

The relief and the study of the monument



Pict. a) Access Propylaeum to Triangular Forum (Reg. VIII, 7, 30)



Pict. b) Access Propylaeum to Triangular Forum (Reg. VIII, 7, 30)



Pict. d) Access Propylaeum to Triangular Forum (Reg. VIII, 7, 30)



Pict. e) Access Propylaeum to Triangular Forum (Reg. VIII, 7, 30)

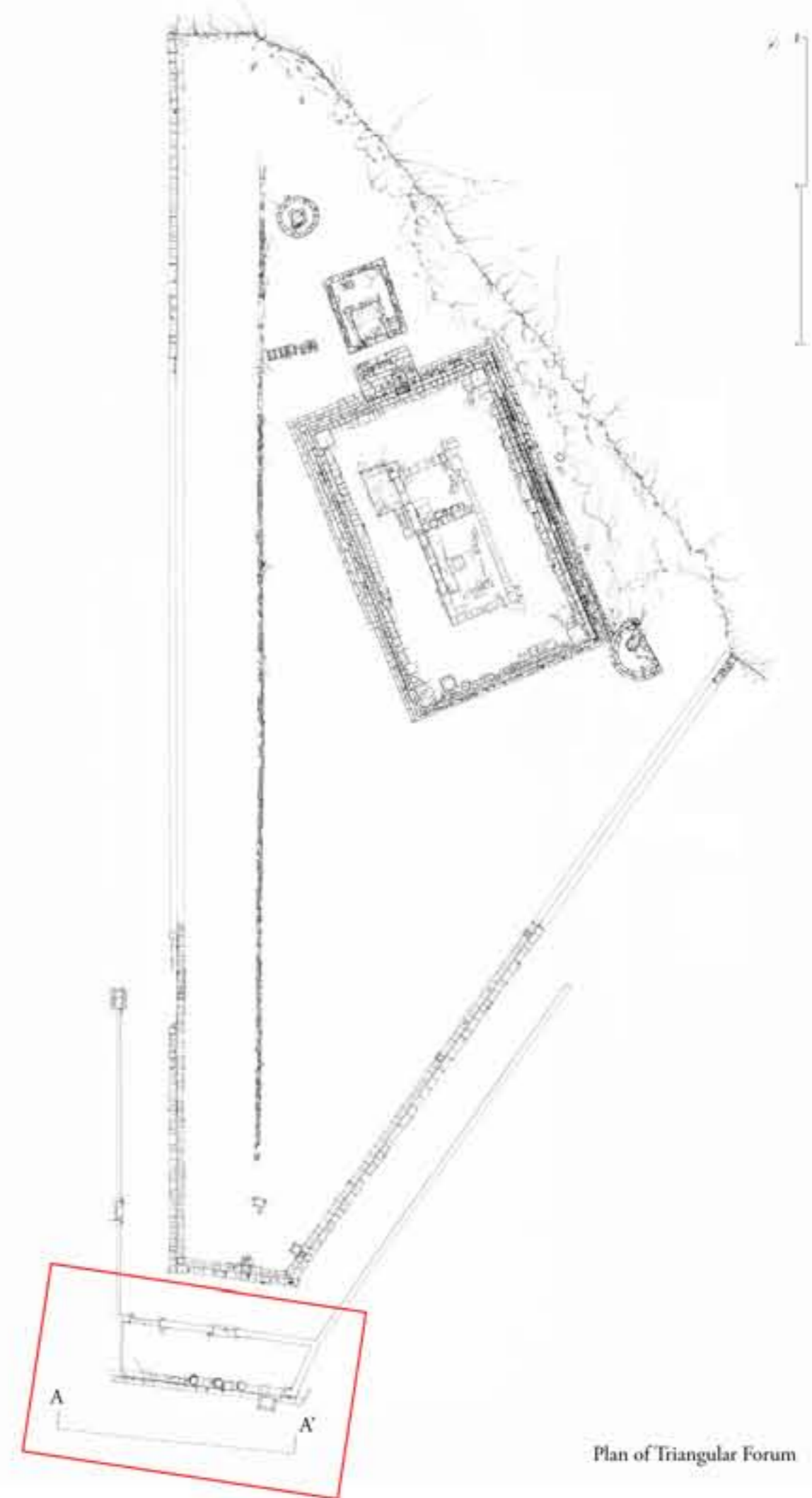
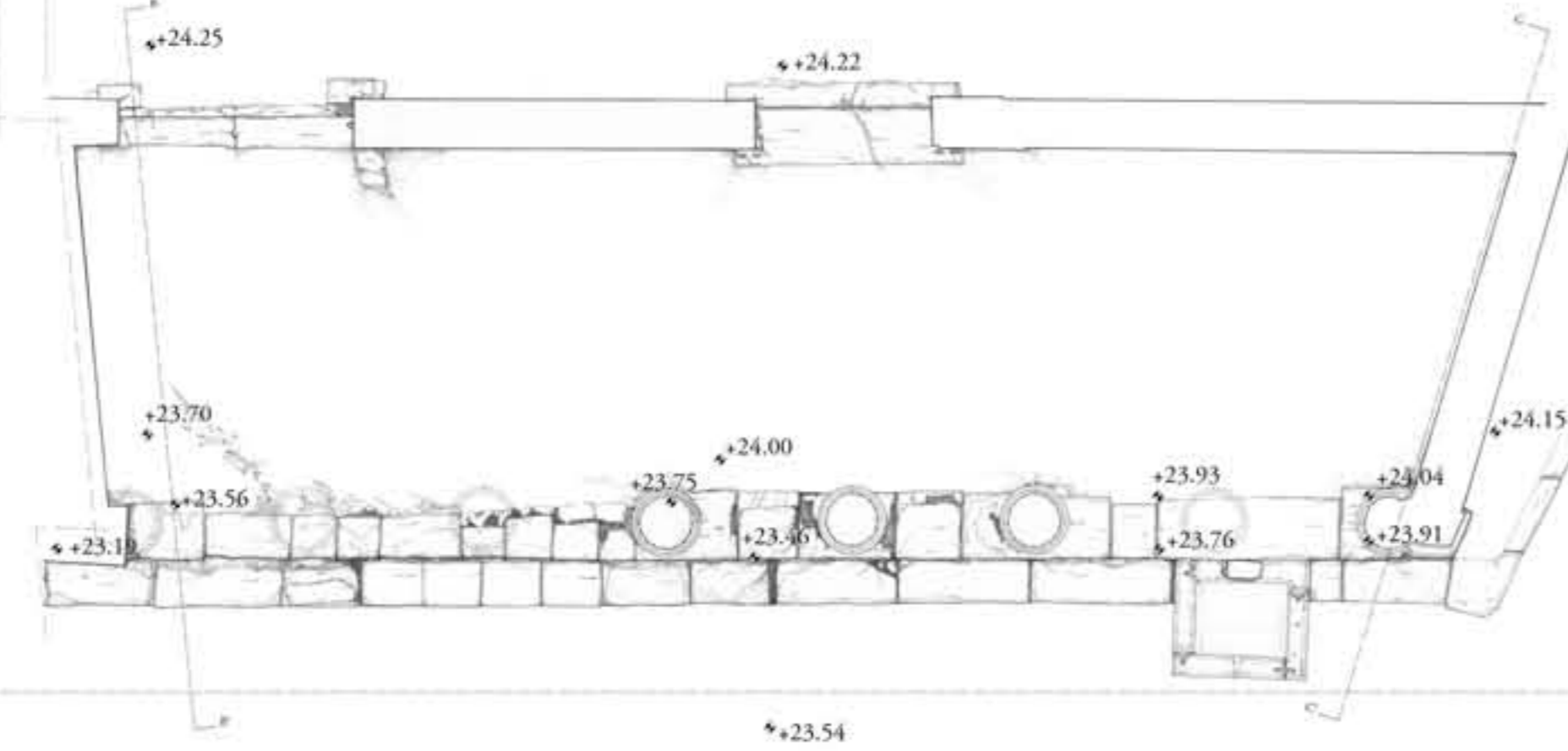
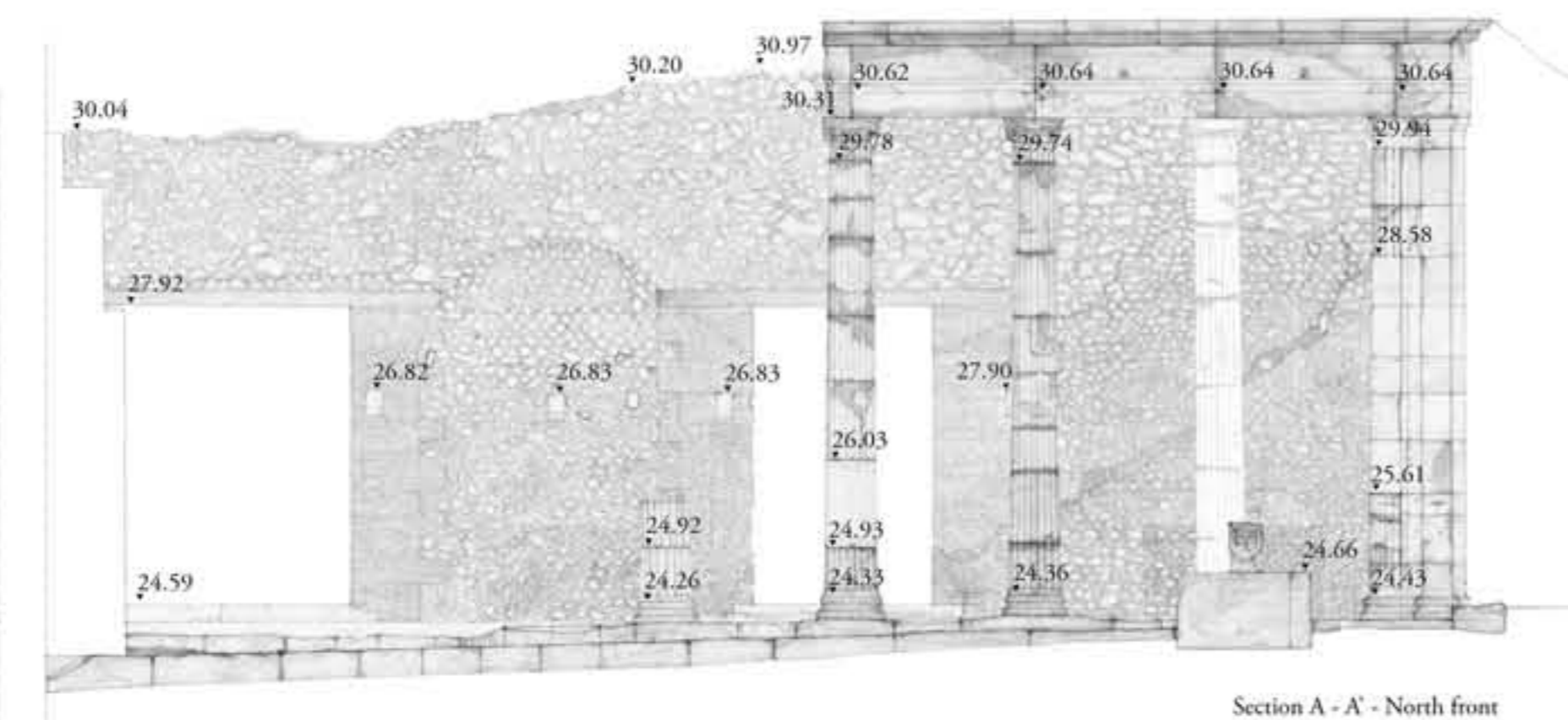
Framing the northern front of the monument; the order, of which it has partial anastylosis, presents a propped column due to crushing phenomena.

Sight of the part of northern front of Propylaeum devoid of the architecronic order; of this part is preserved *in situ* only one base and a rochio above.

Framing from Via dei Teatri of Propylaeum; to follow, continuing to the East, there is the wall of a post-war restored, as indicated by its plaque, which delimits Sannitic Gym along the North front.

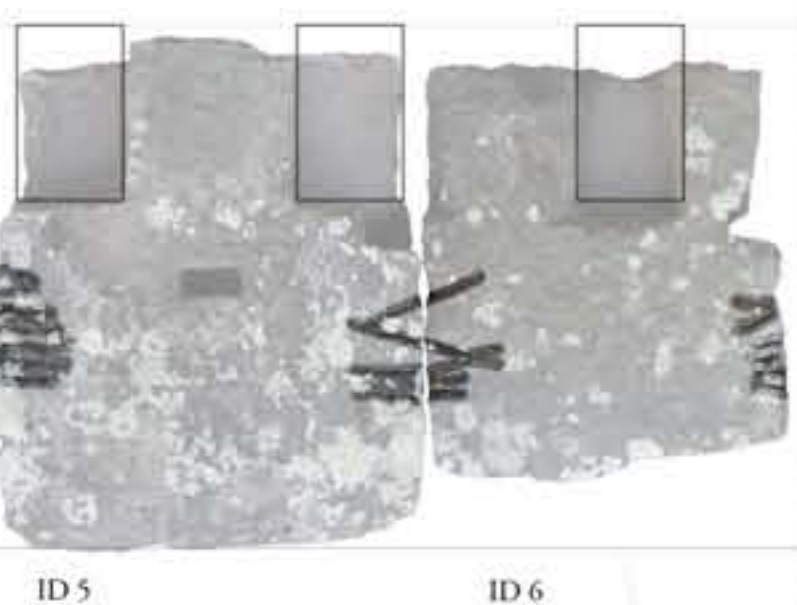
Sight of back wall of the Propylaeum, inside Triangular Forum; this is preserved *in situ* only one portion of this wall because of the damage by the earthquake of 62 A.D.

Eastern view wall of the inner facing of the Propylaeum, which supports the wall post-war restored; note the absence of clamping between the bricks in front of the East and those of the back wall of the monument.



1. RESTORATION OF ARCHITECTONICAL BLOCKS

The restoration of the city follows the earthquake of the 62 A.D., which was still in place at the time of the eruption. Even the Triangular Forum area was a work in progress, as can be seen from different elements. The first tangible sign are the carvings on the: see as those on ID 5 and ID 6 complement placing them close together. This suggests that they were practiced on the ground after dismantling of the same, to ensure, when restoration was completed, their perfect replacing.



ID 5 ID 6

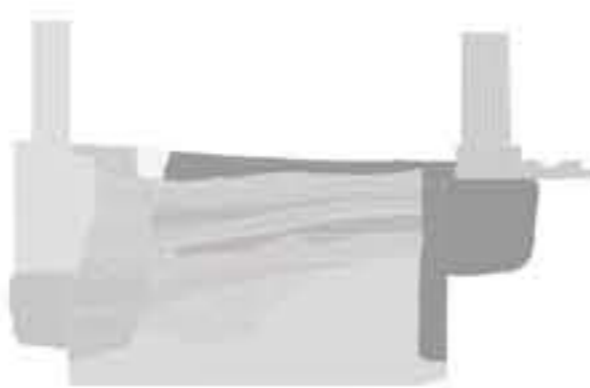
2. RESTORATION OF THE WALLS

Archaeological evidence denounces clearly the signs of reconstruction of the walls of the building. The masonry in *opus testaceum*, covers, in stratigraphic report, the places for railings, evident on central threshold of the back wall.



3. RECONSTRUCTION OF THE FOUNDATIONS OF THE FORUM PORCH

Restoration of the porch foundations with consequent reassembling of STYLOBATE [4].



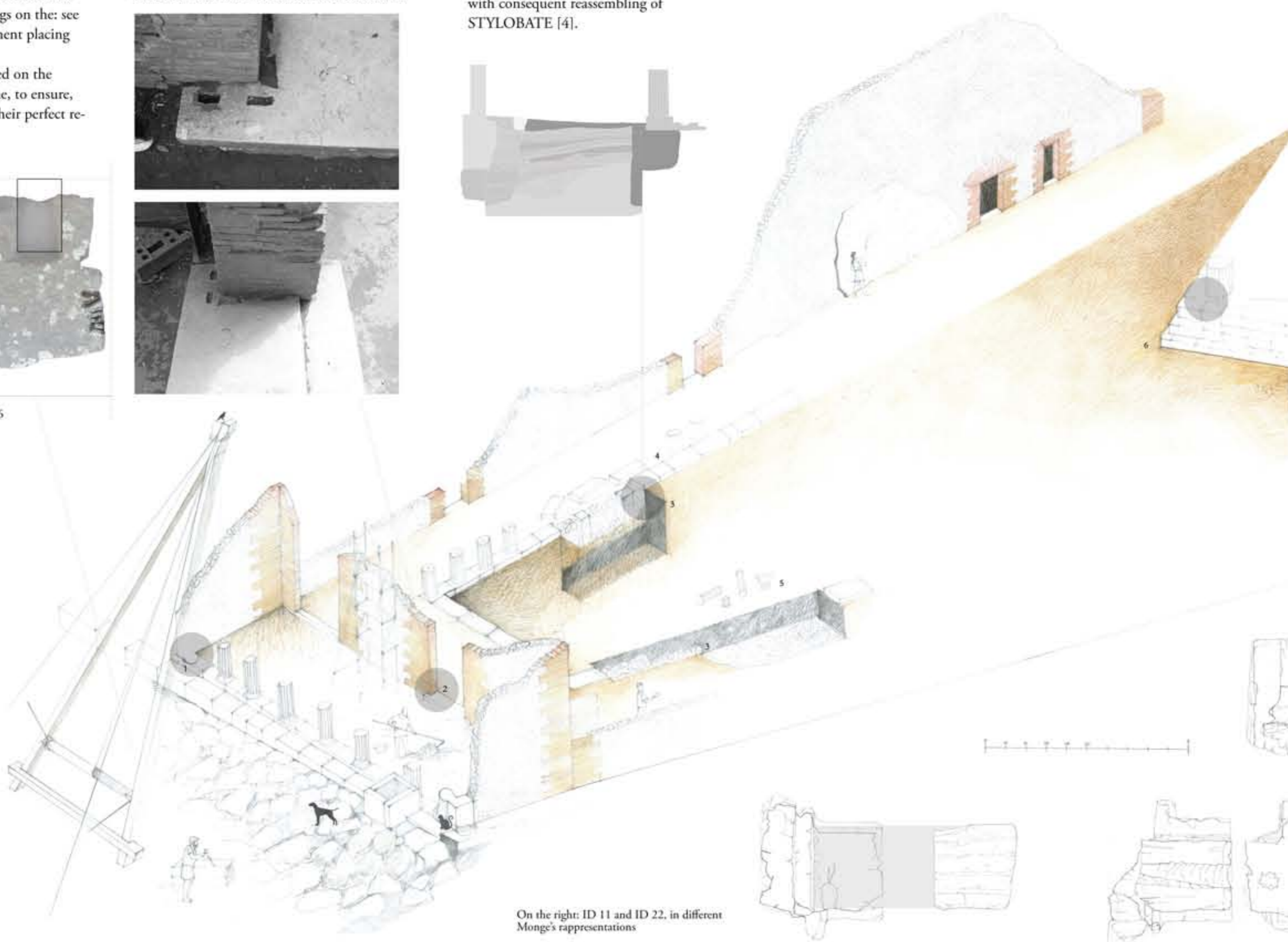
6. RESTAURATION OF ANTA'S BASES

Reuse of architectural blocks and of the porch of stylobate on crepidine of Doric Temple and heroon threshold.



1. RESTORATION OF ARCHITECTONICAL BLOCKS

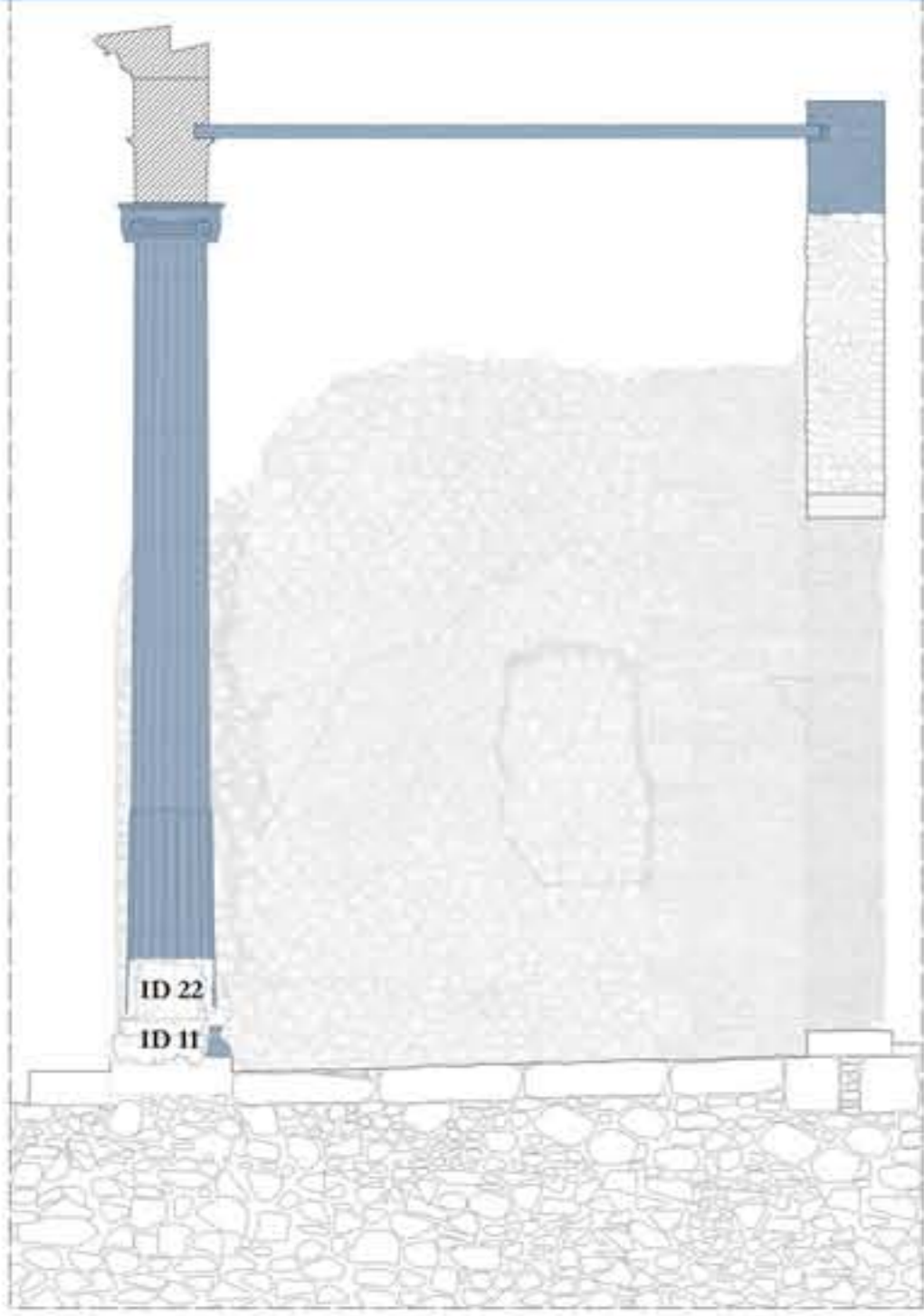
Thanks to cataloging and to the relief of all blocks present *in situ* the ID 11 and ID 22 have been recognized as part of one of anta base, restored in the past with a piece coming from a column block of reuse, but always coming from the Propylaeum.



Up: Reproduction of the restoration site in Nero's era

On the right: ID 11 and ID 22, in different Monge's representations

Restoration project



Section B-B' - Eastern internal front



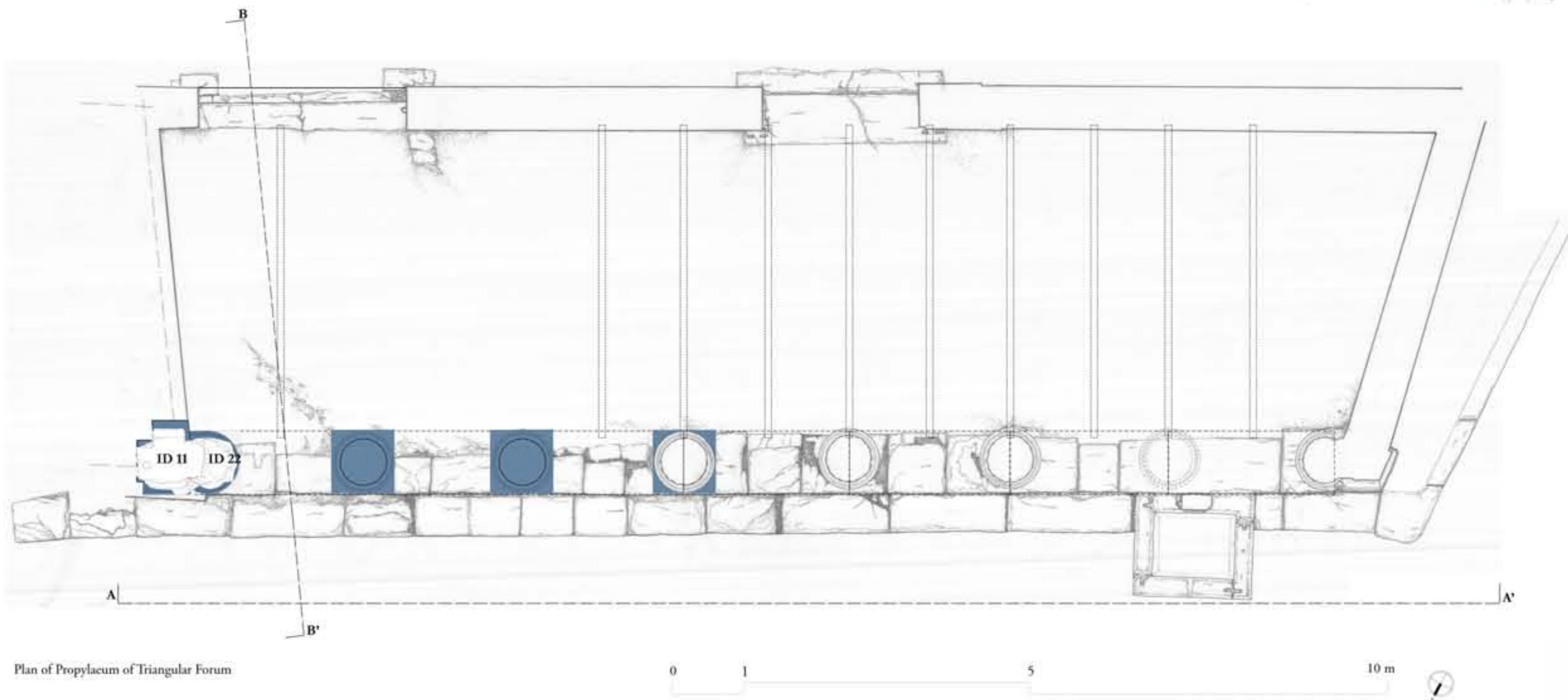
Section A - A' - North Front

SUGGESTION OF RESTORATION

It is to repropose the image of a restoration that would have been done in antiquity, replacing the cornices following the method identified and recombining the ancient anta's base, although it is considerably deteriorated, with its rochio of reuse.

In particular it will consist in:

1. Reconstruction of two intercolumns by 38 % of new blocks;
2. The original blocks are connected by simply avallment of cement mortar; while, for ID1, by titanium tenons of 6x6 cm of size, corresponding to original housing present on the block (6x6x5);
3. New blocks are connected by the same titanium tenons of the type used for ID1; differently, ID22 is connected to blocks of integration through pi greek braces and it doesn't present connection with above block, from which it will be detached of 0,2 cm (allowable displacement on the tip of bracket = 0,1 cm);
4. ID11, eastern anta's base, is preserved from heavy weight through a CP (Commercially Pure) titanium plate of type of grade 1 and size 44 x 279 cm, constituted by a trasversal section composed by a plate 1,2 cm high and by two overlying tabs and welded, 10 cm high and 1,8 cm wide;
5. Horizontal subfloor of new columns is guaranteed by construction of plinths that reestablish originating altitude;
6. On the back face of lintels considered in the restoration project, such as in those already present *in situ*, joists of section 8 x 13 cm are placed, embedded in originary housings (immediately above *epikranitis* with step of about 113 cm) which housed a planking of originating attic;
7. Reconstruction of a portion of wall in *opus incertum* with the purpose of reconstruct the back wall crest in necessary measurement for insertion of joists described above.



Plan of Propylaeum of Triangular Forum

The verification of the project

Sizing of the Titanium plate in degree 1

Allowable displacement		Calculation weight		
Displacement [cm]	Sp. weight [da/m ³]	Concio id	Vol [m ³]	Concio Weight [daN]
0,1	1600	c 01	0,14	0
		c 02	0,14	112
		c 03	0,14	224
		a 01	0,38	0
		a 02	0,55	880
		C 01	0,7	560
		C 02	0,61	488
		C 03	0,45	360
		C 04	0,41	328
		C 05	0,41	328
		C 06	0,33	264
		C 07	0,59	472
		tot	4,85	4016

Material				
E [daN/cm ²]	I [cm]	B [cm]	q [daN/cm]	J [cm ⁴]
1085000	55	44	91	962

Nervate section					
J _x [cm ⁴]	B [cm]	s [cm]	h [cm]	N [adm]	i [cm]
977,61	44	1,8	10	2	4,67

Rectangular section		Real displacement	
H [cm]		[cm]	
6,40		0,10	

