



NEW OPENING - ELEVATION



TO ENHANCE THE ROBUSTNESS OF THE EXISTING LOOSE FILL STONE WALL AT THE LOCATION OF THE CUTS, IT IS PROPOSED TO INJECTION INSTALL GROUT TO THE WALL LOCALLY TO THE FULL WALL HEIGHT ADJACENT TO BOTH CUTS. THIS TECHNIQUE SHOULD BE DESIGNED TO HELP LOCALLY BOND THE LOOSE RUBBLE FILL AND INCREASE INTEGRITY / REDUCE THE RISK OF MATERIAL LOSS DURING THE WORKS - SUITABLE PRODUCT TO BE SELECTED BY LOR, BUT LIKELY TO BE A CEMENTITIOUS, HIGH FLOW, NON-SHRINK GROUT – POTENTIAL PRODUCT, FOSROC CONBEXTRA TS. OR SIMILAR. DURING THE GROUTING, THE VOLUME OF GROUT USED SHOULD BE MONITORED TO GIVE AN UNDERSTANDING OF VOID %. ON SITE TESTS TO BE CARRIED OUT BY LOR TO TEST SUITABLE GROUT MIXES, PRODUCTS AND THE EFFECTIVENESS OF THIS TECHNIQUE.

REDRESSED COPING STONES

SALVAGED GRANITE BROUGHT TO FAIR FACE

 EXISTING REGENT ROAD WALL METAL PLATE TO STIFFEN HISTORIC WALL

METAL FRAME

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PERFORATED METAL GATE NOTE - PAIRS OF GATES TO LOCK TOGETHER IN CLOSED POSITION TO MINIMISE TORSION ON SLENDER GATEPOST.

BOLLARD

ASSUMED TOP OF FOUNDATION (TOF) LEVEL (TBC BASED ON SITE SPECIFIC GROUND INVESTIGATION) FINISHES OVER FOUNDATION TO LANDSCAPE ARCHITECTS DETAILS.

REINFORCED CONCRETE STRIP FOOTING TO FULL WIDTH OF OPENING. DETAILS AND SIZE TBC BASED ON SITE SPECIFIC GROUND INVESTIGATION. INDICATIVE SIZE 2M WIDE. NEW BASE TO BE FOUNDED ON EXISTING FOUNDATION, FOLLOWING REMOVAL OF SANDSTONE OR CONCRETE SLAB LOCALLY. TO BE REVIEWED ON SITE ONCE EXCAVATIONS ARE FORMED.



GATEPOST BRACED FRAME - ELEVATION

INTERFACE WITH EXISTING FOOTING TBC FOLLOWING EXCAVATION. IT IS - PROPOSED TO LINK THE BASES WITH DOWELS TO PREVENT DIFFERENTIAL SETTLEMENT.

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STONE LINTEL - ENLARGED SECTION

	Project Number: 0045753
DETAILS	Sketch Number: BMD01-BHE-ZZ-ZZ-SK-S-284

VERTICALLY SLOTTED BOLTED HEAD CONNECTION AT LATERAL LOAD, BUT ACCOMODATE 10MM VERTICAL

BRACED FRAME WITHIN SLENDER GATEPOST TO LIMIT

EXCAVATIONS ARE FORMED.

200x100x8 TOP RAIL (LATERAL RESTRAINT ONLY). STONEWORK MAY BE PACKED OFF THE TOP OF THE SECTION IF REQUIRED DUE TO THE SIZE AND ARRANGEMENT OF INDIVIDUAL

FRAME CRAMP WALL TIES - REFER TO - NOTES FOR DETAILS. TO BE AGREED WITH STONEWORK SUB-CONTRACTOR.

200x200x8 SHS BOTTOM RAIL TO

WITH ANGLES TO SUPPORT REPLACED STONEWORK. ANGLE SIZE TBC ONCE WALL THICKNESS AT THIS LEVEL IS CONFIRMED BY SURVEY. ALLOW FOR

100mm VOID FOR LIGHTING FITTINGS

SECONDARY FRAME AROUND GATE

GENERAL NOTES

- ALL DETAILS PROVIDED FOR THE REGENTS ROAD WALL OPENINGS ARE BASED ON THE AVAILABLE GROUND INVESTIGATION AND GEOMETRIC SURVEY AVAILABLE AT THE TIME OF ISSUE.

- DETAILS ARE SUBJECT TO CHANGE ONCE THE FULL GEOMETRIC SURVEY CONFIRMING WALL THICKNESS AT EACH LEVEL AND 3D MODEL ARE AVAILABLE. - ALL DETAILS TO BE REVIEWED AND COMMENTED ON BY LOR, PATTERN AND THE STONEWORK SUB-CONTRACTOR, PARTICULARLY WITH REGARD TO BUILDABILITY. - THE DETAILS PROVIDED ON THIS SKETCH ARE BASED ON PAT DRAWING

BMD01-PAT-ZZ-EX-DR-A-904100. - 3 NO. OPENINGS THROUGH THE WALL ARE TO BE PROVIDED, WITH SIMILAR STRUCTURAL DETAILS.

- REFER TO PATTERN DRAWING FOR GEOMETRIC DETAILS, INCLUDING WALL HEIGHT, OPENING SIZE AND BOLLARD SIZES.

STEELWORK

- REFERENCE SHOULD BE MADE TO THE BH STEELWORK SPECIFICATION FOR ALL DETAILS AND RELEVANT NOTES. - ALL STEELWORK TO BE CORROSION PROTECTED (GALVANISED PREFERRED) TO ACHIEVE A 100 YEAR DESIGN LIFE IN AN EXTERNAL CONDITION, APPROPRIATE TO THE COASTAL ENVIRONMENT. DESIGN LIFE TO BE CONFIRMED BY LOR. - U.N.O. STEEL FRAME TO BE FULLY WELDED FRAME TO ACHIEVE MOMENT CONTINUITY AT CONNECTIONS.

- SPLICE LOCATIONS FOR TRANSPORTATION AND INSTALLATION TO BE AGREED WITH STEEL FABRICATOR. - STEELWORK BELOW GROUND TO BE ENCASED IN CONCRETE.

NEW STONEWORK

- NEW STONEWORK LINTEL AND END PIERS TO BE RE-BUILT AROUND NEW STEEL FRAME USING STONE RECLAIMED FROM THE EXISTING WALL. REFER TO ARCHITECTS DRAWINGS FOR DETAILS.

- NEW STONEWORK TO BE VERTICALLY SUPPORTED FROM BOTTOM RAIL OVER OPENINGS, AND LATERALLY RESTRAINED ONLY TO THE TOP RAIL. TO BE REVIEWED BY STONEWORK SUB-CONTRACTOR.

- NEW STONEWORK TO BE CIRCA 100mm THK. TO BE REVIEWED BY STONEWORK SUB-CONTRACTOR BASED ON 3D SURVEY AND WALL WIDTH ONCE AVAILABLE. - NEW STONEWORK TO BE JOINTED WITH AN APPROPRIATE MORTAR MIX TO APPEARANCE MATCH THE EXISTING WALL, WHILST BEING SYMPATHETIC TO THE HERITAGE. INITIAL SUGGESTED MIX NHL5 LIME MORTAR MIXED 1:3 WITH MERSEY GRIT

- NEW STONEWORK TO BE TIED TO SUPPORTING STEEL FRAMEWORK WITH FRAME CRAMP TIES AT 225mm SPACING TO ALL VERTICAL AND HORIZONTAL EDGES. FRAME CRAMP TIES TO BE PROVIDED AT MAXIMUM VERTICAL AND HORIZONTAL 450mm SPACING ELSEWHERE. ALL TIES TO HAVE APPROPRIATE EMBEDMENT, DEPENDANT ON STONE THICKNESS. WALL TIE PRODUCTS TO BE SELECTED AND SPECIFIED BY THE STONEWORK SUB-CONTRACTOR. - ALL FIXINGS, TIES, ETC. TO BE STAINLESS STEEL UNO.

NEW FOUNDATION

A NEW STRIP FOOTING TO SUPPORT THE NEW STEELWORK IS SHOWN ON THIS SKETCH INDICATIVELY. DETAILS TO BE DEVELOPED FOLLOWING A FULL REVIEW OF THE SITE SPECIFIC GROUND INVESTIGATION, BASED ON TRIAL PIT EXCAVATIONS ON BOTH SIDES OF THE WALL. THE FOLLOWING SHOULD BE NOTED: 1) NEW FOUNDATION TO FOUND ON TOP OF EXISTING SANDSTONE. 2) FOUNDATION TO BE DOWELLED IN TO EXISTING ADJACENT FOOTING TO PREVENT DIFFERENTIAL SETTLEMENT AT THE INTERFACE BETWEEN OLD AND NEW. 3) TOP OF FOUNDATION LEVEL TBC VS EXISTING FOUNDATION FOLLOWING FURTHER TRIAL PITS.

TEMPORARY WORKS & CONSTRUCTION SEQUENCE

- REFER TO LOR INFORMATION FOR DETAILED CONSIDERATION OF TEMPORARY WORKS AND PROPOSED CONSTRUCTION SEQUENCE. THE FOLLOWING KEY STRUCTURAL POINTS SHOULD BE NOTED:

1) INTRUSIVE INVESTIGATIONS ARE TO BE CARRIED OUT IN THE AREA OF THE NEW OPENINGS PRIOR TO ANY WORKS BEING CARRIED OUT TO ASSESS THE EXISTING WALL CONDITION, INVESTIGATE ANY CRACKS AND ACHIEVE A GREATER UNDERSTANDING OF THE WALL BUILD-UP AND RUBBLE FILL.

2) TO ENHANCE THE ROBUSTNESS OF THE EXISTING LOOSE FILL STONE WALL AT THE LOCATION OF THE CUTS, IT IS PROPOSED TO INJECTION INSTALL GROUT TO THE WALL LOCALLY TO THE FULL WALL HEIGHT ADJACENT TO BOTH CUTS. THIS TECHNIQUE SHOULD BE DESIGNED TO HELP LOCALLY BOND THE LOOSE RUBBLE FILL AND INCREASE INTEGRITY / REDUCE THE RISK OF MATERIAL LOSS DURING THE WORKS.

SUITABLE PRODUCT TO BE SELECTED BY LOR, BUT LIKELY TO BE A CEMENTITIOUS, HIGH FLOW, NON-SHRINK GROUT – POTENTIAL PRODUCT, FOSROC CONBEXTRA TS, OR SIMILAR.

DURING THE GROUTING, THE VOLUME OF GROUT USED SHOULD BE MONITORED TO GIVE AN UNDERSTANDING OF VOID %.

ON SITE TESTS TO BE CARRIED OUT BY LOR TO TEST SUITABLE GROUT MIXES, PRODUCTS AND THE EFFECTIVENESS OF THIS TECHNIQUE. 3) THE MAIN CONTRACTOR SHOULD INSTALL AND MONITOR APPROPRIATE

MOVEMENT (VERTICALITY) AND VIBRATION MONITORING DURING THE WORKS AROUND ALL NEW OPENINGS.

4) TEMPORARY PROPPING SHOULD BE UTILISED TO THE AREAS OF WALL TO BE RETAINED EITHER SIDE OF EACH OPENING. DETAILS TO BE DEVELOPED BY LOR. 5) WHERE VERTICAL CUTS ARE TO BE MADE, THESE SHOULD BE MADE WITH CARE TO ENSURE ANY REMAINING LOOSE FILL MATERIAL WITHIN THE EXISTING WALL IS RETAINED.

6) NEW FOUNDATION WORKS SHOULD NOT BE CARRIED OUT UNTIL ALL VERTICAL CUTS ARE MADE, AND THE EXISTING WALL IS REMOVED TO THE WIDTH OF THE OPENINGS.

	Status: FOR COMMENT		
.057	Date:	Initials:	Revision:
	03/10/2019	RK	P03