CONTRACTOR'S MOBILISATION:

The work begins with the contractor's mobilisation. Prior to any work, the Contractor should conform with the following actions:

AC1. Contractor shall provide and maintain any temporary scaffolding in order to prevent excessive stresses and hold structural elements true and in place during conservation works. These provisions shall remain in place at all stages of the works until sufficient works are completed to insure the safety, stability and integrity of the structure.Care should be taken to avoid damage to historic plasters.

AC2. The temporary scaffolding system design is the complete responsibility of the Contractor. Temporary shoring for walls and roofs shall be adequate to carry the total weight of the structural system and any temporary construction loads to be imposed on the structural system. The adequacy and safety of the scaffolding system is the sole responsibility of the Contractor.

AC3. All work shall be performed without any damage to adjacent retained work. Adequate protection of areas nearby work against dust, dirt and debris accumulation shall be the responsibility of the Contractor and shall be maintained at all times during construction. The Contractor is to arrange and carry out the works as to cause no interference or damage to the adjoining existing structures, including roads, footpaths and other access thereto and shall conform to all instructions or directions given by the Architect /Engineer on these matters.

AC4. The General Contractor shall verify all dimensions and site conditions before starting work. The owner's representative shall be notified of any discrepancy. The Contractor is to ascertain for himself the nature of the soil conditions anywhere on the site and it is to be at the risk of the Contractor,if different conditions are met with and no claim will be admitted on this account.

AC5. Sand, gravel, vegetable soil and other materials obtained from the site shall remain the property of the Employer until removed from the site in accordance with the Contract. Excavations are not to be made or enlarged for the purpose of obtaining such materials.

AC6. The general Contractor shall review and stamp all shop drawings before submittal for approval and verify their compliance with the Contract Documents.

AC7. The Contractor shall submit one reproducible set and two copies of everything to be submitted for review. Shop drawings will be checked for general conformity with the design concept and general compliance with the Contract Documents. The engineer assumes no responsibility for exactness or correctness of quantities, dimensions, details, sequencing or construction means, methods or procedures

AC8. The Contractor shall submit product data for all proprietary material and items, including forming accessories, admixtures, patching compounds and other when requested by the Architect or Structural Engineer.

AC9. The Contractor shall verify all dimensions and elevations with the architectural plans before starting work.

AC10. All material and workmanship shall conform to the latest edition of the Eurocodes and with Cyprus Annexes.

AC11. Means and methods of performing the work are the sole responsibility of the Contractor.

AC12. The Contractor shall notify the structural engineer and engineer representative of any conditions encountered in the field contradictory to those shown on the structural drawings.

Important Note:

This is the proposal sequence of work only from the designers point of view. Its only a guidance tool and the contractor should verify it according to all drawings reports, B.O.Q and specifications given and propose his own construction sequence together with his method of statement and materials list for approval as per AC7 & AC6. The designers have no responsibility for any work missing and it is the sole responsibility of the contractor to review all drawings and specifications and adapt his program of work and sequence accordingly.

CONSTRUCTION SEQUENCE OF WORK:

After the completion and approval of all the above steps, the Contractor begins with the construction phase. The construction sequence is as follows:

C.S. - 1. Installation of fencing

The contractor will build safe temporary fencing and relevant signage according to health and safety regulations , before works and during implementation of work.

C.S. - 2. Cleaning

Cleaning of the site and creating safe access to all work places.

C.S. - 3. Scaffolding

The contractor will build temporary internal scaffoldings and external if he founds it necessary to support the structure's internal walls and roofing system during the progress of the interventions. The Contractor should conform with the above mentioned actions. It is the contractor's sole responsibility to calculate the scaffolding support system and to prepare a detailed Health & Safety plan, method of works, e.t.c., and submit them for approval.

C.S. - 4. Conservation works on the external walls

Special attention should be given to the consolidation of the existing plaster, painting and/or frescoes.

- Consolidate the historical plaster and take special protection measures during and after construction works.
- Treatment of the surfaces where organic growth is present by using appropriate biocide / herbicide as per specifications.
- Remove any plants from the wall surface as per drawings and specifications.
- Repair all cracks found with proper material as per drawings and specifications.
- Check the pointing mortar and substitute pointing according to the materials analysis research as per specifications.
- Consolidate all exposed surfaces with a consolidant based material such as Kimistone KSF or equivalent for approval.
- Substitution of decayed / deteriorated and heavily damaged stone with similar in texture, size and colour in order to match existing stones according to the materials analysis research. Stone with loss of more than 65% of its total area, will be replaced.
- Stitching of cracks. Repair of the cracks will be decided according to the crack depth. More specifically:

1. if the depth is minimal / superficial crack, appropriate mortar will be used to fill the crack and / or new stone will be inserted partially.
2. if the crack depth is wider, insertion of a stainless steel rod orthogonally to the crack will be executed.
3. if the crack is wide and through then special lime base grouting injection together with stainless steel rods will be done as per specification.
4. In case of serious cracking, stainless steel rods are to be positioned at the internal face of the masonry covered with lime based mortar to ensure the total cohesion of the masonry wall.

- Wooden lintel to be sequentially replaced as per detail.
- Add new stones to missing parts according to the materials analysis research and table 1.
- Installation of a protective mesh to stop birds and other animals entering the church.
- General light cleaning of surface with smooth technique (no hard tools) from top to bottom and removal of inappropriate additions.
- General pointing of all surface areas.
- Grouting of the walls where necessary or ready made material as per specification with a suitable hydraulic lime based mortar.

C.S. - 5. Conservation works on the roof

The works on the roof are the following:

- Removal of all plants and flora with special biocides as per specifications.
- Removal of the roof top layer material.
- Stitching of cracks. Repair of the cracks will be decided according to the crack depth. More specifically:

1. If the depth is minimal / superficial crack, appropriate lime base mortar will be used to fill the crack and apply waterproof insulation layers with appropriate / compatible materials as per specifications.
2. If the crack is wide and through then special lime base grouting injection will be done as per specification and deteriorated stones will be replaced.
3. Insulation material will be added on top of the roof.

C.S. - 6. Conservation works on the internal walls

- All deteriorated/damaged internal plaster shall be removed, except historical traces/plaster and frescoes exist.
- Special attention should be given to the protection of all historical fresco and for consolidation of the existing plaster.
- Consolidate the historical plaster by an approved conservator and take special protection measures during and after construction works.
- Repairing / correction of all cracks. In the areas where the cracks are very wide (equal or more than 4mm), grouting injection method should be executed.
- Stitching of cracks. Repair of the cracks will be decided according to the crack depth. More specifically:

1. if the depth is minimal / superficial crack, appropriate hydraulic mortar will be used to fill the crack and / or new stone will be inserted partially.
2. if the crack depth is wider, insertion of a stainless steel rod orthogonally to the crack will be executed.
3. if the crack is wide and through then special lime base grouting injection will be done as per specification.
4. In case of serious cracking, stainless steel rods are to be positioned at the internal face of the masonry covered with lime based mortar to ensure the total cohesion of the masonry wall.

- Soft cleaning of the wall surface (non mechanical) and removal of inappropriate additions (cementations materials).
- Substitution of decayed / deteriorated and heavily damaged stone with similar in texture, size and colour. Stone with loss of more than 65% of its total area, it will be replaced as per specification.
- Add new stones to missing parts as per specification and according to the materials analysis research and as per Table 1.
- General pointing of all surface area should be perfored as per specification.
- New traditional hydraulic base plaster to be placed to the internal surface if necessary.

C.S. - 7. Conservation works on the internal roof (ceiling)

- New stones to missing parts will be added if is structurally necessary according to the materials analysis research and as per Table 1.
- General deep pointing in all surface of the ceiling as per specification.
- Protect and finish correctly and with special care the area around any openings or historical paintings and/or frescoes.

C.S. - 8. Removal of temporary scaffolding system

- Prior to commencing any conservation works concerning the flooring system, all temporary scaffolding structures should be dismantled and removed carefully without causing any damages on the wall and roof surfaces. Special attention should be given during the removal to the protection of all historical fresco.

C.S. - 9. Conservation works on floors

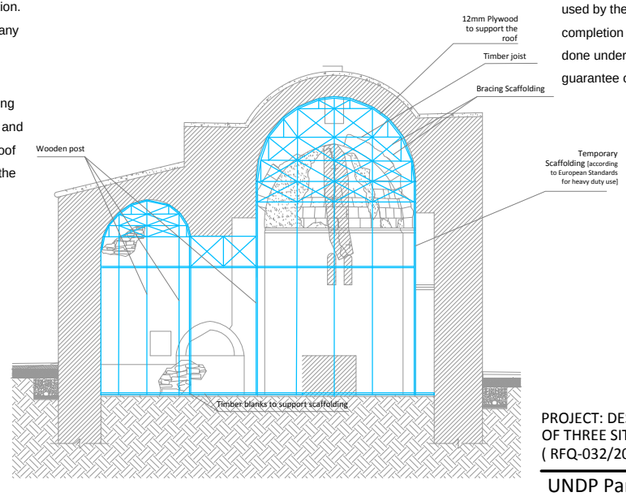
- An external pebble corridor should be made along the exterior perimeter of the church as shown in the drawings.
- Conservation/cleaning and protection of the interior floor according to the drawings and specification.

C.S. - 10. External works

- Inclination of the soil around the church in order to lead the water away from the walls.
- A new retaining wall should be constructed on the north side (towards the road), at the plot boarders of the church. The construction of the new retaining has to be made according to construction detail drawings. The height of the retaining wall is as shown in the drawings. Please note that, the relevant distance from the edge of the road has to be verified by the contractor. The contractor should apply to the responsible authorities in order to check the correct distance/setting out of the wall.
- A ground beam should be constructed at the plot perimeter of the church as it is shown at the construction detail drawings.
- A fencing system should be made as per drawings.
- A perimetrical pebble corridor should be made as shown in the construction drawings.
- The telephone poles and road sign must be safely removed and transferred elsewhere so that they do not interfere the visual contact with the church. The contractor is responsible for consulting with the relevant authorities in order to get permission to remove the poles away from the Church.
- A drainage channel will be place along the exterior perimeter of the church as per drawings and details.

C.S. - 11. Cleaning of the site and handing over

- Once the Contractor has completed all the relevant conservation works, he needs to remove from site all temporary sheds, offices, messrooms, sanitary accommodation and other temporary buildings for the use of the Contractor and Sub-Contractors. The site should be handed over to the client clean and safe.
- Construction of a fencing system on the periphery of the small plot of the church as per drawings and specifications should be performed.

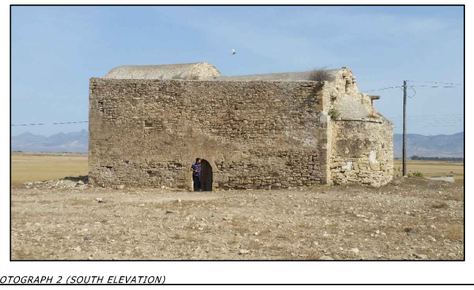


GENERAL NOTES:

1. During all works, the contractor should maintain an approved specialist conservator on site to supervise works.The name of the specialist should be provided for approval during the tender stage.
2. The contractor will provide safe temporary fencing around the Church, health and safety plan during construction, site diary for his work e.t.c.
3. The contractor will prepare and submit shop drawings for his works and supporting method and document to comply with the relevant health and safety regulations together with his proposal.
4. The contractor will also prepare and submit all materials (i.e. stone,render,grouting,pointing, injections,timber,steel sections e.t.c) for approval and method of statement for his work and will not proceed to any construction and placement until written approval by the engineer is given.
5. The contractor shall submit to the engineer for approval his scaffolding / formwork design and structural calculations according to eurocode 6 and / or other temporary works manuals.
6. The contractor will be responsible for careful removal and storage in a selected and approved safe place for all debris,stone members, wooden doors and any other material of high historical value.
7. It is the contractor sole responsibility to check all dimensions, measurements e.t.c. on site prior to commencing any work or making any materials orders.
8. Any discrepancies on drawings details, specification e.t.c. should be given in writing to the Architect and Civil Engineer for clarifications.
9. Areas of stone removal and repointing to be approved previously by the consultants.(Architect and Civil Engineer)
10. No cleaning or other work will be contacted on all areas with historical plasters without the presence of an approved conservator.
11. All work to be done according to drawings, specification and manufacturer specification materials proposed and supervision. Performance certificate of good work to be given for all materials used by the supplier and the contractor to UNDP prior to completion of works.All specialist material to be used must be done under the supplier supervision who must give a written guarantee of good work.

AGIOS ARTEMONS - PHOTOGRAPHS

PHOTOGRAPH 1 (EAST ELEVATION)



PHOTOGRAPH 2 (SOUTH ELEVATION)

PHOTOGRAPH 3(NORTH ELEVATION)

PHOTOGRAPH 4 (WEST ELEVATION)

PROJECT: DESIGNS FOR CONSERVATION INTERVENTION OF THREE SITES LOCATED IN THE NORTHEN PART OF CYPRUS (RFQ-032/2017)

UNDP Partnership for the future

P.O. Box 21642,Nicosia 1590 Cyprus
tel: 22874733, fax: 22359035

CONTRACTOR:
Joint Venture of **Platonas Stylianou and Associates Consulting Engineers** and **Chrysanthos Pissaridis, Architect.**

3 Pargas Street, 1065 Nicosia, Cyprus
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PROJECT TEAM:
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Civil Engineers: **Platonas Stylianou, Alberto Farinola, George Hadjidemetriou**
Quantity Surveyors: **Marinos Demosthenous, Angela Christoforou**
Archaeol: Evi Karyda, Conserv. Marios Leonidou, Topo: Christos Hadjiyagkou
Heritage Consult. Kyriakos Themistocleous Dron Opr: Sevket Turel

MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

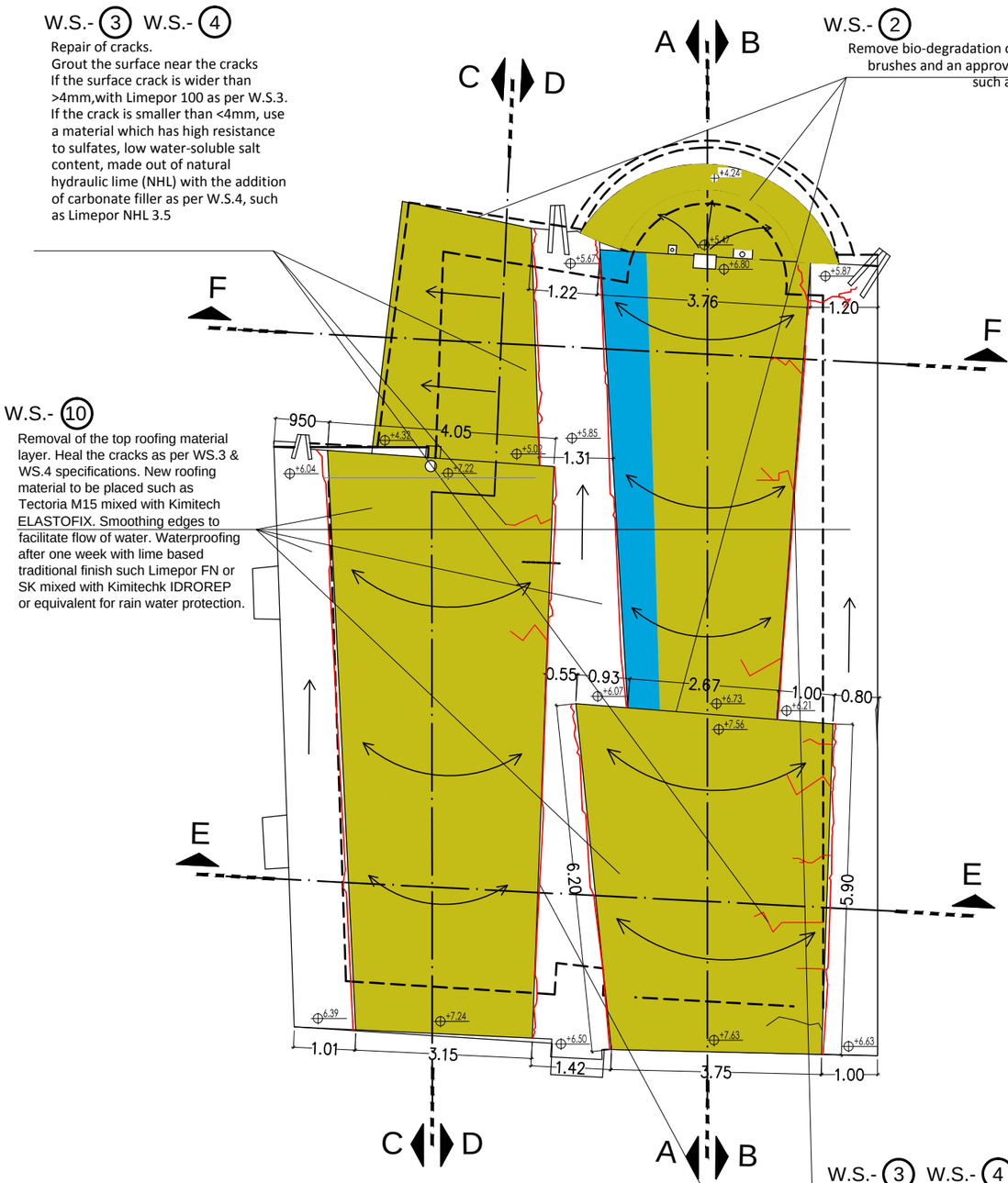
OUTPUT:	DRAWING:	
PROPOSED INTERVENTIONS	CONSTRUCTION SEQUENCE OF WORKS	
DATE: December, 2017	SCALE: N.T.S	C.W.01

W.S.- 3 W.S.- 4

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5

W.S.- 10

Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.



ROOF PLAN

The dimensions are in meters (m)

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

For more details abouts W.S. (Work Specification) please see section F.3.0. WORK SPECIFICATION

INDEX

- Deteriorated joint mortar
- Cracks
- Detachment
- Loose stones

FEATURES INDUCED BY MATERIAL LOSS
- Alveolization
- Gap of historical value

DISCOLORATION & DEPOSIT
- Salt Crust
- Soiling (deposit)

ORGANIC GROWTH
- Algae
- Mosses and Lichen
- Plant
- Black stains (molds)
- Inappropriate intervention
- Historical plaster

N

W.S.- 3 W.S.- 4

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5

PROJECT: DESIGNS FOR CONSERVATION INTERVENTION OF THREE SITES LOCATED IN THE NORTHEN PART OF CYPRUS (RFQ-032/2017)

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MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
PROPOSED INTERVENTIONS	PLANS	
DATE: December, 2017	SCALE: 1:100	P.I.01

W.S.- 10

Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

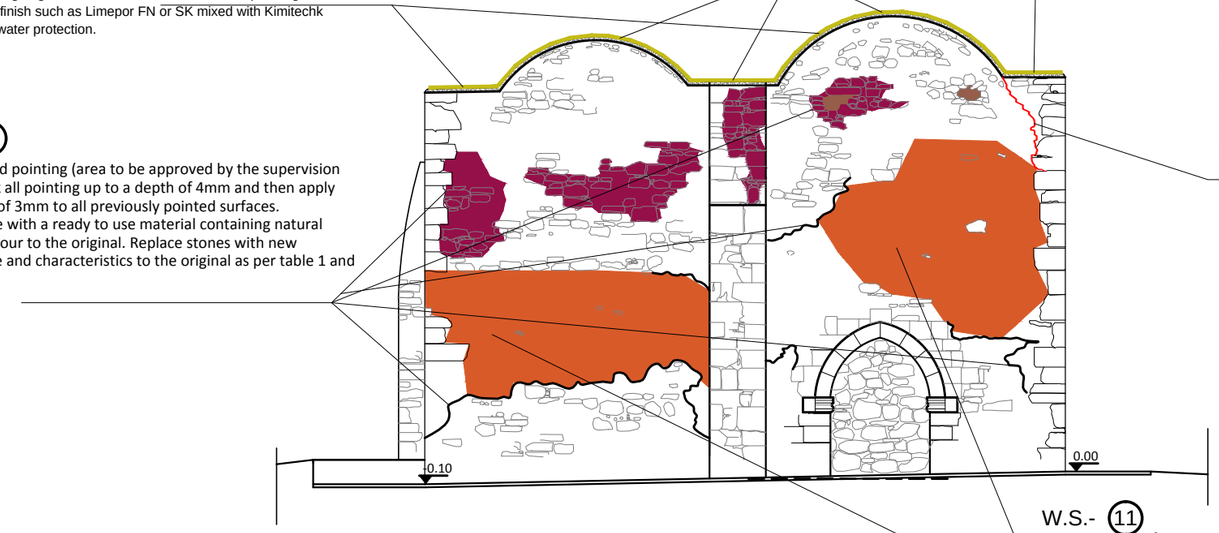
Clean water spouts from debris and plantation and make good work in order to work properly.

W.S.- 3 W.S.- 4 W.S.- 6

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5. Stailess steel rods to be place accordingly as per specifications.

W.S.- 7 W.S.- 8

Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.



WEST ELEVATION

W.S.- 11

Remove with soft element and very carefully cement addition and plaster in the joints. Restore area by using a hydraulic lime based matyerial such as Limepor NHL 3.5 or equivalent.

For more details abouts W.S. (Work Specification) please see section F.3.0. WORK SPECIFICATION

INDEX

- Deteriorated joint mortar
- Cracks
- Detachment stones or joints
- Loose stones

FEATURES INDUCED BY MATERIAL LOSS

- Alveolization
- Gap of historical value

DISCOLORATION & DEPOSIT

- Salt Crust
- Soiling (deposit)

ORGANIC GROWTH

- Algae
- Mosses and Lichen
- Plant
- Black stains (molds)
- Inappropriate intervention
- Historical plaster

W.S.- 10

Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK for rain water protection.

Clean water spouts from debris and plantation and make good work in order to work properly.

W.S.- 3 W.S.- 4

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5

W.S.- 2

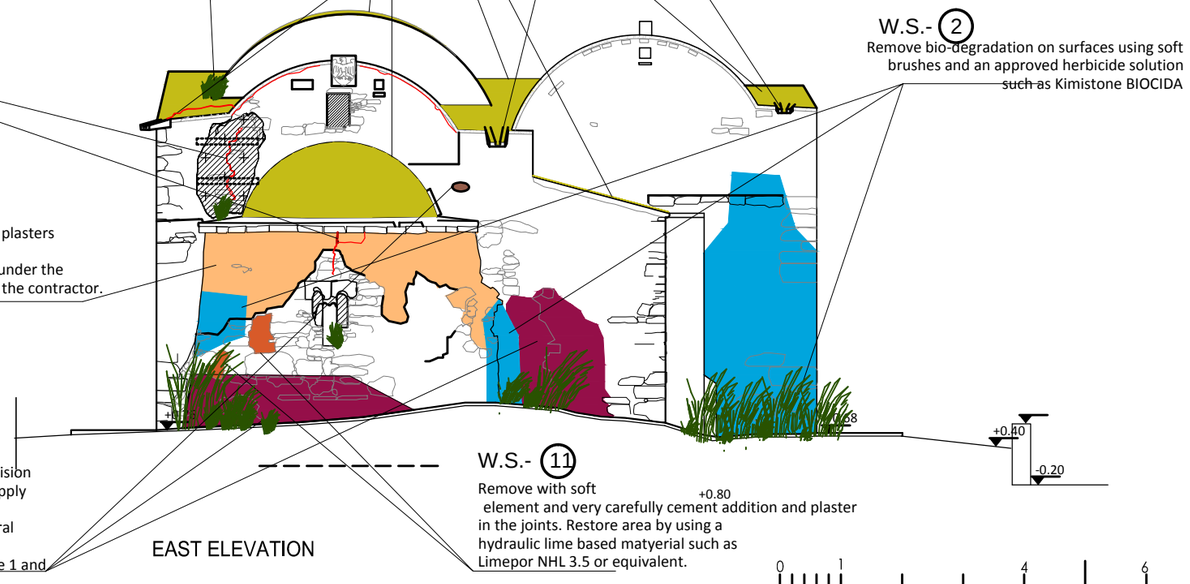
Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

W.S.- 1

Preserve/consolidate historical plasters and wall paintings according to technical specifications and under the supervision of a conservator of the contractor.



EAST ELEVATION

W.S.- 7 W.S.- 8

Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.

W.S.- 11

Remove with soft element and very carefully cement addition and plaster in the joints. Restore area by using a hydraulic lime based matyerial such as Limepor NHL 3.5 or equivalent.

Injection grouting area
Injection (indicative) grouting points
black spots on stones

0 1 4 6 10

The dimensions are in meters (m)

PROJECT: DESIGNS FOR CONSERVATION INTERVENTION OF THREE SITES LOCATED IN THE NORTHEN PART OF CYPRUS (RFQ-032/2017)

UNDP Partnership for the future

P.O. Box 21642,Nicosia 1590 Cyprus
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MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
PROPOSED INTERVENTIONS	ELEVATIONS	
DATE: December, 2017	SCALE: 1:100	P.I.02

W.S.- 11
Remove with soft element and very carefully cement addition and plaster in the joints. Restore area by using a hydraulic lime based matyerial such as Limepor NHL 3.5 or equivalent.

W.S.- 10
Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.

W.S.- 11
Remove with soft element and very carefully cement addition and plaster in the joints. Restore area by using a hydraulic lime based matyerial such as Limepor NHL 3.5 or equivalent.

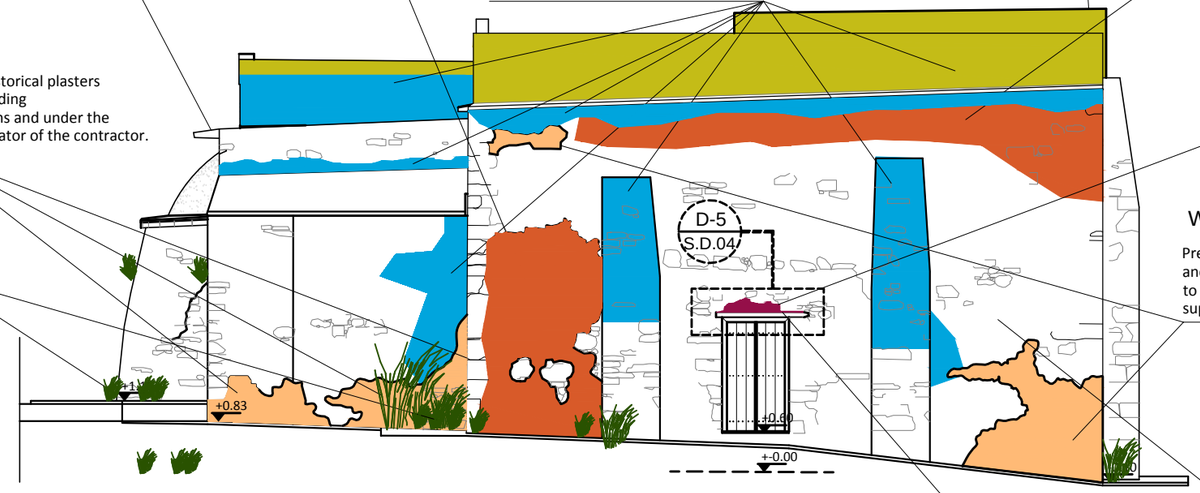
W.S.- 8
Filling of gaps with local stone block, using elements of the same quality and size, recessed 5 cm. The new stones must be of equivalent colour to the existing.

Clean water spouts from debris and plantation and make good work in order to work properly.

W.S.- 2

W.S.- 1
Preserve/consolidate historical plasters and wall paintings according to technical specifications and under the supervision of a conservator of the contractor.

W.S.- 2
Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA



W.S.- 1
Preserve/consolidate historical plasters and wall paintings according to technical specifications and under the supervision of a conservator of the contractor.

Apply a Kimistone KSF consolidant on all externall stone surfaces to protect substrates from weathering, acid rain, salty water and to avoid the atmospheric particulate matter on the external surfaces.

W.S.- 11
Rebuild the parts of the North façade that has collapsed so as to reinforce the structure with new wall elements similar in colour and mechanical characteristics to the original.

W.S.- 3 W.S.- 4 W.S.- 6
Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5.
Stailess steel rods to be place accordingly as per specifications.

W.S.- 10 W.S.- 3 W.S.- 4
Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.

W.S.- 2
Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

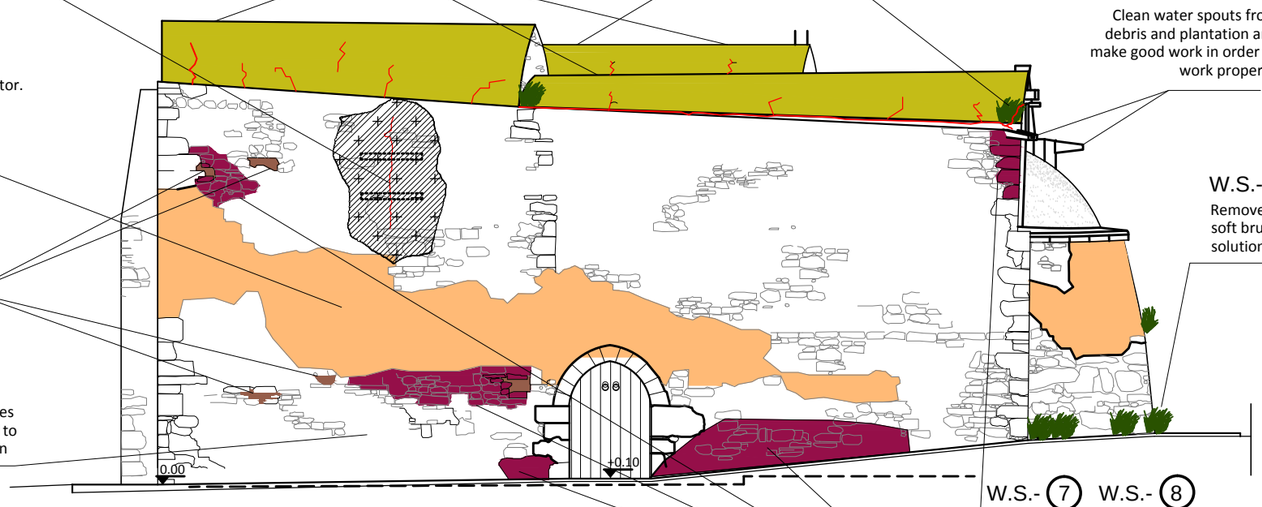
W.S.- 1
Preserve/consolidate historical plasters and wall paintings according to technical specifications and under the supervision of a conservator of the contractor.

Clean water spouts from debris and plantation and make good work in order to work properly.

W.S.- 7 W.S.- 8
Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.

W.S.- 2
Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

Apply a Kimistone KSF consolidant on all externall stone surfaces to protect substrates from weathering, acid rain, salty water and to avoid the atmospheric particulate matter on the external surfaces.



SOUTH ELEVATION

W.S.- 7 W.S.- 8
Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.

0 1 4 6 10
The dimensions are in meters (m)

For more details abouts W.S. (Work Specification) please see section F.3.0. WORK SPECIFICATION

INDEX

- Deteriorated joint mortar
- Cracks
- Detachment
- Loose stones

FEATURES INDUCED BY MATERIAL LOSS
- Alveolization
- Gap of historical value

DISCOLORATION & DEPOSIT
- Salt Crust
- Soiling (deposit)

ORGANIC GROWTH
- Algae
- Mosses and Lichen
- Plant
- Black stains (molds)

- Inappropriate intervention
- Historical plaster

Injection grouting area
Injection (indicative) grouting points
black spots on stones

PROJECT: DESIGNS FOR CONSERVATION INTERVENTION OF THREE SITES LOCATED IN THE NORTHEN PART OF CYPRUS (RFQ-032/2017)

UNDP Partnership for the future

P.O. Box 21642,Nicosia 1590 Cyprus
tel: 22874733, fax: 22359035

CONTRACTOR:
Joint Venture of **Platonas Stylianou and Associates Consulting Engineers** and **Chrysanthos Pissaridis, Architect.**
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email: stylianoup@cytanet.com.cy

PROJECT TEAM:
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Civil Engineers: **Platonas Stylianou, Alberto Farinola, George Hadjidemetriou**
Quantity Surveyors: **Marinos Demosthenous, Angela Christoforou**
Archaeol: Evi Karyda, Conserv. Marios Leonidou, Topo: Christos Hadjiyagkou
Heritage Consult. Kyriakos Themistocleous Dron Opr: Sevket Turel

MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
PROPOSED INTERVENTIONS	ELEVATIONS	
DATE: December, 2017	SCALE: 1:100	P.I.03

W.S.- 10

Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

W.S.- 7 W.S.- 8

Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.

W.S.- 12

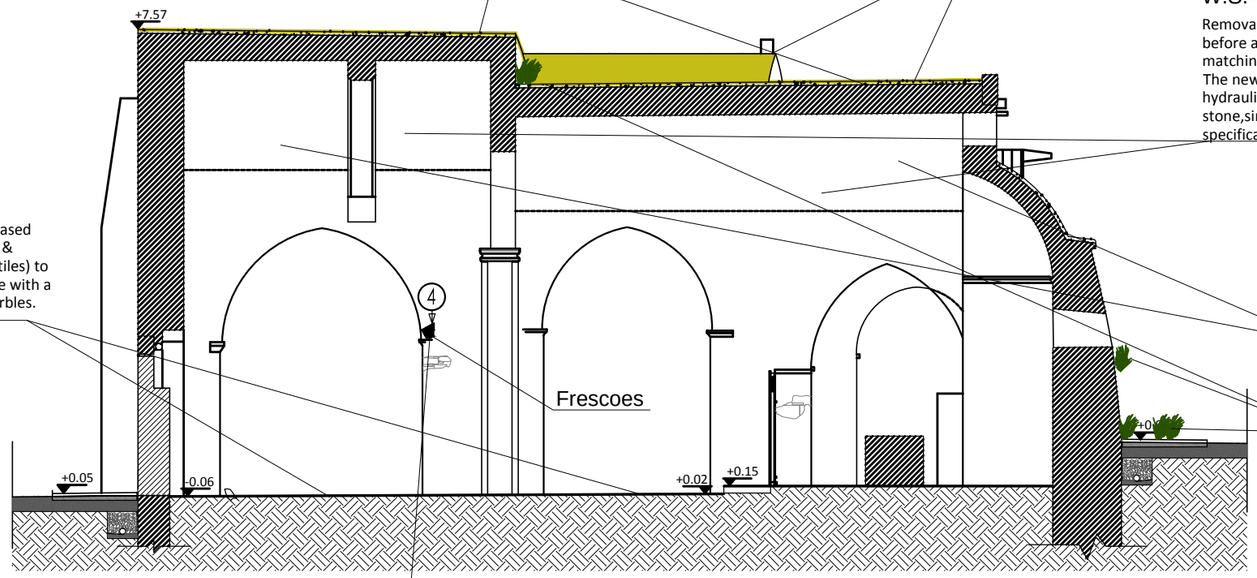
Remove of stains using solvent-based paint remover. Remove of damp & cleaning of the surface (gypsum tiles) to remove dust. Provide and replace with a new one the missing gypsum marbles.

W.S.- 3 W.S.- 4

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5

W.S.- 2

Remove plant and treat surfaces with a special material for disinfestation of the stone.



For more details abouts W.S. (Work Specification) please see section F.3.0. WORK SPECIFICATION

INDEX

- Deteriorated joint mortar
- Cracks
- Detachment
- Loose stones

FEATURES INDUCED BY MATERIAL LOSS

- Alveolization
- Gap of historical value

DISCOLORATION & DEPOSIT

- Salt Crust
- Soiling (deposit)

ORGANIC GROWTH

- Algae
- Mosses and Lichen
- Plant
- Black stains (molds)
- Inappropriate intervention
- Historical plaster

W.S.- 1

Preserve/consolidate historical plasters and wall paintings according to technical specifications and under the supervision of a conservator of the contractor.

Clean water spouts from debris and plantation and make good work in order to work properly.

W.S.- 10

Removal of the top roofing material layer. Heal the cracks as per WS.3 & WS.4 specifications. New roofing material to be placed such as Tectoria M15 mixed with Kimitech ELASTOFIX. Smoothing edges to facilitate flow of water. Waterproofing after one week with lime based traditional finish such as Limepor FN or SK mixed with Kimitechk IDROREP or equivalent for rain water protection.

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

W.S.- 7 W.S.- 8

Removal of all damaged or bad pointing (area to be approved by the supervision before any work done). Check all pointing up to a depth of 4mm and then apply matching pointing in a depth of 3mm to all previously pointed surfaces.
The new pointing will be done with a ready to use material containing natural hydraulic lime in matching colour to the original. Replace stones with new stone,similar in colour,texture and characteristics to the original as per table 1 and specifications.

W.S.- 1

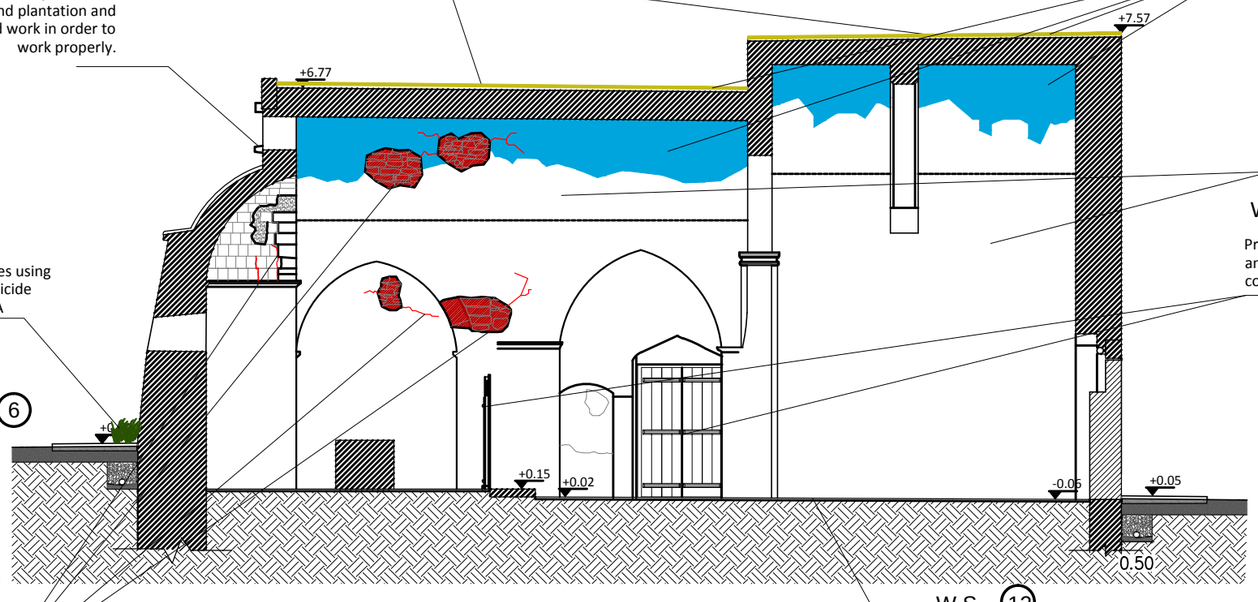
Preserve/consolidate the wooden iconostasis and south door under the supervision of a conservator of the contractor.

W.S.- 2

Remove bio-degradation on surfaces using soft brushes and an approved herbicide solution such as Kimistone BIOCIDA

W.S.- 3 W.S.- 4 W.S.- 6

Repair of cracks.
Grout the surface near the cracks
If the surface crack is wider than >4mm,with Limepor 100 as per W.S.3.
If the crack is smaller than <4mm, use a material which has high resistance to sulfates, low water-soluble salt content, made out of natural hydraulic lime (NHL) with the addition of carbonate filler as per W.S.4, such as Limepor NHL 3.5.
Stailess steel rods to be place accordingly as per specifications.



W.S.- 12

Remove of stains using solvent-based paint remover. Remove of damp & cleaning of the surface (gypsum tiles) to remove dust. Provide and replace with a new one the missing gypsum marbles.

4 Frescoes traces

Injection grouting area

Injection (indicative) grouting points

black spots on stones

0 0.5 1 2 3 5

The dimensions are in meters (m)

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MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
PROPOSAL DRAWINGS	SECTIONS	
DATE: December, 2017	SCALE: 1:100	P04

road from Nicosia to Famagusta

Agios Artemon Church

Exit of water, free flow

Exit of water, free flow

D-1
S.D.02

D-2
S.D.02

D-3
S.D.08

R.W.

C.J.

"POURI"

PEBBLE FLOOR

1%-2%

G.B

plot 88

Steel fencing rope fence (cable railing). RSA 80X80X8mm to be positioned every 1.50m on a continuous surface ground beam. (see structural detail).

Pedestrian access point. Steel door of 1.50 m wide as shown at the architectural detail and per specifications.

SITE PLAN

N

XXX existing altitudes/soil

XXX proposed altitudes/soil

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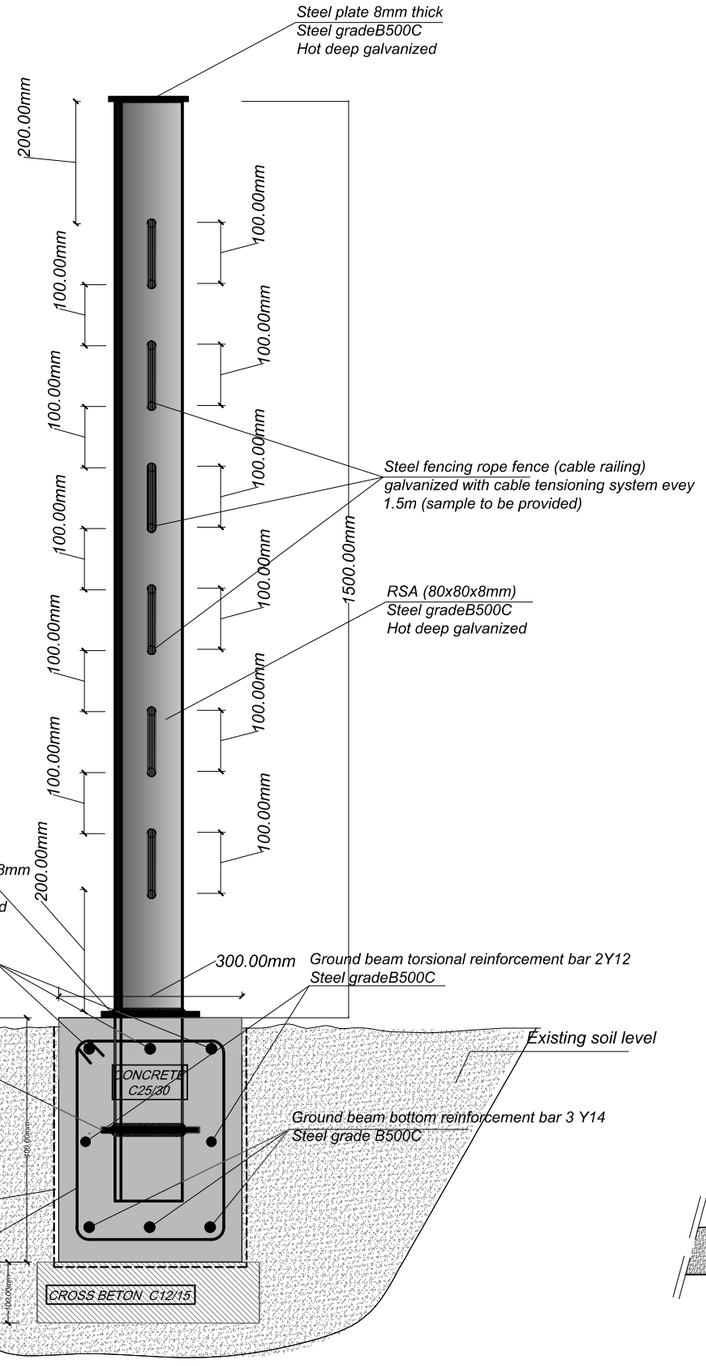
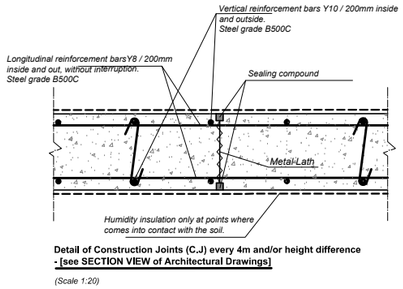
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	SITE PLAN	
DATE: December, 2017	SCALE: 1:100	S.D.01



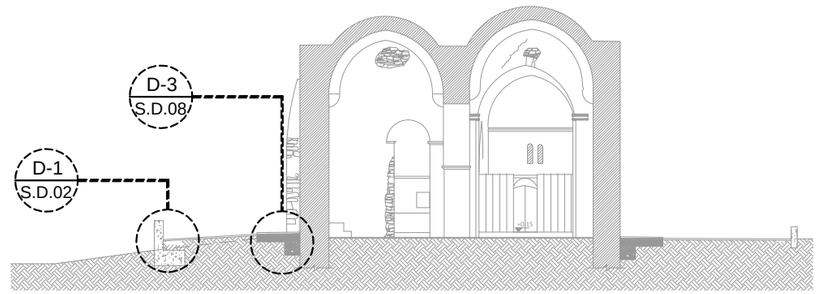
D-2 / S.D.01 **Ground beam**

(Scale 1:10)

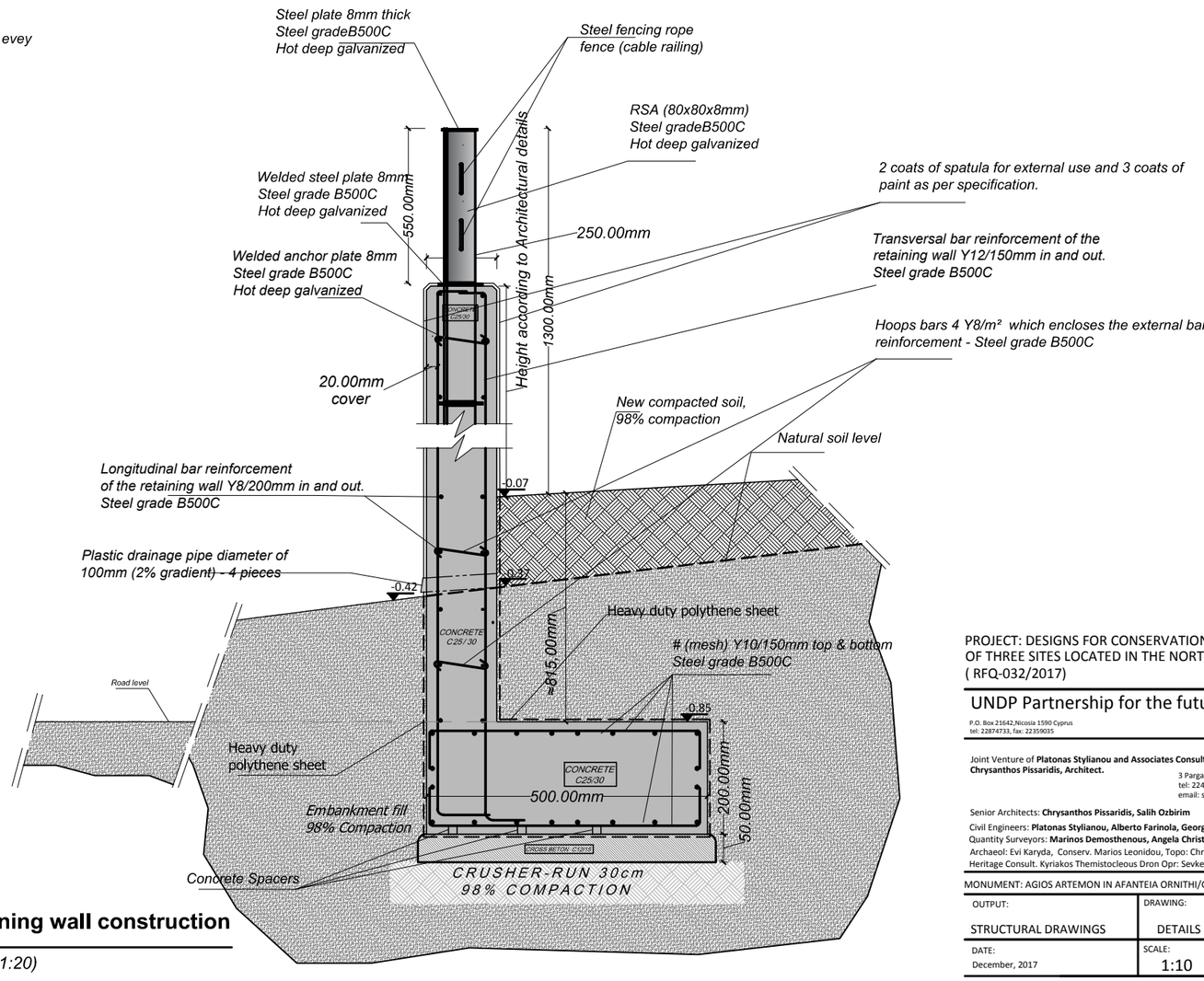


Detail of Construction Joints (C.J) every 4m and/or height difference - [see SECTION VIEW of Architectural Drawings]

(Scale 1:20)



CROSS - SECTION EE'



D-1 / S.D.01 **Retaining wall construction**

(Scale 1:20)

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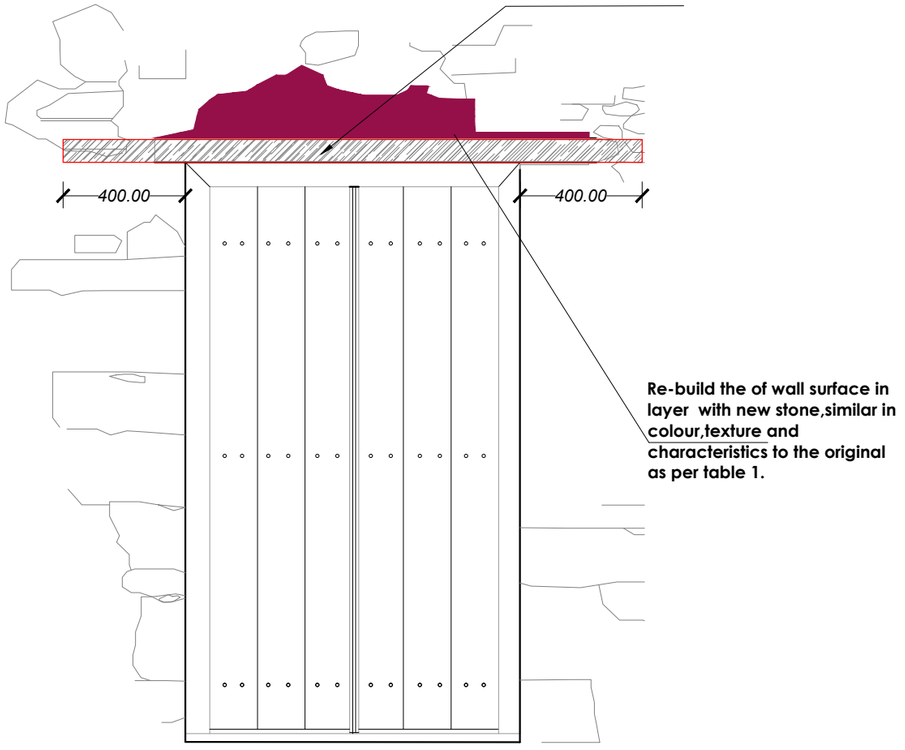
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS - DOORS/WINDOWS	
DATE: December, 2017	SCALE: 1:10	S.D.02

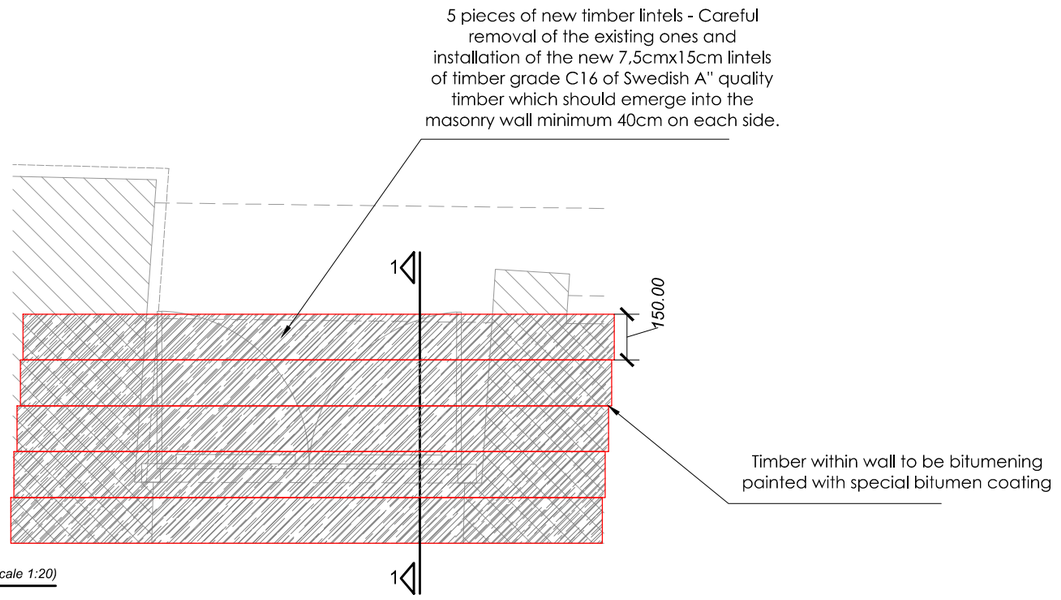
5 pieces of new wooden lintels - Careful sequential removal of the existing timber beams and installation of the new 7,5cmx15cm lintels which should emerge into the masonry wall minimum 40cm on each side.

Sequence of work:

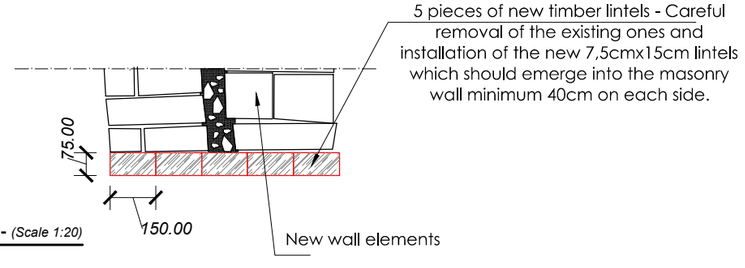
- Sufficient and safe supporting of the affected area.
- Removal of the external part of the existing lintels (2 pieces max), preparation of the area and installation of the first 2 new lintels starting from the external side.
- Preparation of the area, removal of the existing timber lintels and installation of the remaining 3 new lintels starting from the internal side.



VIEW - *(Scale 1:20)*



PLAN - *(Scale 1:20)*



SECTION 1-1 - *(Scale 1:20)*

D-5
P.I.03
Wooden Lintel Replacement
(Scale 1:20)

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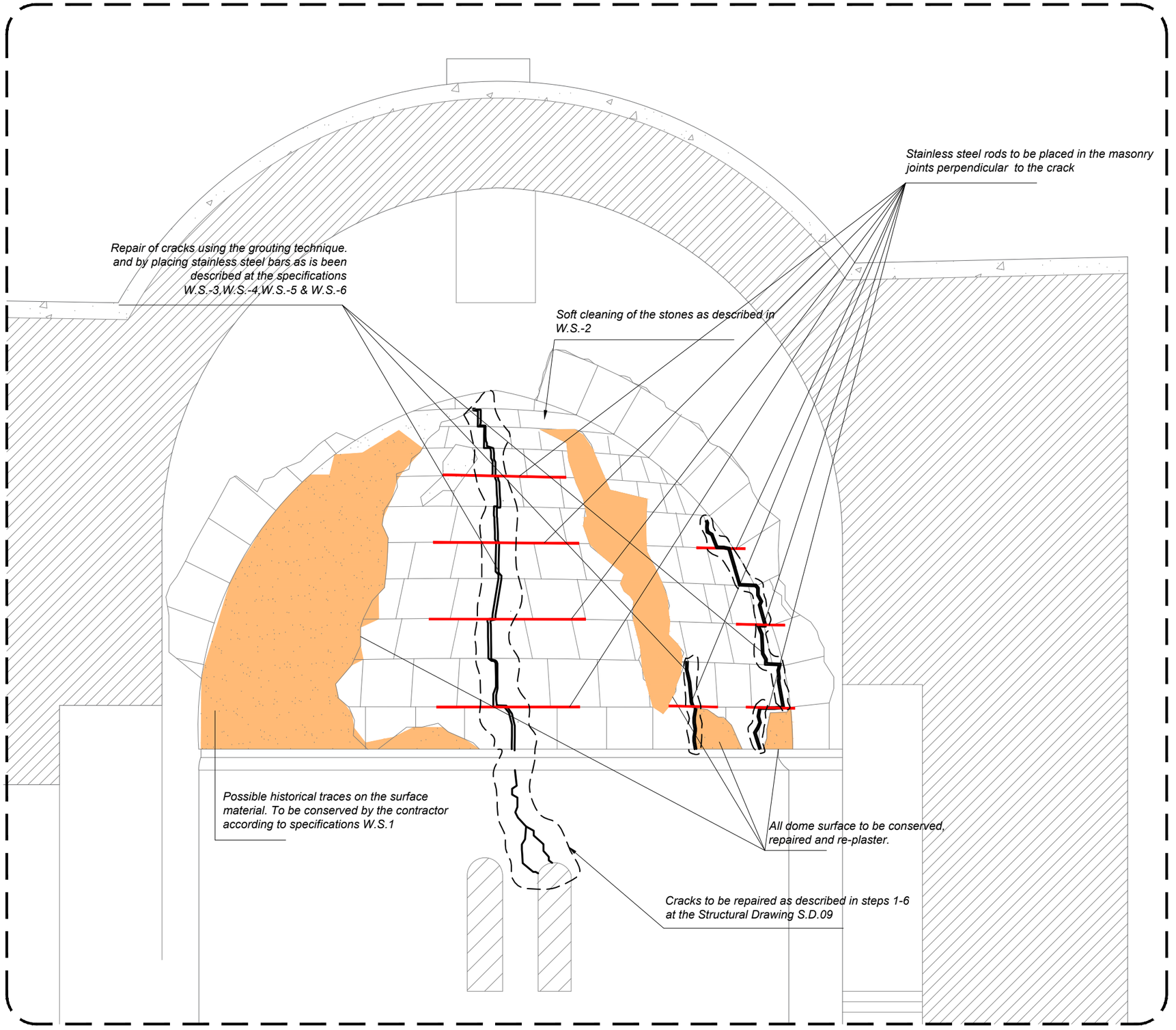
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:10/1:20	S.D.03



D-4
P.09.

Drainage system detail B

(Scale 1:20)

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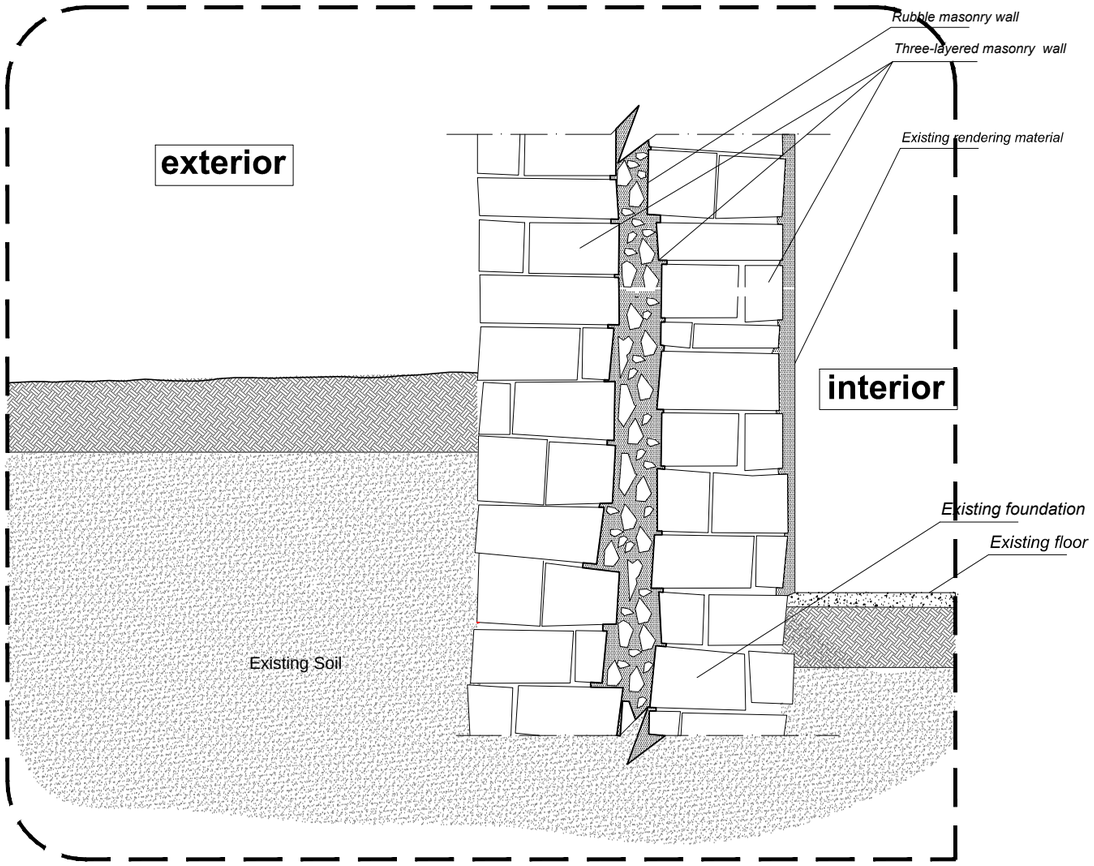
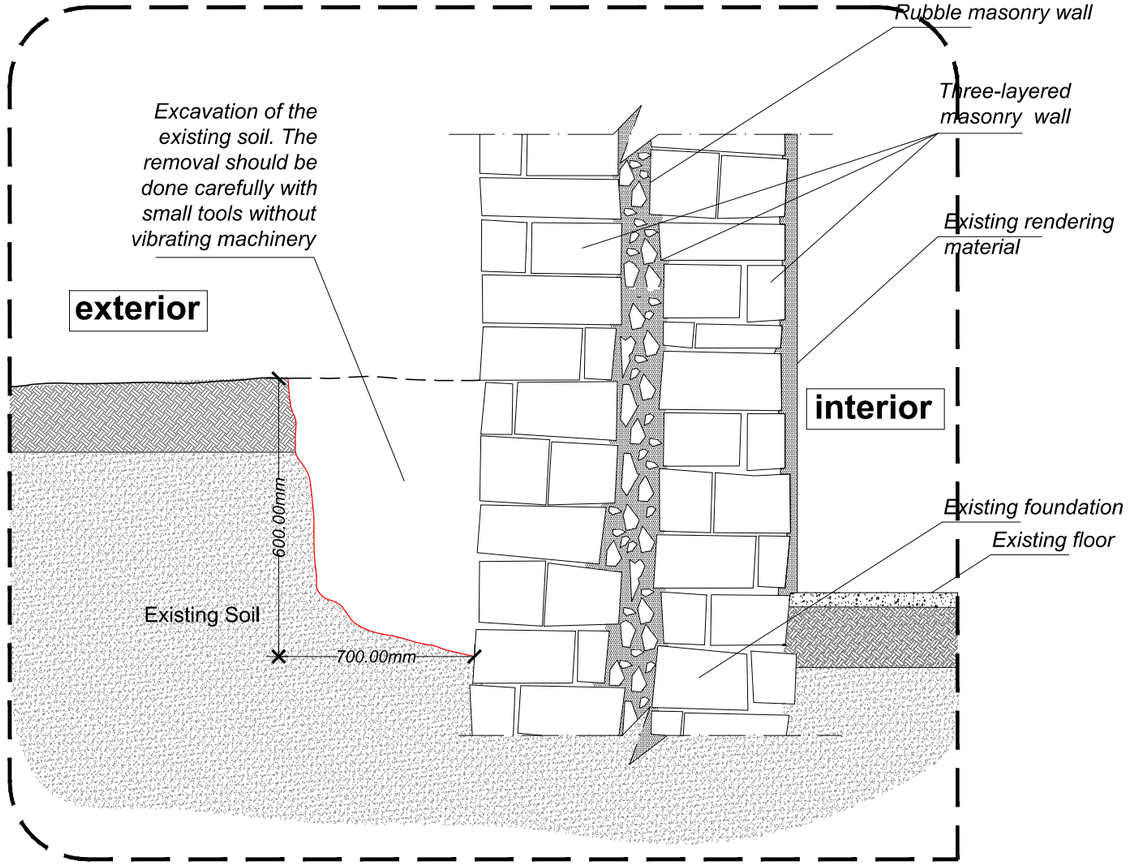
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS - DOORS/WINDOWS	
DATE: December, 2017	SCALE: 1:20	S.D.04



1 **Existing condition**



2 **Excavation of the existing soil**

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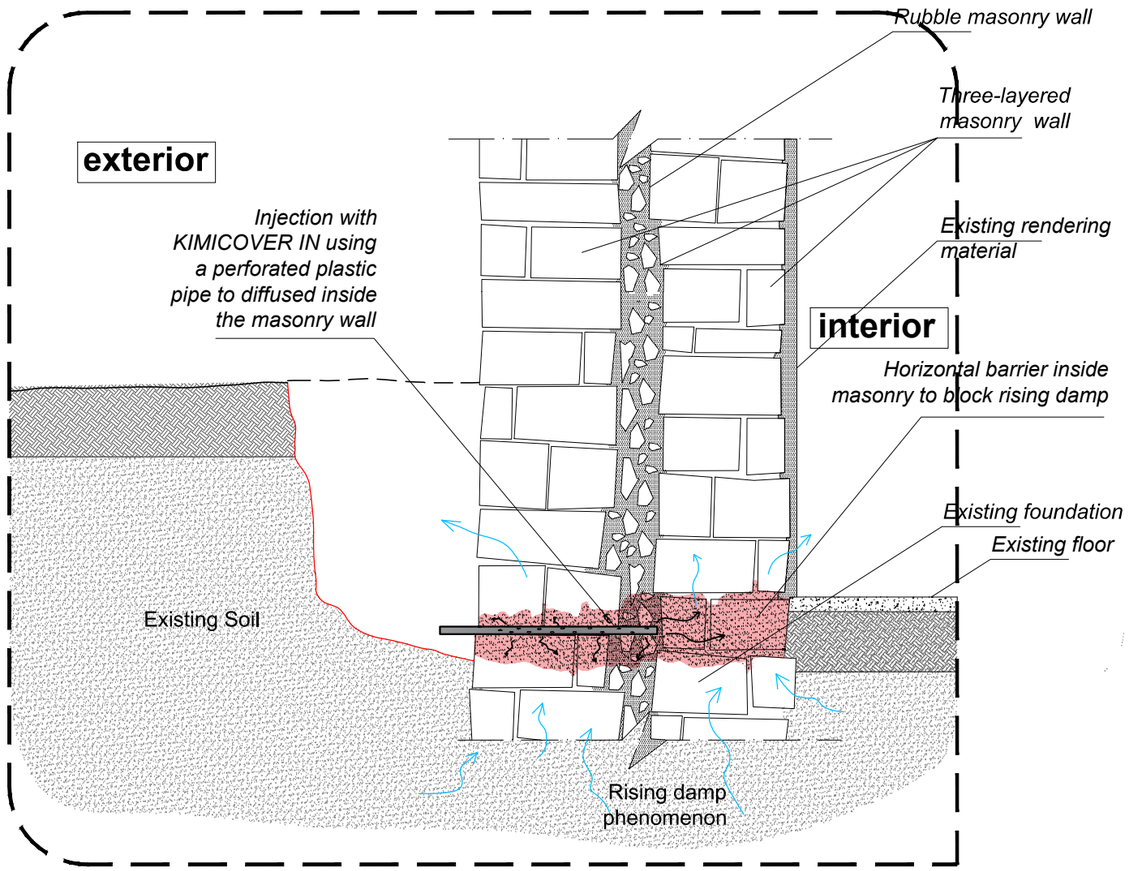
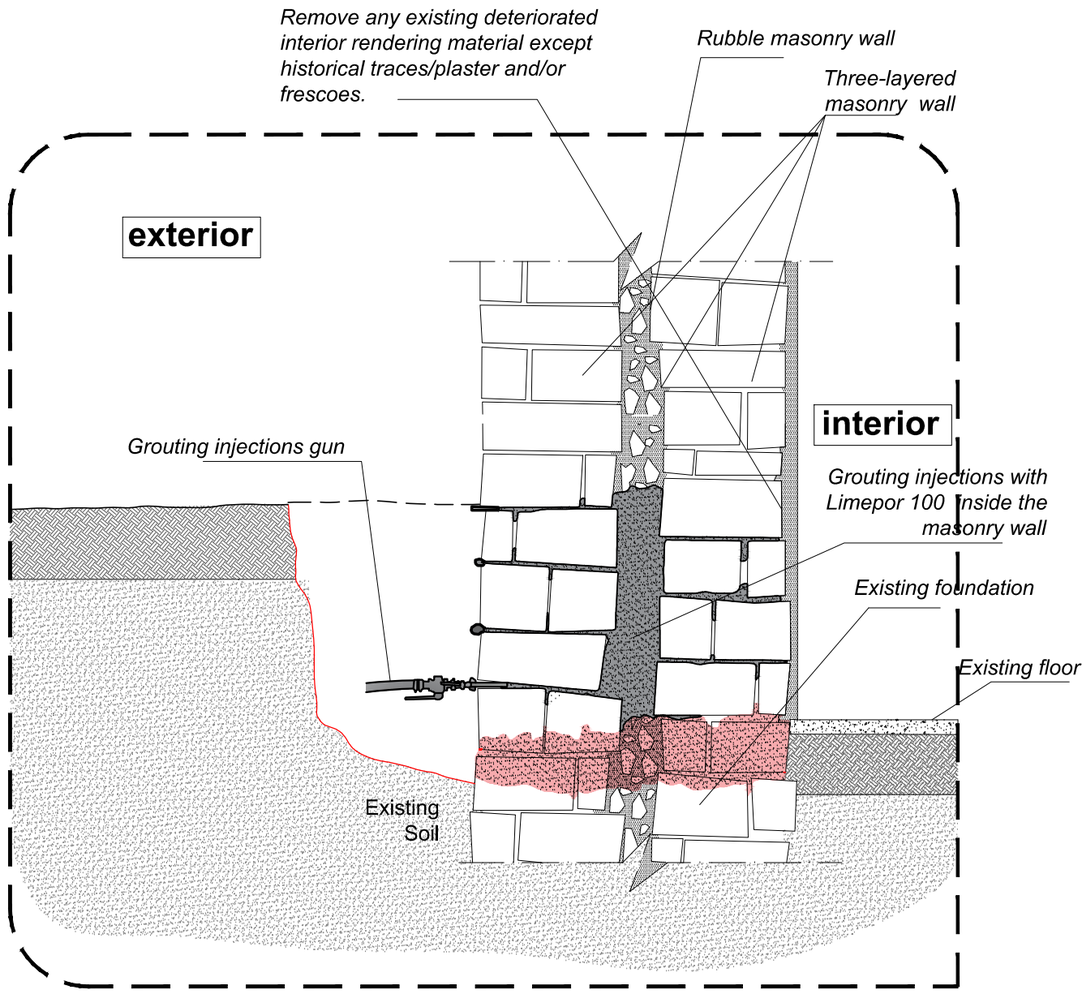
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:10/1:20	S.D.05



3 **Creating a rising damp barrier**



4 **Grouting procedure (see also S.D.06)**

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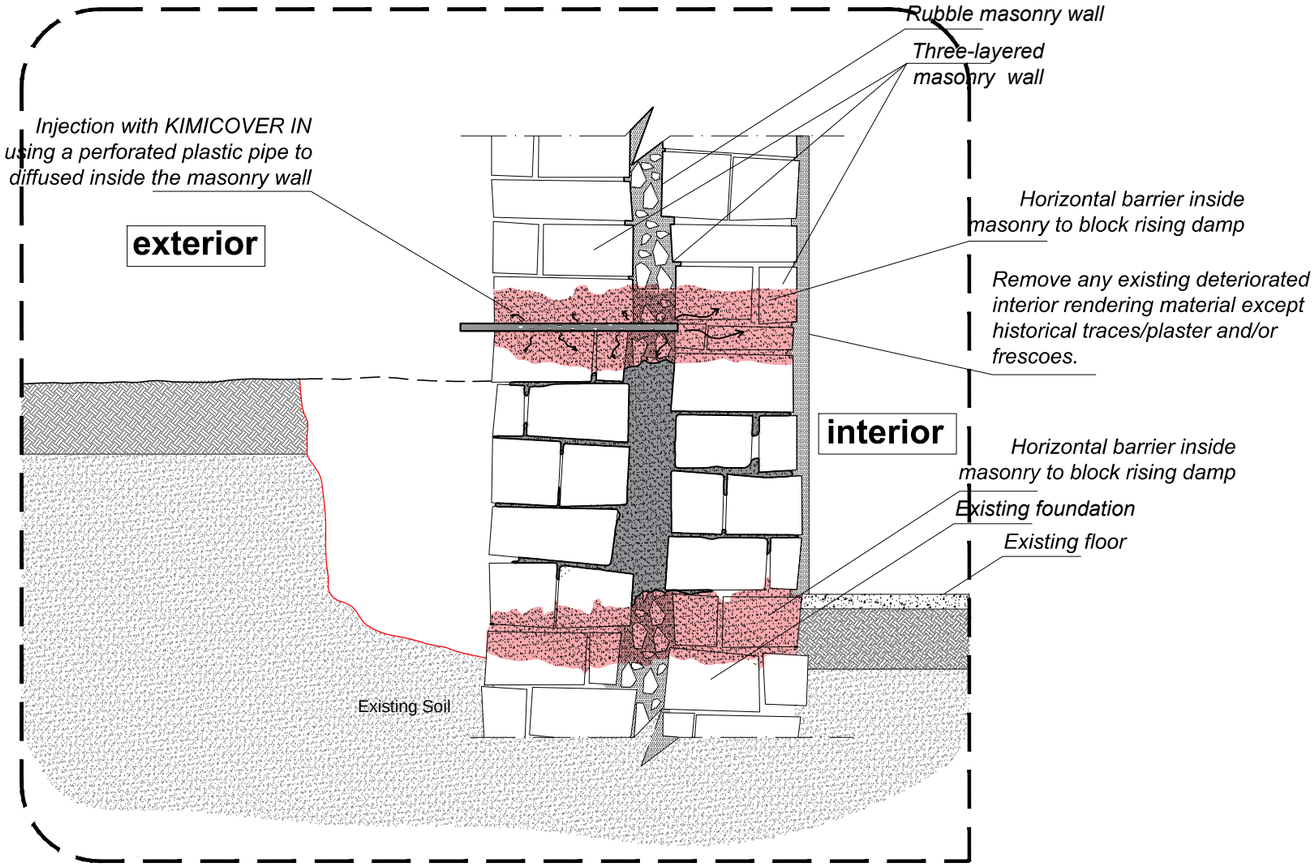
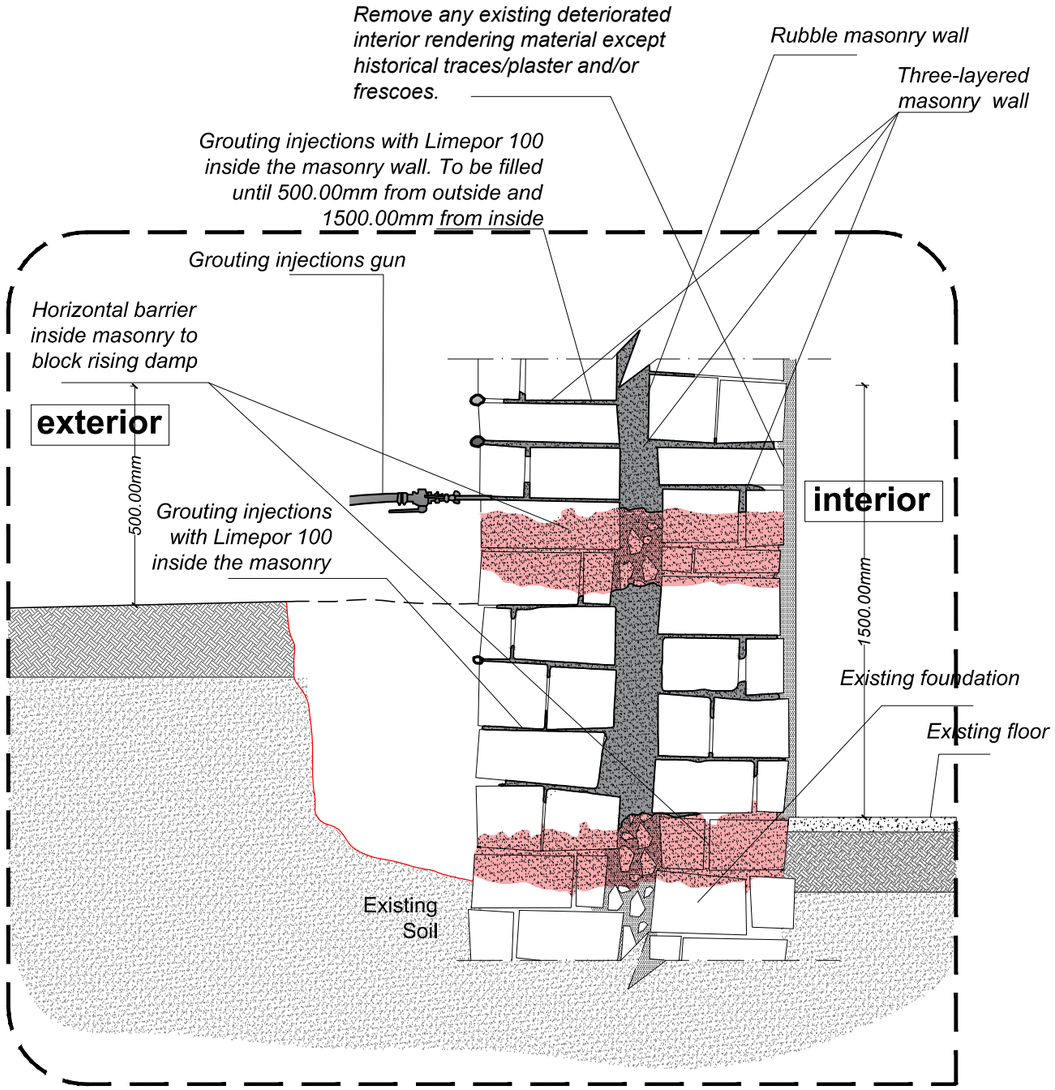
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:10/1:20	S.D.06



5 **Creating a secondary, higher, rising damp barrier**



6 **Continue the grouting procedure (see also S.D.06)**

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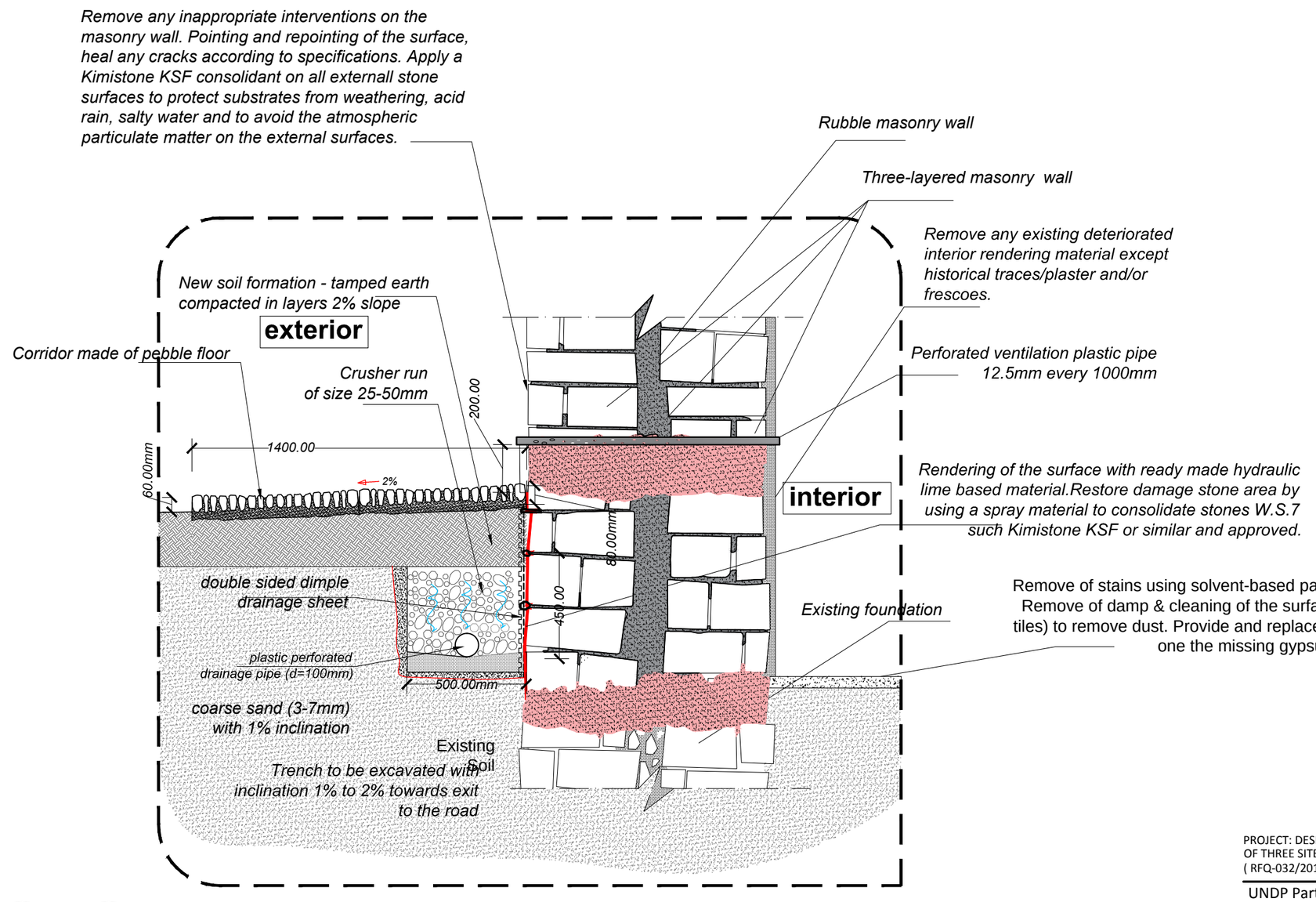
OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:10/1:20	S.D.07



D-3 / S.D.02 — 7

Drainage system

(Scale 1:20)

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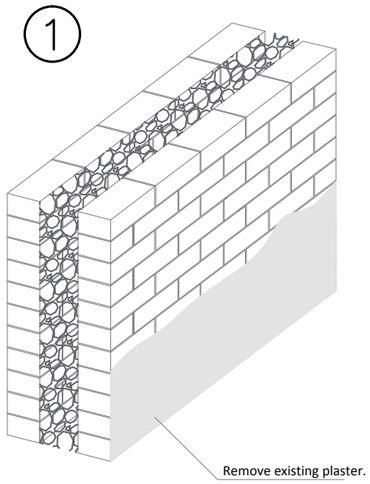
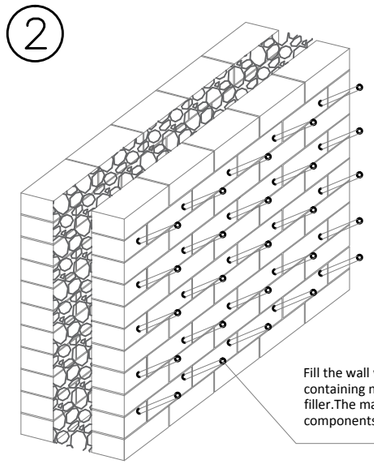
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÓY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:10/1:20	S.D.08

GENERAL NOTES:

1. It is the contractor sole responsibility to check all dimensions, measurements e.t.c. on site prior to commencing any work or making any materials orders.
2. Any discrepancies on drawings details, specification e.t.c. should be given in writing to the Architect and Civil Engineer for clarifications.
3. Areas of stone removal and repointing to be approved previously by the consultants.(Architect and Civil Engineer)
4. No cleaning or other work will be contacted on all historical plasters without the consent of the conservator.
5. All work to be done according to drawings, specification and manufacturer specification materials proposed and supervision.
   Performance certificate of good work to be given for all materials used by the supplier and the contractor to UNDP prior to completion of works.All specialist material to be used must be done under the supplier supervision.





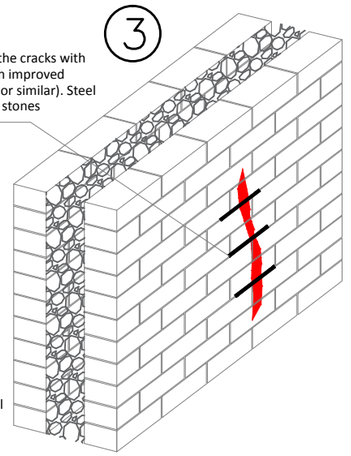
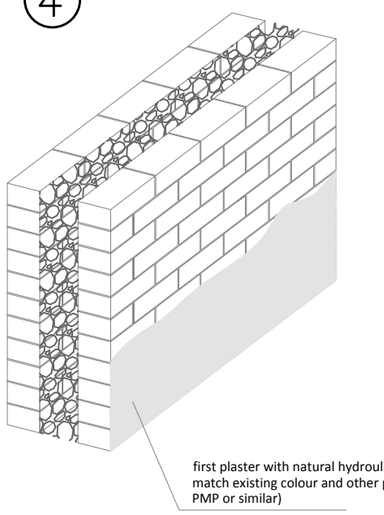


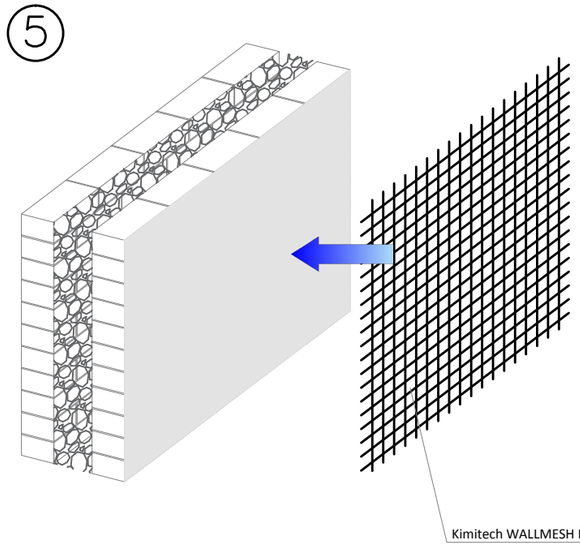
TABLE 1: CRITERIA FOR REPLACEMENT OF DECAYED/DETERIORATED AND HEAVILY DAMAGED STONES

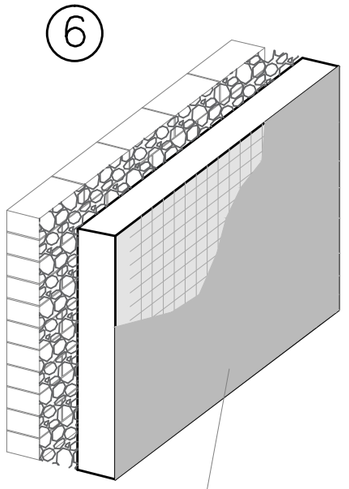
Loss of stone > 65%	Replace with new stone similar in texture, size and colour as per laboratory analysis.The replacement stone should be compatible with the original stones in terms of colour and mineralogy. Its open porosity/apparent density (measured in accordance with EN 1936) should be < 35% and > 1700 kg/m3 respectively. The capillary absorption coefficient (measured in accordance with EN 1925) should be < 1000 g/m2/s1/2. The stone should also be adequately resistant to salt crystallization (EN 12370) to fit the purpose of its use. The compressive strength (measured in accordance with EN 1926) of the replacement stone should exceed 5 MPa sample with all the above properties should be given for approval.
Loss of stone > 40% but < 65%	Retain of more original material. Cut out and piece in, new stone similar in size, colour and texture and / or repair with appropriate mortar('plastic' repair).
Loss of stone < 40%	Repair with appropriate mortar containing natural hydraulic lime NHL, natural pozzolans and inert siliceous materials with a maximum granulometry of 3 mm.

TABLE 2: CRITERIA ON REPAIRING CRACKS

Minimal depth (Superficial crack)	If the crack is smaller <4mm use of a material which has high resistance to sulfates, low water-soluble salt content, will be made out of natural hydraulic lime (NHL) with the addition of carbonate filler.
Bigger cracks	If the surface crack is wide >4mm correct the crack with use of a material liiquid two-component resin for structural injections.
Deep cracks	Insertion of a fiberglass rod diagonally to the crack. Use injection to heal crack with the use of the material liiquid two-component epoxy resin for structural injections. While grouting and “sealing” the cracks and gaps with a suitable hydraulic lime based mortar.







DETAIL SCHEME OF CRACK REPAIR TO RENDER SURFACES ON A THREE-LAYRED MASONRY WALL

PROJECT: DESIGNS FOR CONSERVATION INTERVENTION OF THREE SITES LOCATED IN THE NORTHEN PART OF CYPRUS (RFQ-032/2017)

UNDP Partnership for the future

P.O. Box 21642,Nicosia 1590 Cyprus
tel: 22874733, fax: 22359035

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Joint Venture of **Platonas Stylianou and Associates Consulting Engineers** and **Chrysanthos Pissaridis, Architect.**
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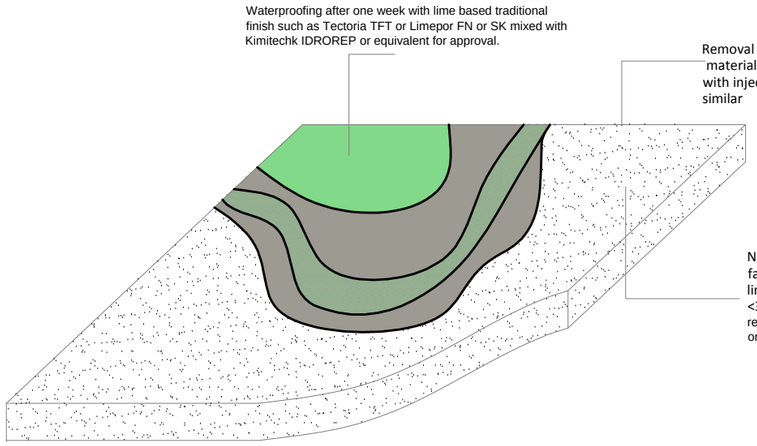
Quantity Surveyors: **Marinos Demosthenous, Angela Christoforou**
Archaeol: Evi Karyda, Conserv. Marios Leonidou, Topo: Christos Hadjiyagkou
Heritage Consult. Kyriakos Themistocleous Dron Opr: Sevket Turel

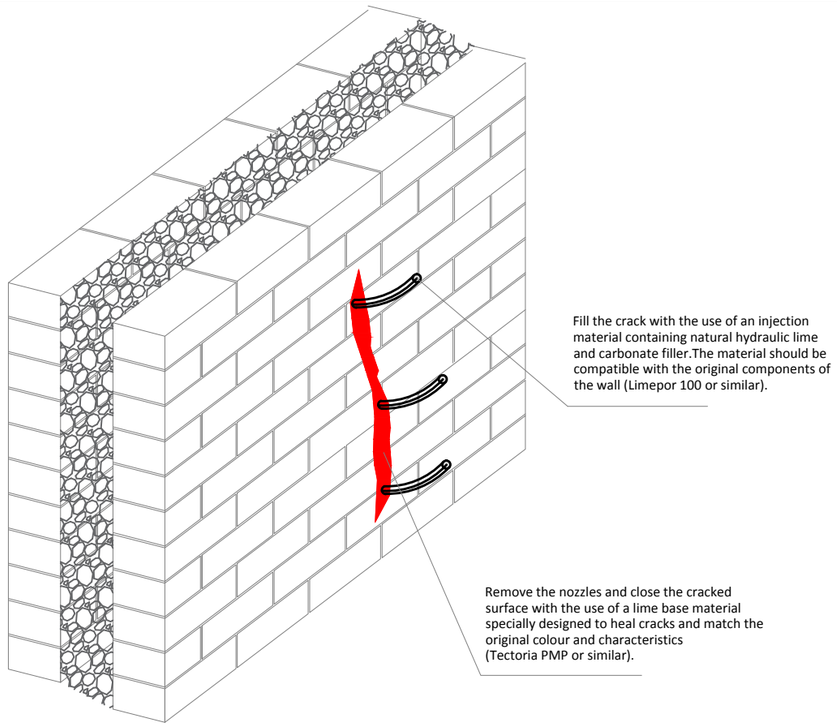
MONUMENT: AGIOS ARTEMON IN AFANTEIA ORNITHI/GAZIKÖY

OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: N.T.S	S.D.09



DETAIL OF THE WATERPROOFING SYSTEM FOR THE ROOF NEW MATERIALS

N.T.S



DETAIL OF CRACKS REPAIR TO UN-RENDER SURFACES

N.T.S

GENERAL NOTES:

1. It is the contractor sole responsibility to check all dimensions, measurements e.t.c. on site prior to commencing any work or making any materials orders.
2. Any discrepancies on drawings details, specification e.t.c. should be given in writing to the Architect and Civil Engineer for clarifications.
3. Areas of stone removal and repointing to be approved previously by the consultants.(Architect and Civil Engineer)
4. No cleaning or other work will be contacted on all historical plasters without the consent of the conservator.
5. All work to be done according to drawings, specification and manufacturer specification materials proposed and supervision.
   Performance certificate of good work to be given for all materials used by the supplier and the contractor to UNDP prior to completion of works.All specialist material to be used must be done under the supplier supervision.

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OUTPUT:	DRAWING:	
STRUCTURAL DRAWINGS	DETAILS	
DATE: December, 2017	SCALE: 1:5/1:10	S.D.10