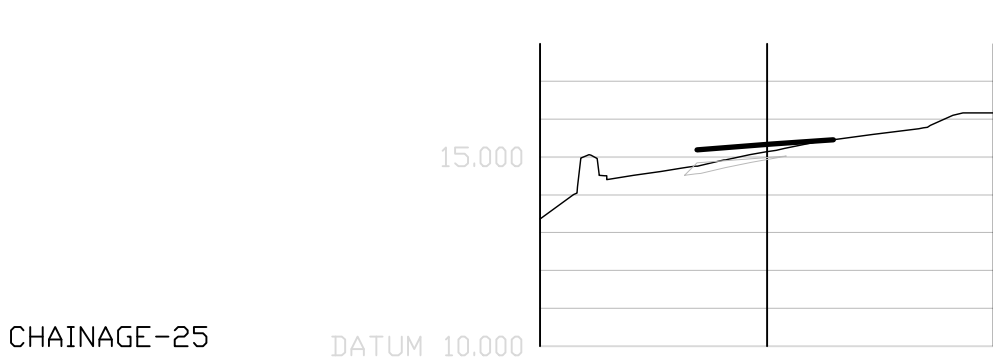
CHAINAGE -0	DATUM 14,000
OFFSET	60
EXISTING LEVEL	16,961 17,506 18,932 18,539 18,622 18,699 18,746 18,745 18,756 20,284 21,155 22,752 23,215
PROPOSED ROAD LEVEL	18,746 18,745 18,756 20,284 21,155 22,752 23,215



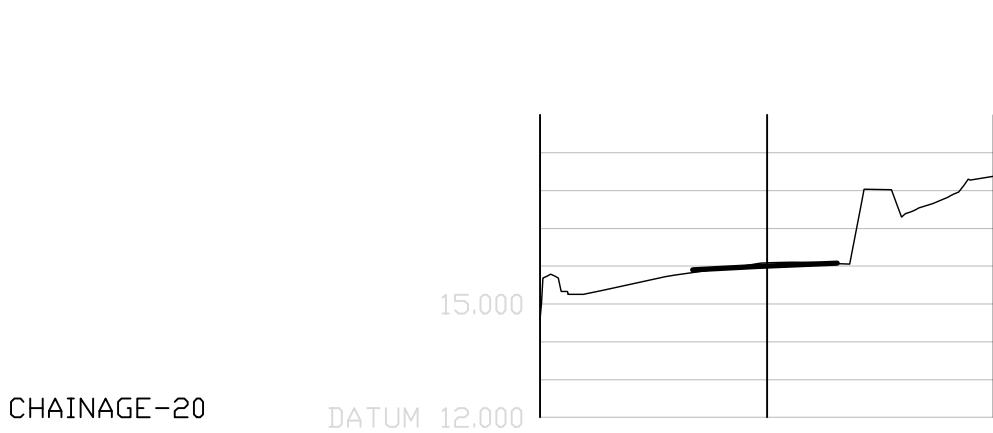
CHAINAGE -15	DATUM 12,000
OFFSET	60
EXISTING LEVEL	14,624 15,304 16,178 16,266 16,410 16,505 16,543 16,581 17,212 18,393 18,426 19,616 19,891
PROPOSED ROAD LEVEL	16,475 16,505 16,543 16,581 17,212 18,393 18,426 19,616 19,891



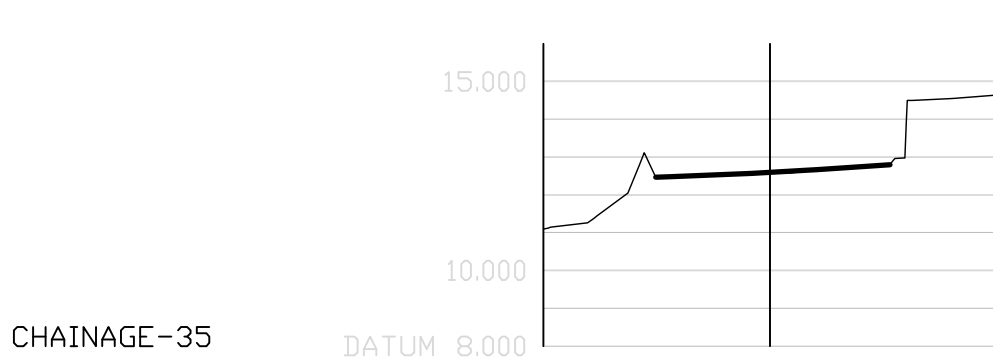
CHAINAGE -10	DATUM 12,000
OFFSET	60
EXISTING LEVEL	14,854 15,439 16,683 16,826 17,005 17,202 17,252 17,293 17,334 17,362 18,092 19,081 19,857 20,312 20,645
PROPOSED ROAD LEVEL	17,219 17,252 17,293 17,334 17,362 18,092 19,081 19,857 20,312 20,645



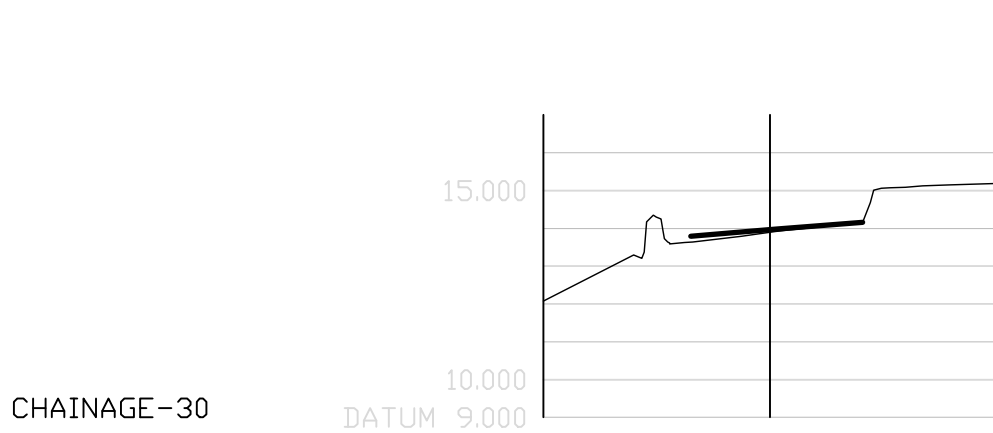
CHAINAGE -25	DATUM 10,000
OFFSET	60
EXISTING LEVEL	13,355 14,321 14,439 14,591 14,744 14,946 15,250 15,328 15,142 15,400 15,489 15,620 15,749 16,118 16,158
PROPOSED ROAD LEVEL	15,184 15,250 15,328 15,142 15,400 15,489 15,620 15,749 16,118 16,158



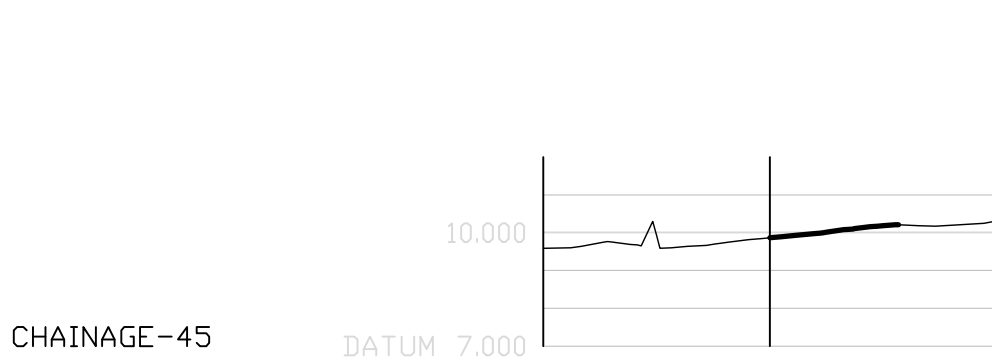
CHAINAGE -20	DATUM 12,000
OFFSET	60
EXISTING LEVEL	14,599 15,257 15,434 15,651 15,827 15,962 16,088 16,043 16,011 16,031 18,031 17,539 17,934 18,380
PROPOSED ROAD LEVEL	15,910 15,956 16,002 16,043 16,011 16,031 18,031 17,539 17,934 18,380



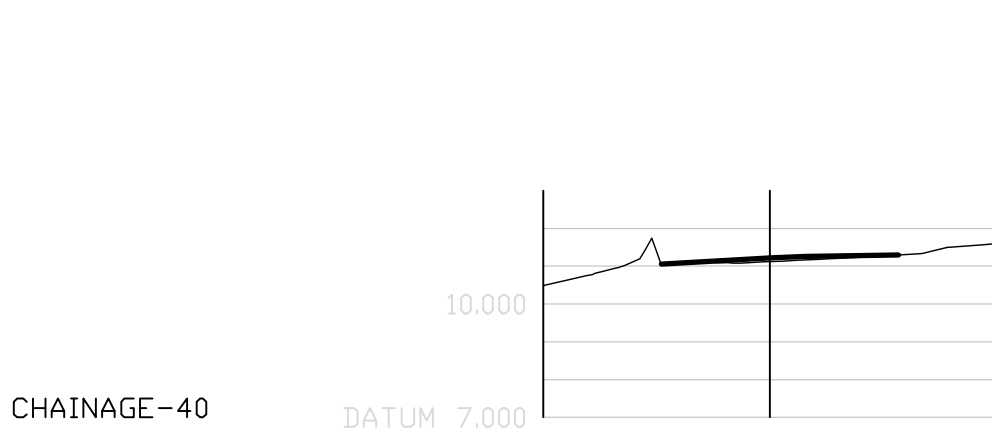
CHAINAGE -35	DATUM 8,000
OFFSET	60
EXISTING LEVEL	11,095 11,242 11,870 12,461 12,491 12,501 12,540 12,535 12,591 12,654 12,718 12,787 14,507 14,566 14,624
PROPOSED ROAD LEVEL	12,460 12,501 12,540 12,535 12,591 12,654 12,718 12,787 14,507 14,566 14,624



CHAINAGE -30	DATUM 9,000
OFFSET	60
EXISTING LEVEL	12,085 12,594 13,103 14,299 13,647 13,767 13,884 13,965 14,043 14,115 14,121 14,156 15,067 15,118 15,185
PROPOSED ROAD LEVEL	13,796 13,884 13,965 14,043 14,115 14,121 14,156 15,067 15,118 15,185



CHAINAGE -45	DATUM 7,000
OFFSET	60
EXISTING LEVEL	9,578 9,641 9,728 9,911 9,643 9,759 9,865 9,952 10,076 10,184 10,185 10,210 10,303
PROPOSED ROAD LEVEL	9,865 9,952 10,076 10,184 10,185 10,210 10,303



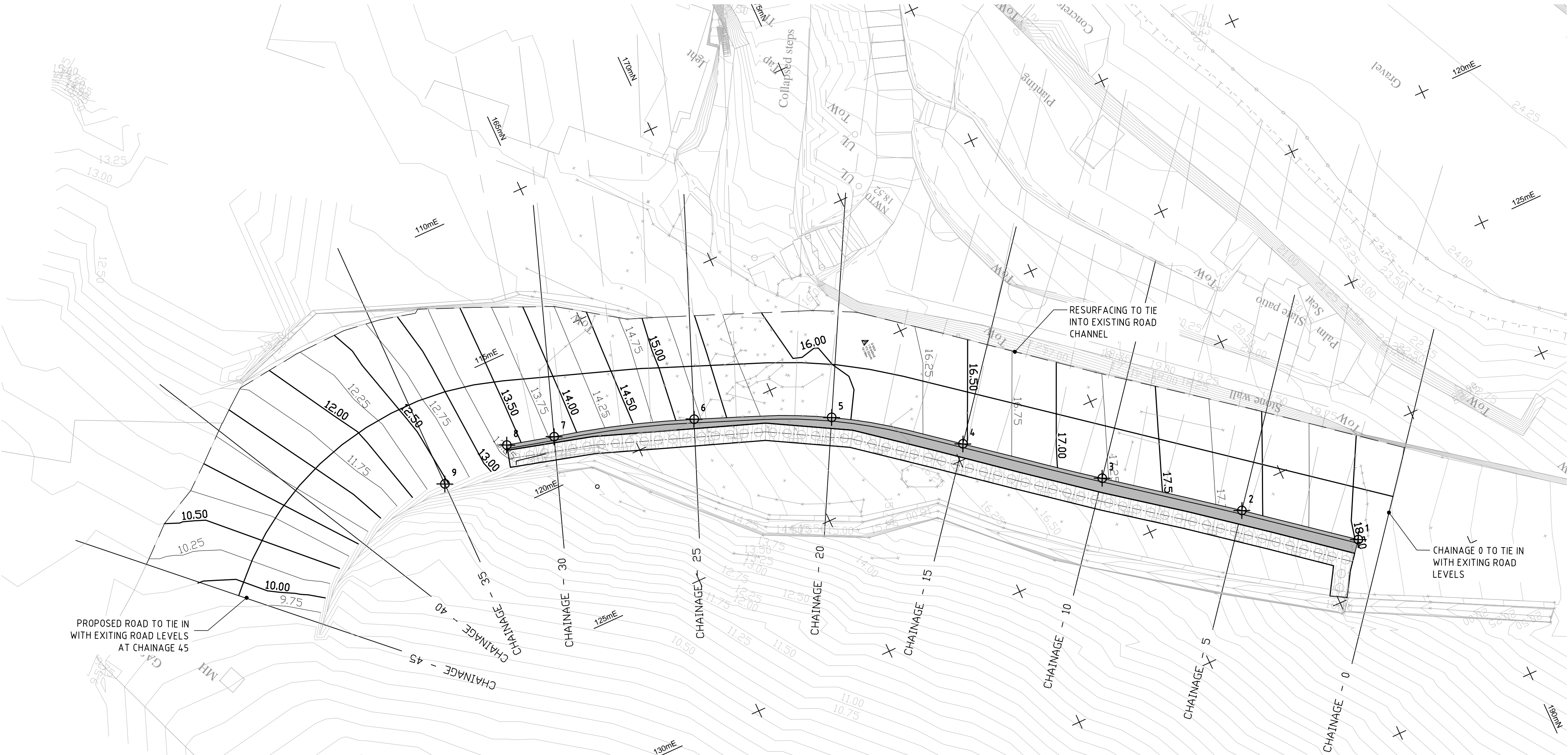
CHAINAGE -40	DATUM 7,000
OFFSET	60
EXISTING LEVEL	10,489 10,715 10,965 11,383 11,089 11,160 11,288 11,262 11,278 11,294 11,301 11,519 11,582
PROPOSED ROAD LEVEL	11,053 11,103 11,160 11,288 11,262 11,278 11,294 11,301 11,519 11,582

CROSS SECTIONS
1: 200

ID	Eastings (m)	Northings (m)	Elevation (m)
1	133,257	186,492	18.52
2	130,648	183,223	17.89
3	127,600	179,259	17.22
4	124,495	175,339	16.48
5	121,755	171,559	15.91
6	119,817	167,170	15.19
7	118,342	162,479	13.80
8	117,921	160,854	13.37
9	118,258	158,328	12.46

Co-ordinates are relative to Westcountry Land Survey
Dated February 2018,
(Job Title: The Glenn, Cary Arms, TQ1 3LX)

PROPOSED ROAD LAYOUT
CO-ORDINATES TABLE



PROPOSED ROAD LAYOUT
1: 100

- NOTES:
- ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
 - CROSS SECTIONS SCALES:
 - VERTICAL EXAGGERATION = 1
 - HORIZONTAL SCALE = 1
 - CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM.
 - DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
- HEALTH AND SAFETY
- SEE DRAWING 201 - PILE WALL GA AND TYPICAL SECTION

T2	TENDER ISSUE	23JUL20	MB
T1	TENDER ISSUE	12JUN20	MB
P1	PRELIMINARY ISSUE	28SEP18	CE MB
Issue	Description	Date	Drwn Chkd

TENDER NOT TO BE USED FOR CONSTRUCTION			
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Scales	AS SHOWN	Author	C. EASTERBROOK
Original Size	A1	Checker	M. BURROWS



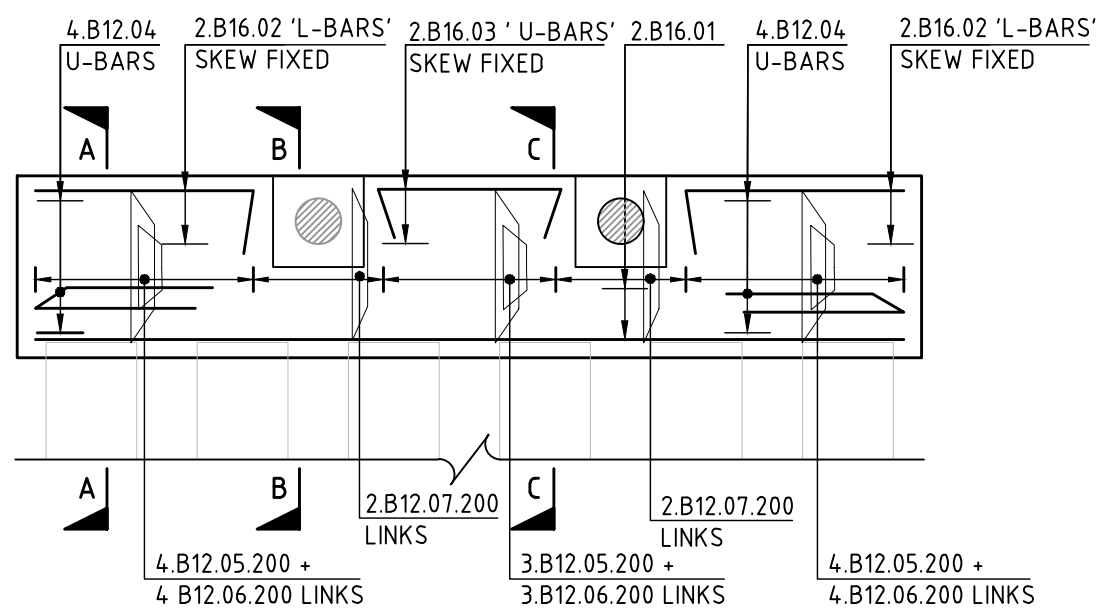
Leonards Road, Ivybridge, Devon, PL21 0RU
Tel: +44 (0)1752 690533
post@johngrimes.co.uk www.johngrimes.co.uk

Client
HAVANA WEST

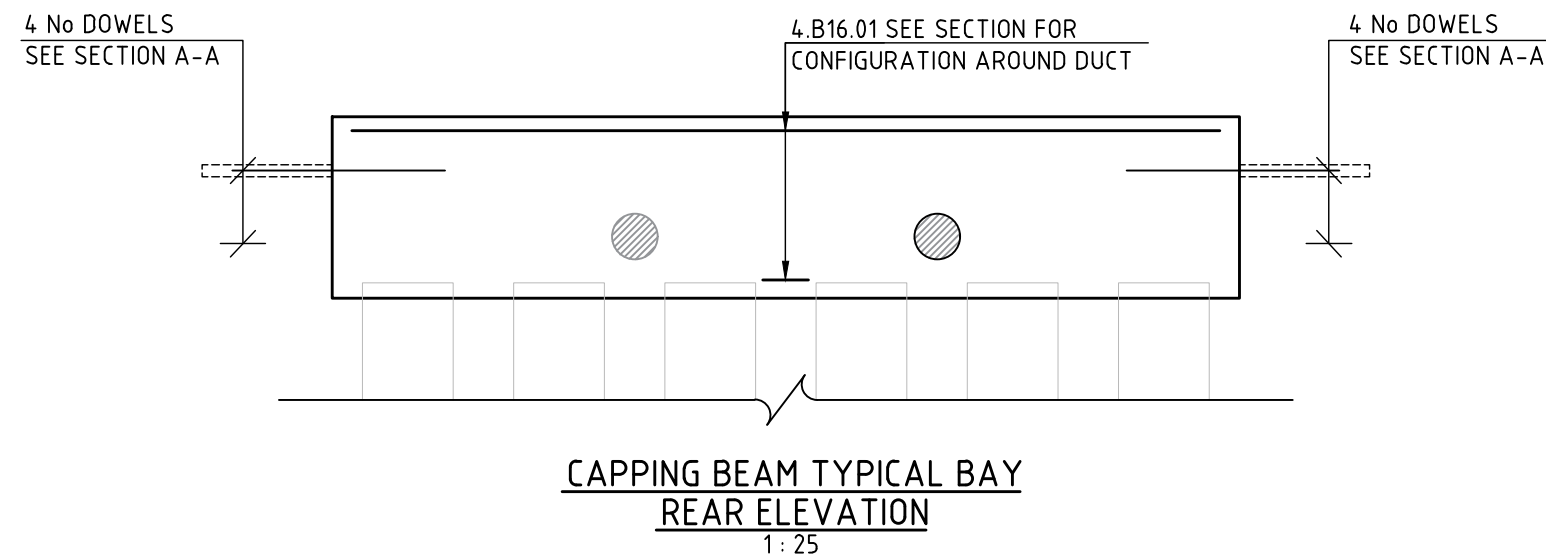
Project
BEACH ROAD, BABBACOMBE

Title
ROAD PLAN AND SECTIONS

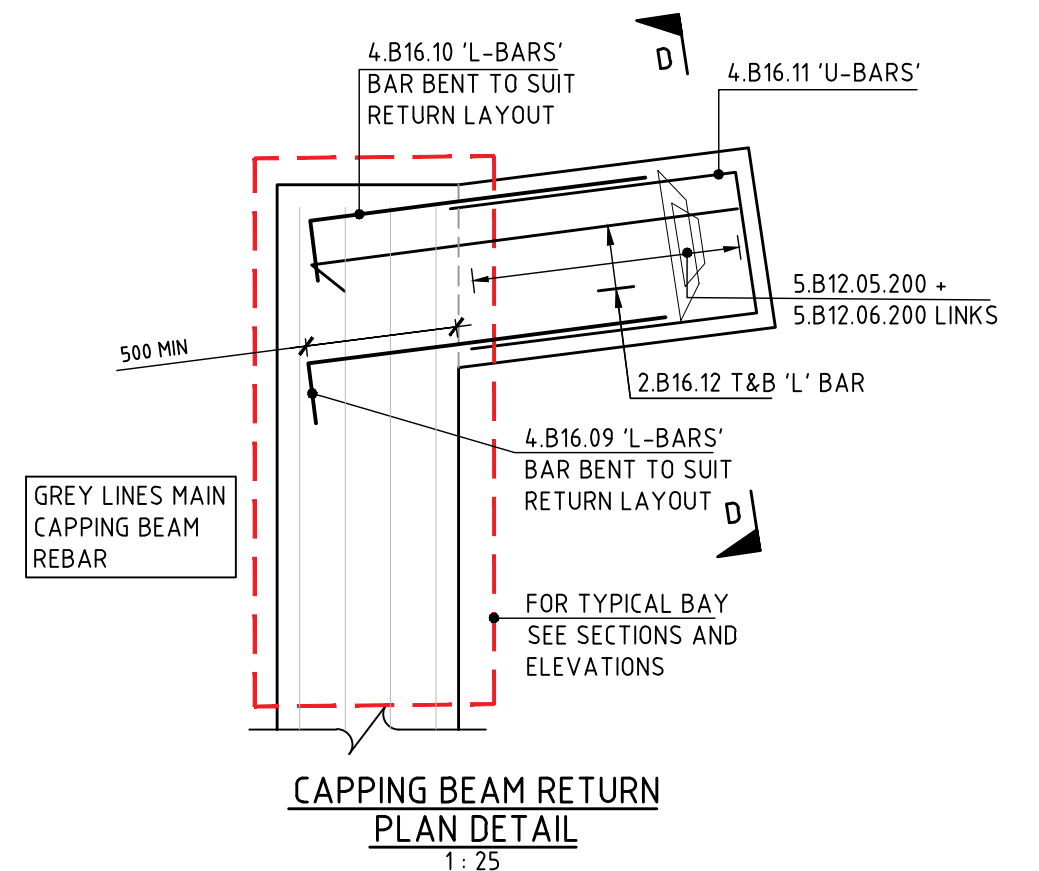
Project No.	Drawing No.	Rev.
14682	210	T2



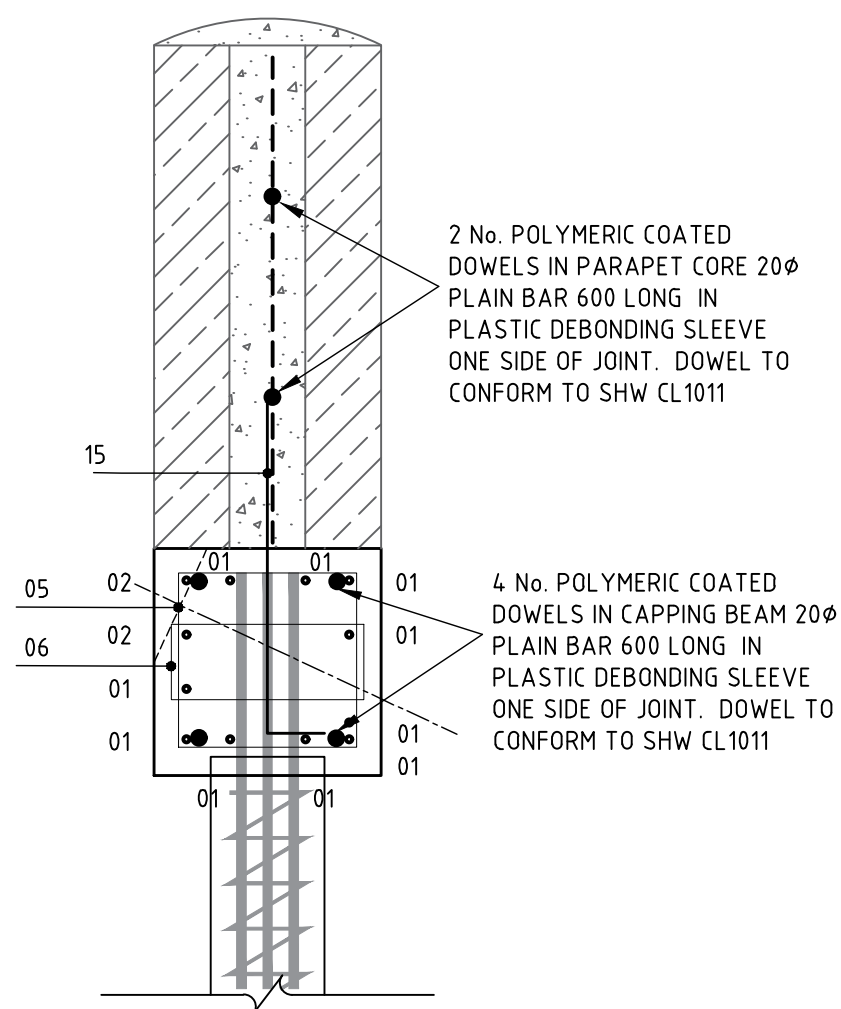
**CAPPING BEAM TYPICAL BAY
FRONT ELEVATION**
1:25



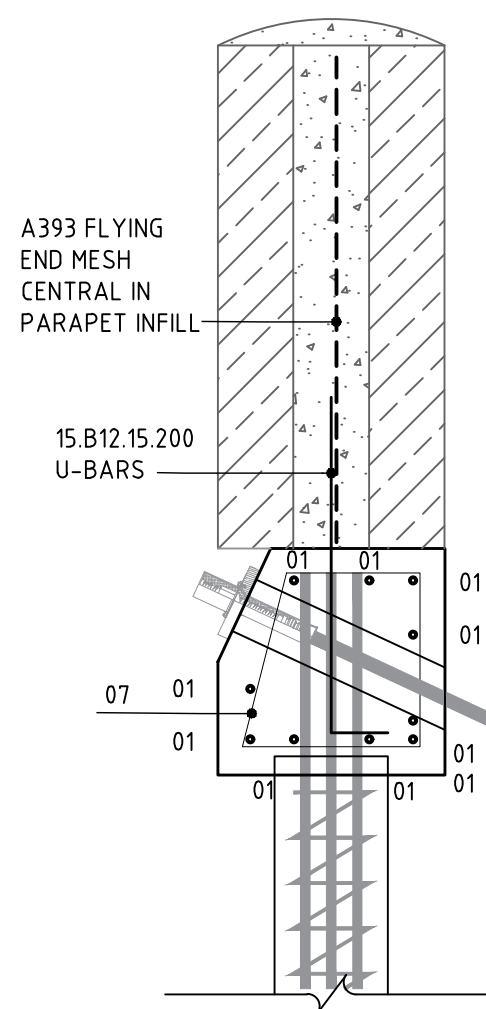
**CAPPING BEAM TYPICAL BAY
REAR ELEVATION**
1:25



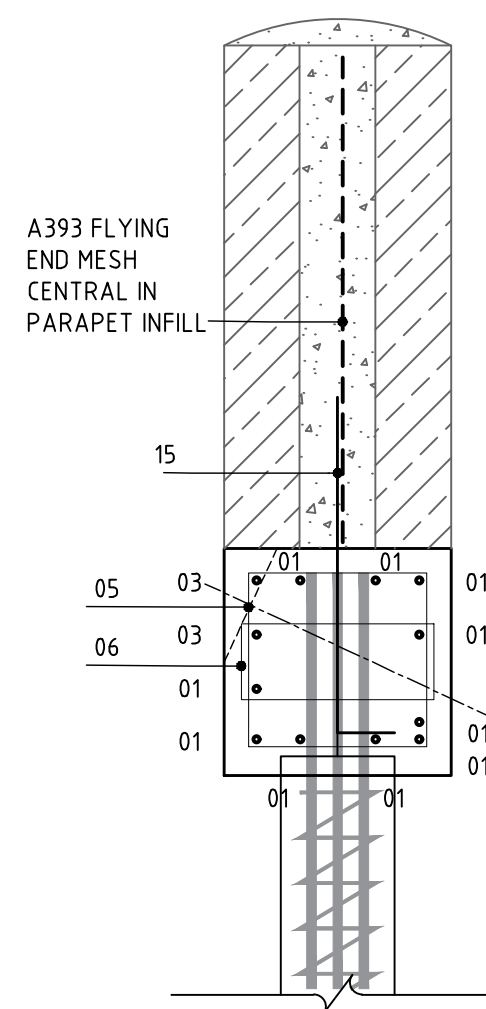
**CAPPING BEAM RETURN
PLAN DETAIL**
1:25



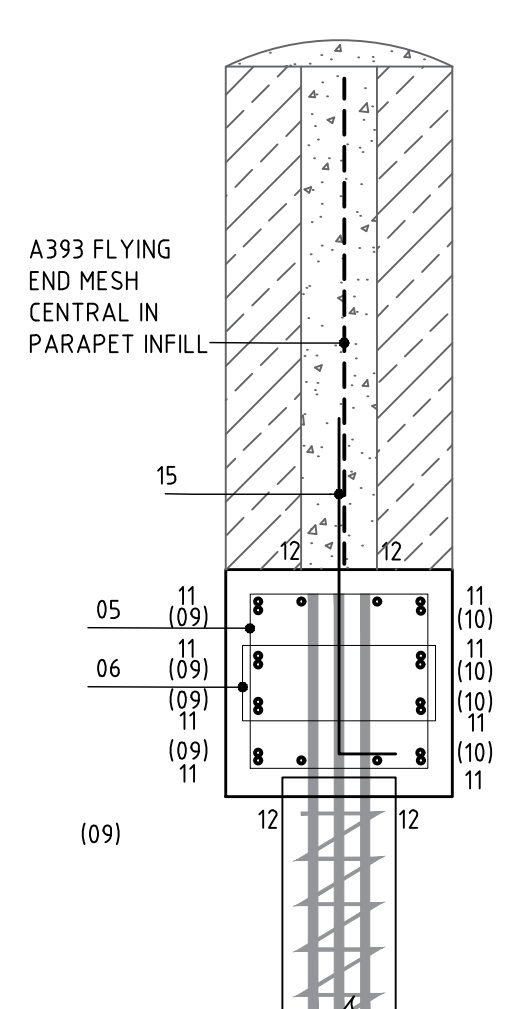
SECTION A-A
1:20



SECTION B-B
1:20



SECTION C-C
1:20



SECTION D-D
1:20

- Notes:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
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T1	TENDER ISSUE	15.06.20	AC	MB
Issue	Description	Date	Drwn	Chkd

100mm on Original

Client	HAVANA WEST LTD
Status	TENDER ISSUE NOT TO BE USED FOR CONSTRUCTION
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Scales	AS SHOWN
Original Size	A2
Author	A.CARTER
Checker	M.BURROWS

Project	BEACH ROAD BABBACOMBE TORQUAY
Title	CAPPING BEAM RC DETAILS

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Project No.	Drawing No.	Rev.
14682	220	T1

FILENAME: C:\Users\markb.JOHN GRIMES\John Grimes Partnership\14682 Beach Road - General\Drawings_Sketches\CURRENT\14682-220-T1 - Reinforced Concrete Details, PLOTTED BY: Mark