

Doorways

NE corner

N. from 1.785 to 2.20

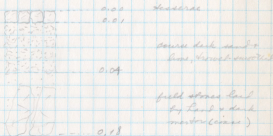
E. 2.20

SE corner

E. 2.775

S. 2.25

Mosaic: typical section



" colonnade rested on continuous stylobate wall "

Correction for Catalogue

C 609 - 5684 = not from S-18-K
I 321
as mistakenly done through an error in
tablet text. Photo 5236

C 600 - I 320 = correct catalogue
number = Photo 5239 = frag. of
marble relief with horse & rider
inscribed LAOYA.

South Apse trench 1. Surface.

29-6-39

POTS: Red varnished ware

Late C

Late D

Coarse ware.

Surface over NE angel.

9-7-39

1. c529-A349Frag. of carved marble slab with Geometric design. Photo No. 5145b
2. c530-A350: Frag. of carved marble slab with part of cross. Photo 5166b
3. c541-S648: Frag. of marble relief with headless male figure.
4. c542-S649: Frag. of marble figure with robed figure.
5. c543-S650: Frag. of marble relief with figure of apostle(Peter)
6. c544-S651: Frag. of marble relief with fish on one side and bincranium on other.
7. c545-S652: Frag. of marble relief with tigs
8. c546-S653: Frag. of marble relief with running horse.
9. c547-S654: Frag. of marble relief with Seashell.
- 10: c548-S655. 2 Frags of marble relief with figures a-b,
- 11: POTS: 2 Red varnished sherds.

Coarse ware

MARTYRION: SURFACE SOUTH END.

9-7-39

POTS: Sherds red varnished ware.

Coarse ware.

SURFACE EAST OF MARTYRION. 7-7-39

POTS: Few coarse sherds
 Late B, Late C
 Rim of small marble bowl
 Frag of revetment

MARTYRION, EAST END SURFACE, 9-7-39

POTS: Few sherds red varnished
 1 sherd late A
 Much coarse ware

ARCHITECTURAL FRAGS,

c512-A344: cross c513-S629: figure.
 c514-A345: carved c526-S363: Figure &
 geometric ornament. Greek key border.

SURFACE: 9-7-39

ARCHITECTURAL FRAGS.

c508-S628 :Frag. Part of body of Lion.
 c509-A342 : Running tendril.

SURFACE SOUTH END, 9-7-39

ARCHITECTURAL & SCULPTURE .

c505-S625:Frag. of marble relief with animal legs.
 c506-S626; " " " Human figure.
 c507-S627 : " Head of Christ.?

MARTYRION, SURFACE OVER SOUTH EXEDRA. 11-7-39

Sculpture frags.

c555-S656 : Precious stone
 c563-S660 : Figure of monster
 c564-S661 : Geometric ornament
 c565-S662 : ~~XXXXXXXXXXXX~~ Cross

SURFACE SOUTH EKEDRA

12-7-39

SCULPTURE:

- c566-8663: Marble relief top of amphora.
 c567-8664: " " with dolphin
 c766-8766: " " " bird (Eagle?)
 c814-8814: Cornice-piae, dentilated molding
 and volutes.

SURFACE SOUTH EKEDRA

13-7-39

ENSCRIPTION: c600-I 320 Greek inscription

SCULPTURE: c601-8678: Geometric ornament

c603-8678: Draped figure. Marble relief.

c604-8679: Marble relief with head of Lion

c605-8680: " " "body of animal

c606-8681: " " running animal

c607-8682: " " body of bird.

MARTYRION FROM SURFACE SOUTH EKEDRA. ~~xxxx~~ 14-7

SCULPTURE: c765-8765 Man picking grapes in
 rinceau.

ROCK PILE IN CENTER OF CHURCH.

14-7-39

SCULPTURE: c762-8762: Frag of marble relief
 with body of animal.

c762-8763: Frag of marble relief with Lion
 attacking antelope.

c764-8764: Frag of marble relief with epos i
 rinceau.

c687-I 329: Frag of marble slab with greek i
 inscription.

c751-8751: Frag of marble relief with man
 driving ass.

c752-8752: Frag of marble relief with 2 man.

c753-8753: Frag of marble relief with stand-
 ing figure.

c754-8754 Frag of marble relief with Lynx
 running in rinceau

O.K.
 SAYA

FROM ROCK PILE IN CENTRAL OF CHURCH. 14-7-39

- c756-S756: Frag of marble relief with ~~tail~~ tail animal.
- c758-S758a-c. Frags of marble relief with crawstep border & plants and animals in rinceau.
- c759-S759: Frag of marble relief with Lion attacking animal.
- c760-S760: Frag of marble relief with head of horned animal.
- c761-S761: Frag of marble relief with nimbed and draped figure.

IN EARTH UNDER ROCK PILE: 18-7-39

- c688-I 330: Frag of marble slab with Greek inscription.
- c689-I 331: Frag of marble slab with Greek inscription.
- c720-S720: Frag of marble relief with springing leopard.
- c721-S721: Frag of marble relief with dog springing to right.
- c722-S722a: Frag of marble relief with swimming boys.
- c723-S723. Frag of marble relief with forepaw of animal.
- c724-S724: Frag of marble relief with dolphin.
- c725-S725: Frag of marble relief with hand grasping object.
- c727-S727: Frag of marble relief with crossed human legs.
- c728-S728: Frag of marble relief with head of rabbit.

SURFACE EAST SECTION: 18-7-39

c700-S710: A371 Left corner of inner face of marble frieze block with figure of sheep.

c701-A372: Upper part & frag of capital.

FROM ROCK PILE IN CENTER. 18-7-39

c704-S711: Frag of marble relief with peacock(?) & stylized foliage.

c705-S712: Frag of marble relief with head and shoulder of angel.

c706-S713: Frag of marble relief with forepart of fish.

c715-S715: Frag of marble relief with walking male figure & tree in background.

c716-S716: Frag of marble relief with tail of dolphin.

c717-S717: Frag of marble relief with draped male figure.

c718-S718: Frag of marble relief with foot of quadruped.

c719-S719: Frag of marble relief with fish.

c726-S726: Frag of marble relief with hindquarters of animal.

c729-S729: Frag of marble relief with draped figure and floral border.

c730-S730: Frag of marble relief with draped figure.

c731-S731: Frag of marble relief with reclining animals. (?)

c732-S732a-b. 2 frags of marble relief with running lion.

c733-S733: Frag of marble relief with 2 men and dog.

IN ROCK PILE IN CENTER.

18-7-39

- c734-S734: Frag of marble relief with head of bird.
- c735-S735: Frag of marble relief with animal's foot.
- c736-S736: Frag of marble relief with drapes figure.
- c737-S737: Frag of marble relief with leopard in rinceau.
- c738-S738: Frag of marble relief with male figure in Phrygian costume.
- c739-S739: Frag of marble relief with drape
- c740-S740: Frag of marble relief with drape
- c741-S741: Frag of marble relief with body of ostrich.
- c743-S743a-b: 2 Frags of marble relief with running dog.
- c744-S744: Frag of marble relief with drape standing male figure.
- c745-S745: Frag of marble relief with nimbed head(?)
- c746-S746: Frag of marble relief with animal in rinceau.
- c747-S747: Frag of marble relief with horse
- c748-S748: Frag of marble relief with dog or leopard.
- c749-S749: Frag of marble relief with Architectural subject.
- c750-S750: Frag of marble relief with nimbed head.
- c755-S755: Frag of marble relief with armored horse.

IN EARTH UNDER ROCK PILE IN CENTER. 19-7-39

- c540-S647: Frag of marble relief with Greek key border & ox(?)
- c675-S695: Frag of marble relief with cross in double pearl circle.
- c676-S696: Frag of marble relief with leopard springing.
- c678-S697: Frag of marble relief with head of dove.
- c679-S698: Frag of marble relief with robed figure wearing pectoral with cross.
- c671-S691: Frag of marble relief with Greek key panel & 2 panels with figure
- c680-S699: Frag of marble relief with ostrich
- c682-S700: Frag of marble relief with body of animal(?)
- c691-S701: Frag of marble relief with body of animal
- c692-S702: Frag of marble relief with horse
- c693-S703: Frag of marble relief with part of human figure.
- c694-S704: Frag of marble relief with body of running animal(Dog?)
- c695-S705: Frag of marble relief with leopard(?)
- c696-S706: Frag of marble relief with shell
- c697-S707: Frag of marble relief with body of animal.(?)
- c698-S708: Frag of marble relief with head of figure holding club.
- c699-S709: Frag of marble relief with head of Christ(?)
- c742-S742: Frag of marble relief with Geometric border.

IN EARTH UNDER ROCK PILE IN CENTER. 19-7-39

- c784-S784: Frag of marble relief with lower part of draped male figure.
- c785-S785: Frag of marble relief with bird.
- c786-S786: Frag of marble relief with ~~xxxxx~~ feet of two draped figures.
- c787-S787: Frag of marble relief with draped arm, leaf & roundel.
- c788-S788:A379: Right inner corner of marble frieze block with reclining gazelle to right.
- c789-S789: Frag of marble relief with nimbed figure wearing pectoral with cross. On back part of relief with dolphin.
- c790-S790: Frag of marble relief with fisher scene(?)
- c742-S742: Frag of marble relief with Geometric border.

BEHIND APSE OF TRIBUNE: 23-7-39

- c672-S692:A368: Frag of marble frieze block with mountain goat resting beside pool.
- c673-S693:A369: Left corner of inner face of marble frieze block.
- c674-S694:A370: Frag of inner face of marble frieze block.
- c722-S722b. Frag of marble relief with swimming boy.
- c791-S791:A380: Left corner of inner face of marble frieze block with rabbit running to left.
- c792-S792: Frag of marble relief with eagle standing on head of ox.

BEHIND APSE OF TRIBUNE. 23-7-39

- c793-S793a: Frag of marble relief with bear attacking ox.
- c794-S794: Frag of marble relief with forepart of duck.
- c797-S797: Frag of marble relief with body of bird.
- c798-S798: Frag of marble relief with bumped buffalo.

BEHIND APSE OF TRIBUNE. IN WEST EXEDRA: 25-8-39

- c612-S686:A362: Inner face of marble frieze block with feeding sheep.
- c611-S685:A361: Frag of marble frieze block joined to c572-S669:A357

MARTYRION. SURFACE. 29-7-39

- c767-S767: Frag of marble relief with leg of mail-clad knight.
- c768-S768:A378: Inner face of marble frieze block with sheep(?) to left.
- c783-S783: Frag of marble relief with Architectural subject.
- c815-S815: Frag of marble relief with Sea-shell.

SURFACE NORTH EXEDRA. 31-7-39

- c769-S769: Frag of marble relief with three goats with one head.
- c770-S770: Frag of marble relief with dolphin.
- c771-S771: Frag of marble relief with draped figure.
- c772-S772: Frag of marble relief with cornucopia, dentil & valute border and figure of angel.
- c773-S773: Frag of marble relief with drapery of one figure and part of head of another.

SURFACE NORTH EXEDRA. 31-7-39

- c774-S774: Frag of marble relief with frag of drapery & acanthus shoot.
- c775-S775: Frag of marble relief with leaping goat. (?)
- c776-S776: Frag of marble relief with right foreleg of ox.
- c777-S777: Frag of marble relief with horse
- c778-S778: Frag of marble relief with forefeet of running animal.
- c779-S779: Frag of marble relief with sheep in roundal.
- c780-S780: Frag of marble relief with forepart of running animal.
- c781-S781: Frag of marble relief with drape joined to c819-S819:
- c782-S782: Frag of marble relief with basket-like objects.
- c823-A381: Frag of carved marble window grille.

SURFACE NORTHEAST EXEDRA. 2-8-39

- c670-S690a-d. 4 frags of marble relief with man combating wild animal and architectural background.
- c793-S793b. Frag of marble relief with bear attacking ox.
- c799-S799: Frag of marble relief with warrior wearing Phrygian cap and holding shield & spear.
- c702-A373: Capital of marble colonnette
- c703-A374: Part of capital of marble base of Corinthian colonnette.
- c800-S800: Frag of marble relief with foot of cloven-hoofed animal.
- c801-S801: Frag of marble relief with front feet of two animals.

S-20/21-J: MARTYRION. 11.
SURFACE NORTHEAST EXEDRA. 2-8-39

c802-S802: Frag of marble relief with nimbed
and bearded head.

c803-S803: Frag of marble relief with lower
part of draped figure walking to
right.

c804-S804: Frag of marble relief with leaf
molding and two human feet.

c805-S805: Frag of marble relief with column
and ladder of Simon Stylites.

c806-S806: Frag of marble relief with draped
figure.

c807-S807: Frag of marble relief with hind-
quarters of animal resembling pig

c808-S808: Frag of marble relief with dolphin

c809-S809: Frag of marble relief with hind-
quarters of animal.

c810-S810: Frag of marble relief with nimbed
head.

c811-S811: Frag of marble relief with top of
animal's head.

c812-S812: Frag of marble relief with head of
ox in rinceau.

c813-S813: Frag of marble relief with bird
~~standing~~ sitting in nest.

c824-A382: Frag of carved marble window grill

c825-A383: Frag of Corinthian Capital.

MARTYRION SURFACE. 4-8-39

c711-A375: Part of large window-blown
Corinthian Capital.

c713-A377: Corinthian Capital:

c MARTYRION SURFACE CLEANING UNDER WATER Level

c795-S795: Frag of marble relief with
roundel & head of bird.

c796-S796: Frag of marble relief with Sea
serpent.

Personal Diary Antioch 1939

Sunday, August 13

Arrived in Beirut from Famagusta on Greek steamer alongside 5/2 Excentron. Went to see Capt. Kurbas & Louis & paid Louis old tax bill + interest = \$2. Did town in evening with Kurbas, saw his boat off with Steac — whose girl May was sailing. Steac & I then to Cafe Francaise.

Monday, August 14

Awakened by Odette Laonenon & Capt. _____'s wife. Then saw Lassus who is here at the Metropole. Doubatly called & with him to Jesuit University of Beirut to see Père _____ about Byzantine Congress. Then to hotel for beer with Doubatly & Steve Lassus & all to Mt. for big beer beach with Capt. _____. Tight as a tick & barely make bus to train at Tripoli where had beer supper in sleeper: bed.

Tuesday, August 15

Aleppo in bright white Aug. light, heat with hangover. Town dead. Car to Antioch. Vichy water & gitters. Home looked good — Selencia Symposium cemented & in view. Unpacked & slowly came to life but weak & gittery & saw vision at night.

Wednesday, August 16.

Pulled out of tail spin & went severely on wagon & began daily g.T.s & conferences. Organized program for division. Took up matter of division with Ruki Tekan new director of Antioch Museum. Also called on Vali & French consul.

Thursday, August 17

What must be accomplished =

Division: something difficult & definite every day
French consulate & questions of permit for
drivers after division.

Martyrion finish & paper for Cong. Congress
Finish & close field work, reports & letters
Pack up expedition. To French consulate.
Message to have confidence but not to forget in
good fortune.

Friday, August 18

Arranged for Elidden's departure with
them; saw Teken; division stalled in Ankara
Telephoned American Embassy & sent long
telegram to Ambassador M^r Murray.

Finished letter to C. R. Mery about whole
situation. Strong guidance

Saturday, August 19

Continued routine work awaiting
M^r Murray's reply.

Sunday, August 20

Unsatisfactory telegram from M^r Murray.
Ept Salamis socket in order. To Selucia

Monday, August 21

Called news of accident & plans to C. R. M.
Wrote plans to Scarpis, Ira, Miss A. &
Determined to stay here at all costs & finish
the job (i.e. division), then take air plane
Tampali - Paris & then Queen Mary.

Made division of sculpture

Tuesday, August 22

Made division of all material, finishing
with mosaic division in afternoon.

Wednesday, August 23

Became convinced that it was necessary
to go to Ankara to see division through.
Saw French consul & departed via Alexandrette.
Elidden to train with me.

Thursday, August 24

Breakfast on train, to Embassy to leave note, then to Hotel Ankara Palace, then to Foreign Office where had first interview with Terikun Erkin, then to Ministry of Education where had first interview & met Dr. Hamit Kozay & with him to his office. He very antagonistic to excavation & whole idea of diversion. All this before noon.

Then got in touch with Embassy, called Joe Brent, called at French Embassy.

Dinner with Embassy appeared as Mr. Spicer in a sally described joy spot. Friday, August 25

To Foreign Office in great huff over Kozay & raised a ruckus, including Fr. Embassy in our behalf. To Kozay's office but he out & attitude cold. In despair. To Temple of Augustus at 2:30. On return had obsequious telephone call from Kozay. Pressure from Foreign Office worked. He most courteous & sweet & took me on sight seeing tour of Ankara & said he & his assistant Romeo Ark would go with me to Antioch to see excavation & make diversion & that all would be sweet between us. We made our Wagon Lits reservations & then he took me to School of Archaeology & their excavation of a Roman bath & then to Museum & Hall Evi. I in high state of elation & thanksgiving.

Called Joe Brent to give him dope & asked him to send information to C.R.M. by cable. Brent informed me that war imminent & may break in 3 or 4 days. Called Am. Embassy & said good bye to excellent chap in Fr. Embassy. Then to dinner where much was expounded in subdued dining

Room. British worried about last train
to Europe. Packed & to station early where
met Romai Erbe on ship & recognized him
as its sly power & obstructionist behind
Kazay. Long visit with them in Hotel
Then train to Alexandretta.

Saturday, August 26

En route, lunch, changed trains. No
car at Alexandretta & took taxi after
waiting in cafe, arriving Antioch at
dinner time. Departed Turks at
Hotel & then to stores. Telegram asking
for car had not arrived.

Sunday, August 27

Sight seeing tour of Amuk in A.M.
Selucia in P.M.

Monday, August 28

The big day. Turks visited F.H.Q., had
division.

Tuesday, August 29

Finished signatures & all its business
with the Turks. In afternoon sorted
photographs & packed own material.

Wednesday, August 30

Took Turks to 13-R & then bid them
good-bye. They promise permit of export at
once, having telegraphed Ankara for same.

Thursday, August 31

Packed & made all ready for departing
division worried about good faith of
Turks in sending immediate permit.

Friday, September 1

Very worried about permit. Called on
Veli about same & then sent telegrams to
Fribun, Am. Emb. & Hermit Kazay.

Saturday, September 2

Morning of despair & then felt confidence that
will get division on Beirut & arrive home O.K.
Worked on Madisonian lectures for Reg. Congress but
strong feeling there was no more.

Sunday, September 3.

Good work day in Delancia, returned in mid afternoon to late dinner & found that war had started. To 15-M, finished up; then telephoned Palmer in ev. who told me about war & got me place on SS Escalibus sailing Sept. 10. Had me relay message to Mrs. Grant sailing on same boat with her children.

Monday, September 4 thru Wednesday.

Crined up wires desperately about division permit, but no results.

Thursday, September 7

Called on Vali, finished packing, left Antioch with truck full of records a little after noon ^{3:15} with Adib; George Salata driving. Arrived at Latakia in evening & saw big John who was running Latakia Hotel.

Then ran into war regulations & spent long time getting permits to travel & lists blue over for blackout regulations.

Then on in difficulty with poor lights, all bridges guarded; late supper at poor Arab restaurant at Banias; Tripoli at 1 A.M. & sea. Then long pull to Beirut with George falling asleep at wheel. Finally arrived at Hotel Metropole in blacked out Beirut at 3 A.M. but guard there & Hotel closed & I was in concentration camp. So to Beirut Palace with Adib. Slept few hrs. poorly.

Friday, September 8.

Up, shaved off mustache, much business & business with Palmer & Debbas.

Saturday, September 9.

Palmer called with cable from Am. Env. Ankara that permit had been granted. Great relief & quiet evening in Thanksgiving.

Succeeded after 30. difficulty in getting our stuff on boat.

Sunday, September 10.

Last minute stopping in A.M. Farewell cocktail party to consulate at St. George at noon. Late lunch with Adit & Hank Pearson at Australian Bar. Farewell to Jolly's & Mairne at English Club. Then to yacht where greeted Mrs & Gene Kelley. Visited in evening after sailing with Mrs. Brent.

Monday, September 11

Nelson Blauck boarded boat at Harfa.

Tuesday, September 12

at Ales. with Ira & Bill Farrell.

Then in Beirut Thursday? with Nelson, Ira and finally

Saturday, September 16

Cable from Adit that all division safely in Beirut.

on mosaic floor. On other hand original inhabitants may have purposely drained the kitchen in this way so that kitchen could be scrubbed down & running water from contact in kitchen continued flowing through door until Judeism cleaned as well.

Bitrus

E Wall: Rubble which has almost been entirely ripped out except for few stones which are set in mortar of fine ^{black} sand & white lime. Rest on rock cut.

S Wall: Small section (.60) at SW corner is more cut. Rest seems to be a steeper wall of large untrimmed rubble to the uneven edges of which the mosaic pavement of room 3 comes & on section of the edge of the pavement of room 4 also ~~comes~~ comes out over the edge of the rubble fill forming an uneven ~~to~~ edge to the pavement. ~~This wall may have been a) steeper wall of the rubble & on it a platform of some sort. The rest of possible glass is section of live rock cut with 2 vert. dowels $\frac{07 \times 01}{07 \times 01}$ at $\frac{07 \times 01}{07 \times 01}$ edge~~

W. Wall is rock cut on sloping mountain side. 2 holes in rock seem to have been filled with rubble.

3-17-F, House 1. Revisited

House 1

Room 4

+1.82
approx. N.W. corner

+1.85 a
N.E. corner

1. W. wall = Rock cut, opening for water to masonry
N. end of W. wall 9' narrow drain
for same in rock cut floor at
middle of W. wall.

3 E. wall = Partly rock cut with few rubble fills
where rock crumbled
Rock cut stoop of entrance into Room 5.
Also level section at top of rock cut
and for archway or simply as footing
for rubble wall to rest on.

2. S. Wall = N. wall of Room 1

+1.82 from 1. N. Wall = Rock cut. Fill in arched section = .58 under rubble
L-shaped for sand + lime as S. Wall Room 3.

Room 5

N. wall = Rubble + mortar of black, finely sifted
sand + lime giving gray color like success
paper. Exactly same mortar as to
S wall of Room 3; in construction of
bed for mosaic of Rooms 1, 2 & 3
as indicated in sketches of construction.
This rubble wall is ^{found at +1.82 level} ~~found only at +1.82 level~~ ^{at +1.82 level} ~~found only at +1.82 level~~
wall is rock cut to height of .72 above
rock cut floor + .62 water.

E. Wall = Destroyed except for small section at N.W.
of Room proper
i.e. not counting
entrance vestibule
with rock cut
drive.
and where partly rock cut & partly rubble
This rubble wall preserved in only small
section but it is set in mud and at
some time makes bond with rubble
section of E end of N. wall which has
the typical gray mortar. This gray
mortar so far seems to be used only on
the N & S sides of the Room & under
mosaic pavements - i.e. in places where
run off water from masonry make
strong water proof walls necessary &
under pavements where dryness desirable.
On E & W walls where rain to flow
of run off water & exposed to sun &
street's necessity of waterproof wall
was not so pressing. Hence maybe an
indication that mortar walls were
approved substituted mud wherever could
Width of wall = .78 x .15 above
floor of Room

Of this
mural Room 1.

Room 5 (continued)

S. wall & rock cut footing only preserved = 57" wide and c. 2/3 at highest preserved points. A wide section at W. end cut down as for sill of a window = 1.51 wide. This cut down section is over the small ~~and~~ natural cave in N. wall of Room 6.
W. wall = E. wall of Room 4.

Floor roughly leveled by cutting in rock cliff. Only this low rock remains. Natural hole from bottom to natural rock cave below.
Possible use = sleeping room.
Less probable = court since area behind (or) could have been used for this & not enough sleeping room. But good argument for court = steps to entrance vestibule to E.

Sketch of Room 5 to show NE corner at



gain of N. wall & E. wall, with entrance vestibule to E. steps down cliff here where all construction lost. Step three very thick E. wall of building = 1.9 m. wide. No clear indication of street level at entrance to vestibule preserved. What may be indicated is NE corner just to N of entrance corner limestone remains set at meter on ground, cut off at -22 from top of ground. Set off = 24 m. Below foundation set off as another course of masonry but rubble to -40 from top of ground after which foundations are no more. Building opposite has a base of foundation set at +2 +40 from street or ground. Dimensions of preserved stone in vestibule from top to last preserved cut in rock: 1.9 m. wide, 1.22 m. high.

Cliff to that preserved wall of N. wall 1.22 m. steps down. Study

Entrance Vestibule: N. wall = where then W. wall of Room 5, at N.W. corner = ca. 1.02 m according to best preserved indications. Mud + rubble + blocks with rubble masonry behind (N) of it. Steps down rock cliff where lost to NE corner of bldg. which is still small preserved. NE corner = 1.22 wide at E. face along N-S street where corner gains of quadrated limestone still preserved. These are roughly L-shaped: 2.8 x 59 x 1.22 & all set on edge. Set in characteristic fine flag pink + lime but set on rubble & mud foundations. Hence another idea about construction. Characteristic mortar used throughout in superstructure but only occasionally in foundations where mud masonry used.



SW Dock Vault = masonry vault. (Mercury actually found at S. junction.)

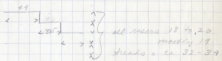
1

over

Front N section of dock pier is heavy limestone masonry for distance of ca 5.15 m from front. Beyond this joint support for vault is rubble & cement and of which rest of vault constructed. Masonry of heavy limestone crsd. is too cracked & eroded for accurate idea of original constn.



heavy limestone masonry
not clear for
limestone
eroded



treatment of cement joints at back of each tread for water proofing so water will not get into masonry vault & seep from top of face. to water.

heavy limestone pavement at top well laid but very cuts of paving blocks & big joints or just eroded.

Back see wall ripped out here.

late rubble & mortar const. not related. Cutting in top of big masonry wall to

N. -06.

On docks:

Is there diff in water level between masonry dock & vaulted dock?

~~Is the ceiling at top of masonry dock for gang plank~~

how does width tie up with ancient slips?

~~Is S. dock the end of the docks? Hence steps down to water edge?~~

NE Vault of dock

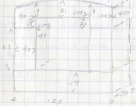
Built against face of ~~old vaulted~~ sea wall construction with sluice in center of dock vault of vault. Dock vault ~~bonds~~ in with sea wall as a butt at same time. All vaults are barrel vaults. Dock vault constructed of rubble + broken building debris of marble, limestone, serpentine. No trace of infacing.

V

Harbor wall

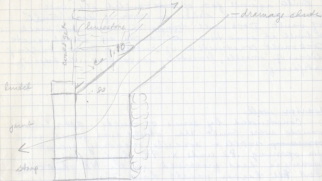
Constructed by series of vaults. After barrel vaults were built the shell was fixed with ~~massive~~ rubble + concrete masonry except for opening .82 wide x 9.8 high. This opening is still preserved in the NE vault. But all harbor vaults have them.

Opening is formed by stone lintel short section of which forms joints on each side. Then joints of roughly quadrated limestone blocks + sloop of limestone block.



Taking top of sloop as a base structure. The top of the sloop runs back flat for 70.5 m. There are vertical face of rubble to height of .62 m. From top of this vertical face of rubble a sloop chute runs back on a sloop gradually to the top of the ancient ground level. Hence is a drainage chute to the sea. The harbor level of the sea came to top of sloop in opening as indication by ancient water line. At inside of (opening) the joint (N) is round

hole at right joint is also hole so perhaps these drainage chutes could be closed. (4)



to monitor from mortar + polycryst. etc.
 Top of NE Deck Vault a level with pour of rubble
 & concrete ca. .20 thick in 2 layers.

concrete .20
 rubble concrete a level .20
 rubble & gravel of black stone + lime.
 smooth
 concrete
 sidewalk

rubble + concrete
 construction of
 vault = tile or brick
 raised and frog
 rubble inside
 chertman etc.

Harbor vaults 2

These exposed are badly weathered but some is well preserved. On under NE Dock vault on level with tops of groups of vaults is course of masonry limestone blocks which have some sort of cutting & trimming as water portals & Market Gate. Some reused. Above this course was another course of masonry which has since been plundered. Behind this course is a row of reused limestone blocks some with base mouldings as of column bases, all sizes & shapes some trimmed & some rough. A sort of sea wall parapet of reused limestone building material. Cutting on limestone covered masonry at top of vault as recorded on A. A. S drawing.

Material of vaults:

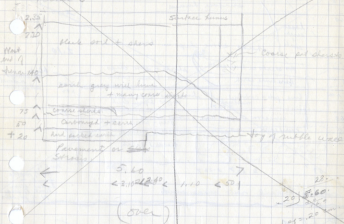
- grey & white coarse grained marble sc. frag.
- Serpentine cal. frag.
- Serpentine recediment or pavement
- white & grey marble recediment
- White marble frag. of cal = smooth.

Harbor vaults & above parapet wall some latest period of habitation during which much even building material of IV cent? to judge from parapet. An parapet may have been V cent. addition on top of IV cent vaults.

Part 1

Investigation against Portal wall just NE of Portal 5

Portal 5



Portal 2

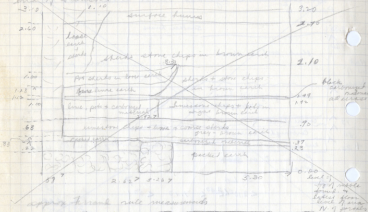
Foundations + superstructure + early night structure
 same as Portal 1. Foundations are off on line of
 portal are really massive regular - 22x22

I, 4.

It transverse wall also has large found set off 25 to 27
 & this steps out over a large flat found. wall
 into portal. However, note the transverse later
 wall is foundation of later phase wall which in
 contemporary of later phase wall. Some time
 far back of transverse S. wall (look at top of plan)
 Long foundation wall 11' wide under later
 rubble wall 11' to portal wall. But that found.
 of sets back it is not exactly 11' to portal
 wall but runs in toward it at 2' angle. To make
 structure appear to this under remains to Portal 1.
 Big cell. near large cell in front of original portal
 structure.

Portal 3 - same - except for later stone wall
 so almost missing out portal wall. 2' from?
 however extended 4' back to 70' over it.

Stratification Against Portal wall at SW end of trench.



Portal 4

Remnant of lowest level of habitation preserved & left in place since we have complete below pavement record in front of Golden 4 portals.
 Typical dimensions = $.525 \times .525 \times .06$
 Sometimes cast in mold $.61 \times .92 \times .06$
 ref. to cross base like $.512 \times .58$
 Typical Syrian masonry \rightarrow

Covered basin

Portal 5

made same - 2 late transverse walls
 2 corning. p.
 covered basin at rear N. of portals
 basin in front

Pavement is heavy of black basaltic of dent + lines + shanks - at least 35" probably more.

Portal / Corridor

West of steep which was also foundation of the
in question.

Foundation consisted of course of ^{single} large L. blocks
44 x 71 x 2.

Selected door jamb set directly in line with bottom
course which is also door stop. Stone masonry
formed a roughly finished (unfaced) wall
about 20" wide with deep 60% spaced hollow
(which) or hole apparently at 4" center.

Below foundation course was foundation
course filled with rubble & laid in order of fine
dark sand to fine medium grey in color. Rubble
very irregular in size, roughly squared &
irregular in shape, greatest width of set-off
between rubble face & limestone face below
is 26" maximum. Rubble foundation is ~~in~~

Building in with this rubble foundation of
the portal wall are rubble masonry foundations
which run out at right angles from
the portal wall just under the pilasters. These
run out to but do not touch wall with
heavy rubble & mortar parallel to rubble
foundation of portal wall.

The foundation walls at right angles & bonding
with rubble foundation west of portal is at
same level. One probably goes out to the
west a rubble wall foundation for sleeper
wall on which was a colonnade in front of
portal wall with cols. opposite to pilasters of
portal wall. However, longer rubble wall
now to the portal wall is connected to a greater
length that rubble wall at base (about 130 m)
& does not touch. Problem of whether this large
rubble wall is found of original colonnade
cannot be solved until removal of later walls
every part of the large rubble foundation wall.

Under steep on the S.W. of it is small section
of rubble wall on series of red rock which does
not bond with any of the other walls so it
is related in any way with them.

~~Above all rubble foundation walls is a late
wall of rubble construction but not
for foundation which runs along front of
columns with spur walls at R.R.
across to gable wall in front of alleys.~~

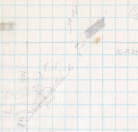
~~Puddle is broken limestone + reused but
roughly of usual limestone blocks + field
stones + bricks in light sand + with lime
mortar, white color + hard + undisturbed.~~

~~This is latest period of habitation when
portal was filled with reused masonry,
2 sections of arched brick? +
limestone rubble, these gable number
wall at this time not used as an entrance
to anything but as small shop or dwelling
probably a shop since there are some
of them ~~seen~~~~

~~Behind gable walls debris of
collapsed building fills area almost
up to modern ground level. Hence
buried area of city by time of this late
period of construction must have become
a shambles filled with collapsed
masonry (see p. 7 + 58?) + people
rebuild in only place open to them
this columned structure
with colonnade in front of it which
probably faced an open court (close
to the sea?)~~

~~Masonry of superstructure: Surface
badly eroded but seems well dressed
and some cutting, facing of it with
large blocks of heavy limestone blocks
of regular courses, some
of irregular courses + cutting of
substantial stones to fit together where
course lines are broken, well quadrated
& with regular faces but not
dressed to a smooth face + marks of
stone edge left. Edges fit close
+ with no binding material nor
mortar~~

16 D/R (1).
 Calcula. of gullies and
 Cuts



$$\tan \alpha = \frac{104 - 100}{110} = \frac{4}{110} = 3.636\% \quad \underline{\underline{11' 50''}}$$

$$\tan \alpha = \frac{110}{110} = 100\% \quad \underline{\underline{45^\circ}}$$

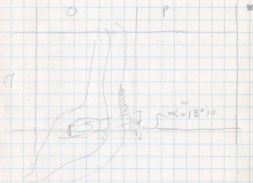
$$\begin{array}{r} \log 8.14 = 0.9136241 \\ \log 8 = 0.9030900 \\ \hline 0.0105341 \end{array} \quad \begin{array}{l} 10' 51'' \\ 10' 10'' \end{array}$$

$$\begin{array}{r} \log 1.12 = 0.0492183 \\ \log 1.14 = 0.0569047 \\ \hline 0.0076864 \end{array} \quad 45^\circ \text{ B}$$

So, please send me

Surveying notes

Study for location of Frank in 1920
(Haarlem Michigan)
1937



length of Frank 100 miles
width 12 miles

Plotted
in pencil

175
1937

List of Plans sent
to Princeton.

July 29, 1957

Plans of Antioch 1932-1936. T.P.

" " Daphne " " T.P.

Antioch & Daphne — — T.C.

Field Drawings

Antioch. 20-B 63, 6. N.P.

Daphne

D 28, D 29, D 30. N.P.

D, 20, D 21, D 22, D 22 T.P.

T.P.

①



②



③



④



⑤



⑥



⑦



⑧



⑨



⑩



⑪



⑫



⑬



⑭



⑮



11/2

11/2

11/2

11/2

11/2

11/2

11/2

Uranium

16



17



17



18



19



20



21



3 rows in behind
3 rows in front

22



23



24



25

26

~~27~~

~~28~~



29

30

31



32

~~33~~

~~34~~

35



36

37

~~38~~

39



48



no. 48

49



40



45



46



47

43



42



44



40



39



40



41



42



43



44



45



46



47



48



a



b



c



d

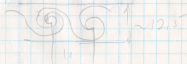
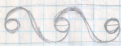


e

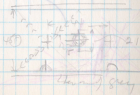


f





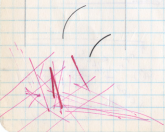
10



1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

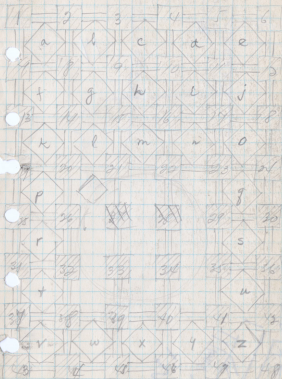


150 -



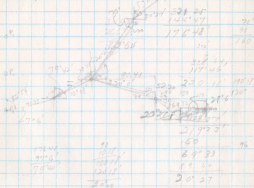
Mosaic in 10-Q.

Used to that of being



Calculations of cross-section in Siphon

April 3, 1937.
NAPKICOL No. 1001



$$\sin 7'6'' = \frac{x}{71.38} ; \quad \log 71.38 = 1.8533940$$

$$\cos 7'6'' = \frac{y}{71.38} ; \quad \log 71.38 = 1.8533940$$

$$x = \frac{10.9454177}{1.8533940} = 5.8819$$

$$y = \frac{9.9966570}{1.8533940} = 5.3950$$

$$\log 10'11'' = 9.2523729 \quad \log 10'11'' = 9.9929824$$

$$\log 75.02 = 1.8751771 \quad \log 75.02 = 1.8751771$$

$$1.1275500 \quad 1.1181153$$

$$776 \quad y_1 = 13.41 \quad y_2 = 72.81$$

$$i. \text{ Coordinates of } S_1 = y - 8.82$$

$$x = -70.80$$

using asurf

$$\underline{\underline{P_3}}$$

$$S_0 = y - 8.82$$

$$x = 70.80$$

$$\begin{array}{r} 13.41 \\ - 22.53 \\ \hline \end{array}$$

$$\begin{array}{r} 73.81 \\ - 144.61 \\ \hline \end{array}$$

$$\begin{array}{l} \log \sin 20^\circ = 9.534857 \\ \log 144.61 = 2.157205 \\ x = \underline{\underline{144.95}} \end{array}$$

$$\begin{array}{l} \log \cos 20^\circ = 9.972958 \\ \log 104.41 = 2.018705 \\ y = \underline{\underline{98.104}} \end{array}$$

$$\underline{\underline{S_0}} \quad y = 22.23$$

$$\begin{array}{r} 91.10 \\ 120.33 \\ \hline \end{array}$$

$$x = 144.61$$

$$\begin{array}{r} 144.95 \\ 189.56 \\ \hline \end{array}$$

$$\underline{\underline{S_1}}$$

$$\begin{array}{l} \log \sin 20^\circ 21' = 9.5411246 \\ \log 20.88 = 1.3197205 \\ x = \underline{\underline{10.58}} \end{array}$$

$$\begin{array}{l} \log \cos 20^\circ 21' = 9.9855004 \\ \log 21.86 = 1.3397305 \\ y = \underline{\underline{18.00}} \end{array}$$

$$S_1 = \begin{array}{r} 120.33 \\ 10.58 \\ \hline \end{array}$$

$$\begin{array}{r} 189.56 \\ 18.00 \\ \hline \end{array}$$

$$y = \underline{\underline{130.91}}$$

$$x = \underline{\underline{207.56}}$$

S3

$$\begin{array}{r} \log \sin 30^\circ = 9.6989700 \\ \log 100000 = 2.0187005 \\ \hline 1.7176705 = 3 \\ \underline{52.20} \end{array}$$

$$\begin{array}{r} \log \cos 30^\circ = 9.9375116 \\ \log 100000 = 2.0187005 \\ \hline 1.9562121 \\ \underline{90.41} \end{array}$$

$$S_3 = y = 22.23$$

$$+ 52.20$$

✓

$$x = 144.61$$

$$\begin{array}{r} - 90.41 \\ \hline - 235.02 \end{array}$$

✓

S4

$$\begin{array}{r} \log \sin 20^\circ 27' = 9.5438103 \\ 20.89 = 1.3197805 \\ \hline 10.8635908 \\ y = \underline{72.95} \end{array}$$

$$\begin{array}{r} \log \cos 20^\circ 27' = 9.9712591 \\ 20.89 = 1.3197805 \\ \hline 11.2910396 \\ x = \underline{19.56} \end{array}$$

$$\begin{array}{r} y = 29.97 \\ 19.56 \\ \hline + 9.53 \\ \hline \hline \end{array}$$

$$\begin{array}{r} y + 32.07 \\ \hline 72.80 \\ \hline + 103.30 \\ \hline + 37.37 \end{array}$$

$$\begin{array}{r} x = 235.02 \\ 19.56 \\ \hline - 254.58 \\ \hline \hline \end{array}$$

S5

$$\begin{array}{r} \log \sin 28^\circ 06' = 9.6730319 \\ \log 20000 = 1.3010300 \\ \hline 1.6627219 = 11.55 = x \end{array}$$

$$\begin{array}{r} 20000 \\ 90^\circ \\ 20000 \\ \hline 11.55 \\ 40^\circ \\ \hline 11.55 \\ 10^\circ \\ \hline 61^\circ \\ 20 \\ \hline 81^\circ \end{array}$$

$$\begin{array}{r} \log \sin 28^\circ 06' = 9.6730319 \\ \log 20000 = 1.3010300 \\ \hline 1.3352319 = 21.40 y \end{array}$$

$$\begin{array}{r} x = 20000 \\ 11.55 \\ \hline - 276.13 \end{array}$$

$$\begin{array}{r} y + 37.37 \\ \hline 58.77 \end{array}$$

$$\begin{array}{r}
 \log a \quad 12 \quad 48' = 9.242111 \\
 34 \quad 53 = 1.289692 \\
 \hline
 10.531803 \\
 \underline{54.84}
 \end{array}$$

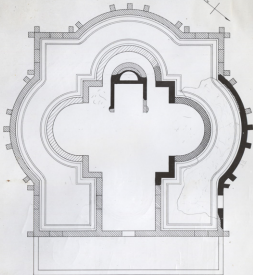
$$\begin{array}{r}
 12 \quad 49.999974 \\
 24.53 = 1.289692 \\
 \hline
 1.271768 \\
 \underline{23.92}
 \end{array}$$

$$\begin{array}{r}
 \underline{\underline{S}} \\
 2 \quad 242.32 \\
 + \quad 23.92 \\
 \hline
 - 266.24 \\
 \hline
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 4 + 49.83 \\
 - \quad 5.43 \\
 \hline
 44.10
 \end{array}$$



[Faint, illegible handwriting in pink or light red ink, possibly a signature or date, located in the bottom left corner.]

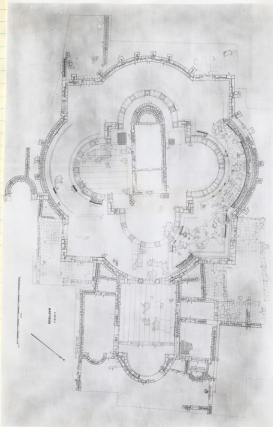


S-20/21-3

TEMPORARY RECONSTRUCTION



[Handwritten signature]



SEATING
PLAN

5561

Patriarch Macarius in 1652 saw in Seleucia the church of the first woman martyr, *Sct. Thekla*; her body is buried there.

Theophanes A.M. 5983 p. 135
"Church of *Sct. Thekla* existed in year when Palladius was bishop." (A.M. 5983 in Theophanes' chronicle of the year 71 = 491 A.D.)

Index of Christian Art - *Thekla of Seleucia* c. 548. *Saint* (Nov. 20, 30) *Memorial* *Martyred* with *Anne of Seleucia* & others. Buried in Seleucia. Often confused with *Thekla of Iconium*.

Thekla of Iconium (I-II cont.)
All its acts of *Sct. Thekla* are fabulous. According to Tertullian, they were composed by an Asiatic priest to do honor to *Sct. Paul*. *Sct. Jerome* held them as apocryphal.

From *Petite Gallandistes*. Vol. II. Sept. 23.
Thekla, daughter of pagan parents in *Iconium* in *Lyconia*; the wealthiest & most desirable girl in town, engaged to be married, but renounced contract & took Christ as her eternal spouse. Sold her jewels in order to bribe jailer to see *Sct. Paul* in jail in *Iconium*. *Sct. John Chrysostom* (d. 394) wrote or preached that *Thekla* gave her jewels to see *Sct. Paul* while his hearers had not the courage to give an obol to see *Glens Christ*.

Thekla then followed *Sct. Paul* to *Seleucia*

where a native of its place tried to kiss her in its street & she tore its clothes off his back. The man accused her before its governor, and she was put to fire at its stake, but a great deluge put out its flames. Then she was exposed to beasts in its amphitheatre, but they would not touch her. The next day she was tied to bulls to be torn to pieces but the ropes broke. Then she was thrown into a ditch filled with serpents but remained unattached. After that she jumped into a pond filled with seals & dolphins to baptise herself. All the sea monsters in the pond died unless she jumped in.

St. Zeno of Verona (4th cent) wrote about its detail episode, & when her deliverances moved its people of Antioch (sic) gave her an audience ^{hearing} in which she said she placed all her confidence in Christ. The governor freed her & she hurried after St. Paul. Later returned to Salencia where she converted many to its faith. Finally she retired to a cave on Mt. Calamon where she died at age of 90.

In art she is represented amongst other scenes as

- 1) seated in an area & surrounded by wild beasts sleeping or reposing around her.
2. placed in its middle of a fish pond.

Consult:

Repertoire des sources historique du moyen age, Ulysse Chevalier, Paris 1907 (Picard) cols: 4401-4402

Referred to as a Ruby Saintmarys.

(2)

Papal Bullardictes concerning her cult:

Cult is very ancient & illustrious. St. Gregory of Nazianzus (d. 389) went to Seleucia as an act of devotion to visit her tomb. Saints Marone & Agra, recluses at Berea in Syria (both women died ca 445) went to visit the church of St. Thekla in Seleucia.

Pilgrims came from all parts to Seleucia where God performed great miracles. At the 7th Ecumenical Council the Bishop of Seleucia raised her tomb.

Martyrs in torture prayed to God to deliver them as He did Thekla from fire, beasts & other torments. Her deliverance figured in prayers & it also figured in the services prayers of her church.

Zeno, Emperor of the East (474-91) built at Seleucia a superb temple in her honor in recognition that he had recovered the empire by her help.

Thekla's body first buried in Seleucia; now in the great Cathedral of Ferragone dedicated to her name.

Reck "She is certainly an important figure judging by the 4th c. references to her; the 5th c. was one of the two recluses" - "Had a shrine before Zeno's church, as might be expected." Look up his reference for this.

Stands in high honor by church = placed immediately after the Apostles

of Christ. Called the first spiritual daughter of St. Paul. She was the first female martyr (or rather new martyr). She is the apostle & evangelist of her sex.

Look up:

Church in Hadrian's Atrium, Aileus

P. B. S. Rome. II. (1929) p. 66

Wiegand. Byz. Zeit. 33, 1933, p. 150

Cf. Coechar's theory.

Extent of. of S. Paul. as approx.
29.00 m. across from side to side
(not including bays)

Compare with central type churches
described by Coechar & supplement
by Apamea; Diatagir; new Bosra etc.

Massive

Certain details of drawing & modelling
which go into Islamic art: drawing of
eyes giving effect of naivete;
modelling of bodies are repeated flat
ovoid planes (N. Shadden says may
find parallels in Bagdad School of
miniature painting of 12th century).

Gerasa

City of the Decapolis A.S.O.R. New Haven
Mosaics by F. M. Diebel 1938

"Any discussion of the subject matter of East Christian Art must take into account the combination of religious and non-religious elements which existed during this period. St. Nikeus protested against this practice at its beginning of the fifth century when he wrote to Olympiodorus the Eparch begging him to abandon his plan of decorating his church with "the hunting of all kinds of animals, in such a way that on the land are seen extended nets, hares, deer, and other animals in flight, and the eager hunters spiritually pursuing them with the hounds; and upon the sea lowered nets, which catch all kinds of fish and are hauled up on land by the fisherman's hands." suggesting instead scenes from the Old & New Testament which would serve as books for those who could not read."

35. W. Smith & W. Wace, Dictionary of Christian Biography, 1887, Vol. IX, p. 44; Migne, Pat., Vol. LXXIX, Ep. 4, 61, col. 577.

Guyot on Rasafa Martyrion

"Vor Wesen der byzantinischen Kunst
in Münchner Jahrbuch der bildenden
Kunst, N.F. Bd. VIII (1931) fig. 3, p. 104.

Reconstruction of exterior elevation.

Central tower = also East towers.

Fig. reproduced in (SA) NA 2750 W. 12
vol. II p. 101.

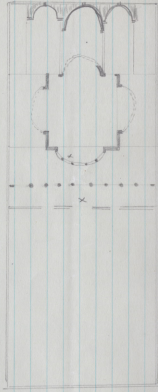
Martynia et Corymba in Cuba.

from

Monumenta Asiae Minoris Antiqua, II, 1930 by

E. Herzfeld and L. Foyrer

(here they are again!)



Prothesis & Diaconicon.

Butler (Smith), E. C. S. p. 175.

All Syrian churches have sanctuary to E; all have two main divisions of a nave & sanctuary (sanctuary & presbyterium) Many, even earliest, have chambers on either side of the sanctuary to which its names of prothesis & diaconicon have been given.

Prothesis = room in which the priest & the deacon performed its preparation & preliminary oblation before the Eucharist.

Diaconicon = sacristy: for sacred vessels & where the clergy rested.

No rule as to which side of the presbyterium these chambers should occupy.

Prothesis in Syria: often usually on S. side with larger entrance & also a doorway in the outer wall.

Opening between the nave & the sanctuary is a broad arch which Butler calls the chancel arch.

The prothesis & diaconicon with 3 exceptions (Koridra Dana; St. Antioch; Monastery of Jewitah) always open upon the nave; occasionally one, rarely both of them, was connected with the sanctuary by a narrow doorway. But there is a group of churches, mostly of the 11th Cent. in the 'Ale which for some liturgical reason, had lateral openings connecting both chambers with the space directly in front of the apse.

The opening between the diaconicon & the nave is almost invariably a square-headed doorway with a stop for a door opening inwards, while an arch, not capable

of being closed, is often substituted for its practicable doorway between the nave & the prothesis.

Crofoot, Churches at Bozra & Samaria-Selata: "..... but it is difficult to identify the altar with a prothesis chapel because neither of the doors opens directly into the ^(ambulatory) nave", and the modern type of prothesis chapel only came into regular vogue later when the Great & Little Entrances were introduced into liturgy in the dome of Justin II" p. 17

Notes from Butler's (Smith). Early Christian Churches
in Syria:

p. 20:

"The apse was enclosed in straight lines giving
its exterior a trapezoidal plan."

cf. p. 20 also paved passageway like yours,
ill. 12; text p. 17.

Prothesis = contained an altar upon which the
faithful deposited their gifts = E. side
Journ. Monuments of the Early Church, p. 126.

Diaconicon = vestry = N.

but both are interchangeable

Desiderata as writing up, Spring 1940

① Need to have scaled drawings of posts for altar balustrade before apex of E choir.

② Drawings & photos of every scrap of architecture, many of which stored in Antrocks with no chance to record at end of season because swamped with work.

③ Dig below water at E end

To check construction of baptistry & see if this was originally laid out to correspond with regularity of S. apsidial; or if S. dependency was originally constructed like baptist. as short spur wall leading nowhere now & corresponding to similar wall dug to apex of bapt. would indicate.

to dig out piscine itself

to follow around foundations & check all joints

to look for earlier floor levels everywhere; digging below all extant floors

to turn over sleeper blocks of altar balustrade for inscriptions

But for all of this would need a good pump & an elaborate drainage system.

Any indication of bases for applied exterior colonnade on apex of E. choir?

④ Photographs needed

More of baptistry + details

Details of exterior of walls

SW - NW corners

E. ambulatory wall S of sanct. portal.

East apse + details of N. side

Pavement outside E portal in NE angle

Conceton

① Ask Downey about possibility of
56 inscription on E. choir col. base
being at date (505 or 487 A.D.)

Ans: possible but improbable unless find
example of same.

Selucina Earthquake

526 A.D. Malalas says also
destroyed Selucina

528 A.D. also did damage since
it is recorded that emperor sent
funds for reconstruction of Antioch,
Selucina & Laodicea.

References to Consult

- Crowfoot, Churches at Bosra and Samaria-
debate. Brit. Sch. of Archaeol. in Jerus.,
Supplementary Paper 4 (1937)
Issued by the Council at 24a St. Paul's
London, W. 1.
- Siedlmayr, H. in Byzantinische Zeitschrift,
Vol 35 (1935), p. 41 (Bosra referred
to as one of the "unschätzbare Urkunden
noch nicht genug ausgewertet") Crowfoot p. 2
- APR. DEAT. VII, 1921-1922 p. 37 re central
choir in Church of St. Jean, Ephesus fig. 7.
- Byzantium File (1938) pp 180-181 review
of decaus' church.
- Armenian Architecture
Butler's summary in Byz. Arch.
Dalton
Strykowski etc.
Rice
- Art and Architecture: The Thousand & One Churches
- Siedlmayr, H. Kunstwissenschaftliche
Forschungen, Berlin, 1938. This with
his above (B. Z., 35, 1935) Crowfoot
calls illuminating articles on roofing.
He does not criticize Butler's restoration
however.

Periodical literature to look up: Churches only
From the Art Index Jan. 1929 - Sept. 1932

Merianlik und Korymbos; zwei christliche
Münzstätten des römischen Kleasiens, by
E. Herzfeld & S. Berger. Reviewed by K. Conant
in A. J. A. 36: 357-8 July 31. Good

Early Churches in Syria. Butler: British reviews
Cicerone 22 p 22-24; 616 O 20
Parnassus 3: 51 Mar 31
Burl. M. 58: 306 Apr 31
Speculum 6: 477; 479 J. 31

Churches at Jerash by J. W. Crawford, review:
Roy. Inst. Brit. Arch. J. 53, v 39: 1147-8 O 19, 20

À travers les villes mortes de haute Syrie
by J. Mathon Review A. J. A. 38: 623-4. O 34

Eine Reise in Syrien. D. Francker J. D. A. I 49;
Arch. Anz. vol 265-87 '34

Die Bräutermehrungskirche von ET Jabza
by A. M. Schneider, Review A. J. A. 39: 637-40. o'm

Churches at Boara & Sam.-Set. by Crawford Review
J. H. S. 58: 287-9 '35 no sent.
R. Archael. 26 v. 13: 182 J. 35

Roy. Inst. Brit. Arch. J. 53 v. 43: 761-2 May 23
Strozzygnaki Domes: Ground Plans. 136

Dear Maury:

20 Dec. 87

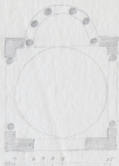
Another 200 found in N. Virginia. The specimen, A. W.
1883, p. 135 has it! W. B. Dixon, under the last
year of Exam (A. D. 77) records that Pallas's, who
knew the bishop of Portland in this year as president
of Peter the Fisher, was a party to the church
of St. Nicola in Virginia (this church, or a church
of the, in Portland in the spring of the same, A. D.
1852). It must be that the Virginia was
well known to him from 1852 in 491.
Very truly yours, D. Willer your old servant
and greeting, awaiting your last meeting with him.
G. D.

Periodical Literature on Apamea

- Les ruines d'Apamée de Syrie. F. Mayence
Brussels Mus. Roy. Bul. 23 v.1:50-2 no. 29
- La Première campagne de fouilles belges à
Apamée. F. Mayence. ib
Brussels ditto 23 v.3:23-6 ja '31
- La deuxième campagne de fouilles belges à
Apamée. ditto 23 v.4:42-5 no. '32
- La troisième ditto 23 v.5:1-6 ja '33
- La 4^e salle d'Apamée. F. Mayence v.5 50-7 no. '33
- La quatrième ditto 23 v.7:12-10 ja '35
- La 5^e ditto 22 v.8:1-13 ja '36
- La 6^e ditto 23 v.10:97-113 s '38
- Les fouilles belges à Apamée. S. Besques. J
Beaux Arts p.6 Apr. 14. '39

Alep. Madrasa el-Halawiyya.

pls. III - vers



La madrasa el-Halawiyya à Alep by
M^{re} S. Lamy

Notes on La Madrasse at Halawiyaya à Blap
by S. Berger in Bulletin de l'Institut
français d'archéologie orientale, tome 33 (1932)
pp. 217-231 + pl. III-VII.
Louvain lit ~~3~~ DPA 2200 233 ^{mande} folio floor

Good for slides of plan & details of
arch. for Wellenley course if needed.

Notes: tradition (local) associates the
building with Empress Helen claiming she
built it & that it was formerly the Cathedral
of Aleppo. But cannot accept this Constantinian
date of the origin without proof because in the
Orient all churches considered as early are
attributed to this empress, the renowned
founder of churches. Must substantiate by
research & study of its decorative forms &
construction, and by the group or monuments
to which it is attached.

^{Arch} ^{style} Capitals of columns & pilasters:

Corinthian order, recalling still ancient art
in many details. Leaves of col. caps are in
2 ranges of 8 leaves each, between the top
leaves the stems of its acanthus ~~part~~ divide &
curve to its right & left in the top of its leafage,
as seen in many capitals of the 5th cent. in Syria.
The composition as its decorative character of
Byzantine sculpture. The naturalistic beauty
of its isolated leaf is not sought, but is
emphasized, but rather its effect of the
ensemble and its acanthus leaves are only
the means of decorating the capital as completely
as possible (footnote reference to Reigl, *Stilfragen*
Berlin 1893, pp. 272 ff.). This tendency to a
decorative style is found throughout the Med.
region from the 5th cent., & produced 2 new forms
of acanthus in Byz. art. = its acanthus with
small needles or scallops & its acanthus with
large ones to fill better its surface & to be decorated.

Here a similar style is evident. The ^{nodules} notches of the leaves are elongated to reach those of the next ones & leave no empty space. The structure of its leaf presents peculiarities strange to its ancient style & its contours are novel & have not the delicately curved lines of preceding ones. Play of light & shade strongly contrasted. Compares & dates with Salt Lough & Kialat skins but mistakes both these monuments in its VI. c. 8.

Publishes interesting documents about its church & restores it as a domed basilica (3 domes) with apses at each end.

Refutes possibility of central plan because of presence of ancient walls & documentary evidence of Christian cemetery which would rule against it. (But this must be examined again on spot & excavation made! I believe it is martyrium like Helouze & A. parva. Also date needs reconsidering. It is possibly II.)

Churches at Bosra and Damaris - Sebaste
by J. W. Crowfoot, C.A.R., F.S.A.

Supplementary Paper 4 (1937). Brit. Sch. of
Archaeol. in Jerusalem.

Issued by the Council at 21, Wimpole St. London
W.1

Introductory circumstances

I The Cathedral at Bosra

1. City of Bosra

70 miles south Damascus; fringe ^{mountain} ~~low~~
106 A.D. Trajan made it capital of
Roman province of Arabia after
conquering Nabataean kingdom of
Petra.

Oldest remains = Nabataean I cent. A.D.

On caravan route Arabia →
Damascus → coast. Fields fertile ∴
wealthy: trade & agriculture

Remains of enormous markets,
baths, temples, reservoirs, gates.

Christianity early: bishop in 3rd
cent.; Origen visited twice; also some
martyrs.

Bishop Titus wrote polemic against
Menes now lost

Archbishop Julianus, builder of cathedral
of Bosra.

Muslims captured 7th cent. few
mosques & 1 bath

Crusaders failed to capture: city
abandoned gradually, resettled about
500 yrs ago.

2. Previous Work on Cathedral.

Grinnow and Domszjevski, *Die Provinz Arabia*, 1909, III, pp. 30 ff. quite relevant passages in works of early travelers who describe Cathedral - Suetzen; Burchardt, Richter, Buckingham.

With publication of M. de Vogüé's *† Syrie Centrale* in 1865 Boora came to occupy important place in Early Christian Architecture. Vogüé is father of scientific study of the church which visited 1862: notes admirable; drawings good but plan admittedly not accurate.

E. Guillaume Rey, *Voyage dans le Haouran*, 1863, Sept., p. 179, Plate II. made first French expedition (before de Vogüé) in 1857 & published its first plan. Scale is wrong but in other respects is more accurate than its other plans that have been published.

Reprod. by Fergusson, *A History of Architecture*, 1867, II, p. 307.

Rey's sept is too brief to be of value.

American Expedition made photographs in 1875 before walls seriously damaged.

Now in possession (neg.) Professor Moulton of Bangor, Maine.

Inscription: The inscription regarding the circumstances of its building was in original position over central door at this time.

Published with excellent commentary by M. Waddington, *Inscriptions Grecques et Latines de la Syrie*, 1870, no. 1915.

(Republished by Grinnow) = Cathedral was dedicated to the glorious martyrs Sergius, Bacchus, and Leontius, when Julianus was

Archbishop, in the year 407 in the 6th indiction. The year 407 of the Coosren Era began March 22, 512, and the 6th indiction began September 1 of same year, so church was finished between Sept. 512 - March 513.

5. Sergius martyred under Galerius at Rusafa.

5. Bacchus - also under Gal. at Bartsabussus in Commagene: both Roman soldiers & both commemorated Oct. 7.

5. Leontius martyred under Hadrian (?) at Tripolis, Syria. Commem. June 18.

Archbishop Julianus - distinguished priest: expelled by heretic ^{Emperor} ~~Emperor~~ of Antioch, Severus for refusing to recognize Nicene his synodal letters. Severus kept by Arctavianus after whose death Julianus returned to Bessa.

Condition of cathedral in Vogie's time: outer walls + sections of clerestory; chancel arch; roofs over E. chambers; late chapel in front of old chancel; cemetery in church.

All roof supports of central area gone: how was it covered - great problem until Crowfoot's expedition.

Area = 36. m. Conjectured reconstructions: M. de Vogie: dome 19' in dia. carried on 8 great piers like dome on S. George at Ezra only 30 miles away.

Brimmow: some modifications of de Vogie but purely conject. as summer. in Holtzinger, Handbuch der Architektur 1909, Part II, vol III, 1, pp 142-3.

Butler, P.M.A.E.S. Div II, p. 281 claimed he saw base of a composite pier under the N. wall of its late chapel at the

④ Existence of Buttress pier denied by Crowfoot.

bottom of a hole made by peasants in rubbish. Butler published measured drawing of this which was plan of an octagon much larger than that suggested by Vogels & over it Butler erected dome 26 m in dia. Herzfeld, Jahrb. d. Preuss. Kunstsamml., XLII (1921), pp. 119-21 criticized on basis that proposed piers were too slender to carry such a big dome. Plan compares bldg with Dome of Rock, Jerusalem suggesting that at Basra also, in open with, must have been second ring of supports, carrying a small timber dome in its middle with 2 aisles running round it. Abundantly conjectured Creswell, B.S.A.J. Supp. Paper 2, 1924, pp. 21 ff.; Early Muslim Architecture, 1932, I, pp. 72-4. Follows Herzfeld but makes modifications to bring plan even closer to Jerusalem.

Watzinger, Denkmäler Palästinas, 1935, p. 136. Entails criticisms of Herzfeld & Creswell.

Crowfoot discovered little Basra at Jerash = Church of S. John the Baptist, det. 532 = central portion of roof carried on four cols but in other respects like Basra of Crowfoot. Churches at Jerash (B.S.A.J. Supp. Paper 3), 1930, p. 21. This discovery determined Crowfoot to search for evidence in Basra Coll.

3. The Expeditions of the British School.

Describes present condition which is bad.
First in May, 1934. Soundings for Butler pier revealed nothing. Negative result all around; describes excavation.

Second Exped. March, 1935. in NE quadrant. Describes area excavated; low house, graves, late walls, etc. Details of architecture out of place. Discovery of what appears a conscious falsification of Butler in reporting pier: p. 19 footnote 1 on p. 8. Discovery of pier ~~to~~ beginning of the colonnaded exedra as drawn of p. 7 fig 1.

Problem of Boara solved by discovery of angle pier in NE corner of a central sq. and segment of a semicircle described on the east face of this square. Plan restored & revealed that pole base of exedra on S. side had been uncovered in 1934 but was not understood. Also of exedras was on pedestals.

"Originally there were four semicircular colonnades in the middle of the church arranged in the form of a quatrefoil or tetraconch, with four columns in each colonnade standing on high pedestals."

Voussoirs found from an arch span 12 m.
= arch between the piers of the central square

4. Reconstruction of the Building

"The Cathedral must have stood, like other great churches of the time, in the middle of a large precinct which certainly enclosed an imposing establishment also standing a few metres to the east." Butler says episcopal palace; chapel room built on trefoil plan probably designed by cathedral architect.

Precinct may also have included basilica now standing, ca. 60. m. N. of place Brünnow, more accurate than Butler. Cathedral isolated in precinct. Doors on all four sides; 5 at W; 3 on N & S; 2 on E leading to palace. No signs of porches or porticoes against walls; no trace of narthex at W. end.

Absence of w. narthex & multitude of doors were features of churches at Jerash: cf. Crowfoot. Churches at Jerash. p. 10.

Ground Plan

Classical in balance & symmetry but indifferently set out. Doors grouped in middle of 3 outer walls; width & width of opening into chancel, spacing of exedra colonades corresponds to doorway. Basic unit or module = $\frac{1}{2}$ of central area or a sq. with a side of 20 feet. Whole bldg. 6 units long N-S; outer radius of colonades a side of 1 unit; opening into exedra at the diagonal.

Plan circularly set out; S. side longer than N. (1 to m). Therefore east wall on S. side of chancel set askew in order to abut on its gable in S.E. corner room.

Exterior

Reproduced in pl. I C & height of walls & alcove; disposition & dimensions of doors & windows are based partly on extant remains, partly on older records; shape of central lantern & pitch of roof conjectural.

Small blocks convenient to handle; outer face of its walls carefully squared & ground to a smooth surface. Masons marks prove that taken from some earlier building. Coursing

① Chancel = 2 units; length of S.E. chamber 2 units.

regular. Little carved detail. Stones from classical entab. laid as cornice at E. end. No mouldings round doors & windows. This simplicity = late classical trait of. Crowfoot, Churches at Jerich p. 37.

Interior

Height of quadripartite colonnade approx. that of Dehmel's restoration (Pl. 26) = 7.60. Col. are penta. II cont. 9 = 9 x lower dia. Restored arcades & arches conjectural. Like arcades in Aqsa mosque at Jerusalem & Amiyal mosque in Damascus.

Clearstory

All restorations but Herzfeld assumed an upper gallery on the level of the clearstory. Crowfoot is confident that Herzfeld is right - no clearstory gallery. A gallery, if it existed would presumably have stood above the crown of the apedrae, which is nearly 9 m above floor of bdy., & the roof of the gallery could not have been much higher than the top of the clearstory windows, which are only two meters above the top of the apedrae. Hence proportions of such a gallery, as well as floor plan the supporting quadripartite colonnades would necessitate, seem proof that no gallery existed. Also number of windows. These = more than 50 & so ridiculous for a gallery only 3' high, but fine for pouring light down into nave which otherwise would be poorly lighted. Hence well lighted: ambulatory, from side; central aisle from clearstory.

Roof

Greatest conjecture in past; now solved. Barrel vaults over chambers of east end;

Conches over exedrae; wooden roof over central square because piers less than meter thick & lighter than walls of east chamber on ~~ambulatory~~ exedrae & hence roof which rested on them must have been of wood.

Older wooden domes or roofs: Herzfeld (l.c. p. 121) assumes ~~rather~~ original dome at Eyra was of ~~the~~ wood like the earlier dome over the Anastasis at Jerusalem, or the new church of Justinian at Jerusalem described by Procopius, and the later Dome of the Rock. M. de Vogüé saw holes for beams wooden beams in the wall of the cloister at Eyra (or Bosra - not clear from Crawford's working). Combination of timber roof over nave with conches of scoriae (light slag, volcanic) was apparently its system at Jerash - Crawford, Churches at Jerash p. 22.

Anastasis at Jerusalem, Wetinger, D.P. p. 131. For vaulting or roofing of = Sedlmayr, Kunstwissenschaftliche Forschungen (Berlin) II, 933
" B.Z. 35 (1935)

At Bosra no evidence to show shape of lantern or roof over center. Frescoes in maqsurat Omayyad show bewildering variety to show form.

Paving.

No trace left: Crawford believes of slabs of marble & stone. Frag. in inside slabs ca 25cm sq. in pattern like IV. Theodore, Jerash.

Wall Decoration

Walls inside were not smoothly dressed like those outside: were doubtlessly heavily plastered & painted; in places may have been revetted but no plug holes now visible. Older travelers saw several several frags. of fresco including Virgin with outstretched hands (orans) at end of apse (Sectzer, Buckingham, Parker, Vagie'), but only considerable piece left is on S. wall of chancel & of late period when late chapel in use: 13-14 century.

Reproduced ~~in~~ pl 9 a, b.

Restored glass mosaic for upper part of walls & soffits of arches as in Rome & Ommayad. But found no glass tesserae.

Carved Detail

Taken from earlier bldgs. = Antonine
 2 entablature blocks as brackets under the chancel arches, also archivolts above entrance to chancel (Vag. p. 66, fig. 1)

Pedestals for cols. Ill. fig 2. of period?

Bases of good Attic type on octagonal plinths.

Caps. of careful Antonine work; the calathus strongly marked.

East Chambers

5 at E, of which central was sanctuary or chancel. Apsis of sanctuary was polygonal outside, the 5 walls forming 3 sides of a decagon and two half sides (Butler) = inside 9.20 m.

Original floor destroyed; no trace of altar, synthronous, or chancel rails. An analogy of contemp. churches at Jerash, synthronous may be placed against

wall of apse, the altar on the chancel, the
solea in its rectangular space west of the
altar, the chancel rails between the
solea and the circle of the nave.

Chancel lit by 3 large windows at E.
end.

Rooms on either side next the chancel
were primarily passage: doors in all 4
walls; to E go to Epis. palace. Roofs of
barrel vaults. Carrels which Crowfoot
could not understand.

SE corner room opens in apse with a
niche at either side; arch in front of apse.

NE corner room probably same.

Both above not later additions as
Butler thought.

Use of SE + NE corner rooms: perhaps
chapels with altars but such is rare
in East (+ in church of Theotokos, on
Harizim). Crowfoot more probably
sacristies, offices, vestries, treasuries.
One may have been diaconicon but
diff. to find prothesis chapel because
narthex of this opens ^{directly} into
nave; and modern type of prothesis
chapel only came into regular vogue later
when the Great, Little Entrances were
introduced into its liturgy under Justin II.

5. Some Conclusions

Significance: (1) large congregational
church built on centralized plan in one
of wealthiest cities of Syria; (2) no other
large centralized church about which we
happen to know so much.

Fallacy = centralized plan is as characteristic
of East as long basilical plan is of West.
This not true says Crowfoot: in early days

there was little difference between E. W in matter of church planning = 9/10 of larger churches in Greece & Syria before the time of Justinian were of ordinary long 3-aisled basilica type (plans collected by Gotzmir, ref. Croissant p. 180 + Butler)

Memorial churches (martyria) and baptisteries were often built upon a centralized plan in both areas (E & W), but for congregational purposes the basilica was the favorite. cf. Dehio & v. Bezold, Die kirchliche Baukunst des Abendlandes, 1892, I, p. 20 "Von dem jetzt als Kirchen verwendeten früh-christlichen Zentralbauten (soweit sie nicht unter byzantinischen Einflüsse entstanden sind) lässt sich denn auch in keinem einzigen Falle die ursprüngliche Bestimmung zur Gemeindekirche unzweifelhaft nachweisen."



Centralized church plans in Palestine & Syria:

Jerusalem

Anastasis: large segments of wall survive but little known about early plan.

Church of Ascension } little known.
Church of Virgin's Tomb }

Tell Ham } ground plans only of round bldgs.
Beisan }

Viranshahr - not properly excavated

Church of Theotokos on Mt. Marizim: unpublished

Apamea - unpublished

Antioch

Constantinian Octagonal Church: little known

St. Babylus: Antioch II

Kalat Siman: under debate.

St. Siman near Seleucia: unpublished

Comparisons with Other Remains of Ancient Architecture

A Plan of wall around nave (i.e. ambulatory)

Plan of walls around nave, the circle inscribed in a sq with exedrae in the corners & niches on either side of grouped doors goes back to late Hellenistic or early Imperial period. Also rooms sq. externally & round or octagonal inside with exedrae in corners are fairly common, especially in baths.

- ① early domed example: Forum Baths, Pompeii
- ② Tempio di S. Ippolito, Campus Martius, Rome
Kwoira, Roman Arch. p. 154, Fig. 153
- ③ Baths of Trajan & Caracalla
- ④ Souda Baths, Boara. Guller, P. F. p. 261
Crowfoot, Hist. 11 d
- ⑤ Cathedral Boara

First date church in which plan occurs

- ⑥ Ezra, without niches sq. plan. (Crowfoot, 11 e)
- ⑦ Jerash. (Crowfoot, this one, plate 11) ^{flanked by} _{pendentives}
- ⑧ S. Sergius & Bacchus: flanked by pendentives (n.b.)
- ⑨ Hagia Sophia, Constantinople
- ⑩ Exception Mir'ayeh: round nave not enclosed in a square & projection of rooms on either side of the chancel makes awkward angle.

Commentary = a secular plan taken up for a short time by church builders, characteristically elaborated with niches in Syria, & then generally dropped. In most of above bldgs the room in question is flanked by others & its convenience of a plan with square outer walls is obvious; & at Boara convenient for adding Episcopal palace (?) to E. end. At Mir'ayeh, projections at east end are awkward. In many of above there was a dome & this system makes transition to dome easy before final use of pendentive.

Comparison with Older Remains of Ant. Arch.
cont'd.

**

B. Quatrefoiled colonnades in center.

Prothypoes occur in classical bldgs.

① Piazza d' Oro, Fivoli: serious & sophisticated
Robertson, St. Roman Arch. fig 134

② Tetraamphion, Jerusalem, Hadrian? Problematical.

pro: Weigand, B. Z., 23 (1914-19), p. 179

Venturi & Abel, Jerusalem, II, pp 10, 11

Contra: Watzinger, D. P., p. 84

③ Church of IV cent., Hadrian's base, Athens more 11c

Church: Sisson, P. B. S. R. II (1929), p. 66

Sotiriou, (N.B.) p. 174.

Against as church: Weigand, B. Z. 33 (1933) p. 150

④ Martyrion (II cent) Corymbus, Cilicia
Hertzfeld & Guyer, Mon. Asiae Min.

Antiqua, II, 1930, pp. 126-150

Outside city walls & apparently this type

⑤ San Lorenzo, Milan (here 11 f)

Delbrueck, J. A. I., 28, 1913, Anzeiger,
establishes the Christian p. 132

origin of this much reconstructed church.

⑥ Apamea: Martyrion.

Plan not yet published mentioned by M. Mayence, Bulletin des Musées Royaux d'art et d'histoire, Jan. - Feb. 1936 p. 7.

⑦ Fa' lul, 526 A. D. supposedly same.

Butler (Smith), E. C. S. p. 166; not excavated. Crawford thinks plan too small & so had roof supports like small churches Jerash

⑧ Aleppo

not mentioned here but of Escherich.

N.B. under B⑤ above: Αἱ χριστιανικαὶ Οἰκὴν τῆς Θεοοράτης καὶ αἱ παλαιὸν χριστιανικαὶ λαοικαὶ τῆς Ἐπιδαύρου. Athens, 1931

⑨ Rusafa: Spanner & Singer, Rusafa, 1926, 19.

References of my own = Pebrnyrene, by 566

Alois Mühl of Inns; Butler, E.C.S. vol. 2, p. 100

10 Church of Mary, Dinyartekr - Amida, ¹⁹¹⁰ ~~1910~~

Strzygowski, Amida, 1910, p. 192. ¹⁹¹⁰ ~~1910~~

Later became popular in Armenia; went as far as

⑩ Church of Mary, Dinyartekr - Amida, ~~1910~~

Strzygowski, Die Baukunst der

Armenien und Europa, 1918, I,

pp. 108 f., and II pp. 486, 774, etc.

Like Rusafa. Both unrelated.

Commentary = Cooran architect tried

to show his originality by combining A

and B, but not happy result. In

all great quadrifoiled bldgs above with

exception of Armenia, there are bays in the

outer walls corresponding with the

semicircles of the quadrifoil with much

better effect. In Coora & Armenia, the

quadrifoil & circle neutralize each other.

Finer development of quadrifoil motif =

Rusafa & Dinyartekr - Amida.

C. Position of Chancel (altar or sanctuary)

The position of the chancel in an opening

on the east side of the ambulatory links

Coora with church of Theotokos at

Larizim & the two centralized churches at

Jerash & Ezra. Also Selenia Picina

Quadrifoiled bldgs at Athens, Conyus

& Apamea & all Armenian churches: ~~the~~ the

chancel occupies east lobe of the

quadrifoil & open colonnade on this

side is replaced by a solid wall which

in effect sacrifices nearly a third of the

ambulatory as far as congregation concerned.

Original placing of chancel in S. Lorenzo

not known but has open colonnade on all 4

lobes (chance probably like Selenia)

Andreades in *Kunstwissenschaftliche Forschungen*, Berlin, I (1931) p. 87 on placing of chancel off the east side of ambulatory at Bozra: argues that the chancel which contains the altar is of supreme significance in Christian worship, & that it should therefore occupy the place or which the strongest architectural accent falls, instead of being buried in an annex to its ambulatory (and it is now known in Bozra & Delmeira & divided from the accented center of the building by a colonnade. Argument is a serious one & probably for this reason Chancels were placed in east lobe at Apamea & in Armenia.

Problem of central area raised by above. What was in the center of Bozra Cathedral? Crowfoot says might occasionally have been occupied by a shrine with relics of the saints to whom the church was dedicated as to be expected in an ordinary centralized memorial building.

But Crowfoot thinks more likely the central area was occupied by the ambo or pulpit which was used both for reading & preaching. In Jerash the ambo is placed close against the chancel screen on the S. or Epistle side of the central chancel door, but at Hagia Sophia it was in the middle of the church, & its site of the Holy Sepulchre in the church of the Anastasis, Jerusalem is described by Photius as the place of the ambo (*ἀμβωνος τόπος*: quoted Vincent & Abul' Jerusalem, II, p. 236: in the Anastasis was in consequence on the south side of the chancel rail as at Jerash: see quotation from Euthychius, l.c. p. 242). Center of church recognized therefore

as proper place for an ambo & Crowthods suggests ambo for Boara: practical reason of placing preacher in middle of hearers. Crowthods says against Andreades case that sanctuary at Boara was well lighted & not off in dark recess.

D. Clearstory

May have been common characteristic of larger Hellenistic Theloi. Many windowed clearstory a striking feature here; but after all on a transition to the circular plan of its regular lighting system adapted for long basilicas. Ancient clearstories mostly destroyed except for representations such as at Bassorale (Creswell, Early Mus. Ind. I, Figs. 305, 306)

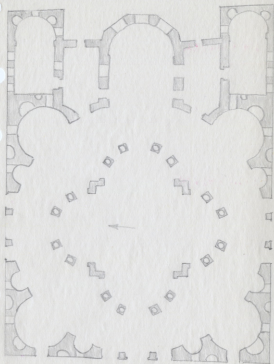
E. Stonework:

Purely local. horizontal courses fairly reg.

Summary

New discoveries at Apamea & Jerash (C. Scaevola) show plan of Boara as not exceptional. Of a type not uncommon in Palestine, Syria. Nothing specifically Roman or Byzantine in its style; nothing related to older Orient. Style is clearly derived from classical architecture as practiced during later Empire in great cities of Hellenistic East. At Boara, Jerash, Dome of Rock old architectural detail is reused in an appropriate way to serve some functions for which it was originally designed. Old classical tradition still alive: there was, in fact, still a great future before it. Points to great mosques.

Tonia



BOSRA CATHEDRAL

Domes & Quatrefoil Plans: The Earliest
Combination, by Josef Strzygowski, in
Journal of the Roy. Inst. of Brit. Arch.
Third series, 43ⁿ (1936) pp. 761-2

¶ 1: S. Lorenzo, Milan = one of most
charming & puzzling churches of the west.
Rebuilt during baroque period. Old
foundations show it was a combination of
a dome with a quatrefoil plan; i. e. a bldg.
of the singestellte Vierpasstuppel type =
4 piers in corners of a sq. carry a dome which
is buttressed on the axes by four colonnaded
apses. East of 4 piers here = composite group
of 3 piers & are further strengthened by the
sq. rooms set diagonally on the ~~sq~~ corners of
the bldg. The outer walls joining the corner
squares are set out on a flat curve which
corresponds to the curve of the internal
colonnaded apses.

¶ 2: In this bldg. it is only the combination
of dome & quatrefoil which is characteristic
of the type. Armenian examples show that
the character of the piers & the plan of the outer
walls may vary. Compare S. Lorenzo with
church of Zwerchnat, near Etchmiadzin, on
Ararat in Armenia built near the palace
by Catholicos Nerses III. (641-661); excav.
at instig. of Strzyg. & detailed account in
Die Baukunst der Armenier und Europa,
p. 102 f. with note on p. 774 re S. Lorenzo.
Essential difference = ^{inner} wall of Zwerchnat
is round or 32 sided [^], not quatrefoil.
But the ~~sq~~ singestellte Vierpasstuppel (dome
with inner quatrefoil) is the same.
Inner dia. of Zwerchnat = 33.73 m. with 4
dome piers massively built in an M shape.
The corner ap. rooms have parallels in

Armenia - e.g. corner towers in ruin of Bana (op. cit. pp. 122 ff.) "In Armenia the dome with quadrifoil was widely distributed, & we can see there how quadrifoil bldgs. with domes, circular galleries or triforia evolved out of simple quadrifoil bldgs." See Lorenzo's an isolated example of a type which we can trace developing through regular stages in Armenia. In op. cit. p. 775 points out a connecting link in so-called Red Church at Peruschitzka, near Philippopolis (sic.), Bulgaria.

¶ 3: "What was done in this type is the logical culmination of a development which was completed not in its Nat. area but in the Persian East in connection with the sun-dried brick buildings of the Mazdaistic fire temple. In Iran there may well have been halls for state assemblies with such domes & quadrifoils which were normally temples, somewhat like Church of S. Vitale in Ravenna. S. Vitale in his *Asiens Bildende Kunst* = Persian caps & massives = typical Persian fire temple & state assembly hall, smaller & more elaborated with 4 apses on diagonals between the apses on the axes & base is 8 lobed; also had triforia as did state assembly halls.

¶ 4: In view of above discussion recent discovery at Soore of gr. importance, et.

¶ 5: Summarizes Crawford's article, mentioning that interior dome (sic, contrary to Cr. belief) is slightly larger than Zwardratz (ca 36 m). Also difference differs from Zwardratz's Milan in having being inscribed in sq., having four corners filled with horse-shoe shaped niches; entered by single doorway on axes. Says problem of dome now settled: ground plan proves it

Strzygowski in R.T.B.A. Journal: (3)

was a "dome & quadrefoil (eingestellte vierpasskuppel) type." (remark = this seems good for wooden dome argument of Smith against lantern theory). They hope to find someday in Iran the origin of the Syrian building as well as Armenian. To do this necessary: to excav. & put. surviving fire temples for remains of Mazdaic temples & sun dried brick domes. Dome = dominant feature of all Christian East up to present; Hellenistic basilica = dominant in west as adapted by Roman church.

6: Calls attention to Crawford's Churches at Jerash. Asks for further excavation at Bosra for epis. palace. Advertises his own L'Art chrétien primitif de la Syrie which is just appearing without benefit of Crawford's discovery.

Stoa of Hadrian, Athens.

Central Building within the Court
from B. Papers of the British School at Rome,
vol. XI article "The Stoa of Hadrian
at Athens" by M. A. Beason. p. 50 ff.
Part II The Central Building in the Court.

- A. Description of actual state
- B. Reconstruction
- C. Styl. Date
- D. Purpose

1885

The central part excavated by Greek Arch. Soc.
of Athens published "ΤΡΑΝΤΙΚΑ ΤΗΣ ΕΝ
ΑΘΗΝΑΙΣ ΑΡΧΑΙΟΛΟΓΙΚΗΣ ΕΤΕΡΠΙΑΣ, 1885, p. 13 f.
& plan; 1886, p. 10 (Kummandel) Church of
Megale Panagia was demolished revealing
what was left of earlier central structure.

A. Built on site of its reservoir, in its center
& on the axis of the stoa, & was afterwards
incorporated into church of Megale Panagia
demolished in 1885.

Consisted of central hall, 50' sq. on E
side of which was an apse 28' in dia.
On N. S. & W. sides were semi-circular recesses
24' in dia. surrounded by colonnades
behind which were arcades 12' wide enclosed
by concentric outer walls 3' 3" thick.
Floors of arcades were covered with mosaic.

At W. end = vestibule with side chambers
containing stairways?

Excavation report says marble slabs
were found in 5 areas but no trace
remains. AB same scheme as Sebasteia;

Mosaic = black, white, blue, pink, yellow
of tesserae $\frac{1}{2}$ " thick sq. laid on a bed of
mortar composed of ground brick & lime.

N. arch = interlocking circles with border of interlocking leaves

S. " = series of radiating bands containing alternately ^{interlocking circles} sectors

Columnade: unpluted: vary in size; two stems on base while a third has none. Caps = Greek Doric? ^{ionic}. Altar base in center - 2' 5" sq., 12" high & designed to support a column with a diameter of 2' below its apophyge.

B. Reconstruction: see. to refer to article.

C. Style: Doric.

For similar construction & mosaics of references given p. 70 On basis of Mosaics = just before 400 A.D.

D. Purpose

"A comparison of the plan with certain others closely related to it in form, the widely distributed geographically, shows that it was almost certainly a church (see Plans, Plate XXVI.)"

Compares:

Fourth century church of San Lorenzo, Milan

Strykowski, Klein Asia, p. 211

Von Sybel, Christliche Antike, II, p. 313 + plan

Holtzinger, Die Altchristliche Architektur, p. 102, note

Monte Monneret de Villard, Bull. d'Art, I, 1911,

Drawings by Jungella's others.

p. 271

Originally San Lorenzo consisted of a square central space with segmental colonnaded recesses: aisles on all four sides. Similarity is striking: also San Lorenzo probably not domed because would require awkward squinch arches. Probably founder, S.

Ambrosius introduced the type from the East in the fourth century. It may bear some relation to the Octagon of Constantine at Antioch (Excavations, Vila Const. III, 50)

Adrianople = 10 cent. ? Choirs

Choirs, Histoire de l'Architecture, vol II, p. 41

says originally had sq. space with semicircular

recesses & galleries on all four sides. The square base was later covered by a dome carried on four piers.

Church of S. Pantaleo near Philippopolis

Guide of the Nat. Mus. at Sofia, Pl. 9, Fig. 9, p. 30. 17th cent. & lower portions of the type & later times. Domes.

Rasafa (Sergiopolis) Syria, "Martyria"

Serra & Herzfeld, *Montesapite für Kunstwissenschaft*, II (1909), p. 103.

Church with semicircular apse & recesses about a central rectangular space. Believed to be tomb-church of its martyr Sergius, and to date from the IV. cent. (sic!).

Consisted of two parts: one rectangular surrounded by a balustrade the foundations of which in brick were found in several places; the other rectangular, forming a sort of apse at the west of the rectangular platform. Of the apse only a trace remains but it seems that was paved with blocks of marble or limestone perhaps forming a semicircular bench.

Then refers to Butler (Smith), Early Christian Churches, besting examples of central choir (Butler calls apses):

- List of Syrian Churches with Central Choirs
Kharab Shems, E.C.S. p. 32, ill. 31, II cont
Kalota, E.C.S. p. 67, ill. 68-69, II cont
Dêkes, ^{Constantinople} AAES II, no. 205, II cont
El Firdjeh, E.C.S. p. 161, Fig. 173, II cont
Mirajeh, E.C.S. p. 215, Fig. 216

Butler-Smith on Central Choirs, E.C.S.
p. 214, note 393.

1311-25

Butler = highest preserved in any church is one course .55 m. high & of about same thickness. The diameter of the semicircle is a little less than that of the chancel arch. Front wall has gateway in center which is on a line that evenly bisects the nave at the center of the middle intercolumniation. Mentions that there is a large space between the front wall & the chancel, a smaller space between apse & west wall of the church, & a narrow passage on each side between it & the supports of the nave arcade.

At Mirajeh (ill 216 p. 215) top of wall had holds for a rail or screen. Internally &

exterior of examples seen by Butler paved with stone or mosaic.

66 Smiths note (393, p. 214). In Sergius Basilica at Rasafa (N. Spanner; S. Guzyr, Rasafa, Tafel 17) in middle of nave was uncovered a choir - Smith corrects Butlers sedra to choir. Choir at Rasafa consisted of rectangular platform (15 m long x 7 m wide x 1.30 m high) which was mounted by a flight of steps at the E. end facing its sanctuary, and was demarcated at its W. end by a much lower semicircle only .80 m high. Along the sides of the rectangular platform were narrow vertical grooves in which were set red marble pillars that probably formed a balustrade, by means of panels between them, along the top of the platform. These pillars had plinth blocks, bases, channelled shafts & acanthus shafts. The sedra which seems to have had no obvious relation with the higher, rectangular platform, had a moulded face of polished marble around its curved sides which dropped down in two steps, on both sides, where the semicircle abutted the platform. The top of its semicircle had 2 semi-circular benches of solid masonry, a meter wide & about a meter apart, of which the outer bench was the face of the semicircle rising above its marble floor; and in the center was a semicircular platform of the same height as the two benches, or low walls. Although Guzyr suggests that the sedra was merely a raised platform for a statue of St. Sergius, it seems more likely that it was a semicircle of seats. Certainly not a mere addition to the rectangular platform since it was

Niches on Central Choir. (2)

a feature in V & VI century churches in Syria. It is the rectangular platform which is odd in Syrian architecture, as Prof. Butler found no evidence of such a platform in front of any of the semicircles. It is to be noted that the Resafa semicircle, without the platform, is placed in the nave at relatively the same position as the other Syrian semicircles, which have space in front of them for such a platform. Whether the raised platform at Resafa was an exception, or whether in the other Syrian churches there had been platforms of rectangular shape in front of the semicircles, it is impossible to say. But the Resafa example makes it clear that all the Syrian semicircles (sedras) were either choirs or parts of choirs."

MUSEE = Mélanges de l'Université
Saint-Joseph, Tome XXII (1939).

PP. J. Mattern, R. Mouterde et A.

Beaulieu, S. J. - Dir. Solait.

I. Les deux églises. II. Mosaïque
prophylactique. Le décor.

(above copied exactly)

Reference altar in center of Eglise A.
drawing in your notebook.

Position on plan = Pl. I

View = Pl. XI, 1.

Detail of plan of altar = Fig. 1, p. 12.

Description p. 12 = a large flat stone
(2.88 x 1.92 x .30) of curious form.

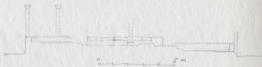
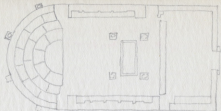
Six cuttings for bases of colonnettes for
which fragments found that fitted the
colonnettes exactly. The arks question is it
is altar? and is it an altar.

p. 13 says "it is true that it is large & its
form invisite. But its discovery of l'axe
in S. Sigeus of Resafa & especially of the
St. Babylas in Antioch attests the presence of
the altar in the center of the edifice & in
the midst of its congregation (but l'axe
considered his theory mistaken when he
saw Telemeia martyrion with apsidal
sanctuary as well as altar & considered
B. Smith's attribution as a central choir
correct). In the other churches of Syria, the
altar would have been constructed in the
"tribunes", or "choeurs", qui se remarquent
en pleine nef. Or, la tourbe pierre n'a
pas dû voyager beaucoup dans l'édifice -
it occupies its point in full view of the

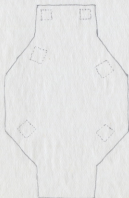
navel. Perhaps served as base for cols.
supporting roof over sanct. tomb?
Perhaps an ambon^o but more probably
an altar^o.

Ambon^o R. P. de Vaux, *Revue Biblique*,
XLVII, 1938, p. 231 from the ^o in
in Transjordanic.

Altar in middle of nave - IV cent
church at Tzippori Jerusalem -
P. Batiffol, *Rev. des sc. phil. et
Hist.*, 1939, pp. 65 sq.



Plan & elevation of Central Choir of
 St. Sergius, Rusafa. (Lorenz, *Antich II*
 p. 27)



0 1 m.

Wooden Roofs & Domes in Syria

Considerable evidence of wooden roofs over central structures in Syria, some of which were certainly domical in shape. K. O. C. Creswell, "Early Muslim Architecture" suggests that wooden dome originated in Syria.

1) 2 A.D. Haza, Merncion (Creswell, op. cit. p. 71, note 13, p. 83; G. F. Hill, *Life of Porphyry, Bishop of Haza*, by Mark the Deacon.

Mark describes its destruction in 402 A.D. "for the shape of it was round, being surrounded by two porticoes, one within the other, and in the center of it was a dome (κοίβησιον) puffed out or swollen, and rising on high (Creswell, p. 84, n. 3)." The roof was of wood, for Mark describes the fire & the burning beam which fell on the structure who was superintending the work of destruction. No reason, as Kivore & Creswell do, to assume it was conical rather than domical.


2) 335 A.D. Jerusalem, Holy Sepulchre (Creswell, p. 84).

Fact that all subsequent domes were of wood & Etychius describes the burning of it by the Persians makes its wooden construction almost certain. All early representations show it with fully revealed dome.

3) Niyasa, Martyrion (Kleinasiem. Abd 62)

4) Jerusalem, Church of Ascension before 371 A.D. Creswell, p. 76

2) Jerusalem, St. John the Baptist
Revue archéologique V series
1920, p. 83

3) Jerusalem, Tomb of the Virgin,
VI cent.  Crosswell.
p. 77. Cont.

3) 328-363 A.D. Nazianze (Birnbaum)
"Die Oktogone von Antioch, Nazianze
und Nyssa." Repertorium
für Kunstwissenschaft,
XXVI (1913) p. 195. Gregory
describes as having wooden
roof over central octagon
with an opening at the top.
Gregory uses the word *οὐρανοειδὲς*
cupola. None of its translators
have thought it possible to
have a dome of wood.

4) Fourth century. Antioch, Church
of Constantine, *Domus Aureus*.
(Birnbaum, op. cit.).
Melaltes describes its destruction
in the earthquake of 526.
Evagrius (VI.8) describing
earthquake of 588, says "many
buildings were destroyed when
their very foundations were
thrown up, so that everything
about the holy church fell to the
ground, only the hemisphere being
saved, which had been
constructed of wood from
Daphne by Ephraemius after
it had suffered in the earthquake
under Justinus." (526) (Ephraemius
was not its architect, but Comes
Orientis at the time) "It was

Foot contains
without break

tilted towards the north by the earthquake which followed^① so that it received bracing timbers; these fell, although the violence of the shock^②, when the hemisphere settled back and was restored to its right place as though it were set there by a rule."

① under Justinian in 526

② in 588

Eusebius, *Vita Constantini*, III, 50 says nothing of the dome, but only describes the octagonal plan.

? ⑤ 380-88, Antioch, Martyrion of St. Babylas. Lassar, *Antioch-on-the-Orontes*, II, p. 34.

May have had a wooden dome over central square. Lassar says a pyramidal ~~dome~~ form, but no evidence for shape. (Burials)

⑥ 379-394, Nyssa, Martyrion
(Birnbbaum, *op. cit.* p. 207; Kleinsien¹⁹²⁶
Gregory of Nyssa in letter to Bishop Amphilocheus, "Above these eight apses ... the octagon will rise. The pine cone which rises from this will be cone-shaped, the vortex (curvature) reducing the shape of the roof from a plane to a sharp point (wedge)."

"It is especially to give attention to the point that some of them (workmen) shall know how to build domes (cylindric vault; arch, domes) without frames (centering) for I have learned that when this is done it is steadier than if it rests on supports; the scarcity of wood,

indeed, leads us to this plan, namely that the whole structure shall be roofed with stones, because there is no wood suitable for roofing in these regions."

This letter gives no proof as to how the octagon was actually roofed, but does prove that wood was the common material for domes, even the Gregory wanted stone, and that in Gregory's mind the shape of the roof was that of the pine cone which was the wooden form he wanted made permanent in stone.

7) 378 (before) Church of Resurrection Jerusalem. Creswell, p. 76.

8) Fifth century. Tomb of Virgin
noted above

9) ? Church of St. John, Baptist, Jerusalem
noted above

10) Fifth century. Kalat Siman, Great Octagon.
Kroncker

attempts proof that octagon above column of St. Simeon was covered with a wooden roof.

But Evagrius says the octagon was hypocaustal, rather he may be referring to an opaeion.

11) Fifth or sixth century, Kalat Siman Baptistery.
Everyone agrees that hyp octagon

of its alcazar, had wooden roof of some slope. The stone corbels for timbers.

- 12) 7th Century. Edschoniadzin, Cathedral Steas, History of Heraclius, Macken trans., p. 77, tells how in 618 the original dome of wood was replaced by a stone one. Actually he says, "took away its timber roof," but John Kallholikos in 10th Century says "timber dome".

- 13) 512/513, Bosra Cathedral. Crowfoot, Churches of Bosra & Samaria. Sebaste; Hergfeld, Jahr. d. Preuss. Kunstsammbl., XLII (1921) pp. 119-121; Sedlmayr, Kunsthistorische Zeitschrift, II (1933); same O. Z. 35 (1935).

It has been proved that Butler was wrong in restoring a conical dome, like present one over Zorah Cathedral. Hergfeld says it must have been a wooden dome like that of the Dome of the Rock; Crowfoot insists it had a wooden roof, probably pyramidal, because he found no evidence of either brick or stone in its debris.

- 14) 515, Zorah

Butler accepted the present conical dome as original, even though it seems impossible to believe that it could have resisted all the earthquakes & has its appearance of having been built on to an existing structure.

Wulff (Altchristliche und Byzantinische

Kunst, p. 253) considers it a later addition; Crawford (Churches at Soure & Samaria - Sebaste, p. 13) insists that original must have been of wood; Herzfeld (op. cit., p. 121) says wooden; and de Vogue (Syrie Centrale, 8) speaks of holes for beams.

15) 526, *Fal'ah*. (Butler, *Early Churches of Syria*, p. 165) thinks it had a dome of brick, but the size & thinness of its walls makes this highly unlikely.

16) VI, *St. Asterion* (Butler, op. cit., p. 169) without any evidence restores it with a conical dome copied from Zorah.

17) VI, *Rusafa, Martyrion*
Sarre & Herzfeld, *Arch. Reise im Euphrat- und Tigris Gebiet*, II, pp. 28-38;
H. Spanner & S. Thayer, *Rusafa*, 1926, pp. 29-30.

Alois Musil, *Palmyrena* (American Geographical Society, *Oriental Explorations & Studies* No. 4) pp. 156-157, 170-171, 303-308.
Pyramidal roof of wood.

18) VI, *Rusafa, Central Church*
All op. cit. & Butler, op. cit. p. 170, fig. 182.
Restoration by Herzfeld shows wooden cupola of pyramidal form.

19) 464-465, *Teress*
Church of the Prophets, Apostles & Martyrs.
Crawford, *Teress*, p. 191
Probably a "timbered lantern," "though a light dome of volcanic scoriae is not inconceivable."
The solid walls of the chambers in its four corners suggest towers roofed with domes as

suggested by the 7th century mosaic at Khirbet Mikhayyat (Pl. XXV, c).
"In Hama, as in other places in Syria, bricks and tiles were not used." p. 187 ?

20) 531 Hama, St. John the Baptist.
Crowfoot, p. 193. "the dome or lantern, which was almost certainly of timber."
"No fragments of volcanic scoriae were found on its floor of the central part of the church." p. 204.

21) 616-628, Jerusalem, Anastasis
Cresswell, p. ---
Original dome had been restored by the Monk Modestus. Eutychius tells how the Patriarch Thomas (807-820), when the Qutba fell, sent to Cyprus for cedars & pines, introducing the timbers in place of those erected by Modestus. He then covered both sides with plaster & finished exterior with lead.

22) 685-705, Jerusalem, Dome of the Rock
Cresswell, fig. 10.
Here was a bulbous dome of wood, built originally with three sections, which could not have been invented by the Arabs who had no such tradition & were entirely dependent as conquerors upon Syrian craftsmen. Moreover the structure follows very exactly, even to its design of the mosaic floor, Syrian models. At this time the Arabs had not conquered Persia, but immediately throughout Syria & Egypt adopted the wooden, bulbous dome for their mosques, indicating conclusively that there must have been

building

a long tradition of wooden domes, as there would never have been such a flourish of them.

23) Eutychiid (Pococke ed. II pp. ²⁷²⁻³¹ Clermont-Ganneau, Recueil d'archéologie orientale, III, pp. 89-90) tells how Kalif al Walid was so anxious to copy certain features of Christian churches that he carried off from a church at Baalbek the dome (qutba). Clermont-Ganneau thinks this refers to the qutba of a ciborium, but if we recognize the existence of wooden domes on Christian churches it may have been the external dome.

Wood Roof on Central Buildings in Iran

In his *Altai-Iran, Asiens Eldende Kunst*, and *Alt Slavische Kunst*, Stroggowski raised the question of a central Asiatic tradition of small wood construction by means of corbeling at its corners which he never developed beyond a general statement.

We have the presumption that shelters were at first made of pliable materials with partitions & surfaces made of skins, smelting & fabrics. This type of shelter was closely allied to the tent which was common in Persia in Seleucid times. Can we see the influence of the tent on heavy shelter on the brick architecture of Asia. Stroggowski, *Asiens Eldende Kunst*, p. 167 shows how a circular brick shelter is built in Sionshan.

Also in central Asia we have evidence of an architecture of small wood construction discovered by Sir Aurel Stein. Considering the importance of wood in the early architecture of China, India, Egypt, Asia Minor it now seems possible that this wooden architecture may have originated in Asia, or at least been influential there in its transmission. But we are dealing with an important factor of which we know very little.

In India the ancient Sanskrit literature while vague & brief gives the impression of a primitive construction in wood & assigns chief importance among all craftsmen to the carpenter-builder. The lack of an bldg. remains suggests wood, while the evidence of Megasthenes, Ambassador of Alexander to the great Indian court (Strabo, II) and Arrian (Indica, II) is further valuable evidence since they describe city walls of wood.

Valuable evidence comes from the Buddhist bas reliefs & rock-cut examples, III-IV cent. B.C. Vaults & octagonal domes are all corbelled ~~and~~ with development of stone cutting at time of contact with the west (Foucher, Les Bas-reliefs Greco-Bouddhiques de Gandhara, pp. 116-117, 125-6. In Kashmir region, 8th century, have pyramidal lantern roof, or double roof, sometimes with corbelled dome, also corbelled corners. Foucher, p. 143; Ferguson, fig. 283, 289, 295. Effect is very much like Armenian churches & wooden synagogues (Jankowski, "Wooden Synagogues of Eastern Europe", Berl. Mus. Jan. 1925. But impossible to say

whether this wooden tradition was indigenous or introduced by Iranians, or Mongols from China or Nestorian Christians.

What it does prove however, is that behind stone forms, such as we see in Armenia lies a wooden tradition; that over much of Asia from Caspian to China was a tradition of roofing a square room by small pieces of wood laid across corners [Paulzigy, Holzgrund (ca Holz und) Stein Kirche in Ukraine] with stone survivals of it in the stone tombs of Kertch, etc.

The evidence does suggest that the Persians knew the tradition of corbelling corners in wood. Hence when they took over dome, they passed rapidly from wooden squinches to arched squinches which became Sassanian squinch (Pibat-i-Safit).

Summary

A. Syria.

1) Many central churches in Syria, all with mortuary significance or implication, which could only have been roofed with wood, & no reason from the archaeological evidence not to assume a domical form for some of these roofs.

2) Domical form was well known in Syria from at least 2nd century A.D.; in this region the stone cutters probably evolved the pendentive; & there was a symbolic or traditional association of dome with tomb or mortuary shrine; we have free-standing cut stone domes which were copied from something; & there is some documentary & representational

evidence for the use of free-standing domes of wood.

3) If we can assume a tradition of wooden domes, which had symbolic significance & could have been given a monumental form structurally, then we have to attack problem in a new way. The problem of the dome in Iran centers around its " Sassanian squinch."

4) In the 8th century when the Arabs set up an Islamic society in Syria they could not have gotten the wooden dome from Arabia or from Persia both of which countries were lacking in wood timber. Furthermore it is contrary to all precedent & expectancy to imagine that they had craftsmen who could either invent or build such a complicated form. Yet they used both the wooden & the cut stone dome on their mosques & tombs, & the idea of the domical "Shiikh's tomb" as a shrine persists in Egypt & Syria. Where then did they get the idea & the methods of constructing wooden domes? The only answer seems to be, Syria.

5) In fact we can imagine a theoretical development of the wooden dome from the conical roof, covering a concealed dome, for which it becomes desirable to find an exterior expression.

of dome Sapherhan. Strykowski, Asiens Bildende Kunst p. 420 Fig. 437.

B. Iran

In dealing with the Iranian dome, for which we must keep in mind the

interrelations between Iran & Persia & ask the following questions.

1) How did the Sassanid squish develop? — in wood or brick or stone?

2) Is Strzygowski's explanation of its origin satisfactory? Strzygowski: *Asiens Bildende Kunst*, p. 173-184.

3) When & how did the Iranians get the idea of a monumental dome? If it was part of their Iranian origin why do we find no indication of it in Achaemenid or Parthian architecture? Was it first developed on their fire temples & transferred to their palaces? Does wood enter in? Did Sassanid have wooden, domical shrine idea as result of Indian influence.

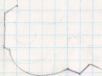
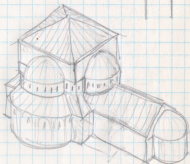
4) Is it possible that its use in Iran has more than one origin: a) a primitive house shelter in wood associated with shrines of sacred fire? b) a wooden form in Syria connected with shrines which was first adopted as a wooden form on Parthian fire temples, but later, because of scarcity of wood was translated into brick? c) a idea in Sassanid period was put on palace to show divinity or greatness of king; perhaps because of its form, suggested an early Iranian tradition of the canopy of heaven, the divine umbrella, etc.

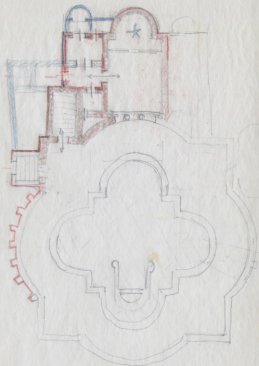
5) Did the dome come to Iran direct from Syria at the hands of a) Syrian workmen, b) Nestorians & Jacobites, c) prisoners of war, d) or Iranian captives?

6) Have already suggested that Armenian domes imply a wooden origin plus probably an influence from brick architecture of Iran.

7) If dome was so essentially Persian why did British not use it at Firouzabad in a concealed form, whereas I saw use it at Ctesiphon & only at Sarvestan in 12 century A. D. does it appear in monumental form.

8) Must not use 1 theory to prove another





Note of incidental find of mosaic:

5-20-f

In bank of Hava ^(Sivriçay) Kalyanlian (= father from Cyprus) in 5-20-f, along path to basket.

Digging irrigation ditch in garden between mulberry trees came on mosaic pavement at 1.00 m below surface of ground. 13 Aug. 1938

Uncovered small section of 9 found badly broken = circular border + grapes.

Developed further from Sunday, 14 August through Friday, 19 August with small crew working among trees & uncovered semi-circular aisle⁽²⁾ (= apse?) paved with mosaic representing procession of animals & birds + trees, recettes & plants.

Construction = inner wall of semi-circular structure large limestone blocks of irregular dimensions, some wedge shaped, dressed down with faint-toothed edge. laid radially to center.

Mossie Payment:

Center = undermost section broken.

Thin between 2 rows of black =
succane within which are grapes, buds
a few. Colors of succane: stems are dark
violet, dark brown & grey & greyish violet;
leaves are dark green, black, greyish violet,
also some yellows.

SURFACE OVER MOSAIC. 12-8-38
COINS:Cb4337

SURFACE ~~ON TOP OF~~ MOSAIC FLOOR. 20-8-38
COINS:Cb4446

POTS: Some Hellenistic red varnished
and Roman to Late B

1 stamped cup.b739-P 2431

LAMP: 2 Roman Antioch group VI

MARBLE: fragment of relief decoration
/: b740-S 555

SURFACE OVER MOSAIC. 22-8-38
COINS.Cb4481

Rough Notes on various wordings for final descriptions of plans.

The church is of the central type with an interior arrangement of four semicircular apses projecting from the sides of a square. In the center is a large rectangular choir with an apse which occupies the west apse. The apses are open and bear colonnades that give access to an encompassing ambulatory which repeats the pattern on the form of the central unit (which follows the outline of the central unit). The wall of the ambulatory forms the exterior wall of the building which was ornamented with an applied colonnade.

The church is of the central type with an inner quadripartite formed by colonnaded, semicircular apses. Within the basic square of the quadripartite is a large choir with an apse that almost fills the west apse. Around the apses is an ambulatory partaking of the same form of the quadripartite so that the exterior of the church displayed curved walls on each side.

The church is of the central type with an interior quadripartite formed by four colonnaded, semicircular apses around which was an ambulatory with an exterior wall following the same curvature. Foundations for bases projecting from the exterior wall indicate that this was ornamented with an applied colonnade. In the center of the church is a large rectangular choir, etc.

The church is of the central type, the basic elements ^{of the plan} consisting of a square within a square, although only the angles were built up in the actual construction. Four colonnaded tetrads project from the sides of the inner square forming a quadriport; around the tetrads and within the angles of the outer square is an ambulatory (which follows the plan of the central unit).

General Description of Plan as Uncovered.

The church is of the central type, the basic elements of the design consisting of a square within a square, and a projecting eastern choir.

Only the angles of the squares were built up in the actual construction, since semicircular, colonnaded apses were projected from the sides of central square, forming an interior quatrefoil, and an ambulatory was placed around this following the same plan, so that the exterior walls of the church were curved between the angles of the outer square.

General Description of the Elements

Angles of the Central Square:

The SE & SW angles are the best preserved (photo 5507 for SE, 5515 for SW). These are constructed of limestone blocks carefully quadrated but not dressed to a uniform smoothness: the tool used for finishing them was a stone edge with teeth ca. .002 wide & ca. .0035 m. apart.

General Observation on Plan

Period I: Naturally this period represents the architect's church. As originally conceived and designed it is a well balanced, harmonious plan presenting an interesting and logical solution of the central type church. The projecting eastern sanctuary approximately balances the central square plus the western apse.

It seems to be an imperial church designed by a court architect not conversant with the local peculiarities of the Syrian church plan which almost invariably include 4 side chambers (prothesis & diaconicon) flanking the sanctuary, and probably a central chancel or altar. However, when the church was reconstructed these Syrian features were added.

Another interpretation may be advanced: that the building was not designed as a church but as a mausoleum (or some other structure) and that it became a church only after its reconstruction when the side chambers & central chancel or altar were added.

Note placing of portals: as though to be placed in the center of a precinct accessible from all directions. Therefore architect did not design it for this particular spot where at least one of the doors seems not to have been used; but perhaps there is an extensive garden to the north in

which he supposed the church would
be set; then, for some reason it was
shifted to the S. near the S. wall of the
town.

Note on Periods of Pavements.

Period I

Mosaic of ambulatory
marble floor of E ambulatory
laid E-W.

Marble floors of N. + S. exedrae
laid N-S.

Marble floor of E. exedra laid
E-W.

Marble floor of central section
laid E-W & extending into W
exedra.

Period II

Then when built central choir,
took up a line of marble slabs
along S. side & fitted S. side of
Chapel flush to it. But impossible
to make this same adaptation on
N. side because would involve
too wide an apex to make
adjustment into W. exedra.
Therefore, put in a new marble
slabbing which is not of same
type nor does it fit so well.

Opus sectile in angles in
baptistry.

Check this by tracings restoring all
floors of all periods.

Check floor levels of each church
carefully.

General notes before complete clearing & final cleaning.

①

2 } On the east side of the building is a small rectangular structure of an earlier period which was ^{partly rebuilt} incorporated into the plan of the later church. In its original plan this small building formed a single architectural unit: the west end had a straight facade in which was the entrance, the end turned out in a large semicircular apse. A small section of the original wall is preserved on the south side of the apse revealing this as constructed of carefully squared blocks of limestone. The thickness of the walls would permit only a covering of wood & tiles.

~~Later period~~

Then ~~a~~ a large embellishment to this simple ~~movement~~ ^{in the form of a large central type church} was added to the west end. At this time most of the walls were rebuilt and the floor level raised ^{several} ^{feet} ^{which} ^{indicate} a considerable passage of time.

①

Better beginning = the original building of the preserved complex of structures on the site was a small rectangular

2. No! Eastern stone & martyrion built together at one time & then rebuilt after destruction

(- some)
A doorway was opened into the north wall giving access to a series of new rooms which ended in an apse (or apses) flanking the larger apse of original building.

The west facade was removed and rebuilt into a well defined portal opening into the east ambulatory of the long church on its E-W axis.

The church was designed with four large exedrae opening out of the sides of a central square. Around the exedrae was an ambulatory separated from the exedrae by six Corinthian columns, some of which were of the

NO - fault the south
west - tower type. Within the

W. exedra, directly opposite the small original structure to the E, was a small rectangular tribunal

with an apse at its west end. The central area, ^{the} exedrae, ^{the} ^{of the original} ^{structure} were paved with marble laid in opus sectile; the ambulatory and the apse of the original building were paved with mosaic.

(then to description of mosaic?)

Details
Decorations
Doorways

i. e. after wall was built a section wide enough for the insertion of this wall was torn out & this spur wall built into the break; also small rubble was fitted into the remaining section of the ambulatory wall - in short, this spur wall was tied into the ambulatory wall after the ambulatory wall had been constructed & is therefore later than ambulatory wall, which makes apsidial also later.

On inside of ambulatory wall are four rectangular pieces of marble pavement - ca. 30 x 30 x .22 coarse - ground gray. These may not be in position since there is ca. 3 ft. of concrete first between them & wall.

There is no trace of the exterior dressment of the wall.

Just beyond the join (rubble bonds in center) of the exterior ambulatory wall and the S. side of the W. angle is a large limestone block designed for the E. jamb of a door. This rests on a well-dressed limestone block which has been dressed as a threshold with a door sill & door socket. But no other trace of a door remains, the wall continuing in a construction which contains rubble & roughly quadrated blocks of limestone. Problem - ① was this door actually ever completed and later walled up; or ② was the door designed in plan & begun but not completed? Ans. is ① because construction is poorer within portion of former doorway which was probably walled up after construction of S. apsidial between S. ambulatory & city wall blocked up across so this portal. At time of walling up of doorway the well-dressed threshold was removed for reuse, leaving only E. section which was left down to E. jamb & substituted by continuous rubble.

S-20/21 - J. Merdyon

Notes on S. exterior & ambulatory (continued).²
This is an interesting reflection on some mason who was given the job of walking up the door, he substituted a rough limestone block & gained a well-dressed one. Remaining section of threshold partly soiled with adze whose teeth were 005 wide; well dressed with coarse-sootled adze, 003.

Just beyond the join of the exterior ambulatory wall & the S. side of the W. angle of the building is a wide mould corresponding to one in similar position on N. side.

Pavement of ambulatory

Originally of mosaic like N. ambulatory but only a very small piece preserved in middle of central section and a small part of the mosaic border preserved at the E. end of the colonnade.

Colonnade between exedra and ambulatory.

Between the ambulatory and the exedra was a colonnade of seven ^{mainly} columns; one on the N-E axis of the exedra and three of each side of it.

Each column had a foundation consisting of two blocks of roughly quadrated limestone, between which were sleeper walls of rubble.

The column bases had square plinths (ca. 75 x 75) above which was a large torus, a small torus, a scotia, ^{a small torus} finally a large torus to the top of the base which was ca. 61 cm in diameter. A fragment of a shaft of blue-grey & white marble was found here & also a battered Corinthian capital of the same material which Lassus would date in the VI century although he would not hesitate to date this ca. 490.

Between the columns the sleeper wall was surfaced with a masonry of lime & black sand in which were fragments of marble revetment. This mud was drossed smoothed & then received a marble floor of which the best ~~part~~ ^{part} is under columns of the E. side as preserved. 81 cm. wide. The S. side of the sleeper wall is neatly laid in an arc which makes a perfect join with the remaining section of the border of the mosaic. But the N. side of the sleeper wall is not neatly drummed into an arc & the pavement of the exedra comes up over the edge of (spiral base) it to make a neat semicircular join with the pavement of the underambulation. Both pavements have sunk considerably showing that the soil was not carefully rammed.

5-20/21 - 1 Martynson
Notes on S. exedra & ambulatory (continued)³
Pavement of exedra

The exedra was paved with slabs of marble:
677 x 92 x .035 is dimension of only completely
preserved one = large-grained white & grey & white.
This marble runs to the S. wall of the tribune.

Southeast Angle; inner wall

cf. photos. of construction + plans + elevations

Construction of wall of inner angle =
88 x 60 x .54 is largest & best preserved
block here but the construction as well
preserved up to a height of +.87 m above
col. base at E. end of colonnade.

Construction is of large limestone blocks
carefully quadrated but not dressed;
trimmed with stone edge with thick .002 wide
ca. .0035 apart. Joints were close but no
trace of binding material left; joints were
broken. Blocks are of no regular size &
space ^{in S. wall} is adjusted by insertion of
narrow stone .125 m face & .60 m high
which is a feature of late masonry.
Wall has irregularly placed holes in
masonry for reattachment hooks.

As fill in center of wall within faces
is a rubble & cement fill = fine dark sand
& lime & hard.

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East apse & dependencies. ①

Outline for notes.

W. wall of main apse & E. wall of E. ambulatory are same wall & were built at same time; profile curve of ambul. cut on same stone slab from W. wall of main E. shrine. Also contemporary with this original construction is S. jamb of the large bridge-in-aisle portal; & also S. col. base of portal with \oplus on top of base at E. edge. Corresponding col. base missing but position marked between post holes of balustrade. Note cuttings for post holes of balustrade & double cuttings between cols. as marked on sketches & plan. N. jamb has been entirely reconstructed in rubble & hard cement of fine dark sand & lime; this laid on top original masonry wall of ambulatory & E. shrine.

N. & S. corners of W. wall of main E. shrine: all data at present available points undoubtedly to fact that as originally constructed the church had only the main E. apse and not the two side aisle dependencies which added later. Evidences: all along even rebuilt N. wall the walls of dependent rooms are laid against & do not bond with rebuilt construction; at E. end of W. wall at join of baptistry wall & main apse the construction does not bond with original construction of main E. apse but laid against it & of diff. material (rubble concrete while apse of quad. limestone was rubble concrete fill); also at N.

end of S. wall of main apse construction of S. dependencies is obviously later & does not bond; at E. end of S. wall of main apse is conclusive proof the S. side aisle added later:

→ N.



div.

rubble construction of bottom course laid against SW end of apse with several limestone blocks on top.

Only check left would be to dig below water level for foundations but in view of overhanging exterior left above ground seems certain that original church had only single apse & that of side aisle depend. were added later.

N. wall of main E. shrine = rubble construction with well fitted rubble & cement of fine & fine dark sand. Door in N. wall as noted on plan. Impressions on top of wall at E. end of section purpose.

At E. end N. wall as reconstructed bonds with baptistry wall which is thus cordoned with reconstruction; but this is laid over & does not bond with original construction of apse, masonry of which runs under the later concrete & rubble.

E. apse wall = well squared limestone blocks of irreg. shape carefully trimmed & laid with rubble fill & like W. ambulatory. Note reattachment holes. At SW end original construction remains & goes into rebuilding of S. wall laid against it.

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East Apse & dependencies (3)

S. wall of main shrine: late post rubble reconstruction = rubble & mud + old mortar etc.

Walls rivetted with mortar of which few frags left along bottom of N. wall

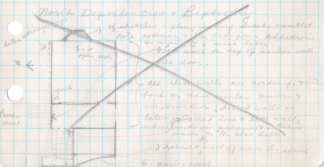
Floor in front of apse = slabs of marble as in S. apse.

Foundation for altar screen across apse irregularly cut & not trimmed to some round blocks (examine latter part year). Post holes as cut to bases which are covered at Ardook but no trace to draw this year.

Floor of apse & surface destroyed, only remaining evidence is line of small brick tiles along NE side; probable late.

Later: scrap of untraced mosaic at SE corner.

North Dependencies & Repeating



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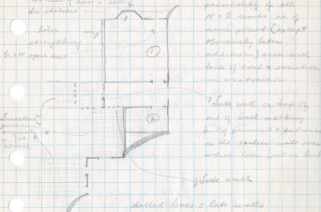
East Apse - dependencies ④

note 1/2 hexagon, all thin
to rear of apse = late
see sketches

must consider
possibility of all
N. S. walls as of
same period (except
thoroughly later
addition) even with
lack of bond & variation
in construction

late
strengthening
to NW open wall

limonite
pancake
in NW
corner



late wall on top of
end of wall marking
end of presumed entrance
in the earlier wall over
which later wall is built

late wall

dotted lines = late walls.

① Baptistry & standing with rebuilt N. wall
of main E. shrine & walls back

② Contemporary with baptistry; walls do not bond
with N. wall of E. shrine; has triple floor
back on top of heavy limestone pavement
which was originally put in angle outside
N. & S. walls of main E. shrine & E.
ambulatory. The actual construction
does not change much from baptistry &
mortar much same but rubble not so
carefully laid & more bricks used tho' thick.
This seems identical in construction to
S. dependencies corresponding with baptistry.
However probably S. apse & baptistry
are contemp., even tho' construction a little
different. - thick rubble & brick construction
in S. dependencies.

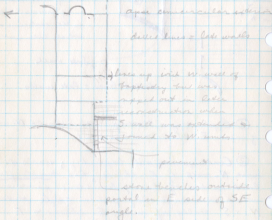
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East Apse & Dependencies ⑤

South Dependency's Ladder?

Open middle construction, retained in late period, but where original construction is preserved this seems similar to North Dependencies.

Impossible to check by digging, found because of water table.



Problem: were N. S dependencies all constructed together, or was baptistry built first, & ladder after series. Above more logical all done together except later walls in spite of lack of bonds & slight difference in construction.

5-20/21 - J. Martynio

Outline

North Ambulatory & Esadra.

Outer wall destroyed to foundations = rubble & concrete.

Mosaic bed.

cubes = 01

concrete = 03

rubble = 12-14

Esadra sleeper wall out to foundations.

Col. base at corner NW angle but not in position.

Some stone blocks at NE angle below foundations, use not clear.

Trig. mosaic in NE corner angle =

Pear tree of shades of violet & green & grey-green; to you r. is head of unicorn in violet.

East Ambulatory & Esadra.

Outer wall destroyed to floor level except at S. part of entrance to E. apse.

Inner wall with colonnade as patch with frag. of pavement within. Col. bases = coarse-grained marble.

Pavement of esadra = marble slabs

Pavement of ambulatory = marble slabs to entrance opposite entrance to E. shrine.

To N. of this = mosaic pavement, left in situ due to decision of Turkish Director General of Museums that mosaics must remain in place. This frag. has mosaic border with stem with buds & grapes in violet, grey, black.

Frag. of rosettes, see, birds & animals in
color scheme of violets, greens, blacks &
reds. Best preserved a group of
horse, peacock & bird; will wait
for sealed sleep. Will cover with
sand in attempt to preserve.

To S. in corresponding position is
frag. of two open scute pavement.

S-20/21 - G. Martynion

{ drums? are
cut when amb
wall app. open
by choir

Outline

N. ambulatory + exedra.

Note fine construction of original wall which is preserved here. Note drains through wall. Always a low wet floor; foundations not deep & rest on gravel or bed rock.

No trace remains of ambulatory pavement.

Exedra wall has strengthening at 2 col. bases which may explain limestone blocks at E. end of N. or wall.

Exedra occupied by Vo. end of choir. Around it are fragments ofopus sectile pavement in d. grey, red + white marble.

5-20/21 - J. Martynov

Outline

Exterior angles:

NE. In N. wall = 2 portals with heavy limestone pavement in front & large calc. base in NW corner of pavement. At N. of pavement is back property wall of reused material, poorly built & not in line; has opening opposite pavement. This seems main portal - nearest main N-S street leading from port to market to market gate in nearby city wall.

In E wall, also double portals which were rendered useless by addition of later constructions; also limestone pavement outside of these.

SE. In E. wall is wide single door with limestone pavement outside & stone benches on N & E sides of this.

In S. wall also wide single door with E-W earthquake scar.

Access to both doors from walled road leading E. to main E-W street to Market Gate. No indication of entrance in this wall to small chapel outside S ambulatory. Further excavation must be made here, around chapel to connect it with rest of monument.

SW. In S side = walled up door. In W side = single door, well frag. Limestone pavement & walled roadway leading to W. important to follow for lower city plan. Masonry in this angle preserved but badly shaken up by earthquake.

NW Single portals in both sides with
section of space outside W. one. Walled
road \rightarrow N. Masonry of angle well
preserved - original.

Interior angles as drawn & photographed.

5-20/21 - J. Martynson.

Choir

Earliest extant construction is W. apse which is constructed like 31a baptistry & S. ambulatory & hence dates with first main reconstruction. No element of evident construction is like original church walls in method of construction or material but is exactly like baptistry construction.

Within this apse wall has been added later's great mass of poor small rubble so greatly thickening its walls - possibly for pushing in dome? or for seats. Original apse was open & wall finished with cornice molding carved on exterior with same as as seen to P. U. from direction.

N & S. walls do not bond with apse walls but are poor later construction. Section of S. wall has mortar like 1st apse wall. But in general whole construction is very poor & as later.

Division wall at E end bonds with S. wall but not with N.

Floor level of E. section + floor level of exterior.

Summary:

Original apse was contemp. with 1st major reconstr. = baptistry.

Rest of walls do not bond with this & are poor miserable affairs of later reconstruction.

Revetted with masonry.

Evidence says no choir in original monument.

Problem is to have walls follow orig. plan - probably

on account of similar masonry in some sections of this wall.

S-20/21-f. Martynov

Date:

Frag. of W. blown car caps. over W. ambulatory but probably out of position

Building periods:

I. Central unit + single eastern apse + mosaic pavement + marble floors

II. General reconstruction in some cases from ground up as in S ambulatory + E. atrium.

Additions: DN. + S. dependencies to main E. atrium.

② Chapel off S. ambulatory.

Chapel outside S. ambulatory is same masonry + construction as Captivity, well showing its age in detail.

S. ambulatory wall rebuilt at some time. Mosaic south ambulatory = frag. of animal + rosettes + successive border but completely destroyed.

Covering = Abundance of roof tiles found around bldg. on surface.

Many reused ancient blocks even in original construction.

Marble Forum

- E. colonnade: Earliest Col. bases: Cor. of II. A.D.?
Opus sectile pavement base?
Floor opus sectile is
At corner barely laid base
many early marble caps but badly sectioned
Behind colonnade - large part of fabric
of cement material - wall to wall
against a wall of reused masonry
of limestone & limestone cols.
good place to clear for statues, &
also under had of fence guard
The fabric faces a core of cast
concrete & large limestone rubble.
- N. colonnade masonry base with some fairly well
preserved Cor. columns & caps
of II. cent.?
- W. Colonnade also masonry base.
At S. end small section of wall
behind col. laid base with
masonry of header & stretcher
~~with~~
~~at~~
- S. colonnade Dig only at E. & W. ends; W. end
better than E. & here a few
early remains
- Center not cleared.
- Best possibilities for late & probably poor
late antique architecture & sculpture.
Would excavate center & S. colonnade
also digging to E.; and dump toward
sea. Easy to clear, probably quick
results.