

DETAIL #1
BACKGROUND INFORMATION

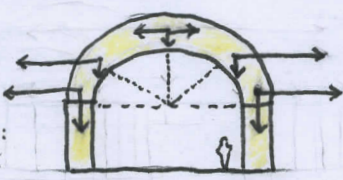
NAME OF SELECTED STRUCTURE OR DETAIL:
STANFORD UNIVERSITY MAIN ARCADE
NAME OF THE ARCHITECT:
SHEPLEY, RUTAN, AND COOLIDGE
DATE:
1887

REFERENCE(S): ARCHITECTURAL RESOURCES GROUP;
PROJECTS - STANFORD (argf.com), WESTERN ARCHWAY
OF STANFORD UNIVERSITY MAIN QUAD, Brian Sphere,
22 MARCH 2008. (commons.wikimedia.org) + keywords,
MEMORIAL ARCH ON INNER AVADRAVULE,
(cardcow.com/ivizwall/65034)

REASON FOR SELECTING THIS PARTICULAR
STRUCTURE OR DETAIL:
I LOVE THE RICHARDSONIAN -
MISSION STYLE AND MY FAMILY
MEMBERS HAVE ATTENDED STANFORD.
I FIND THE LOW-SPRINGING POINT
ARCHES AND DETAILED ARCADE
TRULY BEAUTIFUL.

THIS ENTRANCE ARCADE FEATURES A TRIPLE -
ARCH ARCADE AND A SERIES OF LOW SPRINGING
POINT COLUMNS FOR SUPPORT.

BONUS: HISTORY OR EVOLUTION OF THE
SELECTED STRUCTURE OR CONDITION
CONSTRUCTED OF UNREINFORCED MASONRY
WITH A TOOLED-FACING OF LOCAL
SANDSTONE. THIS ARCADE IS THE
ENTRANCE TO THE OLDEST PART OF
THE STANFORD CAMPUS. NOW CALLED
"OLD QUAD" THESE ARE THE ARCADES
THAT CONNECT TWO MAJOR QUADRANGLES.

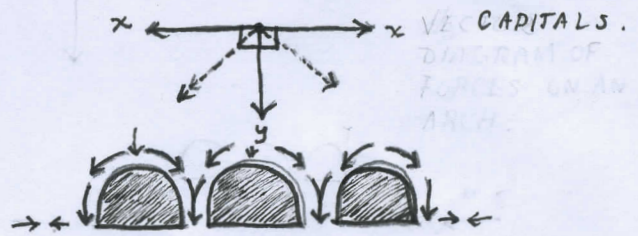


MATERIALS:
SANDSTONE
FOR MAIN
WALLS.

THE ARCUATED
STRUCTURE HAS
HORIZONTAL AND
VERTICAL COMPONENTS
OF FORCE.

A PERSPECTIVE + DIAGRAM

STONECUTTERS FROM ITALY CARVED THE DETAILS
ON THE ARCHES AND THE COLUMN-TOP



ARCHES DISTRIBUTE THE HORIZONTAL
AND VERTICAL FORCES OUTWARD ALONG
THE ARCH AND DOWN THE COLUMNS. ARCH-
MULTIPLES SUPPORT OUTWARD FORCES.
THE MATERIAL USED IS EXTREMELY
IMPORTANT, ITS WEIGHT AND COMPRESSIBILITY
AFFECT (AN ARCHED) SERIES' SOUNDNESS.

B PERSPECTIVE + DIAGRAM

BUILDING TECHNOLOGY I/ ARCH 20411 PROF. A. BUCELLATO FALL 2013	SHEET TITLE: STANFORD UNIVERSITY ARCADE	DATE: 9.10.2013	SHEET NUMBER: 1
	PROJECT TITLE: SEEING & DESCRIBING FUNDAMENTAL TECTONICS DETAIL # 1	SCALE: VARIES	
		DRAWN BY: MARTIN P. BURNS	