RAPHAELIS FABRETTI Orbinatis de Aquis & Aquis & Aquis & Aquis & Romæ Dissertationes tres in Quarto Romæ, 1680.

The first Discourse of the noble and ingenious Fabretti represents the Art and Grandure of the Aquadultus Alexandrinus, which taking name from Severus the Emperor, as Spartianus assures, runs obliquely for a good Foundation, yet lostily, in most places upon an Arc LXX. soot high, through Procoso di Pantano between the Via Labicana and Pranestina, hard by the noble Sepulcher of the said Emperor and his Mother, unto the Vineyard of the Carthusians in the City, at 14 miles distance from its Fountain. The Dust or Species is 2½ foot broad, 4½ high, and thick in the sides 2¼, admitting in divers places an Aperture or Breath-hole made of Tophus 2½ foot square: and is susteined by square Piles of Brick, 8 foot thick, well cemented and inwardly polisht; and cover d with an Arc of the same matter 12 foot over.

2 The second Differtation, which treats of Aqua Marcia and Claudia, is opportunely prefact with the measure of the Old Roman Foot: which this Learned Italian afferts to be the Pes Capitolinus, that L. Puetus procur'd, more than an hundred years fince, to be exprest on a marble Table in the Capitol, together with the Roman Palm of nine inches, and the Canna Arobitectonica of ten Palms, and the Decempeda or Rod of ten Foot. Our Author comparing the two last together, found the Medern or Architectonic Palm to make near 9 in inches of the Ancient Roman Foot, the Canna Architectonica reaching to 73 Feet of the old Decempeda: and confequently that a Roman Mile, or 5000 Foot, contains near 660 1 of the modern Cama; not 667 Canna, as L. Holstenius estimates in his Discourse De miliario Zureo, mistaking the modern Roman Palm for just 3 of the Antique Roman Foct. Much less will 650. Cannie of the Later Surveiors extend to the length of an old Roman mile, as L. Patus computed. But the measure of the Pes Capitolinus on the marbe Table foremention'd, (and not the Print of it p. 88 1. Pati de mensura, too scanty by \(\frac{2}{4} \) of an inch,) is sufficiently confirmed by three jounted Braff-Feet found in different places, and by feveral Bricks, carrying one Foot in length, and an half in bredth, taken up from the Ruins in Via Official and in divers other places.

Wherefore this Capital Foot ought to be preferred unto the rude Draughts on the Monuments of the ancient Architecte, M. Abuttus, T. Statilius, and (n. Cossutius; which last is taken for the very Roman Foot by the honor of our Nation Dr. John Greaves. Yet this as well as the Statilian, falls short of the Capitol-Foot by near & part of an inch, whereas the Abutian is about as much too large. Moreover the Villalyandine Module, argued loosely and inversly from the Content of the Vipasian-Congius, exceeds by 5 of an Inch the Capitoline or True Roman Foot: for to this do precifely agree, fays our wife and experienced Author, the numerous Patterns and Remains of ancient Architecture, that are daily dug up about the City. Soon after he gives a public Example of the Caritoline Foot, telling us it futes exactly with the 73. of those cxxv. spaces into which Villaly andus divides his Semicircular Instrument p. 3:6. Comment in Ezech. Lastly, the Foot which Ricciolus offers us for Roman in his Almagest. p 58 surpasseth the Cantoline by a full Digit, or 16 of the whole: and his other measure Geegraph. Reform. f. 34. by 18 part. But to return to our Aquaduct, highly extoll'd by Fliny, Plutarch, Arrian, Frontinus, and in this Clause of Projectius, Alernum Marcius bumor opus. This Water taking its name from King Ancus, and as deservedly from Publius and Quinius, in the same Marcian Family, of manison both real rejentison in Polum re repayintes, Orc. ariseth not from the Lacus Fucinus (whence Pliny and Statius would fetch it) but in the Croffepath between the Via Valeria and Sublacensis, two miles short of Carulus and Curtius, the Fountains of qua Claudia: but observes the fame Level with the Claudian; because it descends more precipitate from the Origine. Yet within 5 miles of Rome the Aqua Marcia runs 20 Foot lower than the Aqua Claudia. But at 7 miles distance from Rome, and at a mile and an half from the midway to Marino, as Fabretti after Frontinus exactly measur'd, the Aqua Marcia is both purified and moduled, by falling into, and foon after rifing up from a long square Piscina or Cistern, 6 foot deep, made of Flint, and cover'd with a Net work, by order of Hadrian the Emperor. Now the latter use of these Ponds or Cesterns, that sufflaminate the Current of the Aquaducts, is frequently taken notice of by Frontinus: so that Signior Castelli his belov'd Probleme, Ex velocitate aqua modum ejus variare, is not so new as he pretends.

[468]

2. The third Differtation concerning Aquaducts, the best Argument, by the confession of Dionysius, Strabo, Pling and others, of the Magnificence of Rome, remarques that of the tourteen Aquaducts which Proceeding found at the City in his time, ten are now quite lost; and the other four, namely Agua Crabra or Damnata, Trajana, Alexandrina, and Virgo much corrupted. The last so much fam'd in Antiquity, arising near Rivus Herculaneus, is derived unto Porta Flaminia at the length of LXIII. Acres or 3024. Roman Paces. For to the Ports of Rome, and not (as the Incomparable Holstenius contends) from the gilded Miliarium, the conducts of Ways and Waters are precifely to be estimated. Upon this occasion Signior Fabretti ingeniously acknowledges, against t'e Exorbitance of F. L. fins and others, that the compass of Rome (ambitus Urbis) by its Ancient Poris, should be reduc't in Plinies numbers from XIII, by an easie change unto VIII Miles: to accord to the the magnitude of Athens, which is the Affertion of Strato: as also to the limits of Dionylius, within the ridge of the Hills, the Timuli, the Tibur, and the Agger. Yet (Rom. amplitude) Rome taken with all its Suburbs. according to the same Pliny and to this Differentiator, made a wide Circuit of LXX. M.l.s. This in brief from the three Learned Discourses of Signior Raphael Fabretti.