

GEORGE P. SHULTZ BUILDING: ASA APPLICATION

STANFORD PROJECT # 5413 BLDG ID 03-140 PARCEL # 142-07-085  
580 SERRA MALL, STANFORD, CA 93405

CAW  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING  
  
HOOVER INSTITUTION  
  
580 SERRA MALL  
  
STANFORD, CA 93405

SHEET TITLE

ASA SUBMITTAL SET  
COVER SHEET

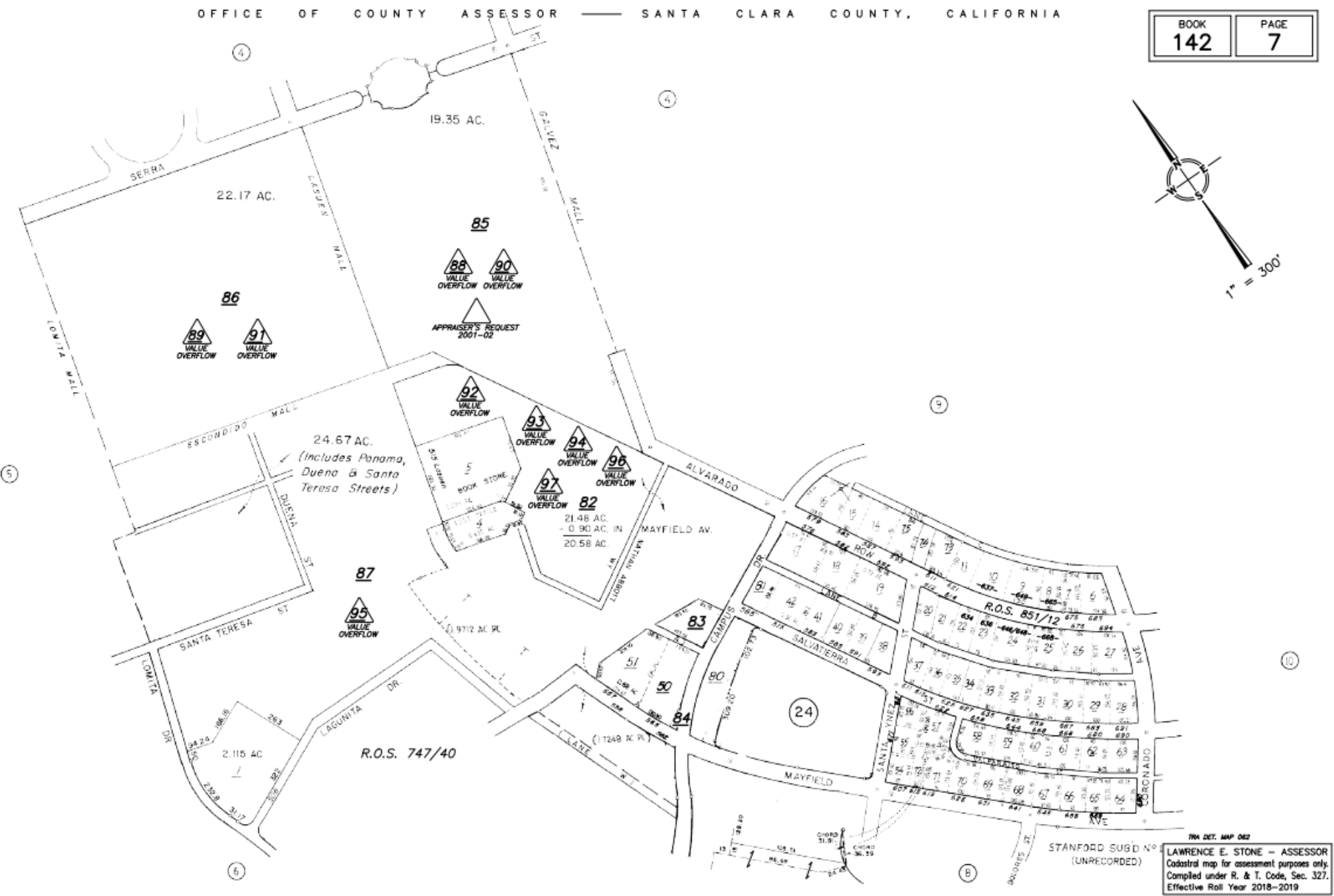
PROJECT NO. 14029

DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

SHEET

A0.00



ASSESSOR'S PARCEL MAP: NTS



SITE AREA PLAN: NTS

SHEET INDEX - ASA

- GENERAL
- A0.00 ASA SUBMITTAL SET COVER SHEET
  - A0.00C EXISTING CONDITIONS
  - A0.00D GUP ANALYSIS - LHHB
  - A0.00E GUP ANALYSIS - SHULTZ
  - CIVIL
  - C1.00 EXISTING CONDITIONS
  - C2.00 SITE UTILITY DEMOLITION PLAN
  - C3.00 SITE UTILITY PLAN
  - C3.10 STORMWATER MANAGEMENT PLAN
  - C4.00 SITE GRADING PLAN
  - C5.00 SECTIONS
  - C5.10 SECTIONS
  - C5.20 SECTIONS
  - C5.30 SECTIONS
  - C6.00 EROSION CONTROL PLAN
  - C7.00 FIRE TRUCK TURNING EXHIBIT
  - C8.00 CIVIL DETAILS
  - C8.10 CIVIL DETAILS
  - C8.20 CIVIL DETAILS
- LANDSCAPE
- L0.0 KEY PLAN
  - L1.0 TREE PROTECTION AND DEMOLITION NOTES
  - L1.1 TREE PROTECTION AND DEMOLITION PLAN
  - L2.0 MATERIAL SCHEDULE AND NOTES
  - L2.1 LANDSCAPE SITE PLAN
  - L3.1 IRRIGATION PLAN
  - L3.2 IRRIGATION NOTES AND WATER CALCULATIONS
  - L3.3 IRRIGATION DETAILS
  - L3.4 IRRIGATION DETAILS
  - L3.5 IRRIGATION DETAILS & LEGEND
  - L4.0 PLANT LIST AND NOTES
  - L4.1 PLANTING PLAN
- ARCHITECTURAL
- A1.00 BASEMENT B2 PLAN
  - A1.01 FIRST FLOOR PLAN
  - A1.02 SECOND FLOOR PLAN
  - A1.03 THIRD FLOOR PLAN
  - A1.04 FOURTH FLOOR PLAN
  - A1.05 ROOF PLAN
  - A2.08 BUILDING SECTIONS
  - A2.09 BUILDING SECTIONS
  - A2.12 MODEL VIEWS
  - A2.13 SITE ALIGNMENT
  - A2.14 HEIGHT COMPARISONS
  - A3.01 EXTERIOR ELEVATIONS - EAST & WEST
  - A3.02 EXTERIOR ELEVATIONS - SOUTH
  - A3.03 EXTERIOR ELEVATIONS - NORTH

CODE INTERPRETATIONS

OCCUPANCY TYPE:

- A-2 FIRST FLOOR
- B ALL FLOORS EXCEPT FIRST
- S-2 BASEMENT

TYPE OF CONSTRUCTION: IIB

STRUCTURE RATING: 1 HR FROM 2ND FLOOR SLAB, 1ST FLOOR SLAB & STRUCTURE SUPPORTING LEVELS 1 AND 2.

FIRE SPRINKLER: YES

BUILDING HEIGHT: 69'-4"

ALLOWABLE HEIGHT: 75'

BUILDING AREAS:  
BASEMENT: 11,449  
FIRST FLOOR: 10,872  
SECOND FLOOR: 11,132  
THIRD FLOOR: 11,132  
FOURTH FLOOR: 10,887  
TOTAL: 55,472

ALLOWABLE AREA:  
A-3 32,043  
B 77,579

PROJECT DESCRIPTION

DEMOLITION OF EXISTING LOU HENRY HOOVER BUILDING EXCEPT FOR SOUTHEAST CORNER WHERE IT CONNECTS WITH HOOVER TOWER. REPLACEMENT WITH A NEW GEORGE P. SHULTZ BUILDING, WITH 4 STORIES ABOVE GRADE AND 1 BASEMENT LEVEL.

NEW BUILDING CONNECTS WITH BASEMENT AND SITE RAMPS OF EXISTING HERBERT HOOVER MEMORIAL BUILDING. THE NEW BUILDING PROGRAM INCLUDES GATHERING SPACE ON THE FIRST FLOOR AND OFFICE SPACE FOR FLOORS 2 TO 4. BASEMENT WILL INCLUDE A DIGITIZATION STUDIO, STORAGE ROOM AND MECHANICAL SPACES

NEW BUILDING WILL BE FULLY SPRINKLERED.

SITE DATA INFORMATION

GENERAL SITE INFORMATION:

APN: 142-07-085  
PARCEL SIZE (WITHIN LIMITS OF WORK): 19.35 ACRES  
DEVELOPMENT DISTRICT A1: A1  
LAND USE DESIGNATION ACADEMIC: ACADEMIC  
BUILDING FOOTPRINT: 10,872 SF  
SITE AREA: 0.89 ACRES  
DEMOLITION AREA: 0.89 ACRES

GUP SQUAREFOOTAGE ANALYSIS

METHOD 2 (GUP)	
LOU HENRY HOOVER BUILDING (EXISTING BUILDING TO BE DEMOLISHED)	
BASEMENT 2 GROSS AREA:	13,955 SF
BASEMENT B2 ADJUSTMENTS	1,665 SF
ADJUSTED SQUARE FOOTAGE	12,290 SF
BASEMENT 1 GROSS AREA:	14,323 SF
BASEMENT B2 ADJUSTMENTS	147 SF
ADJUSTED SQUARE FOOTAGE	14,176 SF
FIRST FLOOR GROSS AREA:	11,304 SF
FIRST FLOOR ADJUSTMENTS	183 SF
ADJUSTED SQUARE FOOTAGE	11,121 SF
SECOND FLOOR GROSS AREA:	11,263 SF
SECOND FLOOR ADJUSTMENTS	207 SF
ADJUSTED SQUARE FOOTAGE	11,056 SF
TOTAL ADJUSTED GUP SQUAREFOOTAGE	48,643 SF

GEORGE P. SHULTZ BUILDING (NEW BUILDING)	
BASEMENT B2 GROSS AREA:	11,449 SF
BASEMENT B2 ADJUSTMENTS	2,964 SF
ADJUSTED SQUARE FOOTAGE	8,485 SF
FIRST FLOOR GROSS AREA:	10,872 SF
FIRST FLOOR ADJUSTMENTS	520 SF
ADJUSTED SQUARE FOOTAGE	10,352 SF
SECOND FLOOR GROSS AREA:	11,132 SF
SECOND FLOOR ADJUSTMENTS	402 SF
ADJUSTED SQUARE FOOTAGE	10,730 SF
THIRD FLOOR GROSS AREA:	11,132 SF
THIRD FLOOR ADJUSTMENTS	605 SF
ADJUSTED SQUARE FOOTAGE	10,527 SF
FOURTH FLOOR GROSS AREA:	10,887 SF
FOURTH FLOOR ADJUSTMENTS	2,338 SF
ADJUSTED SQUARE FOOTAGE	8,549 SF
TOTAL ADJUSTED GUP SQUAREFOOTAGE	48,643 SF

PROJECT DIRECTORY

Client/Owner

Stanford University  
3160 Porter Drive, Suite 200  
Palo Alto, CA 94304  
Phone: 650.723.9071

Architect

CAW Architects, Inc.  
455 Lambert Avenue  
Palo Alto, CA 94306  
Phone: 650.328.1818  
Fax: 650.328.1888

William Rawn Associates, Architects, Inc.  
10 Post Office Square, Suite 1010  
Boston, MA 02109  
Phone: 617.423.3470

Landscape Engineer

SWA  
2200 Bridgeway Boulevard  
PO Box 5904  
Sausalito, CA 94966  
Phone: 415.332.5100

Civil Engineer

BKF Engineers  
4670 Willow Road, Suite 250  
Pleasanton, CA 94588  
Phone: 925.396.7700

Chris Wasney  
Mousam Adcock  
Pui San Ng  
Thomas Koyama  
Kimberly Castillo  
Alex Siegel

Doug Johnston  
Erik Tellander  
Sasha Spriggs  
Paul Governor

John Wong  
Bill Hynes  
Carson Lindley

John Lamon  
Steven Reynolds  
Chelsea Mudgett

Principal  
Project Manager  
Project Architect  
Designer  
Designer  
Designer

Principal  
Senior Associate  
Designer  
Designer

Principal  
Project Manager  
Designer

Associate  
Project Manager  
Project Engineer

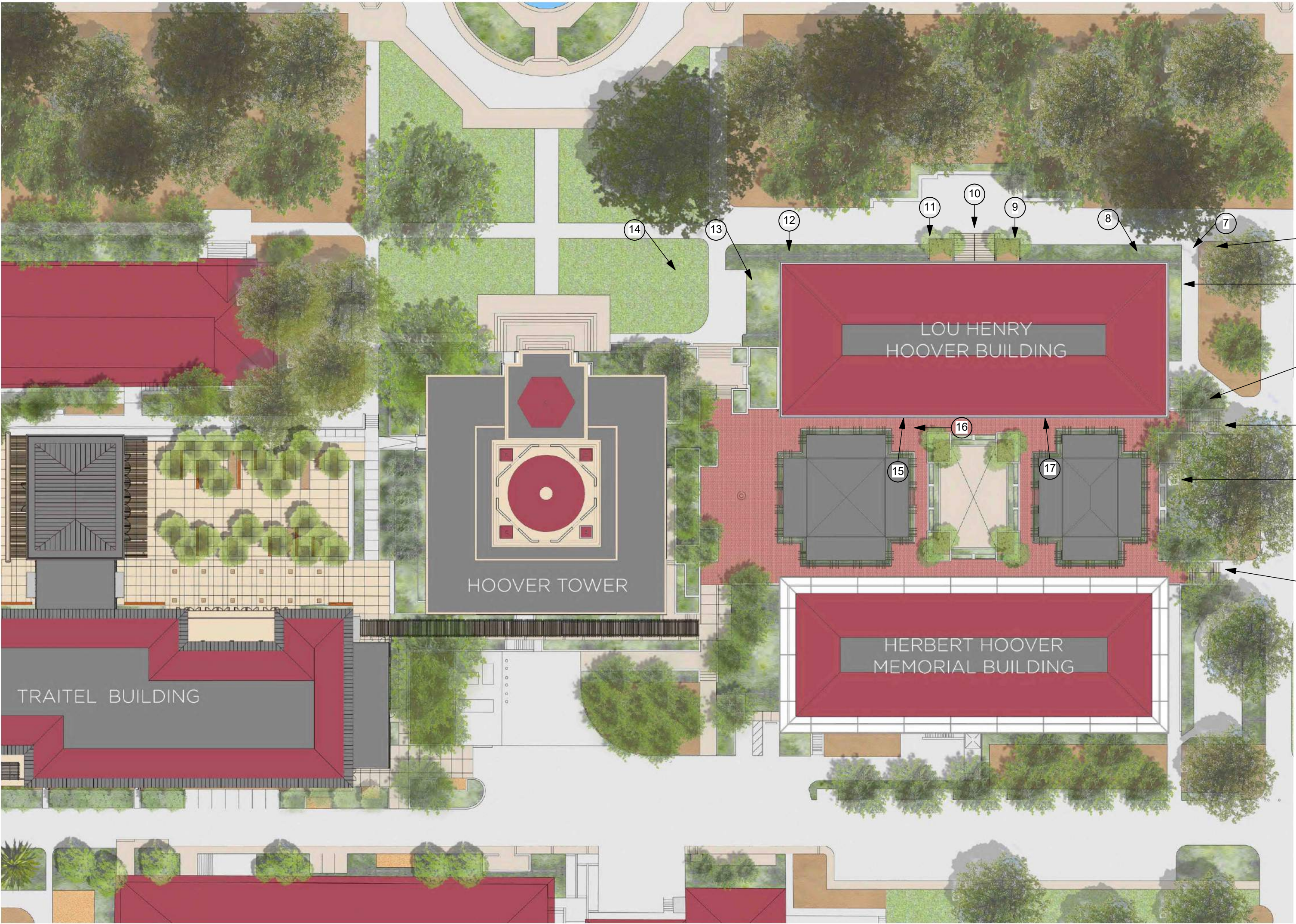
csw@cawarchitects.com  
mousam@cawarchitects.com  
psng@cawarchitects.com  
tkoyama@cawarchitects.com  
kcastillo@cawarchitects.com  
asiegel@cawarchitects.com

djohnston@rawnarch.com  
etellander@rawnarch.com  
sspriggs@rawnarch.com  
pgovernor@rawnarch.com

jwong@swagroup.com  
whynes@swagroup.com  
clindley@swagroup.com

jlamon@bkl.com  
sreynolds@bkl.com  
cmudgett@bkl.com





1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



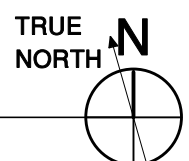
16



17

1 SITE ORIENTATION PHOTOS

NTS



**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

EXISTING CONDITIONS

PROJECT NO. 14029

DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

SHEET

**A0.00C**

7/29/19 6:28:22 PM



LOU HENRY HOOVER BUILDING

TO REMAIN

TO BE DEMOLISHED

	GROSS	
SECOND FLOOR:	11,263 SF	-
FIRST FLOOR:	11,304 SF	-
BASEMENT 1:	15,697 SF	-
BASEMENT 2:	16,072 SF	-
TOTAL	54,336 SF	-

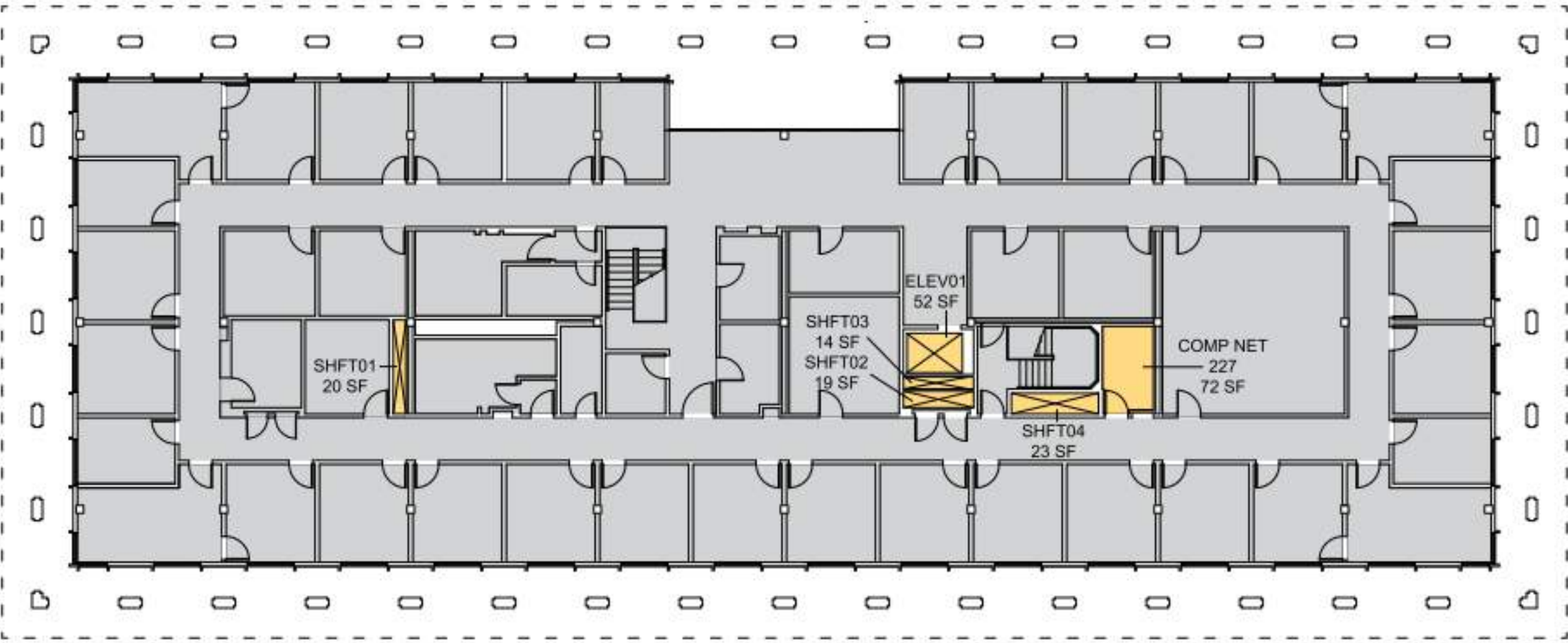
GROSS	
0 SF	=
0 SF	=
1,374 SF	=
2,117 SF	=
3,491 SF	=

GROSS	
11,263 SF	=
11,304 SF	=
14,323 SF	=
13,955 SF	=
50,845 SF	=

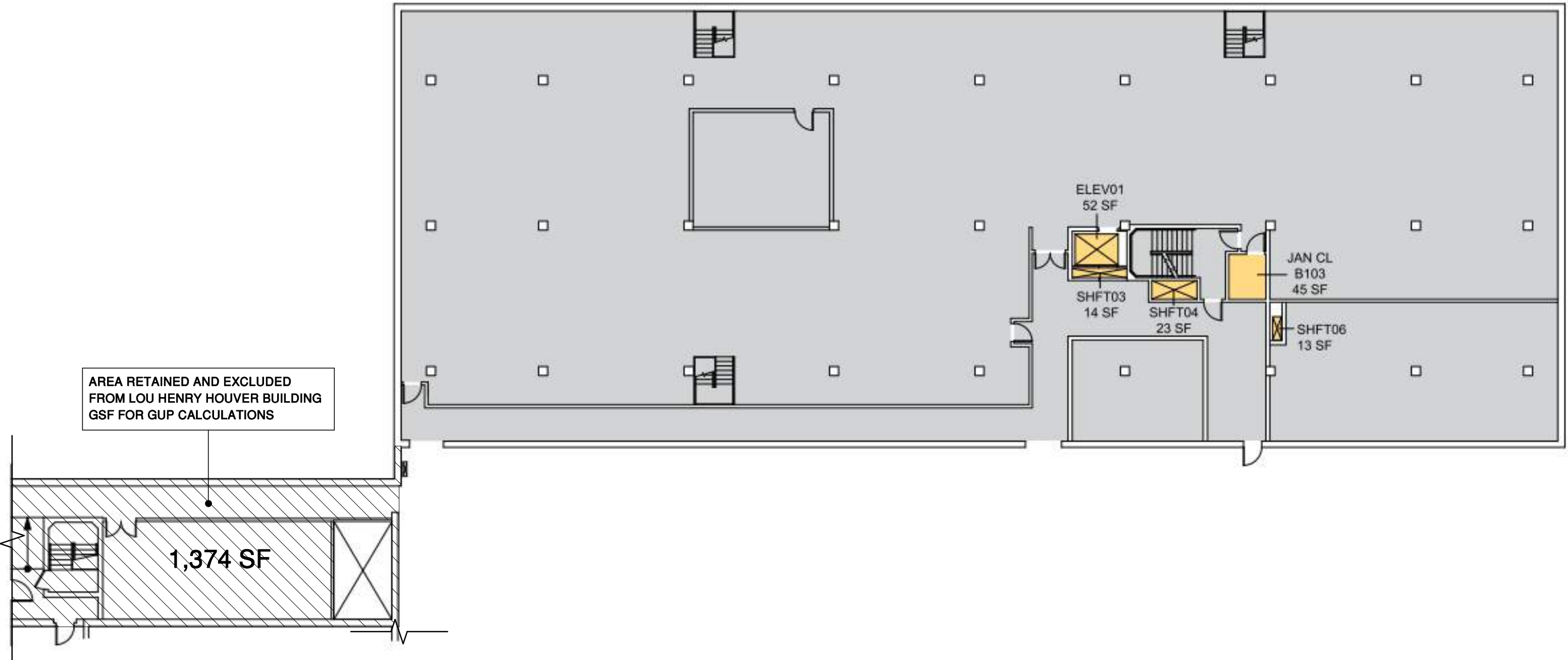
	GUP	GROSS
SECOND FLOOR:	11,056 SF	11,263 SF
FIRST FLOOR:	11,121 SF	11,304 SF
BASEMENT 1:	14,176 SF	14,323 SF
BASEMENT 2:	12,290 SF	13,955 SF
TOTAL	48,643 SF	50,845 SF

14,323 GSF  
- 147 NON-GUP  
14,176 GUP

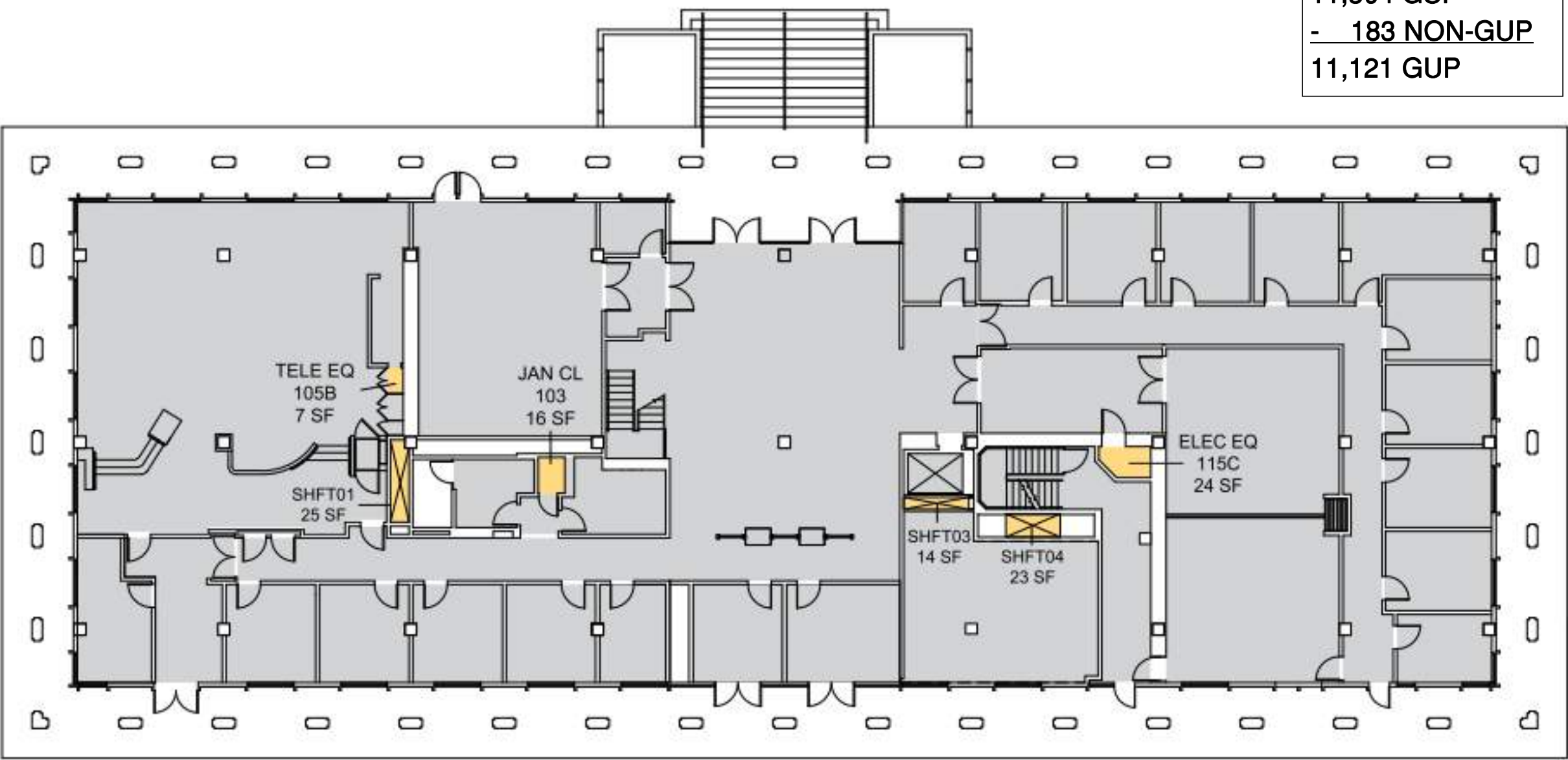
11,263 GSF  
- 207 NON-GUP  
11,056 GUP



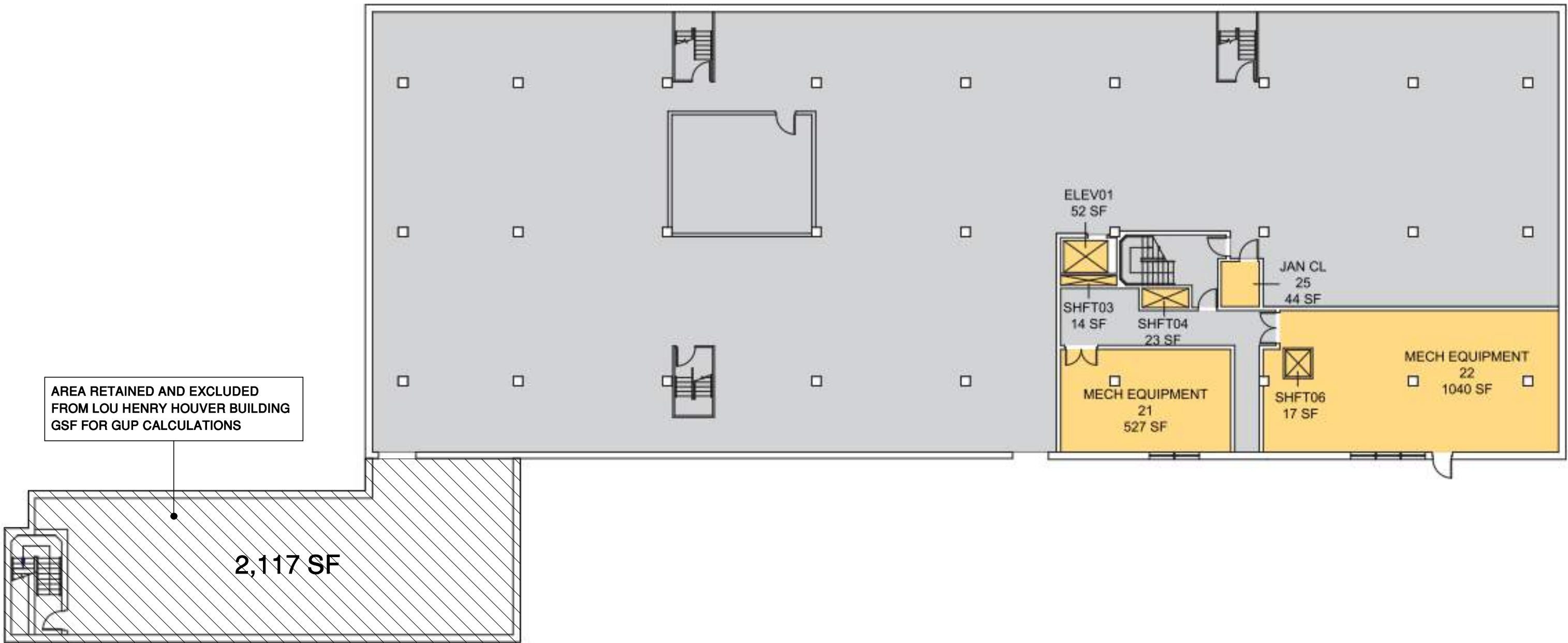
4 SECOND FLOOR PLAN  
1/16" = 1'-0"



2 BASEMENT 1 FLOOR PLAN  
1/16" = 1'-0"



3 FIRST FLOOR PLAN  
1/16" = 1'-0"



1 BASEMENT 2 FLOOR PLAN  
1/16" = 1'-0"

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

GUP ANALYSIS - LHHB

PROJECT NO. 14029

DRAWN BY TK, KC, AS

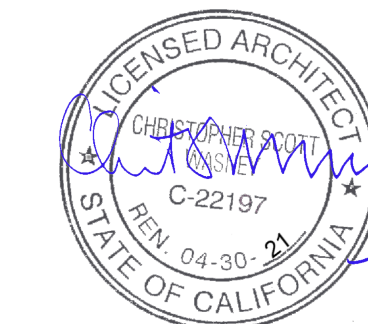
CHECKED BY PN, MA, CSW

SHEET

A0.00D

7/29/19 8:28:23 PM





△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL  
STANFORD, CA 93405

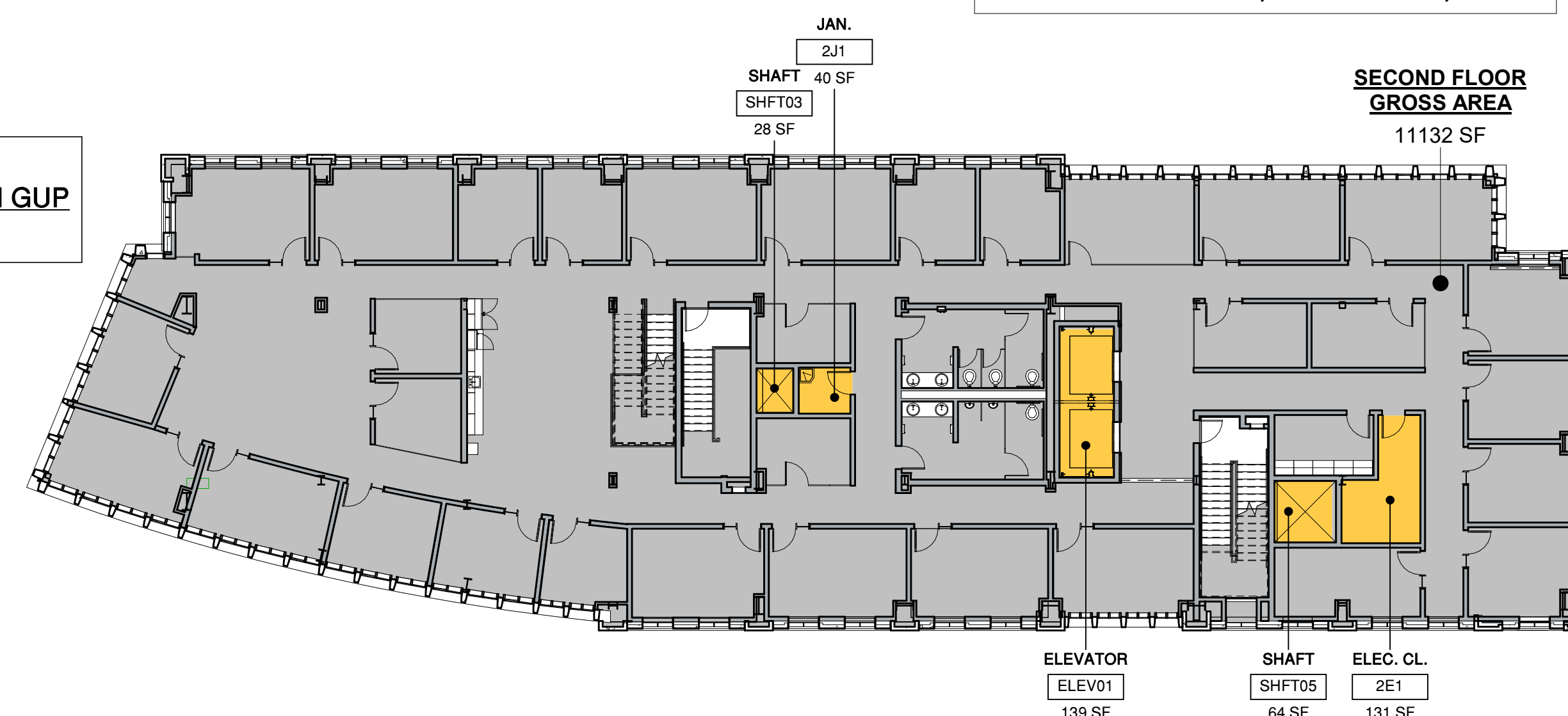
GUP ANALYSIS - SHULTZ

**A0.00E**

7/29/19 6:28:36 PM

	GUP	GROSS
FOURTH FLOOR:	8,549 SF	10,887 SF
THIRD FLOOR:	10,527 SF	11,132 SF
SECOND FLOOR:	10,730 SF	11,132 SF
FIRST FLOOR:	10,352 SF	10,872 SF
BASEMENT:	8,485 SF	11,449 SF
<b>TOTAL</b>	<b>48,643 SF</b>	<b>55,472 SF</b>

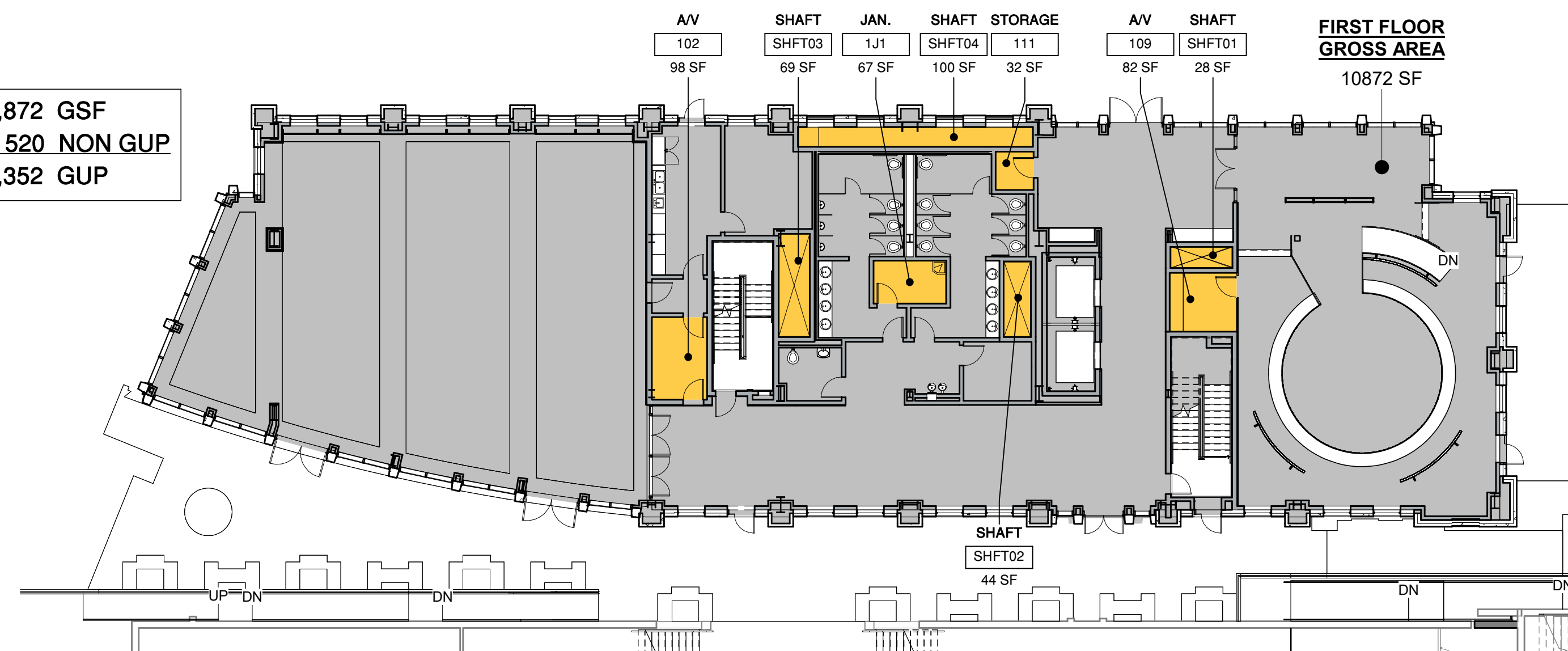
11,132 GSF  
- 402 NON GUP  
10,730 GUP



3 GUP ANALYSIS - SECOND FLOOR

1/16" = 1'-0"

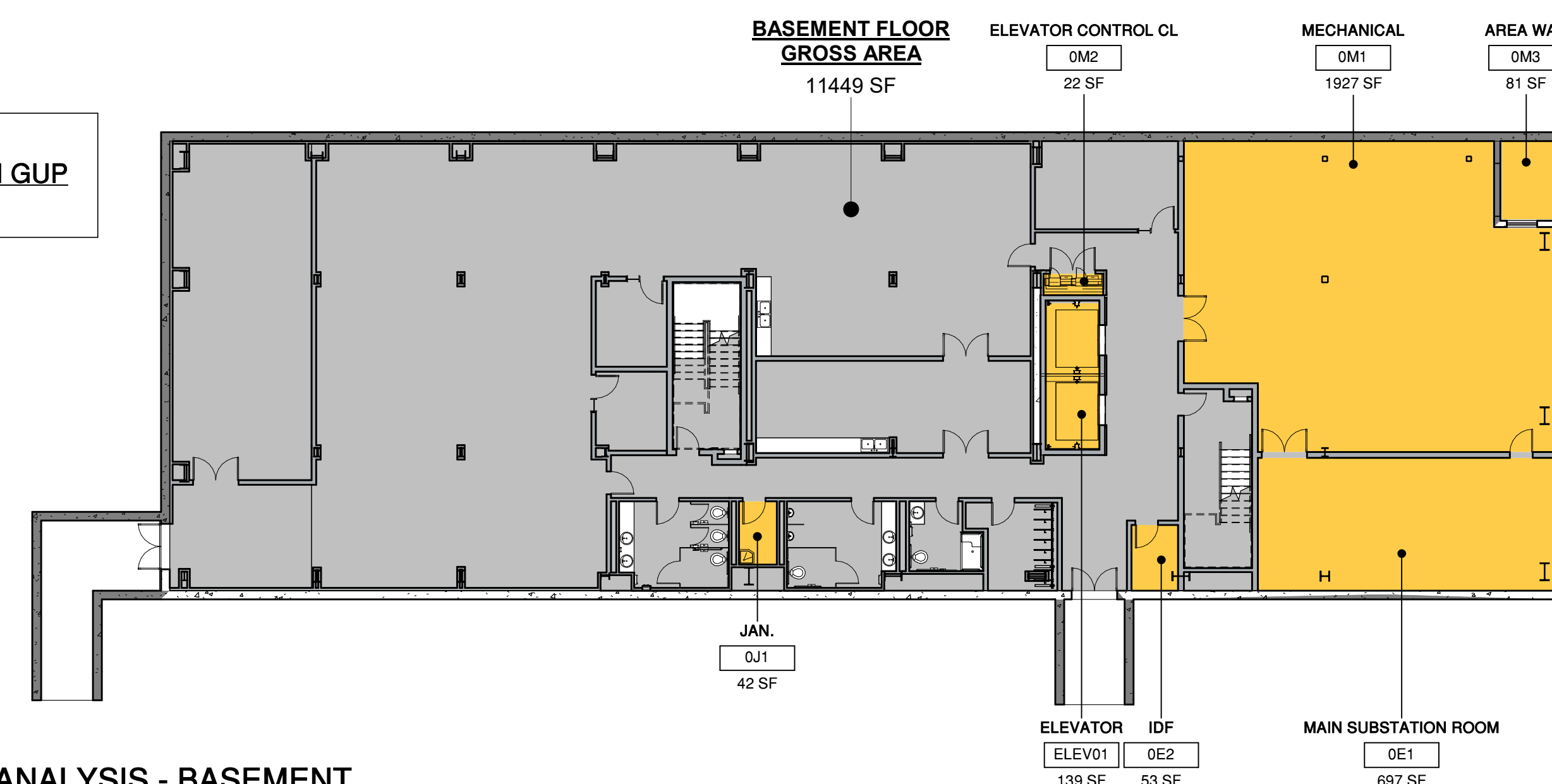
10,872 GSF  
- 520 NON GUP  
10,352 GUP



2 GUP ANALYSIS - FIRST FLOOR

1/16" = 1'-0"

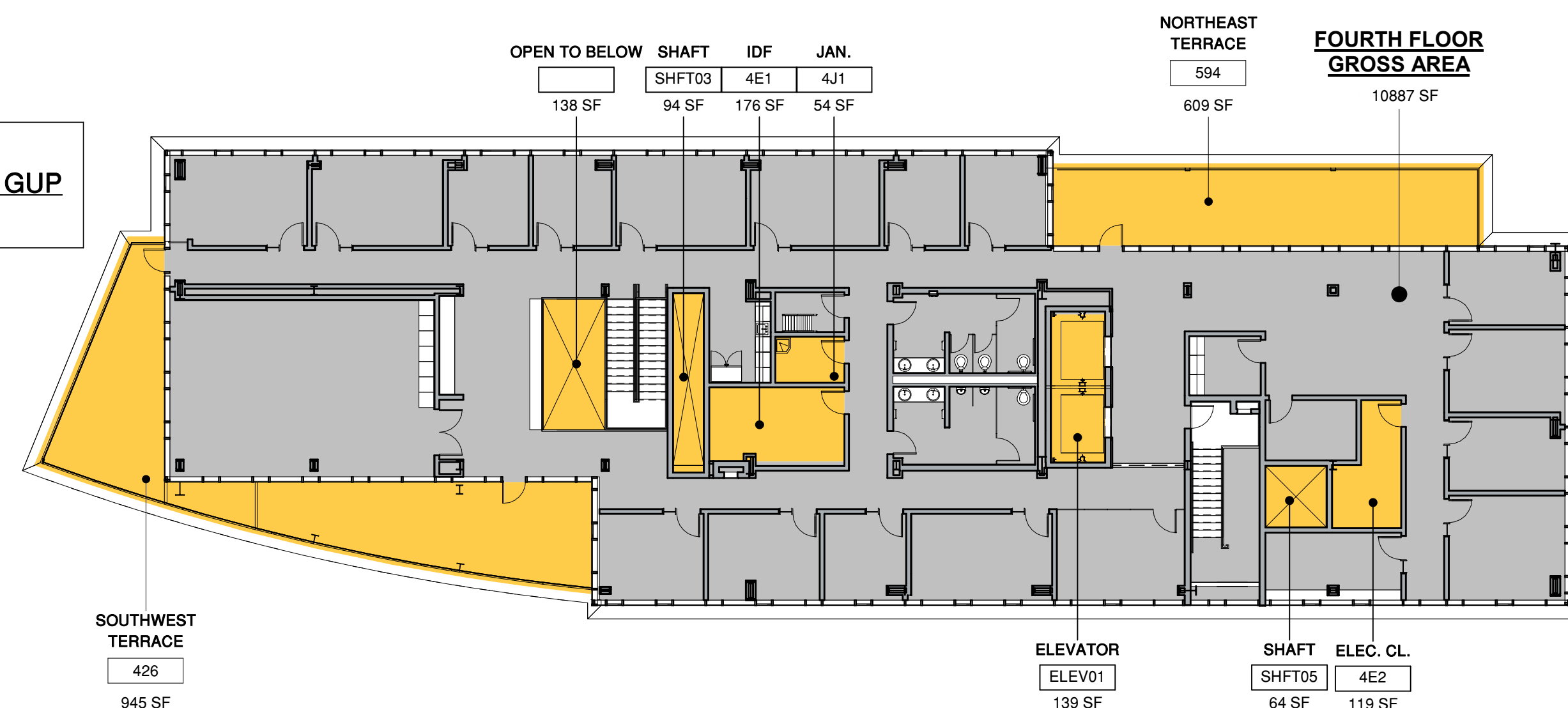
11,449 GSF  
- 2,964 NON GUP  
8,485 GUP



1 GUP ANALYSIS - BASEMENT

1/16" = 1'-0"

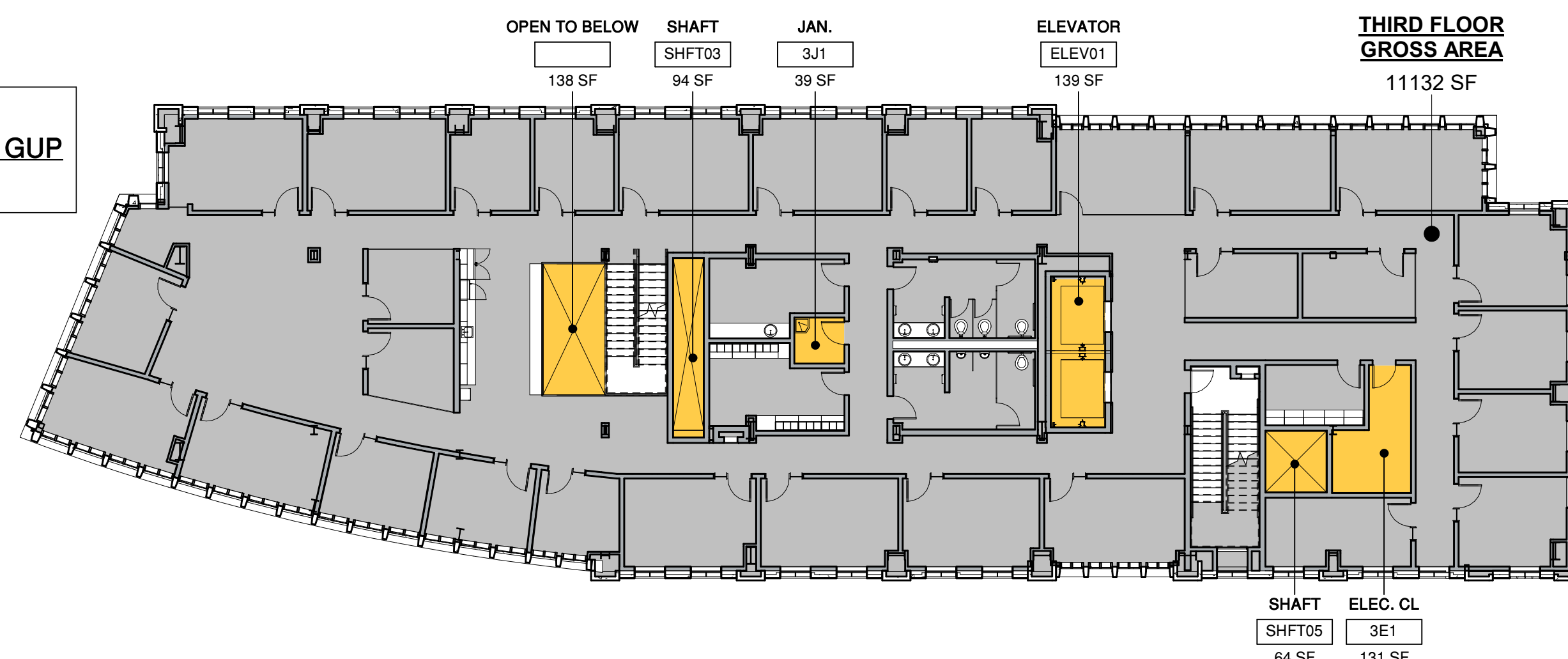
10,887 GSF  
- 2,338 NON GUP  
8,549 GUP



5 GUP ANALYSIS - FOURTH FLOOR

1/16" = 1'-0"

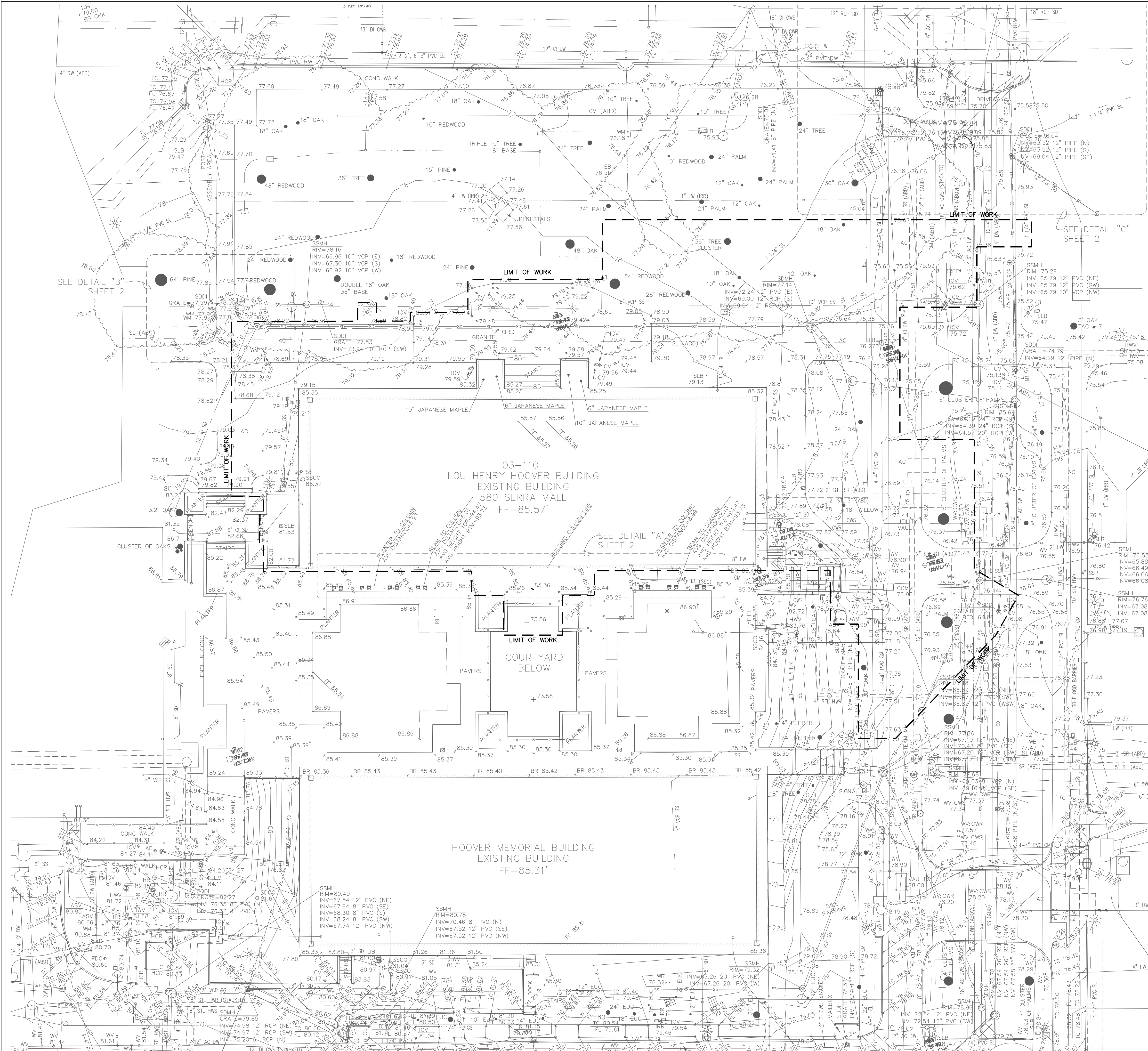
11,132 GSF  
- 605 NON GUP  
10,527 GUP



4 GUP ANALYSIS - THIRD FLOOR

1/16" = 1'-0"





- LEGEND**
- AD AREA DRAIN
  - ASV ANTI-SIPHON VALVE
  - BTB BOTTOM OF BOX
  - BR BRICK PAVERS
  - COMM COMMUNICATIONS BOX
  - EB ELECTRICAL BOX
  - EUC EUCALYPTUS TREE
  - FDC FIRE DEPARTMENT CONNECTION
  - FF FINISHED FLOOR ELEVATION
  - FL FLOW LINE
  - HCR HANDICAPPED RAMP
  - HWV HOT WATER VALVE
  - ICV IRRIGATION CONTROL VALVE
  - INV INVERT
  - IRR IRRIGATION BOX
  - OB OVERHANG BEAM
  - PV POST INDICATOR VALVE
  - PVC POLYVINYL CHLORIDE PIPE
  - RCP REINFORCED CONCRETE PIPE
  - SLB STREET LIGHTING BOX
  - SDCO STORM DRAIN CLEAN OUT
  - SDMH STORM DRAIN MANHOLE
  - SSCO SANITARY SEWER CLEAN OUT
  - SSMH SANITARY SEWER MANHOLE
  - TC TOP OF CURB
  - TD TRENCH DRAIN
  - TOW TOP OF WALL
  - VCP VITRIFIED CLAY PIPE
  - W-VLT WATER VAULT
  - WB WATER BOX
  - WV WATER VALVE
  - WV-CWR WATER VALVE, CHILLED WATER RETURN
  - WV-CWS WATER VALVE, CHILLED WATER SERVICE
  - EM ELECTRICAL MANHOLE
  - MH MANHOLE
  - SDMH STORM DRAIN MANHOLE
  - SSMH SANITARY SEWER MANHOLE
  - EL ELECTROLIER
  - BOLLARD
  - DRIP LINE

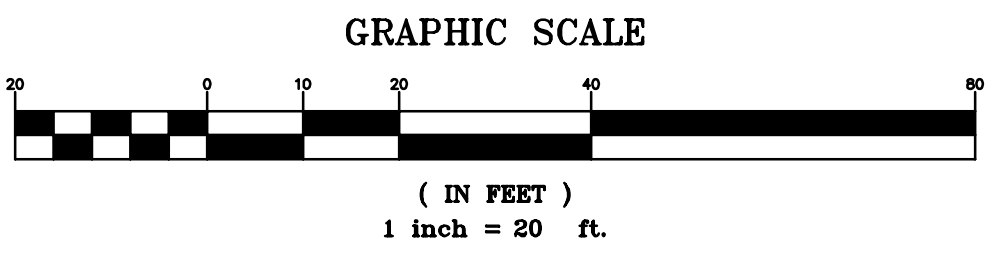
- SURVEY NOTES**
- ALL DISTANCES, DIMENSIONS AND ELEVATIONS ARE IN FEET AND DECIMALS THEREOF.
  - DATE OF COMPLETION OF THE FIELD SURVEY WAS AUGUST 21, 2018.

**BENCHMARK**

STANFORD CONTROL POINT S-27: FOUND 2" BRASS DISC WITH PUNCH MARK, STAMPED "STANFORD 27, LS 5237", NORTHEASTERLY OF FOUNTAIN IN CIRCULAR CONCRETE WALK ON SERRA MALL.

NORTHING: 1982742.384  
EASTING: 6077753.290  
ELEVATION: 79.06

- NOTES:**
- UTILITIES SHOWN ARE BASED ON RECORD INFORMATION FROM STANFORD UNIVERSITY MAPS AND RECORDS.



**WILLIAM RAWN ASSOCIATES | Architects, Inc.**  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

**STAMP**



**CONSULTANTS**



4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE	DATE
ASA APPLICATION	7/31/2019

**PROJECT NAME**

GEORGE P. SHULTZ BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

**SHEET TITLE**

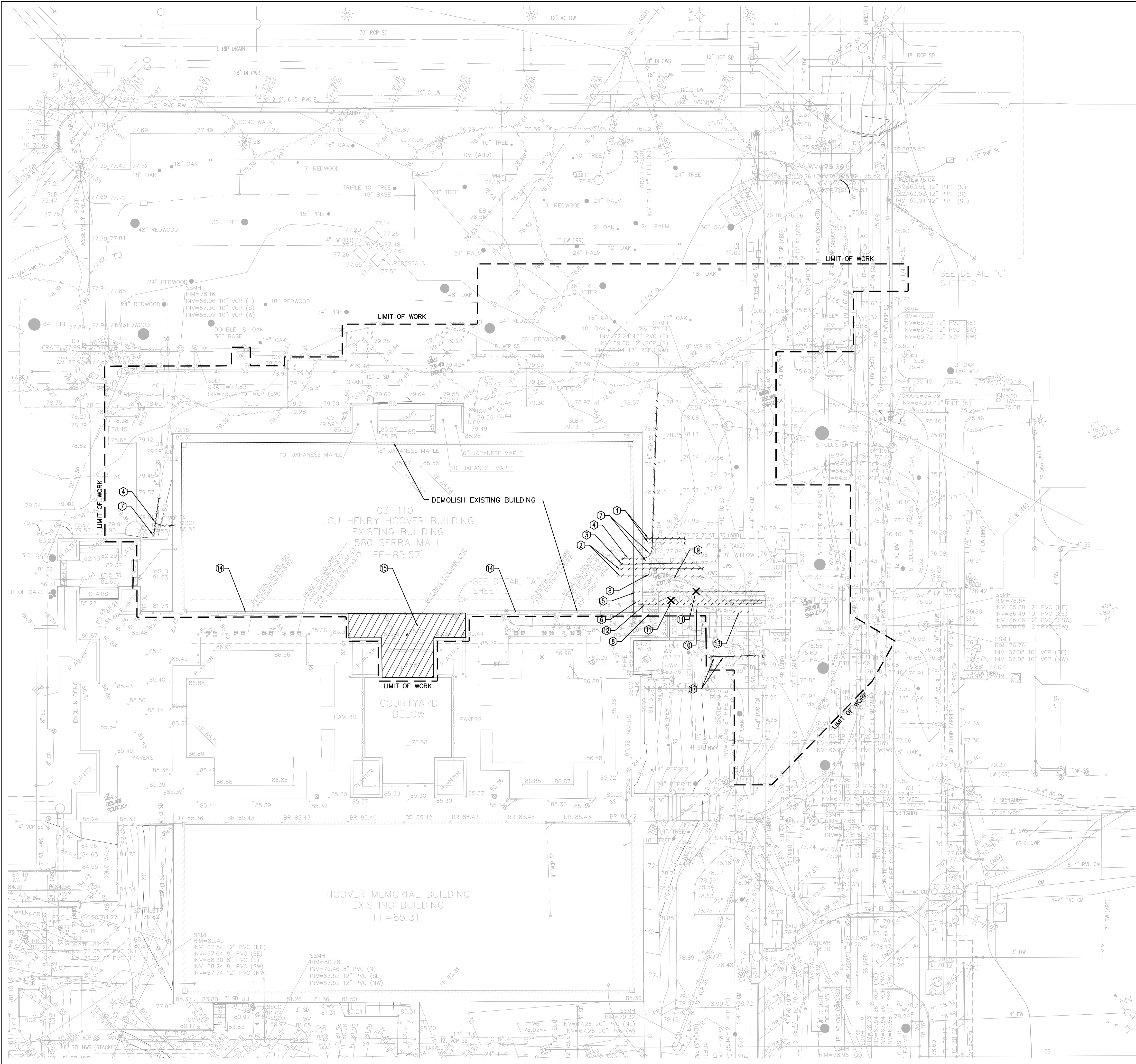
EXISTING CONDITIONS

**PROJECT NO.** 14029  
**DRAWN BY** SR, CM  
**CHECKED BY** JL

**SHEET**

C1.00





## LEGEND

- REMOVE EXISTING UTILITY
- CAP AND ABANDON EXISTING UTILITY
- LIMITS OF DEMOLITION
- REMOVE EXISTING TREE
- SEE ARCHITECTURAL PLANS FOR LIMITS OF DEMOLITION IN THIS AREA

## GENERAL NOTES

- PROVIDE TREE PROTECTION FOR ALL TREES TO REMAIN. ALL TREES ARE TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- EXISTING UTILITIES SHOWN ARE BASED ON RECORD INFORMATION. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- IRRIGATION PIPING, STRUCTURES AND/OR EQUIPMENT THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.
- SITE DEMOLITION LIMITS DO NOT INCLUDE ALL UTILITY TRENCHING AND PATCHING. SEE SITE UTILITY PLAN FOR LIMITS OF UTILITY WORK.
- ALL UTILITY STRUCTURES THAT ARE NOT IDENTIFIED FOR REMOVAL SHALL REMAIN AND BE PROTECTED.
- ALL TREES THAT ARE NOT IDENTIFIED FOR REMOVAL SHALL REMAIN AND BE PROTECTED

## DEMOLITION NOTES

- REMOVE EXISTING STEAM SERVICE AND RETURN
- REMOVE EXISTING CHILLED WATER SERVICE AND RETURN
- REMOVE EXISTING STORM DRAIN PIPE
- REMOVE EXISTING SANITARY SEWER PIPE
- REMOVE EXISTING DOMESTIC WATER SERVICE
- REMOVE EXISTING FIRE WATER SERVICE
- REMOVE SANITARY SEWER CLEANOUT
- REMOVE AREA DRAIN
- REMOVE EXISTING STREET LIGHT AND BOX AND WIRES
- REMOVE EXISTING POST INDICATOR VALVE
- REMOVE EXISTING TREE
- REMOVE EXISTING STREET LIGHT
- REMOVE 6" FIRE WATER LATERAL (APPROX 8')  
SEE SITE UTILITY PLAN FOR ADDITIONAL INFORMATION
- DEMOLISH BUILDING ALONG EXPANSION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS
- SEE ARCHITECTURAL PLANS FOR LIMITS OF DEMOLITION IN THIS AREA
- REMOVE EXISTING BUILDING SERVICE LATERAL, BACKFLOW AND WATER METER. CAP AT BACKFLOW LOCATION AND AT EXISTING WATER MAIN

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**Bkf**  
ENGINEERING / SURVEYING / PLANNING

4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE

DATE

ASA APPLICATION

7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

SITE/UTILITY  
DEMOLITION PLAN

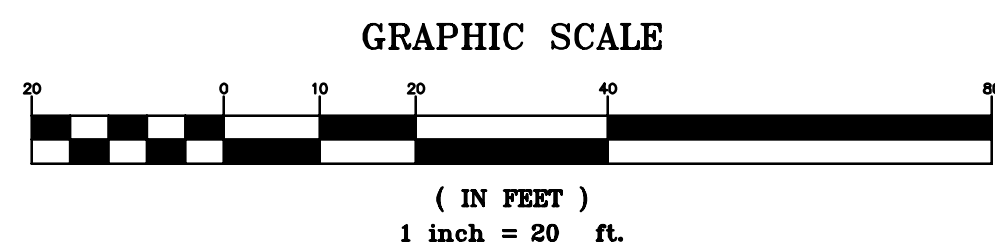
PROJECT NO. 14029

DRAWN BY SR, CM

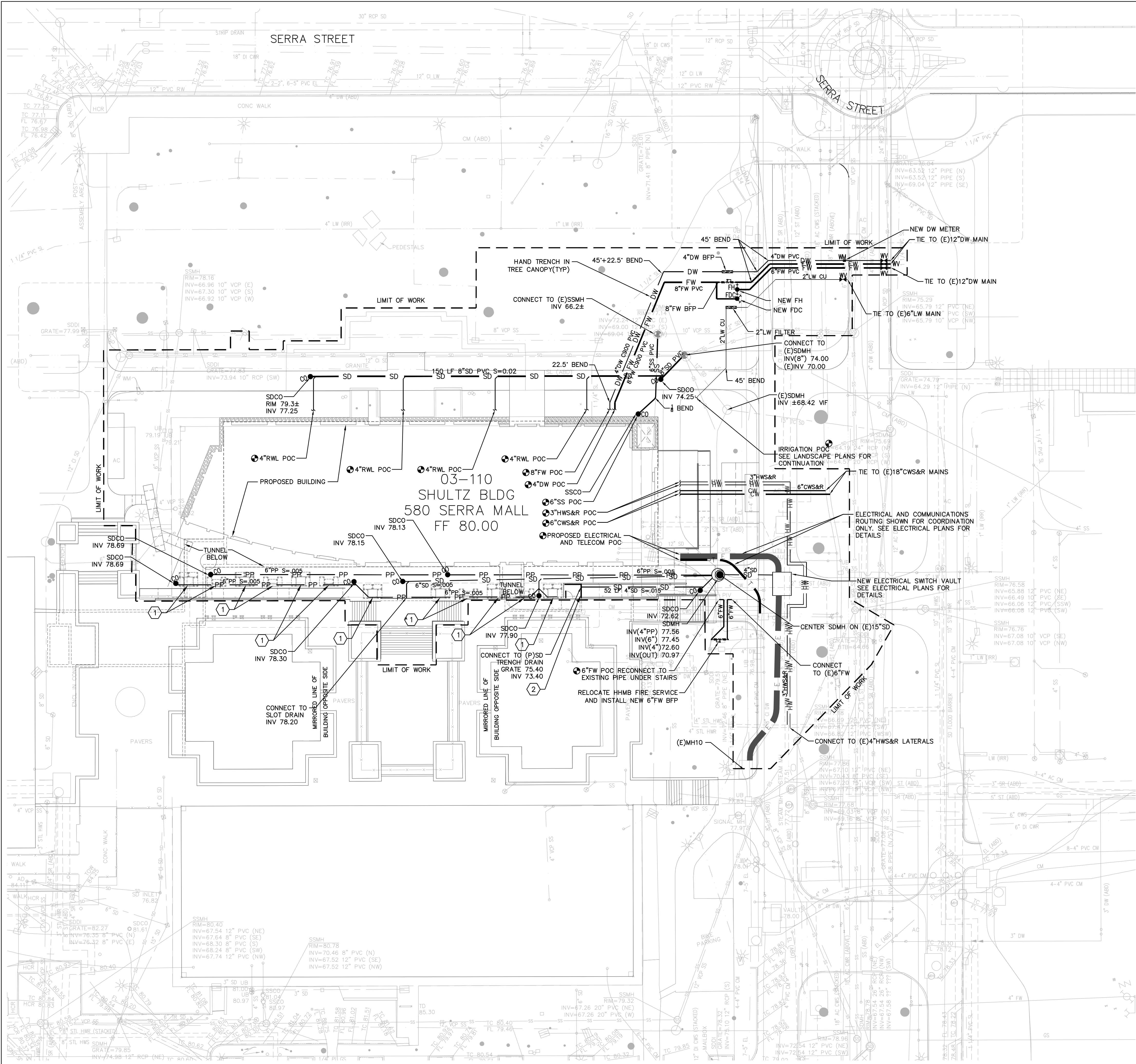
CHECKED BY JL

SHEET

C2.00







LEGEND

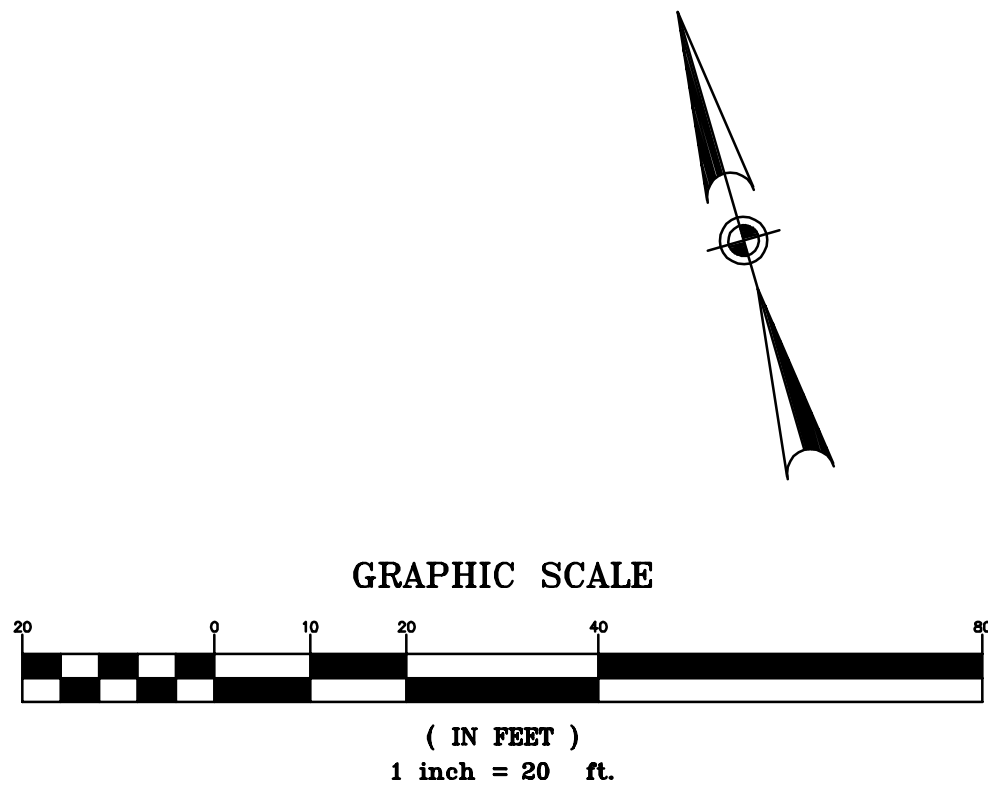
DW	DOMESTIC WATER
FW	FIRE WATER
SD	STORM DRAIN
PP	PERFORATED PIPE
SS	SANITARY SEWER
CW	CHILLED WATER SERVICE AND RETURN
HW	HOT WATER SERVICE AND RETURN
LW	LAKE WATER IRRIGATION
E	ELECTRICAL (SEE ELECTRICAL PLANS)
T	COMMUNICATIONS (SEE ELECTRICAL PLANS)
CO	CLEANOUT
RPB	REDUCED PRESSURE PRINCIPAL BACKFLOW
DCDB	DOUBLE CHECK DETECTOR BACKFLOW
FDC	FIRE DEPARTMENT CONNECTION
FWH	FIRE HYDRANT
WM	WATER METER
POC	POINT OF CONNECTION
WV	WATER VALVE
SDMH	STORM DRAIN MANHOLE

GENERAL NOTES

- UTILITY SIZING BASED ON INPUT FROM AGC. (EXCEPT FOR FIRE SERVICE)
- DOMESTIC AND FIRE WATER PIPING SHALL BE C900 PVC.
- STORM AND SEWER PIPING SHALL BE SDR 26

UTILITY NOTES

- CONNECT TO SILVA CELLS AREA DRAIN
- CONNECT TO TRENCH DRAIN



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX: 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**Bkf**  
ENGINEERS / SURVEYORS / PLANNERS  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

SITE UTILITY PLAN

PROJECT NO. 14029

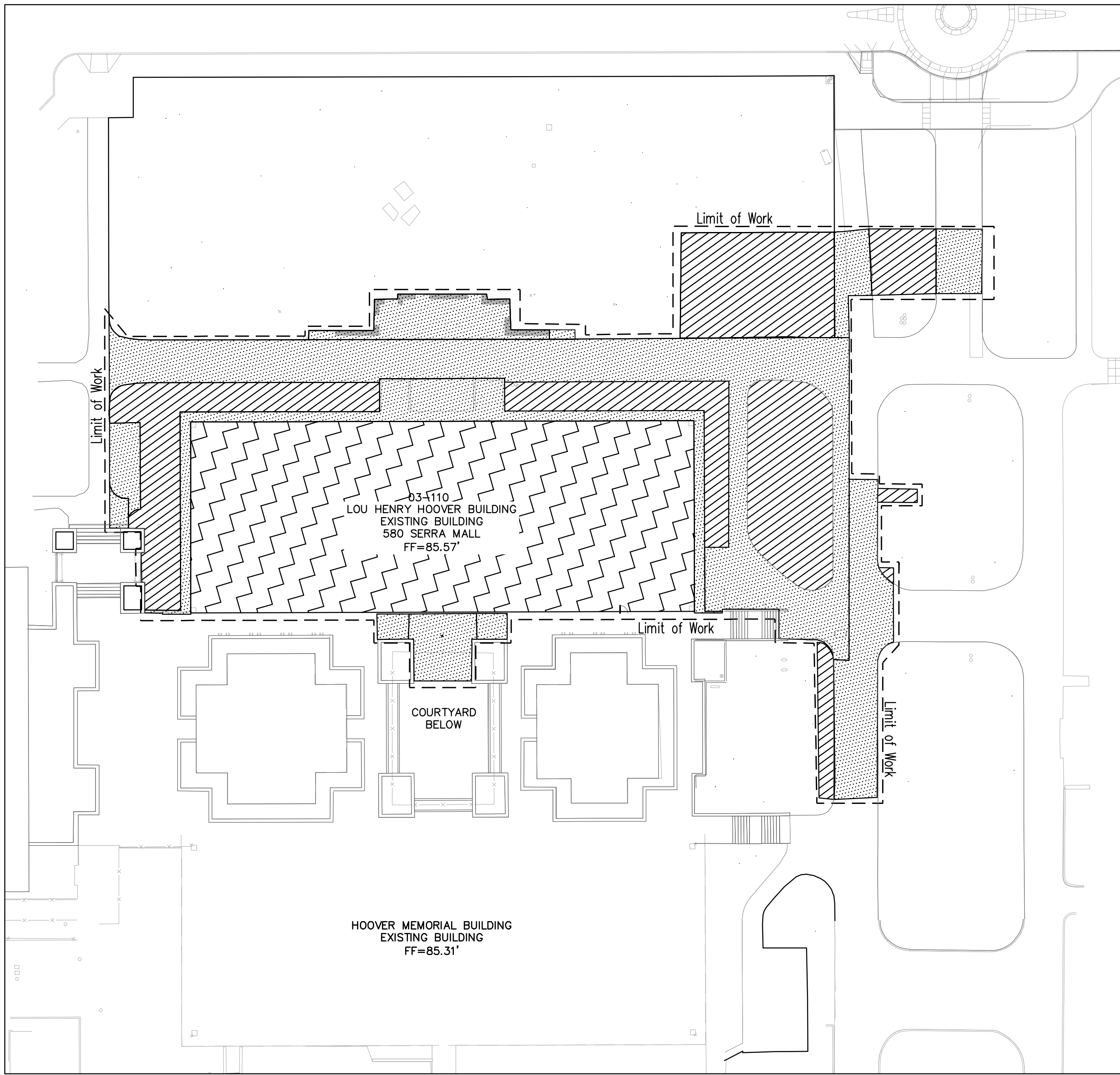
DRAWN BY SR, CM

CHECKED BY JL

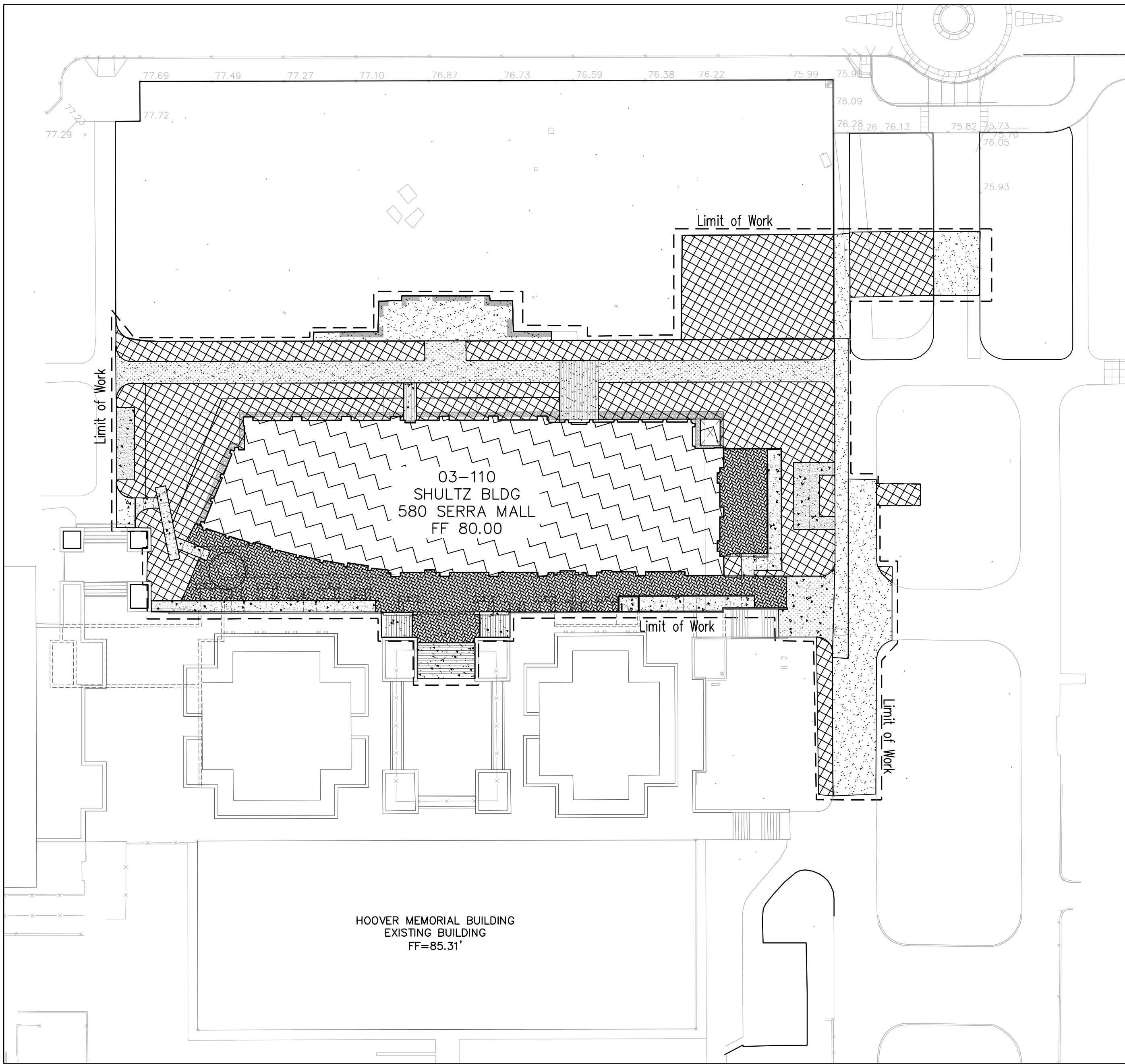
SHEET

C3.00





EXISTING



PROPOSED

- LEGEND
- TOTAL SITE AREA: 37,702 SQ FT
- IMPERVIOUS 13,904 SQ FT
  - ROOF 14,139 SQ FT
  - PERVIOUS LANDSCAPE 9,659 SQ FT

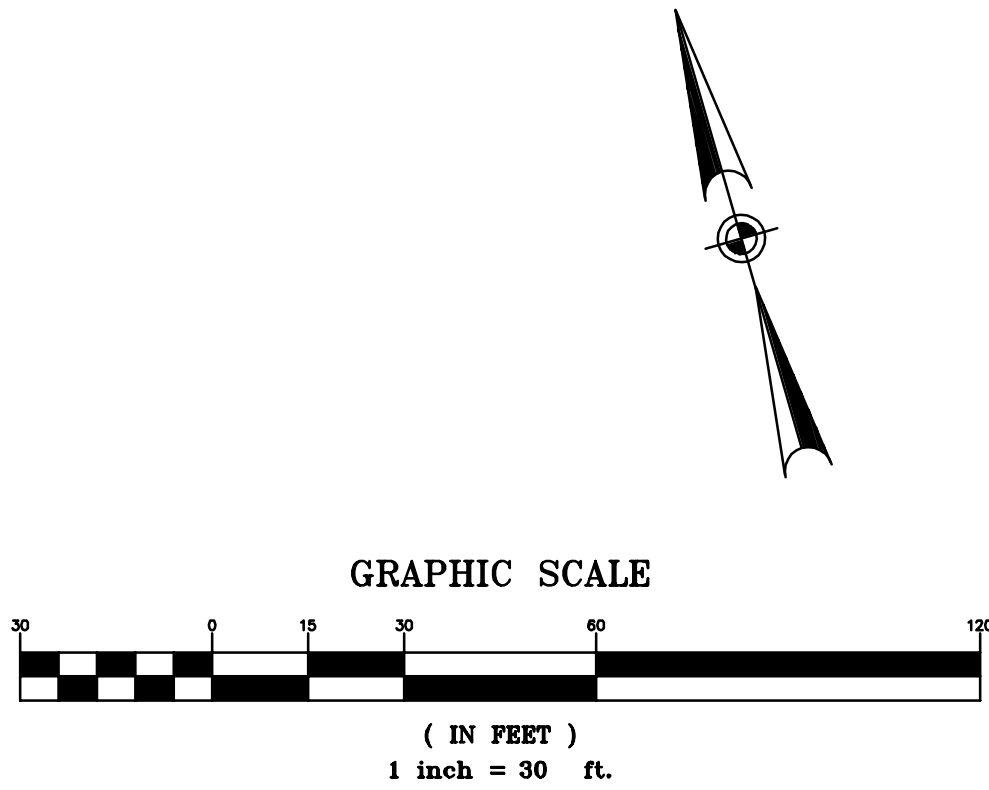
- LEGEND
- TOTAL SITE AREA: 37,702 SQ FT
- IMPERVIOUS 9,889 SQ FT
  - ROOF 10,945 SQ FT
  - PERVIOUS LANDSCAPE 12,422 SQ FT
  - IMPERVIOUS PAVERS 4,446 SQ FT

DMA	SITE AREA (SF)	VEHICULAR IMP AREA (SF)	NON-VEHICULAR IMP AREA (SF)	MIN. VEHICULAR TREATMENT AREA REQD. (SF)	MIN. NON-VEHICULAR TREATMENT AREA REQD. (SF)	TOTAL MIN. TREATMENT AREA REQUIRED (SF)	TREATMENT AREA PROVIDED (SF)	TREATMENT METHOD
1	37,702	2,906	22,374	117	895	1,012	1,012	IN-LIEU

NOTES:

1.) TREATMENT IS 4% OF IMPERVIOUS AREA

2.) IN-LIEU TREATMENT IS FROM THE EAST CAMPUS WATER CAPTURE FACILITY COUNTY FILE NUMBER \_\_\_\_\_



**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**BKF**  
ENGINEERING / SURVEYING / PLANNING  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

△ MILESTONE DATE  
ASA APPLICATION 7/31/2019

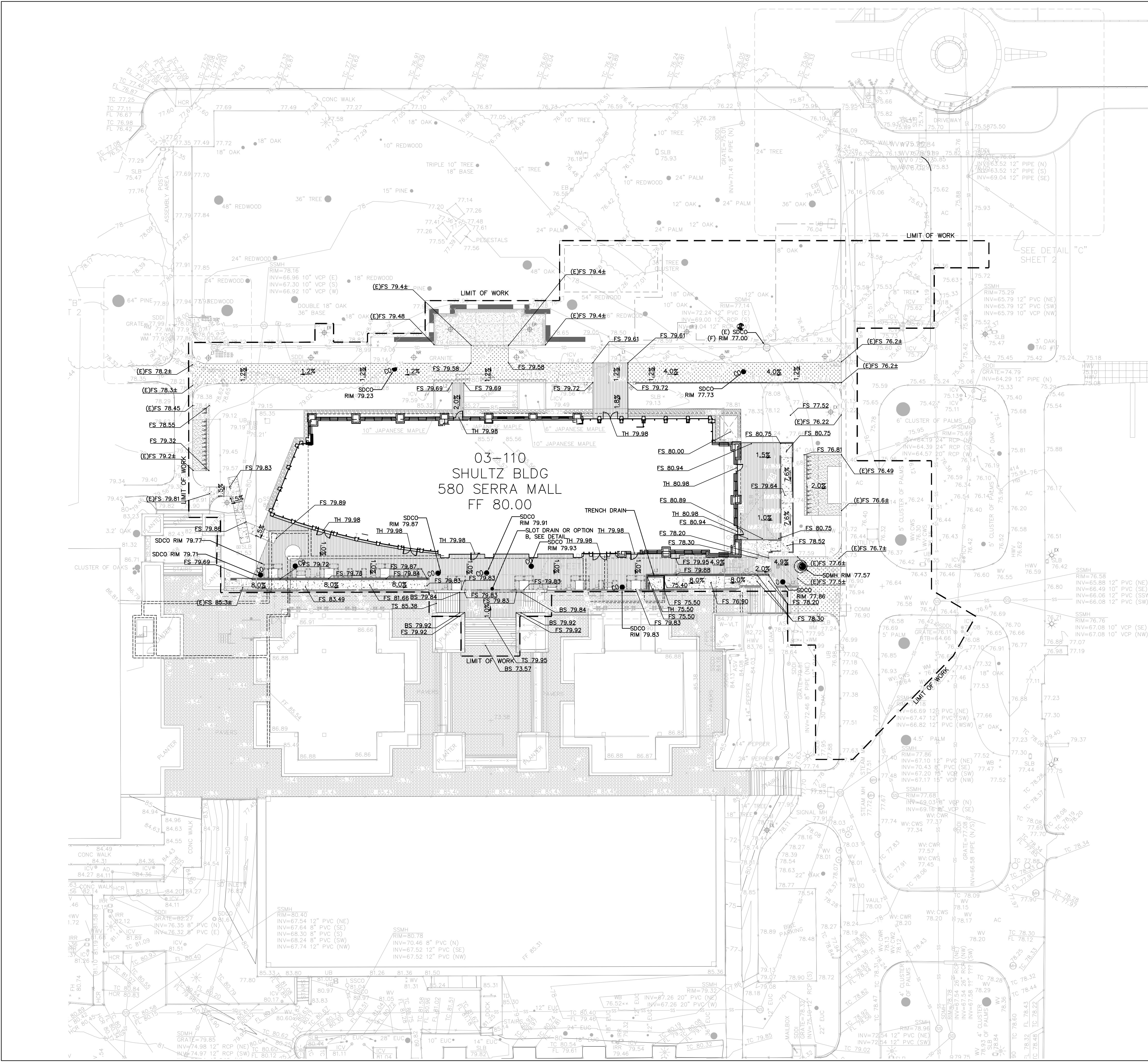
PROJECT NAME  
GEORGE P. SHULTZ  
BUILDING  
HOOVER INSTITUTION  
434 GALVEZ MALL  
STANFORD, CA 93405

SHEET TITLE  
STORMWATER  
MANAGEMENT PLAN

PROJECT NO. 14029  
DRAWN BY SR, CM  
CHECKED BY JL

SHEET  
C3.10





LEGEND

- (E) 78.09± EXISTING GRADE
- FS 78.09± FINISHED SURFACE
- TS 88.92± TOP STAIR ELEVATION
- BS 83.52± BOTTOM STAIR ELEVATION
- 8.0% SLOPE

ABBREVIATIONS

- SDCO STORM DRAIN CLEAN OUT
- SDMH STORM DRAIN MAN HOLE
- TH THRESHOLD



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**BKF**  
ENGINEERS / SURVEYORS / PLANNERS  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

△ MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING  
  
HOOVER INSTITUTION  
  
434 GALVEZ MALL  
  
STANFORD, CA 93405

SHEET TITLE

SITE GRADING PLAN

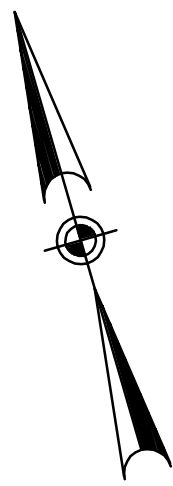
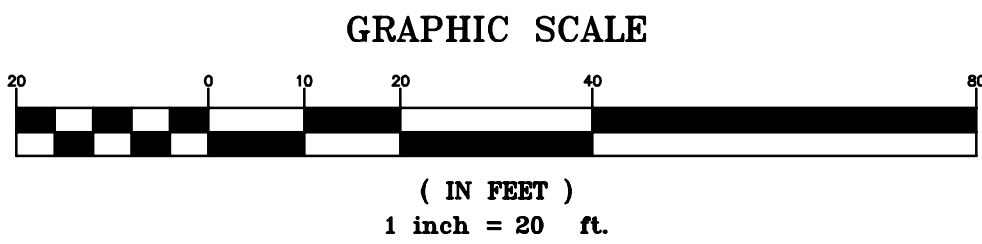
PROJECT NO. 14029

DRAWN BY SR, CM

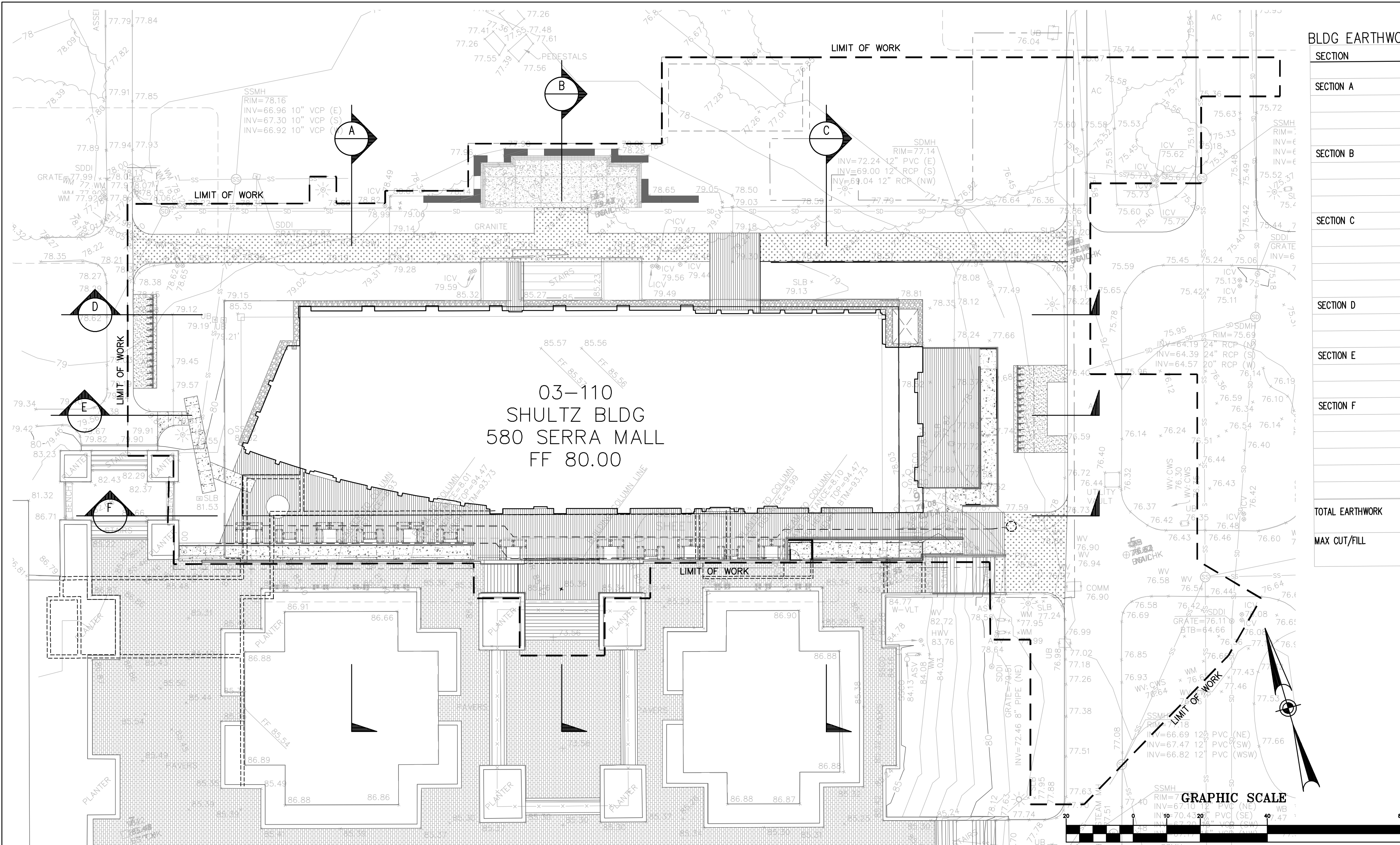
CHECKED BY JL

SHEET

C4.00







BLDG EARTHWORK SUMMARY				
SECTION	CUT		FILL	
SECTION A	3,095 SF	-9,827 CF	130 SF	+ 1,966 CF
			440 SF	+ 6,855 CF
SECTION B	4,581 SF	-14,545 CF	100 SF	+ 1,513 CF
			450 SF	+ 6,806 CF
SECTION C	3,579 SF	-11,363 CF	100 SF	+ 1,512 CF
			350 SF	+ 5,294 CF
SECTION D	89 SF	-1,629 CF	550 SF	+ 8,319 CF
			556 SF	+ 8,409 CF
SECTION E	351 SF	-6,423 CF	556 SF	+ 8,409 CF
			556 SF	+ 8,409 CF
SECTION F	0 SF	0 CF	120 SF	+ 1,815 CF
			410 SF	+ 6,201 CF
TOTAL EARTHWORK	TOTAL CUT	- 43,787 CF (1,622 CY)	TOTAL FILL	+ 62,488 CF (2,315 CY)
	MAX CUT	- 18.3 LF	MAX FILL	+ 15.13 LF

SITE EARTHWORK SUMMARY			
SECTION	CUT		FILL
SECTION A	CUT: 0 CF		FILL: +0 CF
SECTION B	305 SF	-1,525 CF	FILL: +0 CF
	304 SF	-760 CF	
	CUT: -2,285 CF		
SECTION C	CUT: 0 CF		+524 SF +393 CF
			FILL: +393 CF
SECTION D	204 SF	-153 CF	+390 SF +293 CF
	CUT: -153 CF		FILL: +293 CF
SECTION E	206 SF	-155 CF	+714 SF +2,142 CF
	CUT: -155 CF		+352 SF +704 CF
			+130 SF +98 CF
			FILL: +2,943 CF
SECTION F	386 SF	-386 CF	FILL: +0 CF
	CUT: -386 CF		
TOTAL EARTHWORK	TOTAL CUT -2,979 CF (110 CY)		TOTAL FILL + 3,629 CF (134 CY)
MAX CUT/FILL	MAX CUT - 5 LF		MAX FILL + 3 LF

LEGEND

- PROPOSED BUILDING AREA TO BE CUT
- PROPOSED SITE AREA TO BE CUT
- PROPOSED BUILDING AREA TO BE FILLED
- PROPOSED SITE AREA TO BE FILLED

NOTES:

- SEE LANDSCAPE PLANS FOR DETAILS REGARDING TREE/LANDSCAPING PLANTING, AND ALL OTHER SITE FEATURES.
- CONTRACTOR SHALL NOT STAGE, STORE, OR STOCKPILE ANY MATERIAL OR EQUIPMENT WITHIN THE PUBLIC ROAD RIGHT-OF-WAY. CONSTRUCTION PHASING SHALL BE COORDINATED TO KEEP MATERIALS AND EQUIPMENT ONSITE OR WITHIN PRIVATE PROPERTY.
- CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK QUANTITY TAKEOFF/CALCULATIONS.
- CUT AND FILL DOES NOT INCLUDE EXISTING OR PROPOSED FOOTING FOR BUILDING.
- BACKFILL OF EXISTING BUILDING AND BASEMENT TO BE COVERED UNDER BUILDING AND DEMO PERMIT.

BUILDING EARTHWORK SUMMARY

CUT	1,622 CY
FILL	2,315 CY
NET FILL	693 CY

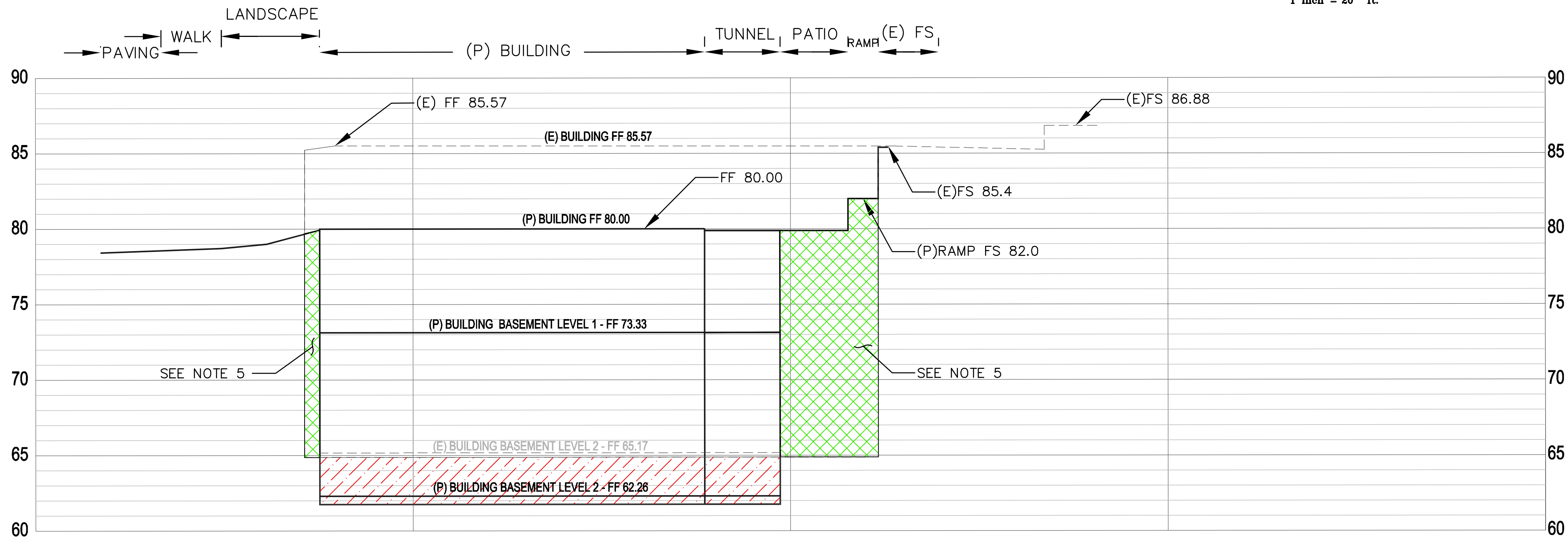
SITE EARTHWORK SUMMARY

CUT	110 CY
FILL	134 CY
NET FILL	24 CY

TOTAL EARTHWORK SUMMARY

CUT	1,732 CY
FILL	2,449 CY
NET FILL	717 CY

\*FILL DOES NOT INCLUDE SHRINKAGE OR COMPACTION



SECTION A  
SCALE: H- 1"=10'  
V- 1"=20'



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**Bkf**  
ENGINEERS / SURVEYORS / PLANNERS  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE DATE  
ASA APPLICATION 7/31/2019

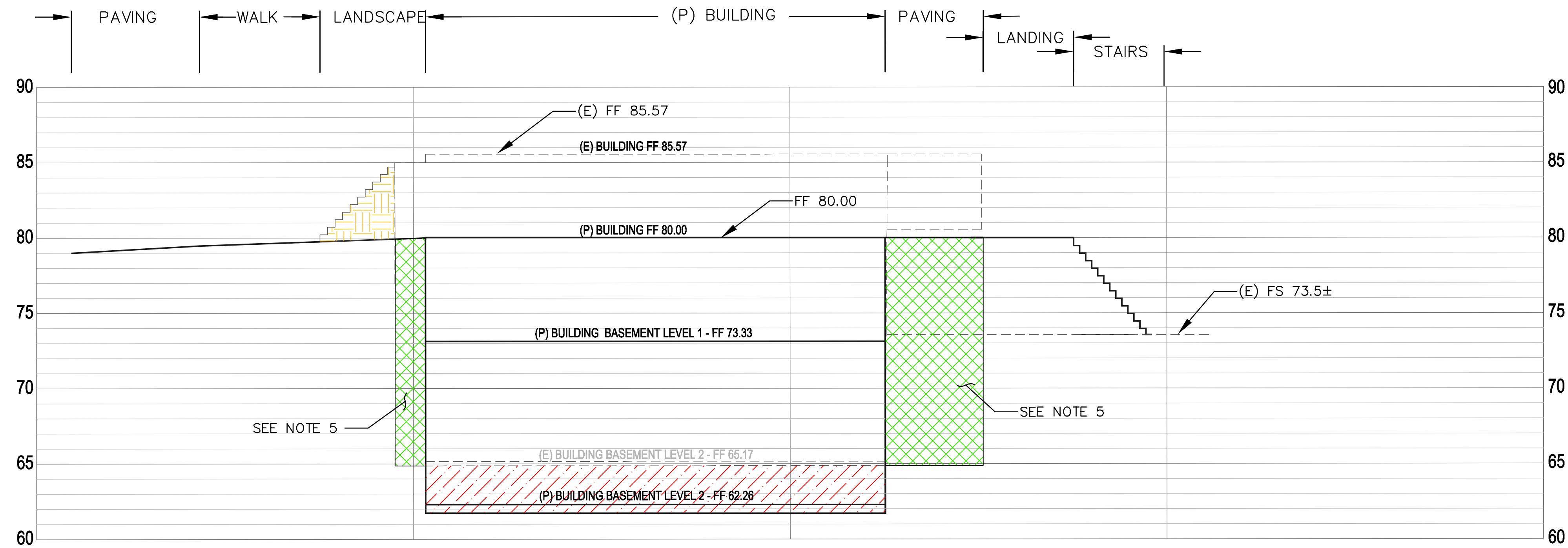
PROJECT NAME  
GEORGE P. SHULTZ  
BUILDING  
HOOVER INSTITUTION  
434 GALVEZ MALL  
STANFORD, CA 93405

SHEET TITLE  
SECTIONS

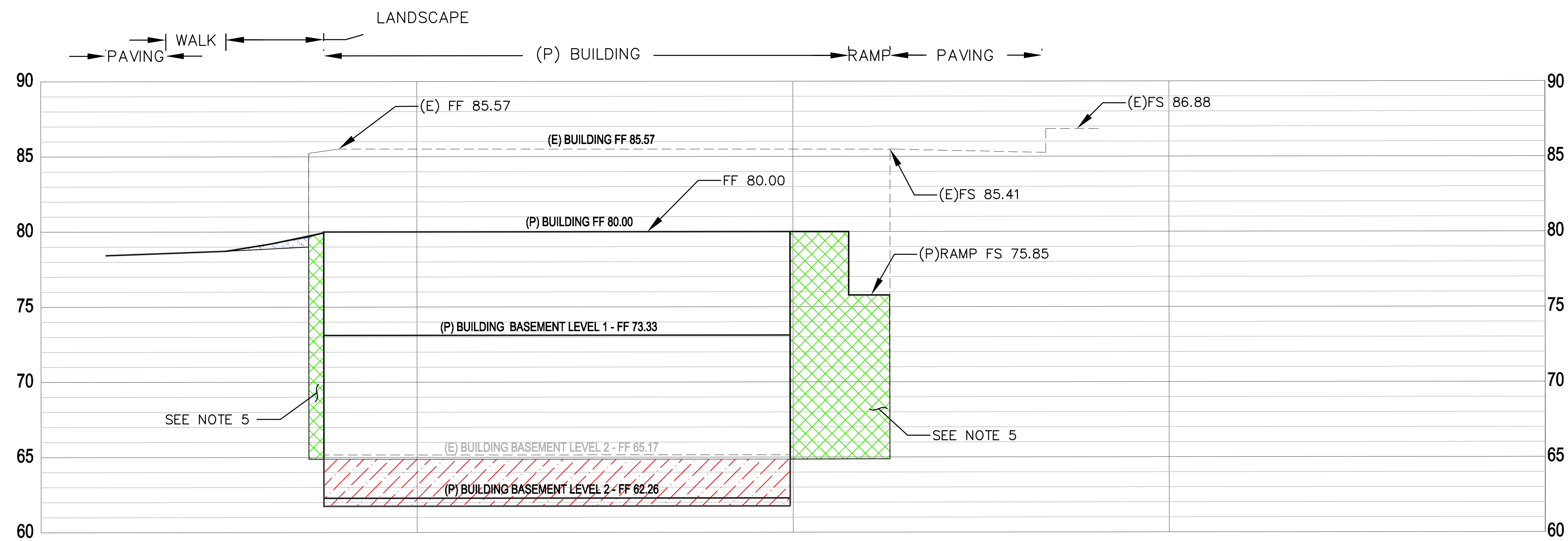
PROJECT NO. 14029  
DRAWN BY SR, CM  
CHECKED BY JL

SHEET  
C5.00





SECTION B  
SCALE: H- 1"=10'  
V- 1"=20'



SECTION C  
SCALE: H- 1"=10'  
V- 1"=20'

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**BKF**  
ENGINEERS / SURVEYORS / PLANNERS

4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

△ MILESTONE	DATE
ASA APPLICATION	7/31/2019

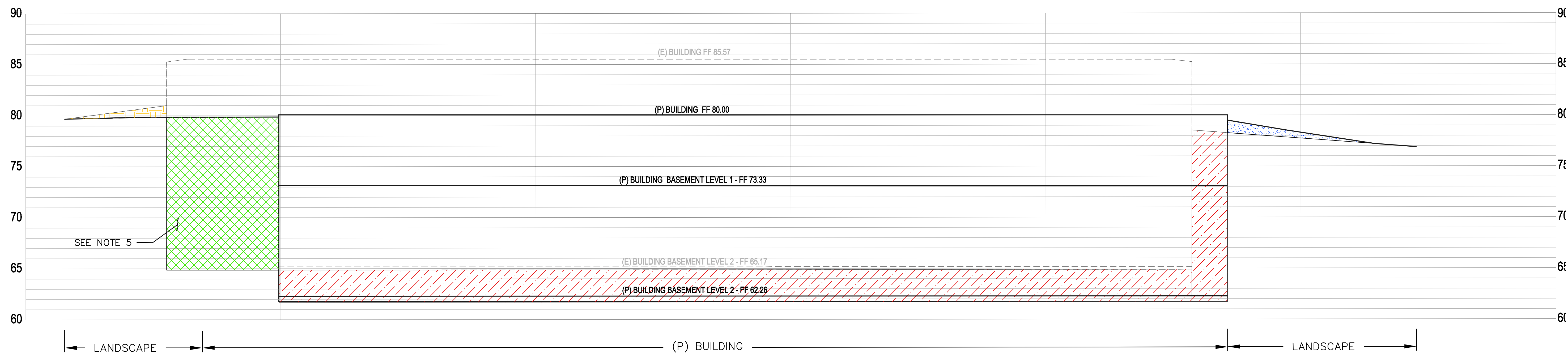
PROJECT NAME  
GEORGE P. SHULTZ  
BUILDING  
HOOVER INSTITUTION  
434 GALVEZ MALL  
STANFORD, CA 93405

SHEET TITLE  
SECTIONS

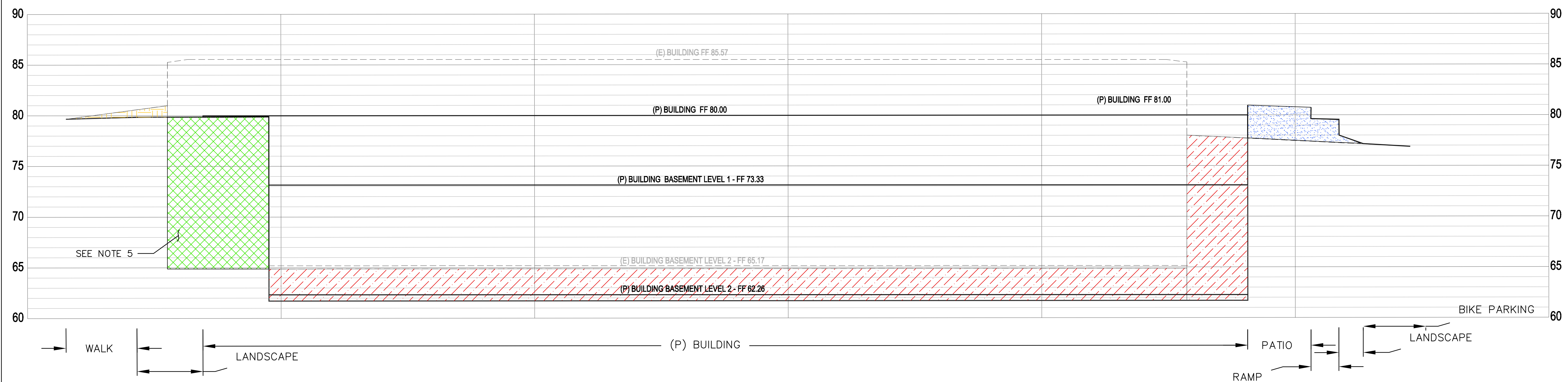
PROJECT NO. 14029  
DRAWN BY SR, CM  
CHECKED BY JL

SHEET  
C5.10





**SECTION D**  
SCALE: H- 1"=10'  
V- 1"=20'



**SECTION E**  
SCALE: H- 1"=10'  
V- 1"=20'



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAMARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



## CONSULTANTS



670 WILLOW RD  
SUITE 250  
LEASANTON, CA 94588  
25-396-7700  
25-396-7799 (FAX)

 MILESTONE

ATE

## ASA APPLICATION

/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

## SECTIONS

PROJECT NO. 14029

DRAWN BY SR, CM

CHECKED BY JL

SHEET

C5.20

5/2/19 5:39:03 PM





455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX 650.328.888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS



4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE

DATE

ASA APPLICATION 7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

SECTIONS

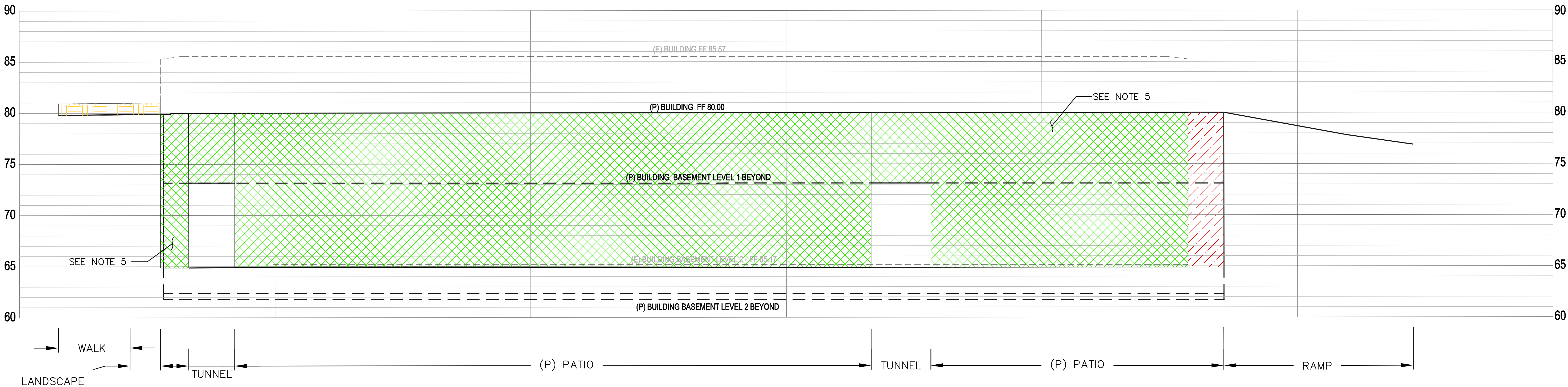
PROJECT NO. 14029

DRAWN BY SR, CM

CHECKED BY JL

SHEET

C5.30

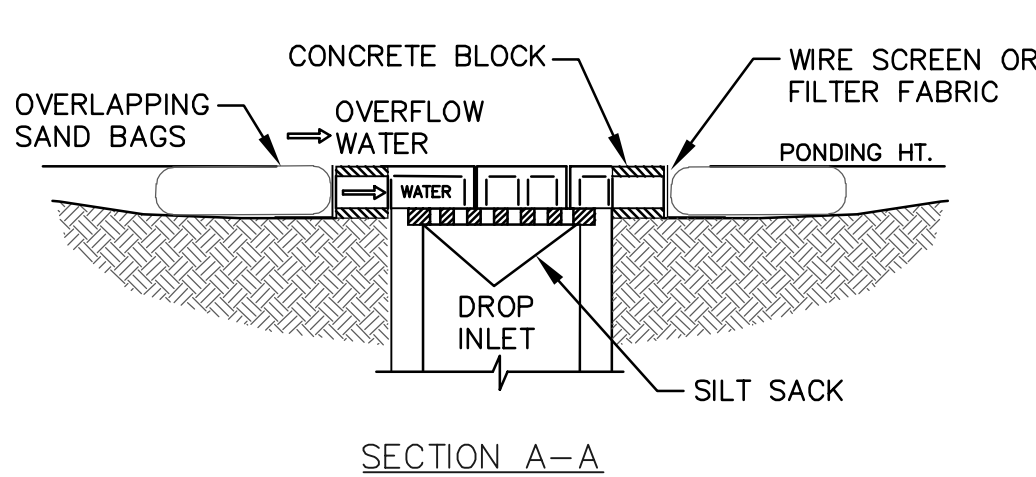
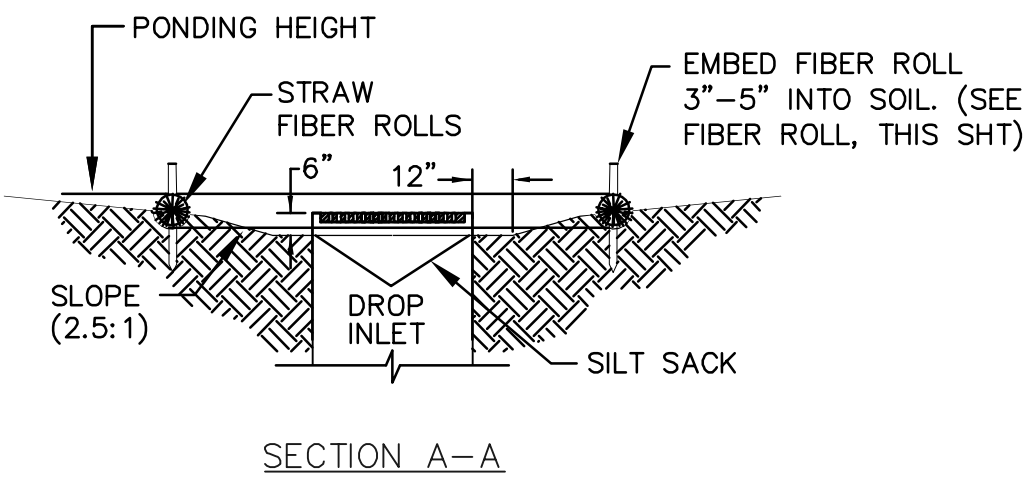
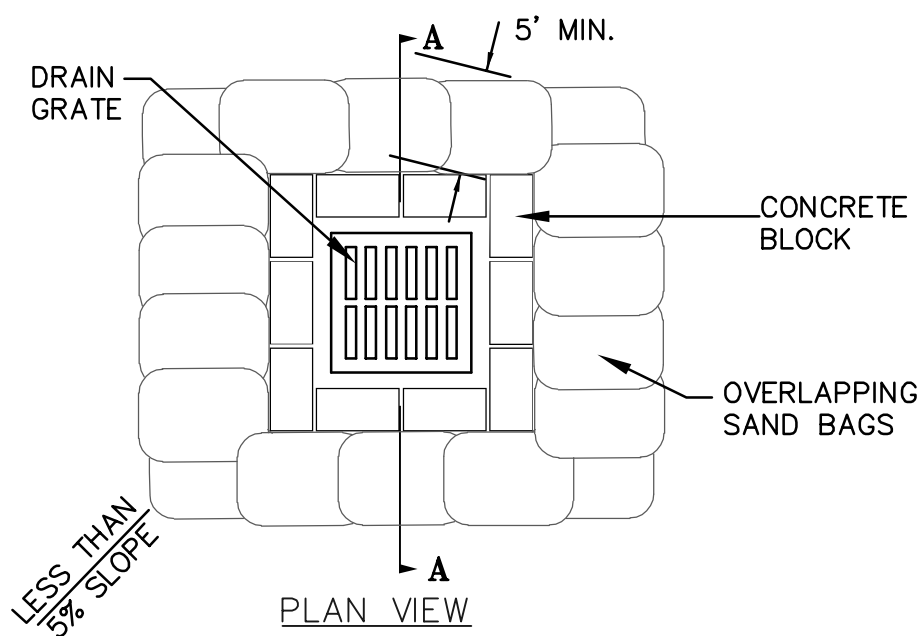
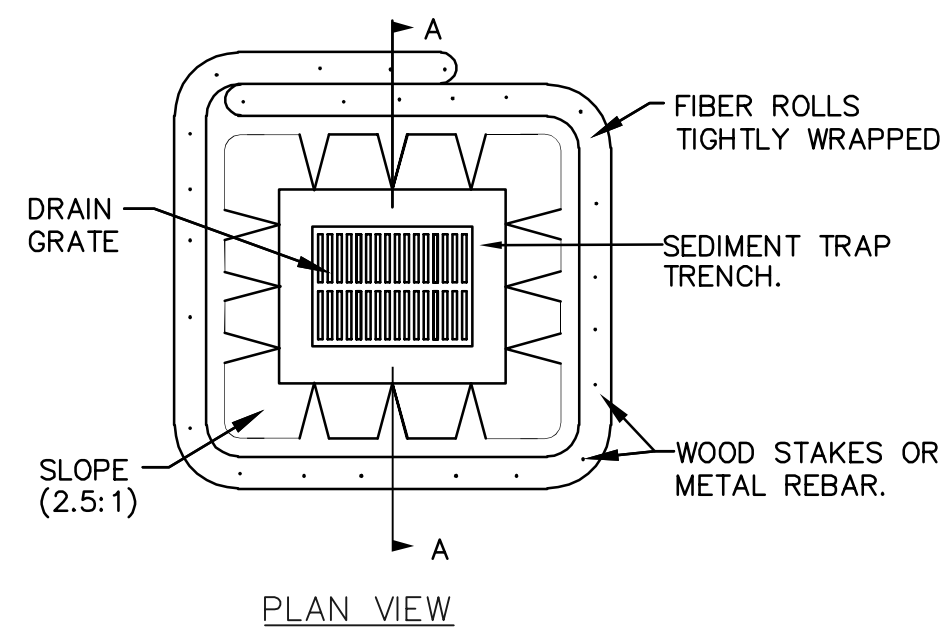


## SECTION F

SCALE: H- 1"=10'

V- 1"=20'





### LEGEND

- STORM DRAIN INLET PROTECTION PER CASQA DETAIL SE-10
- FIBER ROLLS PER CASQA DETAIL SE-5
- LIMIT OF WORK
- STABILIZED CONSTRUCTION ENTRANCE/EXIT PER CASQA DETAIL TC-1
- CURB INLET SEDIMENT DAM
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED TREE PROTECTION FENCING

### TREE PROTECTION NOTES:

- ALL TREE PROTECTION AND INSPECTION SCHEDULE MEASURES, DESIGN RECOMMENDATIONS, WATERING AND CONSTRUCTION SCHEDULING SHALL BE EXECUTED IN FULL BY OWNER AND CONTRACTOR, AS STATED ON SHEETS T-1, T-2, T-3, T-7A, L0.01 AND L0.02, IN THE TREE PROTECTION REPORT, AND THE APPROVED PLANS.
- UTILITY TRENCHING SHALL NOT OCCUR WITHIN THE TPZ OF PROTECTED TREES, BEYOND THAT INDICATED ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO TRENCHING OCCURS WITHIN THE TPZ OF THE PROTECTED TREES BY CONTRACTORS, CITY CREWS, OR FINAL LANDSCAPE WORKERS.
- PRUNING RESTRICTIONS - NO PRUNING OR CLEARANCE CUTTING OF BRANCHES IS PERMITTED ON CITY TREES. CONTRACTOR SHALL OBTAIN A PUBLIC TREE PERMIT FROM URBAN FORESTRY (650-496-5953).
- CONTACT PROJECT ARBORIST BEFORE WORK IN TPZ.
- THE ENTIRE CONSTRUCTION SITE IS A TREE PROTECTION AWARENESS ZONE. REFERENCE T-7A. ALL TRADES ARE RESPONSIBLE FOR PARTICIPATING IN PROTECTION OF EXISTING TREES AND DOING NO HARM TO TREES OR THEIR ROOT SYSTEMS.

### EROSION CONTROL NOTES

- SEE COUNTY OF SANTA CLARA EROSION CONTROL TEMPLATES EC1 AND EC2 FOR BEST MANAGEMENT PRACTICES AND EROSION CONTROL DETAILS.
- FIBER ROLLS SHALL BE INSTALLED AROUND THE PERIMETER ALONG THE CONSTRUCTION FENCE.
- THIS SHEET IS INTENDED FOR EROSION CONTROL ONLY
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL REQUIREMENTS SET FORTH IN THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. XX-XXXX-XXXX-DWQ, NPDES GENERAL PERMIT NO. WDID:XXXXXXX, STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES, ALSO KNOWN AS THE CONSTRUCTION GENERAL PERMIT (CGP) AND THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETAIN A QUALIFIED STORM WATER POLLUTION PREVENTION PLAN PRACTITIONER (QSP) THAT WILL MONITOR THE SITE, IN ACCORDANCE WITH THE CGP.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ANY SEDIMENT FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS AND ADDITIONAL SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY OR PERMANENT CATCH BASINS SHALL USE THE SEDIMENT BARRIERS SHOWN ON THIS PLAN.
- STORM DRAIN PIPING IS SHOWN FOR REFERENCE ONLY. SEE SHEET C4.00 FOR UTILITY RELATED WORK.

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX: 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



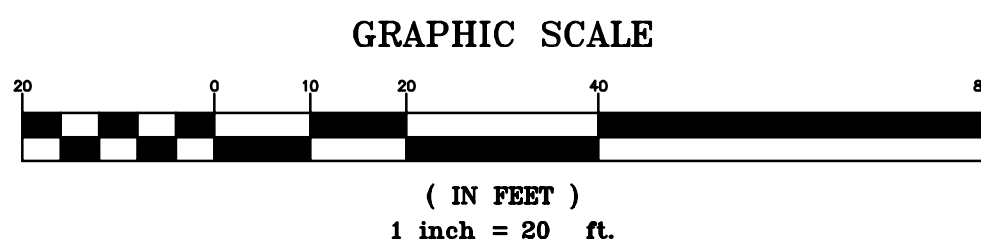
CONSULTANTS

**Bkf**  
ENGINEERING / SURVEYING / PLANNING  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE DATE  
ASA APPLICATION 7/31/2019

### ABBREVIATIONS

AB	AGGREGATE BASE	PVC	POLYVINYL CHLORIDE
AC	ASPHALT CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
AD	AREA DRAIN	PWR	POWER
ALT	ALTERNATE	RW	RECYCLED WATER
BC	BOTTOM OF CURB	RCP	REINFORCED CONCRETE PIPE
BFP	BACK FLOW PREVENTER	S	STATION
BW	BEGINNING OF WALL	SD	STORM DRAIN
CO	CLEANOUT	SDFM	STORM DRAIN FORCE MAIN
CONC	CONCRETE	SEQ	SCIENCE & ENGINEERING QUAD
CU	COPPER PIPE	SIG	SIGNAL
CW	CHILLED WATER	SS	SANITARY SEWER
CWR	CHILLED WATER RETURN	SSR	SOUTH SERVICE ROAD
CWS	CHILLED WATER SERVICE	SW	SEARSVILLE WATER
DI	DRAIN INLET	TC	TOP OF CURB, TELECOM
DIP	DUCTILE IRON PIPE	TEL	TELEPHONE
DW	DOMESTIC WATER	TYP	TYPICAL
E	ELEVATION	TW	TOP OF WALL
ECR	END CURB RETURN	VC	VERTICAL CURVE
EG	EXISTING GRADE	W	WATER
ELEC	ELECTRICAL	WM	WATER METER
EP	EDGE OF PAVEMENT	WV	WATER VALVE
EW	END OF WALL		
EX	EXISTING		
FDC	FIRE DEPARTMENT CONNECTION		
FG	FINISHED GRADE		
FH	FIRE HYDRANT		
FS	FIRE SERVICE		
FW	FIRE WATER		
GES	GREEN EARTH SCIENCE		
HWR	HOT WATER RETURN		
HWS	HOT WATER SERVICE		
INV	INVERT		
IRR	IRRIGATION		
KV	KILO - VOLT		
LG	LIP OF GUTTER		
LW	LAKE WATER		
MH	MANHOLE		
MIN	MINIMUM		
OC	ON CENTER		
PC	POINT ON CURVE		
PIV	POST INDICATOR VALVE		
POC	POINT OF CONNECTION		
PP	PERFORATED PIPE		
PR	PROPOSED		



PROJECT NAME  
GEORGE P. SHULTZ  
BUILDING  
HOOVER INSTITUTION  
434 GALVEZ MALL  
STANFORD, CA 93405

SHEET TITLE  
EROSION CONTROL PLAN

PROJECT NO. 14029  
DRAWN BY SR, CM  
CHECKED BY JL

SHEET  
C6.00











1. FLANGE BOLTS & NUTS SHALL BE KEPT CLEAR OF CONCRETE.
2. SEE PLAN FOR HYDRANT LOCATION.
3. STEEL TIE RODS & CLAMPS ARE NOT ACCEPTABLE.
4. PAINT HYDRANT WHITE.
5. SEE DETAIL CS-172 FOR GUARD POST REQUIREMENTS.
6. WHERE CURB IS ADJACENT TO HYDRANT, HEIGHT OF FLANGE SHALL BE 2" ABOVE CURB.
7. VERIFY HYDRANT LOCATION WITH WATER DEPARTMENT PRIOR TO INSTALLATION.
8. ADD CATHODIC PROTECTION WHEN SHOWN ON DRAWINGS



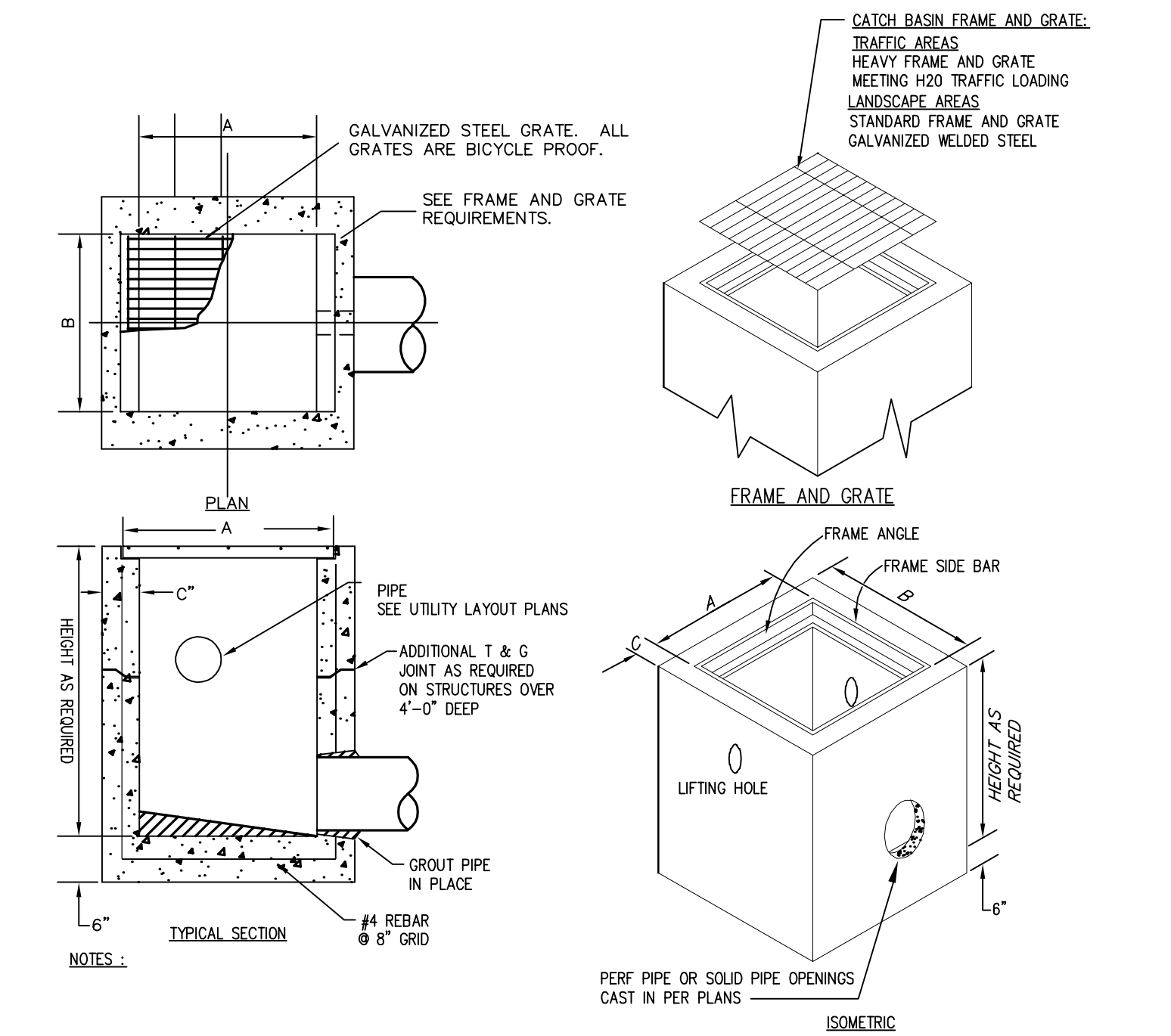
7/31/2019

STANFORD, CA 93405

C8.10

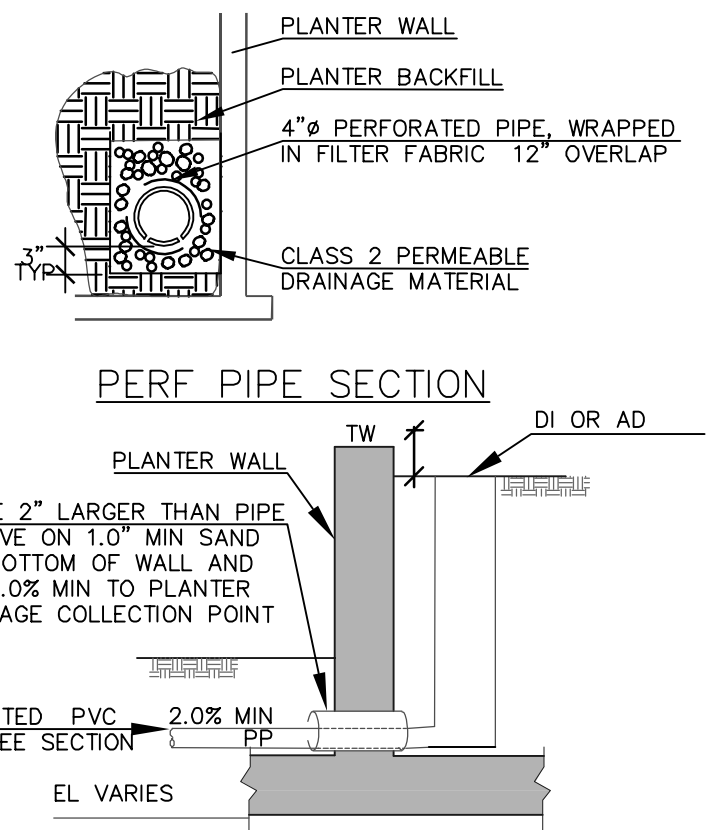
5/2/19 5:39:03 PM



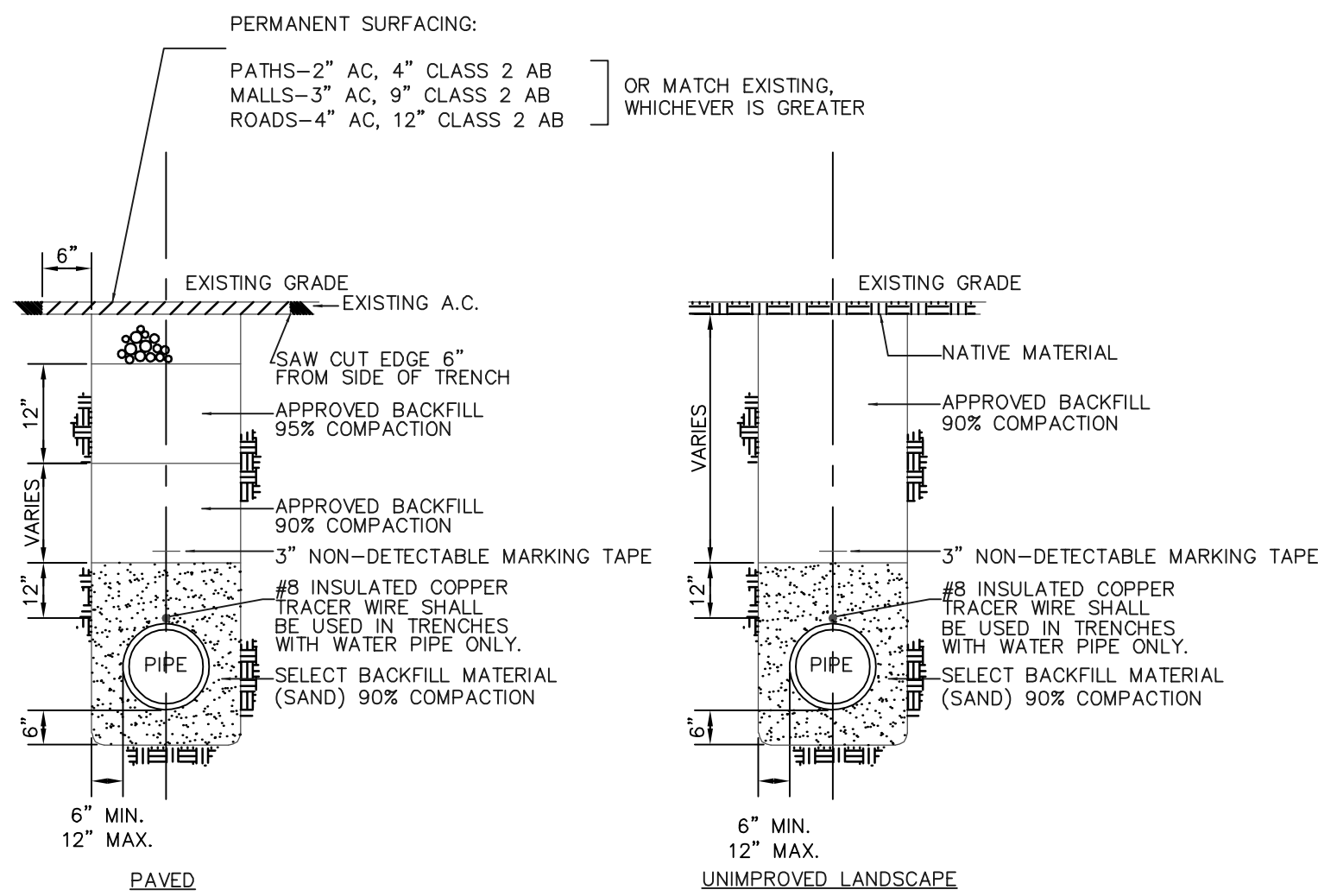


FRAME, GRATES, AND COVERS					
PRECAST INLET TABLE					
INLET TYPE	MODEL	A	B	C	FRAME, GRATE AND COVER TYPE
12" CATCH BASIN	1K	12"	12"	4"	HEAVY FRAME AND GRATE IN TRAFFIC AREAS, STANDARD IN LANDSCAPE AREAS
24" CATCH BASIN	2K	24"	24"	5"	HEAVY FRAME AND GRATE IN TRAFFIC AREAS, STANDARD IN LANDSCAPE AREAS
JUNCTION BOX	3K	24"	24"	5"	REINFORCED CHECKERED SOLID PLATE COVER WITH HEAVY FRAME AND GRATE

1 PRECAST CATCH BASIN OR JUNCTION BOX  
N.T.S.



3 PLANTER WALL DRAINAGE  
N.T.S.



2 TRENCH BACKFILL AND SURFACE RESTORATION  
N.T.S.

CAW  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.888 • FAX: 650.328.888

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

BKF  
ENGINEERS / SURVEYORS / PLANNERS  
4670 WILLOW RD  
SUITE 250  
PLEASANTON, CA 94588  
925-396-7700  
925-396-7799 (FAX)

MILESTONE DATE  
ASA APPLICATION 7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

CIVIL DETAILS

PROJECT NO. 14029

DRAWN BY SR, CM

CHECKED BY JL

SHEET

C8.20



# GEORGE P. SHULTZ BUILDING

## HOOVER INSTITUTION

STANFORD UNIVERSITY  
434 GALVEZ MALL, STANFORD, CA 93405

ASA APPLICATION  
JULY 31, 2019

Landscape Architect

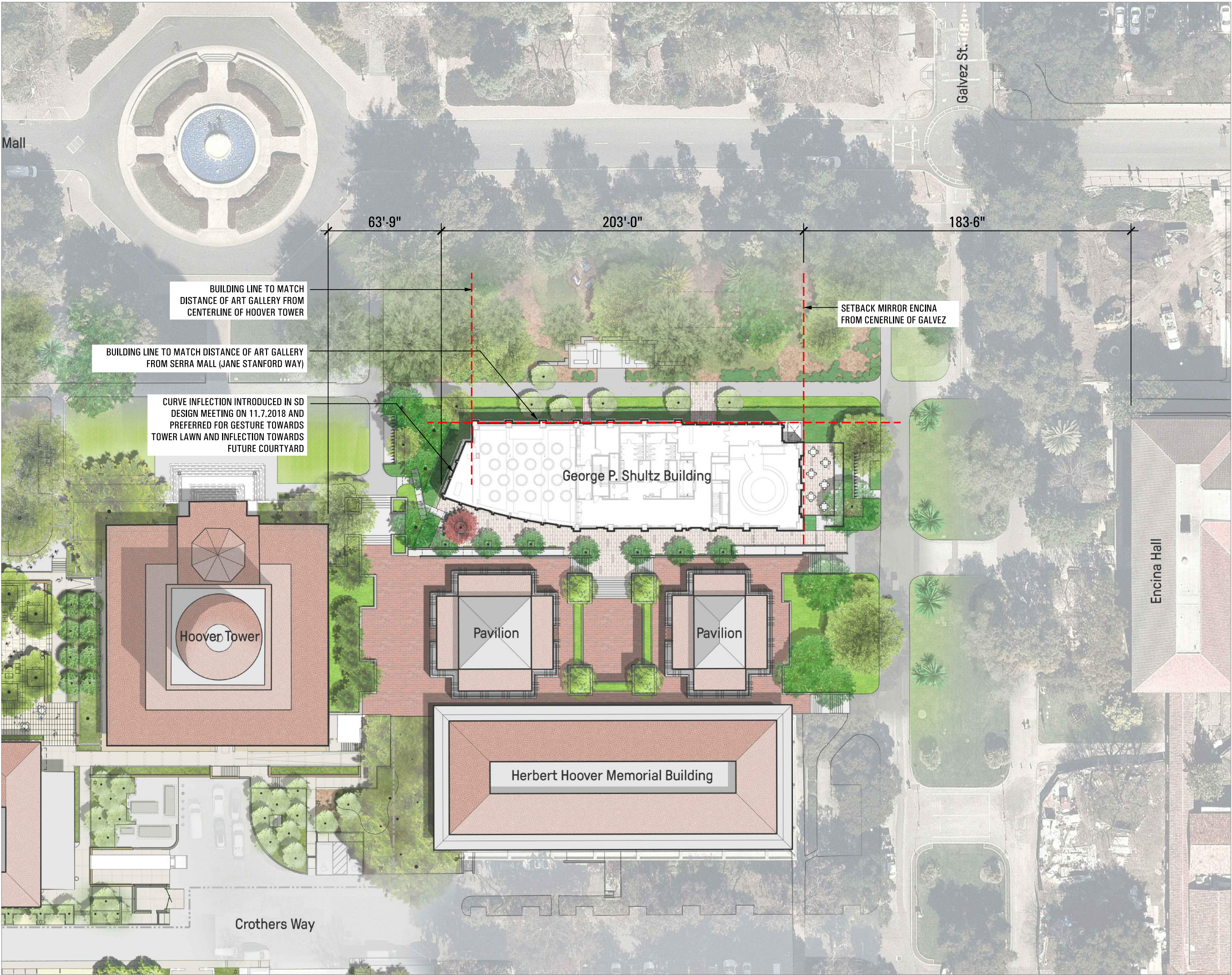
**swa**

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

Consultants

Irrigation Consultant

Russell D. Mitchell Associates, Inc.  
2760 Camino Diablo  
Walnut Creek, CA 94597  
(925) 939-3985



**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
94965-1750  
Boston, MA 02109

STAMP



CONSULTANTS

**swa**

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

△ MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

KEY PLAN

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

CHECKED BY W. HYNES

SHEET

**L0.0**

NOT FOR CONSTRUCTION

7/24/2019 5:47:18 PM



STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES

1. WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 56 39 TREE AND SHRUB PROTECTION.
2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS, AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS THE AREA FROM THE TRUNK OUT TO 10' BEYOND THE DRIPLINE.
3. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
4. ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
5. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN OFFICE OR STANFORD GROUNDS SERVICES CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
6. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, 10' BEYOND THE TREE DRIPLINE WHEREVER POSSIBLE AS SHOWN ON TREE PROTECTION DRAWING. IF PROJECT CONSTRAINTS DO NOT ALLOW FOR FENCING AT THE OUTER EDGE OF THE ROOT ZONE, FENCING MUST BE PLACED AS CLOSE TO THIS AS POSSIBLE AND APPROVED AFTER IT IS IN PLACE BY A STANFORD UNIVERSITY GROUNDS SERVICES CERTIFIED ARBORIST.
7. LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO TREES WITHIN THE PROJECT LIMITS.
8. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
9. PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES.
10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES.
11. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE ROOT ZONE. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE ROOT ZONES OF EXISTING TREES AND SHRUBS.
12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST.
14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
  - A. A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREES' ROOT ZONE.
  - B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS SERVICES CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
  - C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
  - D. DIGGING WITHIN A TREE'S ROOT ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE'S ROOT ZONE UNLESS OTHERWISE APPROVED BY A SGSCA.
  - E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PRUNED CLEANLY, NOT TORN.

THE PRECEDING GUIDELINES SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE GREATER THE DISTANCE OF TREE PROTECTION PROVIDED THE GREATER THE INSTANCE OF TREE SUCCESS IN CONSTRUCTION AREAS.

TREE NOTES

1. CONTRACTOR SHALL TAG ALL TREES TO BE REMOVED, RELOCATED AND PROTECTED. CONTRACTOR SHALL REVIEW ALL TREES WITH THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL & RELOCATION.
2. PLEASE CONTACT A STANFORD ARBORIST TO BE PRESENT FOR NECESSARY ROOT EXCAVATION, DURING THE REMOVAL OF EXISTING PARKING LOT, CURB--PERIMETERS, SIDEWALKS AND OR AGGREGATE PATHWAYS, WHERE ANY TRENCHING MAY SEVER TREE ROOTS. THERE ARE MANY ESTABLISHED TREES IN NARROW PLANTING AREAS AND THESE TREE ROOTS HAVE GROWN NEXT TO OR UNDER SUCH CONCRETE, AGGREGATE WALK WAYS, AND PAST CURBS AND INTO THE PARKING LOT PERIMETERS. STANFORD ARBORIST'S ARE REQUIRED TO OVERSEE CONSTRUCTION WORK THAT IS DONE UNDER TREES, INCLUDING ROOT PRUNING.
3. THIS IS A LIST OF STANFORD UNIVERSITY ARBORISTS:

MICHAEL BURDZINSKI	(650) 444-6589	BURDZINS@STANFORD.EDU
MICHAEL GLADDEN	(650) 313-9436	MGLADDEN@STANFORD.EDU
4. ALL EXISTING LANDSCAPED AREA AND IRRIGATION ARE TO BE RESTORED AND OPERATIONAL WITH PRIOR APPROVAL OF THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE AND STANFORD GROUNDS SERVICES.
5. ONLY HAND EXCAVATION IS TO BE DONE FOR GRUBBING UNDERNEATH THE CANOPIES OR WITHIN ANY PROTECTED EXISTING TREES' ROOTZONE. FOLLOW ALL STANFORD UNIVERSITY TREE AND SHRUB PROTECTION GUIDELINES (AS SHOWN ABOVE) AND REFER TO THE FDG DOCUMENTATION.
6. COORDINATE WITH STANFORD ARBORIST PRIOR TO BEGINNING CONSTRUCTION IF PRUNING TO EXISTING TREES WILL BE NECESSARY IN ORDER TO COMPLETE THE REQUIRED WORK.



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

swa

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

△ MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

TREE PROTECTION AND  
DEMOLITION NOTES

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

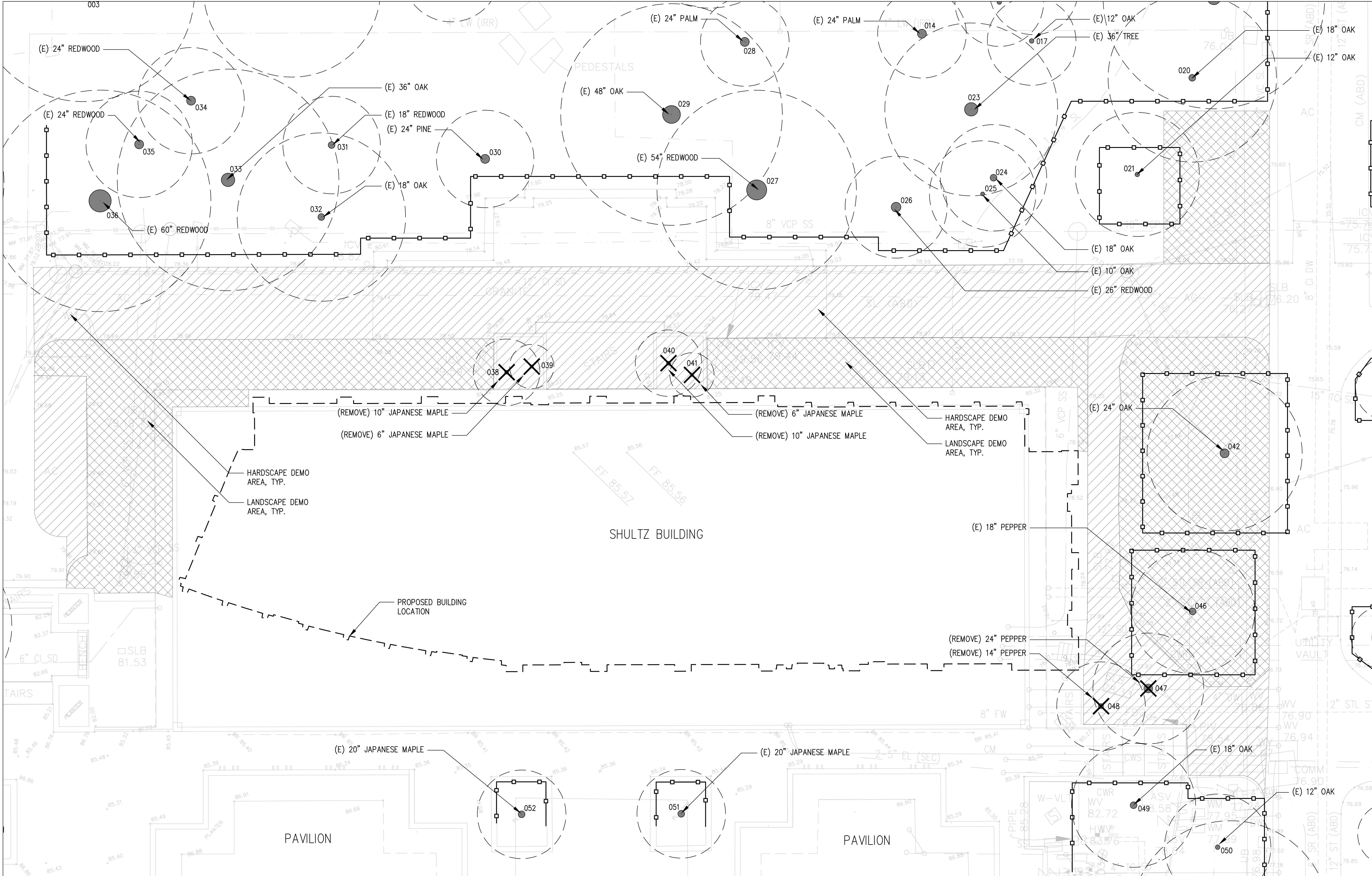
CHECKED BY W. HYNES

SHEET

L1.0

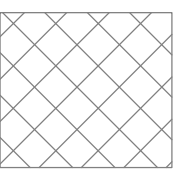
NOT FOR CONSTRUCTION



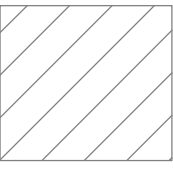


TREE REMOVAL SCHEDULE				
TREE #	BOTANICAL NAME	COMMON NAME	CALIPER SIZE (IN)	ACTION
038	ACER PALMATUM	JAPANESE MAPLE	10"	REMOVE
039	ACER PALMATUM	JAPANESE MAPLE	6"	REMOVE
040	ACER PALMATUM	JAPANESE MAPLE	10"	REMOVE
041	ACER PALMATUM	JAPANESE MAPLE	6"	REMOVE
047	SCHINUS MOLLE	CALIFORNIA PEPPER TREE	24"	REMOVE
048	SCHINUS MOLLE	CALIFORNIA PEPPER TREE	14"	REMOVE

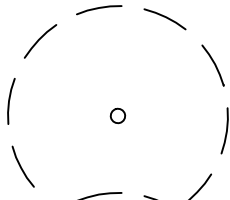
LEGEND



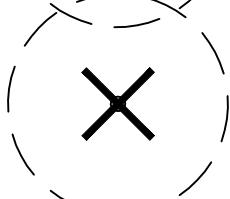
LANDSCAPE DEMO AREA  
CLEAR AND GRUB



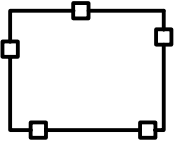
HARDSCAPE DEMO AREA



EXISTING TREE TO REMAIN  
(PROTECT IN PLACE)

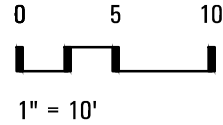


EXISTING TREE TO  
BE REMOVED



TREE PROTECTION  
FENCE

NOTE: SEE TREE PROTECTION AND  
DEMOLITION NOTES SHEET L1.0



1" = 10'



**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**swa**

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

TREE PROTECTION AND  
DEMOLITION PLAN

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

CHECKED BY W. HYNES

SHEET

**L1.1**

NOT FOR CONSTRUCTION



SYM	DESCRIPTION
BLDG	BUILDING
BS	BOTTOM OF STAIR
CL	CENTER LINE
(E)	EXISTING ELEMENT
EJ	EXPANSION JOINT
EQ	EQUAL
(ER)	ORIGINAL LOCATION OF ELEMENT TO BE RELOCATED
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE (PLANTING)
FS	FINISH SURFACE (HARDSCAPE)
(N)	NEW
N/A	NOT APPLICABLE
(NR)	LOCATION OF RELOCATED ELEMENT
O.C.	ON CENTER
P.A.	PLANTING AREA

SYM	DESCRIPTION
P.O.B.	POINT OF BEGINNING
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
S.L.D.	SEE LIGHTING CONSULTANT'S DRAWINGS
S.S.	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DRAWINGS
S.U.	STANFORD UNIVERSITY
TBD	TO BE DETERMINED
TS	TOP OF STAIR
TW	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED

1. LOCATION OF ALL ABOVE GROUND ELEMENTS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT OR STANFORD REPRESENTATIVE.
2. PROPOSED ELEMENTS, INCLUDING UTILITIES, LOCATED AMONG EXISTING TREES SHALL BE REVIEWED IN FIELD WITH LANDSCAPE ARCHITECT AND STANFORD ARBORIST PRIOR TO EXCAVATING.
3. PROVIDE 4'x4' SQUARE MOCKUPS FOR ALL CONCRETE FLATWORK FOR REVIEW AND APPROVAL.
4. PROVIDE 6'x6' SQUARE MOCKUPS FOR PRECAST PAVING FOR REVIEW AND APPROVAL.
5. PROVIDE MOCKUP OF 4' LONG SECTION OF STEPS WITH CONTRASTING STRIPE FOR REVIEW AND APPROVAL.
6. TRASH AND RECYCLE BINS TO BE DETERMINED AND WILL BE LOCATED BY LANDSCAPE ARCHITECT OR STANFORD REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION.
7. ALL EXISTING AND PROPOSED ASPHALT, MULCH AND AGGREGATE PATHS TO HAVE METAL HEADERS.
8. TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LINE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE, AS INFERRED ON DRAWINGS.
9. ALL WORK PERFORMED WITHIN THE DRIP LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE DONE BY HAND LABOR.
10. ALL ANGLES TO BE 90 DEGREES UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON DRAWINGS.
11. HOLD TOPS OF WALLS AND FENCES LEVEL UNLESS OTHERWISE NOTED.
12. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.
13. DIMENSIONS TAKE PRECEDENCE OVERS SCALES SHOWN ON DRAWINGS.
14. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
15. DO NOT INSTALL ANY WORK ON STRUCTURE PRIOR TO REVIEW OF WATERPROOFING BY ARCHITECT.
16. ALL CONCRETE SLABS, RAMPS, OR STEP FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS USING BARS OF THE SAME SIZE AND SPACING UNLESS OTHERWISE NOTED.

CODE	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	JOINT	REMARK
P01	PRECAST PAVERS (PERVIOUS)	PRECAST CONCRETE	STEPSTONE – CALARC	12" X 24" X 2"	TBD	SANDBLAST	1/4"	–
P02	PRECAST PAVERS (NON-PERVIOUS)	PRECAST CONCRETE	STEPSTONE – CALARC	12" X 24" X 2"	TBD	SANDBLAST	1/16"	–
P03	DECOMPOSED GRANITE	CRUSHED AGGREGATE	TMT ENTERPRISES, INC.	1/4"	FELTON GOLD	–	–	STABILIZED USE BINDER PER SPECIFICATIONS
P04	ASPHALT PAVING	ASPHALT	–	PER PLAN	–	–	–	–
P05	LANDSCAPE MULCH	BARK MULCH	BFI ORGANICS	2" SCREENED	DARK BROWN	–	–	–
P06	GRAVEL	GRANITE	TMT ENTERPRISES, INC.	3/4"	FELTON GOLD	ANGULAR	–	–
P07	CONCRETE FLATWORK	INTEGRAL COLOR CONCRETE	DAVIS COLOR	PER PLAN	PALOMINO – 5447	BROOM	SAWCUT – SEE DETAIL	–

CODE	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK
L01	NEW GLOBE LIGHT	POLE: STEEL/CAST IRON GLOBE: ACRYLIC	ANTIQUE STREET LAMPS	POLE: 10' HEIGHT GLOBE: 16" DIAMETER	POLE: BLACK GLOBE: OPAL WHITE	POLE: POWDER COAT	S.L.D.
L02	BOLLARD LIGHT	ALUMINUM	BEGA	2'-7 1/2" HEIGHT	BLACK (BLK)	POWDER COAT	S.L.D.; PRODUCT 99852/99620
L03	WALL MOUNTED DOWNLIGHT	ALUMINUM	BEGA	12 1/2" X 2 3/4"	BLACK (BLK)	POWDER COAT	S.L.D.; PRODUCT 24065
L04	LIGHTED HANDRAIL	EXTRUDED ALUMINUM	COLE LIGHTING	1.66" DIAMETER	BLACK	POWDER COAT	S.L.D.
EX	EXISTING GLOBE LIGHT -- REMAIN	N/A	N/A	N/A	N/A	N/A	
ER	EX. RELOCATED GLOBE LIGHT	N/A	N/A	N/A	N/A	N/A	
NR	NEW RELOCATED GLOBE LIGHT	N/A	N/A	N/A	N/A	N/A	RE-LAMP (E) WITH LED SOURCE

CODE	DESCRIPTION	MATERIAL	SUPPLIER	PRODUCT	SIZE	COLOR	FINISH	REMARKS
A01	BIKE RACK	STEEL	SCH ENTERPRISES, LLC.	LR-P SERIES	VARIES, PER PLAN	BLACK	PFS THERMOPLASTIC	-
A02	PATIO SEATING	ALUMINUM	LANDSCAPE FORMS	CHIPMAN 27" DINING	27" X 29"H	TBD	POWDER COAT	(4) CHIPMAN CHAIRS
A03	METAL HEADER	STEEL	J.D. RUSSELL COMPANY	HEAVY DUTY DURAEDGE	1/4" X 5"	BLACK	POWDER COATED	USE 3/16" X 16" STAKES



COPYRIGHT 2007 BY C&H ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

**STAMP**



## CONSULTANTS

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

 MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

**SHEET TITLE**

### MATERIAL SCHEDULE AND NOTES

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

CHECKED BY W. HYNES

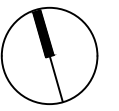
SHEET

NOT FOR CONSTRUCTION











IRRIGATION NOTES

1.

THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
2.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.
3.

THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.
4.

THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
5.

IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.
6.

IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
7.

PROVIDE EACH CONTROLLER WITH ITS OWN GROUND ROD. SEPARATE THE GROUND RODS BY A MINIMUM OF EIGHT FEET. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. INSTALL NO MORE THAN 6" OF THE GROUND ROD ABOVE FINISH GRADE. CONNECT #6 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. MAKE THIS WIRE AS SHORT AS POSSIBLE, AVOIDING KINKS OR BENDING.
8.

SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.
9.

INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION
10.

PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.
11.

IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. TRACING WIRE SHALL HAVE A YELLOW INSULATING JACKET. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.
12.

INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
13.

SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.
14.

INSTALL GREEN (LAWN), BLACK (SHRUB/GC/MULCD) PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.
15.

INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.
16.

VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).
17.

THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS IS A PRESSURE REDUCING TYPE. SET THE DISCHARGE PRESSURE AS FOLLOWS:

A.

SPRAY HEADS=40 PSI

B.

ROTARY HEADS=60 PSI

C.

DRIP EMITTERS=35 PSI

D.

BUBBLERS= 30 PSI
18.

INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.
19.

FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
20.

SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.
21.

LOCATE EMITTER OUTLETS ON UPHILL SIDE OF PLANT OR TREE.
22.

LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
23.

INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
24.

WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.
25.

NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
26.

THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
27.

IRRIGATION DEMAND: REFER TO PLANS.
28.

THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.
29.

PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.
30.

PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.
31.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.
32.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
33.

THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
34.

WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.
35.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.

NOTE:  
INSTALL IRRIGATION SYSTEM PER STANFORD UNIVERSITY FACILITIES DESIGN GUIDELINES AND SPECIFICATIONS;  
HTTP://MAPS.STANFORD.EDU/FDG\_AVAILABLE  
1. TREE AND SHRUB PROTECTION (#01532)  
2. TRENCHING, BACKFILLING & COMPACTING (#02321)  
3. LANDSCAPE IRRIGATION (#02810)

WELO CALCULATIONS (FUTURE SUBMITTAL)

WATER USE ESTIMATION - STANFORD, HOOVER INSTITUTION, SCHULTZ BUILDING													
WATER TYPE		POTABLE											
SITE ETOH		43.4											
		7/5/2019											
REGULAR LANDSCAPE AREAS													
HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE	
1	SHRUBS	LOW	0.2	DRP	0.81	0.247	3,618	893	24,025	0.07	32.12	40%	
2	TREES	LOW	0.2	BUBBLER	0.81	0.247	550	136	3,654	0.01	4.89	6%	
3	SHRUBS	MOD	0.5	DRP	0.81	0.617	4,256	2,627	70,692	0.22	94.51	47%	
4	TREES	MOD	0.5	BUBBLER	0.81	0.617	350	216	5,813	0.02	7.77	4%	
5	TREES	HIGH	0.8	BUBBLER	0.81	0.988	100	99	2,658	0.01	3.55	1%	
6	VINES	MOD	0.5	BUBBLER	0.81	0.617	130	80	2,159	0.01	2.89	1%	
TOTALS							9,002	4,051	109,001	0.33	145.72	100%	
SPECIAL LANDSCAPE AREAS													
HYDROZONE #	HYDROZONE NAME												
						1							0%
						TOTALS							0%
MAWA	GALLONS/YR		109,002										
	ACRE FEET/YR		0.33										
	HCF/YR		145.72										
ETWU	GALLONS/YR		109,001										
	ACRE FEET/YR		0.33										
	HCF/YR		145.72										
SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT											
81.0%	0.36	YES											
ETAF Calculations													
REGULAR LANDSCAPE AREAS													
TOTAL ETAF x AREA		4,051											
TOTAL AREA		9,002											
AVG. ETAF		45.00%											

CAW

ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.

10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP

LICENSED LANDSCAPE ARCHITECT

Signature

10/31/19

Renewal Date

07/31/19

Date

STATE OF CALIFORNIA

CONSULTANTS

swa

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

MILESTONE

DATE

ASA APPLICATION7/31/2019

PROJECT NAME

GEORGE P. SHULTZ BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

IRRIGATION NOTES AND WATER CALCULATIONS

PROJECT NO.

STFS802

DRAWN BY

C. LINDLEY

CHECKED BY

W. HYNES

SHEET

L3.2

NOT FOR CONSTRUCTION

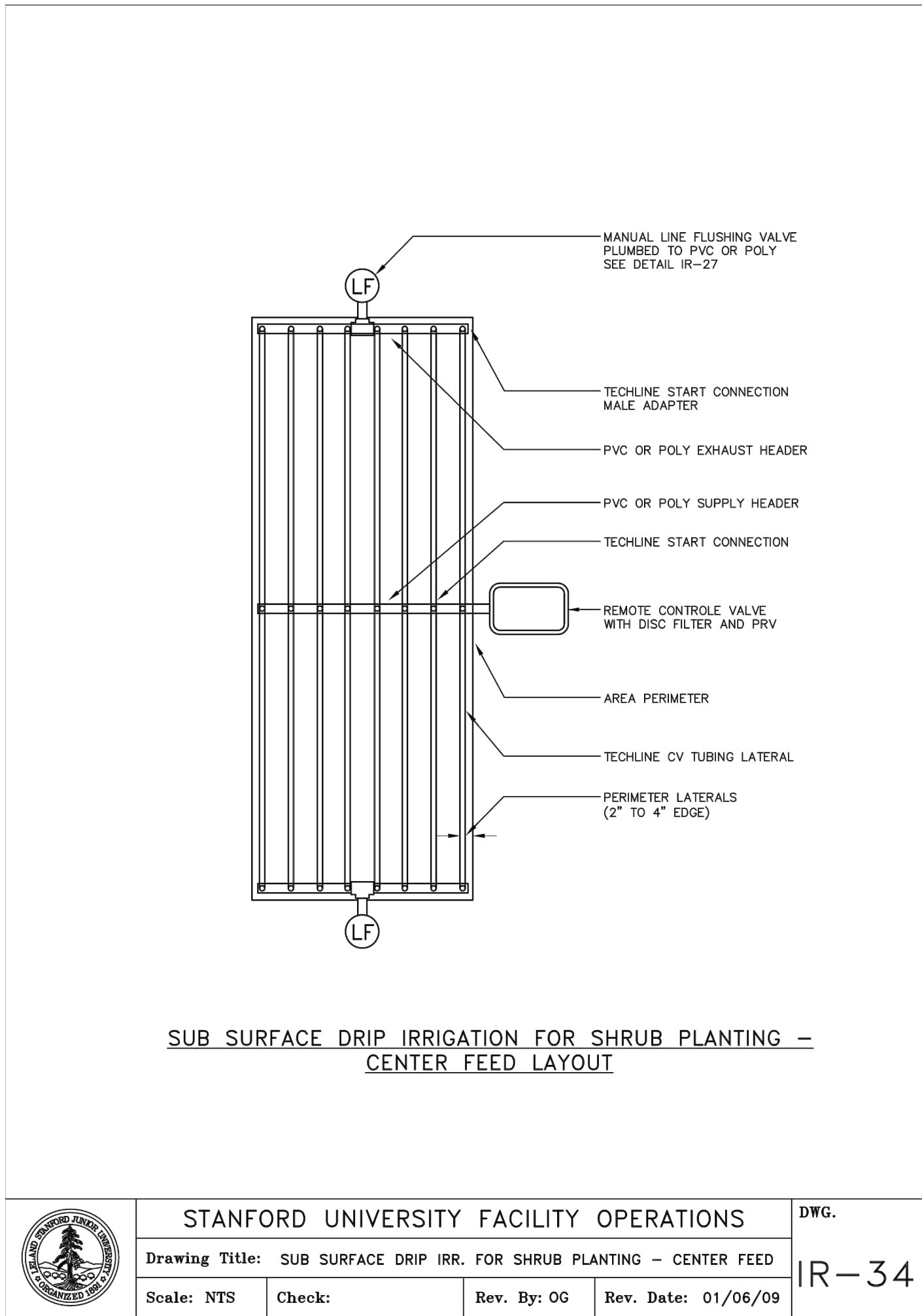
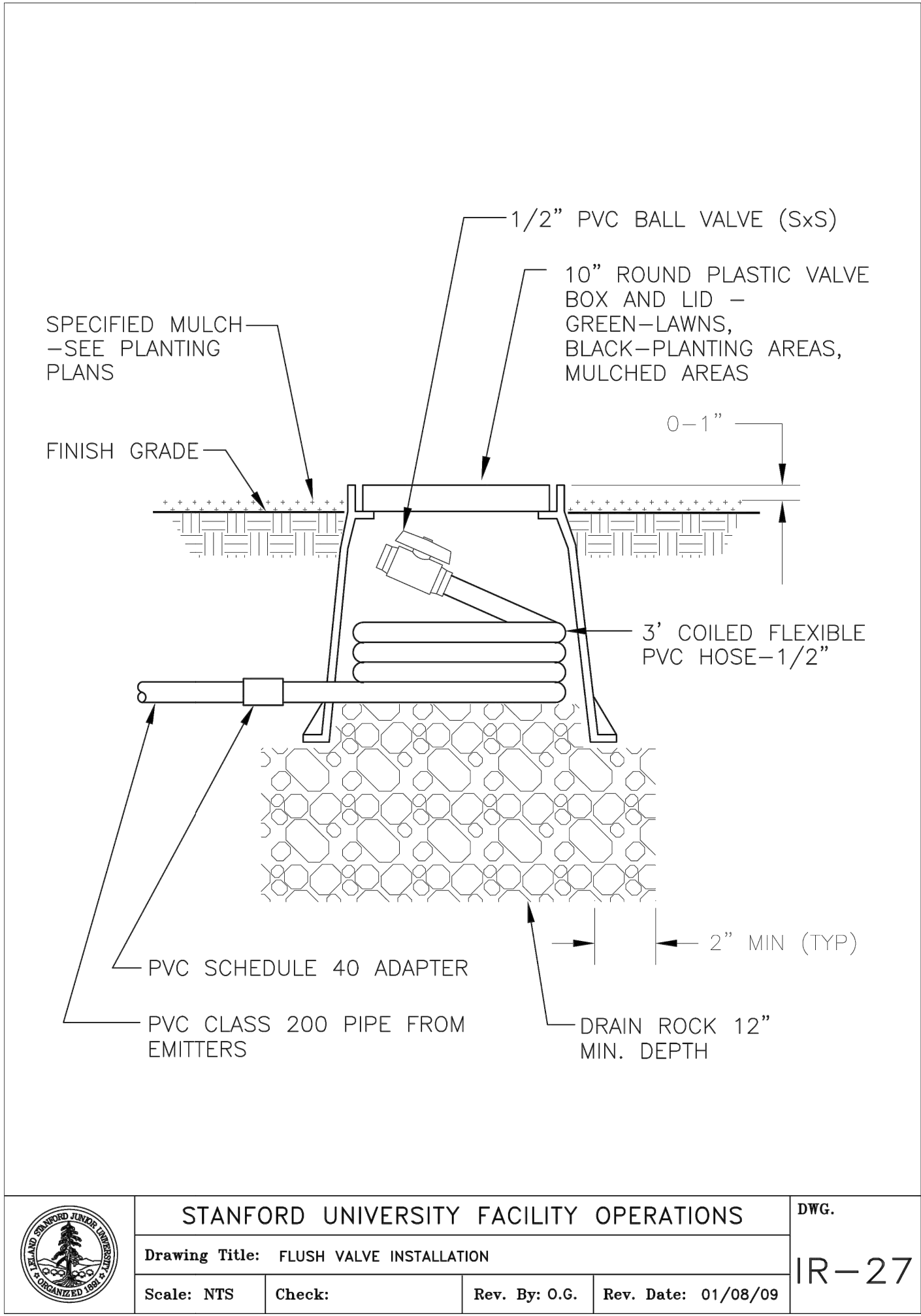












## IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
■	1401 SERIES	RAIN BIRD BUBBLER, 2 MIN PER TREE	0.5	30	TRICKLE
⊗	1401 SERIES	RAIN BIRD BUBBLER, 1 PER SHRUB	0.25	30	TRICKLE
●➔	65ARIA075	NETAFIM DRIPLINE AIR/VACUUM RELIEF VENT			
●+	EBV–O500–T	NDS DRIPLINE FLUSH VALVE, 1/2" SCH. 40 PVC BALL VALVE			
⊠	1806–SAM/MPR–5Q	RAIN BIRD POP–UP SPRINKLER WITH SIDE INLET AND A CLOSED 5' NOZZLE TO BE USED AS DRIPLINE INDICATOR			
⊙	PEB SERIES	RAIN BIRD REMOTE CONTROL VALVE			
⊠	100–PEB–PRS–D/RBY100MPTX	RAIN BIRD REMOTE CONTROL VALVE WITH A PRESSURE REGULATOR (SET TO 45 PSI) AND A 1" FILTER (0.20–18 GPM)			
➔	33 DNP	RAIN BIRD QUICK COUPLING VALVE			
⋈	LGT–XX–SS	LEEMCO STAINLESS STEEL GATE VALVE (LINE SIZE)–2.5" AND SMALLER			
⊙	2160K	GRISWOLD MASTER VALVE, 1.5" (NORMALLY OPEN)			
⊠	FS–150B	RAIN BIRD FLOW SENSOR			
⊠	SXL–1.5"	WILKENS WYE STRAINER			
⊠	500HLR–1.5"	WILKENS WYE PRESSURE REGULATING VALVE			
⊠	–	AMIAD 2" TAF–750 LAKE WATER FILTER			
⊠	MAXI–PEDS–1–P5–NA–LK450–EL24–ANT07–FM–SPP–NL–RBSC–SATVRF–LINKSURVEY	RAIN BIRD ESP–SAT SERIES CONTROLLER (42 STATION, CLUSTER CONTROL UNIT (CCU) INTERFACE AND FLOW MONITORING WITH RADIO COMMUNICATION. ALL IN A SINGLE STAINLESS STEEL PEDESTAL MOUNTED ENCLOSURE. CONTACT RAIN BIRD SERVICES BEFORE CONTROLLER IS ORDERED TO COORDINATE A LINK SURVEY VISIT TO ENSURE PROPER ORDERING OF CONTROLLER.			

NOTE:  
ALL COPIES OF IRRIGATION INVOICES FOR ANY RAIN BIRD PRODUCTS USED ON THIS PROJECT TO BE RETAINED AND SUBMITTED TO STANFORD GROUNDS SERVICES. CONTACT DENNIS NICE (650) 804–2476

SYMBOL	DESCRIPTION
	CONTROLLER AND STATION NUMBER
	FLOW (GPM)
	REMOTE CONTROL VALVE SIZE (IN INCHES)
	ASSOCIATED REMOTE CONTROL VALVE
	CONTROLLER AND STATION NUMBER
	AREA (SQ. FT.)
	FLOW (GPM)
	REMOTE CONTROL VALVE SIZE (IN INCHES)
	ASSOCIATED REMOTE CONTROL VALVE
	MAIN LINE: 2 1/2" AND SMALLER: 1120–SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.
	LATERAL LINE: 3/4" AND LARGER: 1120–SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
	SLEEVEING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.
	DRIP LATERAL LINE: 3/4" AND LARGER: 1120–SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
	DRIPLINE REMOTE CONTROL VALVE
	DRIP ZONE: NETAFIM TECHLINE HCVXR (CHECK VALVE & COPPER) SERIES DRIPLINE, PART # TLHCVXR5–18. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 18" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0–10 GPM, 1.25": 11–20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.
	DRIPLINE REMOTE CONTROL VALVE
	DRIP ZONE: NETAFIM TECHLINE HCVXR (CHECK VALVE & COPPER) SERIES DRIPLINE, PART # TLHCVXR5–12. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 12" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0–10 GPM, 1.25": 11–20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION.
	DRIPLINE REMOTE CONTROL VALVE
	APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY WHEN DRIP ZONE IS LESS THAN 3 GPM AND NO PVC SUPPLY/EXHUST HEADERS ARE NEEDED. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION.

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**swa**

2200 Bridgeway  
Sausalito, California  
94965–1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

MILESTONE DATE  
ASA APPLICATION 7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

IRRIGATION DETAILS AND LEGEND

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

CHECKED BY W. HYNES

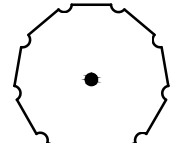
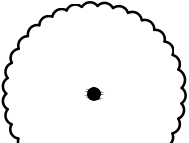
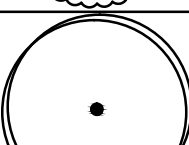
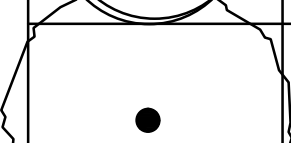
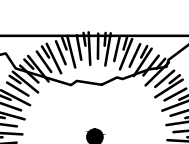
SHEET

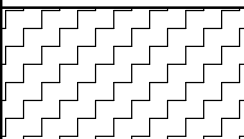
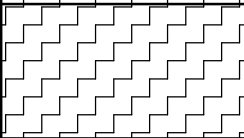
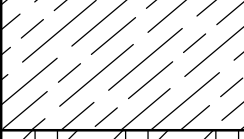
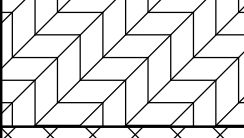
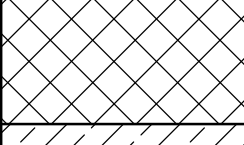
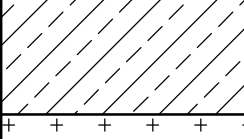
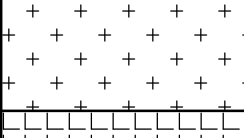
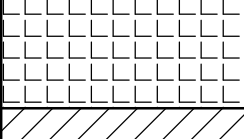

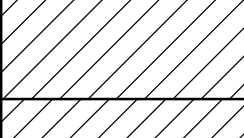
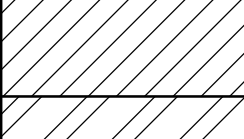

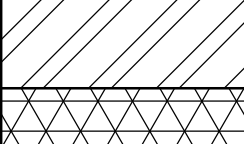
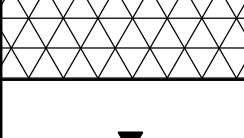

**L3.5**

NOT FOR CONSTRUCTION



## PLANT LIST

TREE SCHEDULE						
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONTAINER	TRUNK	REMARKS
	CBE	CARPINUS BETULUS 'FASTIGIATA'	EUROPEAN HORNBEAM	24" BOX	SINGLE	
	OEU	OLEA EUROPAEA 'MAJESTIC BEAUTY'	MAJESTIC BEAUTY FRUITLESS OLIVE	24" BOX	MULTI	
	PCH	PISTACIA CHINENSIS 'KEITH DAVEY'	FRUITLESS CHINESE PISTACHE	48" BOX	SINGLE	
	QAG	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX	SINGLE	
	SSE	SEQUOIA SEMPERVIRENS 'APTOS BLUE'	COAST REDWOOD	36" BOX	SINGLE	

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SPACING	CONTAINER	REMARKS
	AAA	HETEROMELES ARBUTIFOLIA	TOYON	60" O.C.	5 GAL	—
	AAA	MAHONIA REPENS	CREeping MAHONIA	36" O.C.	5 GAL	—
	AAA	RHAMNUS CALIFORNICA	COFFEEBERRY	48" O.C.	5 GAL	—
	ADE	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCINN'	HOWARD MCINN MANZANITA	36" O.C.	5 GAL	—
	CKI	COPROSMA KIRKII	CREeping MIRROR PLANT	48" O.C.	5 GAL	—
	SHO	SARCOCOCCA HOOKERIANA VAR. HUMILIS	SWEET BOX	48" O.C.	5 GAL	—
	PTO	PITTOSPORUM TOBIRA	JAPANESE PITTOSPORUM	48" O.C.	5 GAL	—
	LJA	LIGUSTRUM JAPONICUM 'TEXANUM'	WAXLEAF PRIVET	36" O.C.	5 GAL	—
	FGA	FUCHSIA 'GARTENMEISTER BONSTEDT'	GARTENMEISTER FUCHSIA	36" O.C.	5 GAL	—
	BBB	RHODODENDRON	RHODODENDRON, AZALEA	36" O.C.	5 GAL	—
	BBB	AUCUBA JAPONICA	SPOTTED LAUREL	36" O.C.	5 GAL	—
	BBB	FATSIA JAPONICA	JAPANESE ARALEA	48" O.C.	5 GAL	—
	CCC	CAMELLIA SASANQUA 'YULETIDE'	YULETIDE CAMELLIA	48" O.C.	5 GAL	—
	CCC	HYDRANGEA QUERCIFOLIA	OAK LEAF HYDRANGEA	48" O.C.	5 GAL	—
	DGR	DIETES GRANDIFLORA	FORTNIGHT LILY	18" O.C.	5 GAL	—
	FRE	FICUS REPENS	CLIMBING FIG	PER PLAN	5 GAL	—

### PLANTING AND IRRIGATION NOTES

1. ALL EXISTING LANDSCAPED AREAS AND IRRIGATION IN THE AREA THAT MAY HAVE BEEN IMPACTED ARE TO BE RESTORED AND OPERATIONAL WITH PRIOR APPROVAL OF THE STANFORD UNIVERSITY ARCHITECT AND PLANNING OFFICE AND STANFORD GROUNDS SERVICES.
2. EXISTING WIRING, CONTROLLER AND POINT OF CONNECTION TO BE REUSED FOR THIS PROJECT. NEW OR REPLACED EQUIPMENT SHOULD BE REPLACED IN ACCORDANCE WITH FDG GUIDELINES.
3. CONTRACTOR TO PROVIDE A SUBMITTAL TO STANFORD GROUNDS SERVICES FOR REVIEW FOR ALL PROPOSED EQUIPMENT USED TO RESTORE EXISTING SYSTEM. PROPOSED EQUIPMENT, DOCUMENTATION AND DETAIL DRAWINGS CAN BE FOUND AT THE STANFORD FDG GUIDELINES:  
[HTTP://MAPS.STANFORD.EDU/SITES/ALL/LBREE-SHARED/FILES/DOCS\\_PUBLIC/LANDSCAPING\\_DESIGN\\_GUIDELINES.PDF](http://maps.stanford.edu/sites/all/lbree-shared/files/docs_public/landscaping_design_guidelines.pdf)  
AND [HTTP://MAPS.STANFORD.EDU/FDG\\_VIEW\\_DRAWINGS](http://maps.stanford.edu/fdg_view_drawings)
4. SPECIFY THAT ONLY RAIN BIRD IRRIGATION PARTS ARE UTILIZED. INCLUDE ADDITIONAL NOTE: ALL COPIES OF IRRIGATION INVOICES FOR ANY RAIN BIRD PRODUCTS USED IN THIS PROJECT TO BE RETAINED AND SUBMITTED TO GROUNDS SERVICES. STANFORD GROUNDS IRRIGATION (650) 650-725-8687.
5. PROVIDE 3" OF MULCH FOR ALL PLANTING AREAS AND 10' BEYOND THE LIMITS OF WORK.
6. EACH TREE LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
7. AMEND TOPSOIL PER SPECIFICATIONS IN ALL PLANTING AREAS. PROVIDE AND INSTALL IMPORTED TOPSOIL AS MAY BE NECESSARY TO COMPLETE THE WORK AND MEET GRADES AS REQUIRED BY THE CIVIL DRAWINGS.
8. ALL SHRUBS PLACED ADJACENT TO A VERTICAL STRUCTURE (WALL, FOOTINGS, ETC.) SHALL HAVE MINIMUM OF 24" DEPTH OF SOIL.



455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY C&H ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq  
Suite 1010  
Boston, MA 02109


STAMP



## CONSULTANTS

swa

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

 MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

*SHEET TITLE*

PLANT LIST AND NOTES

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

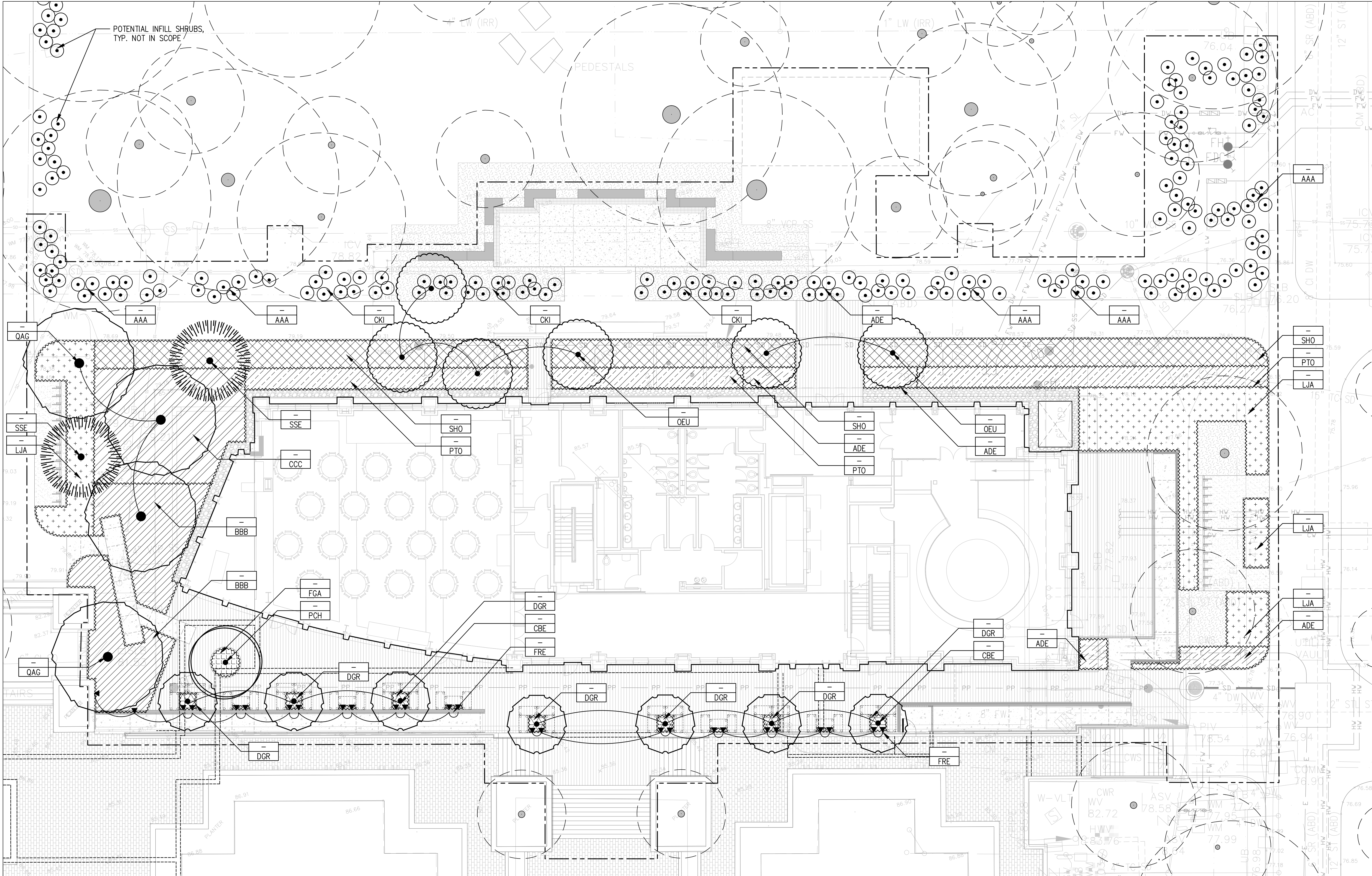
CHECKED BY W. HYNES

SHEET

## L4.0

NOT FOR CONSTRUCTION





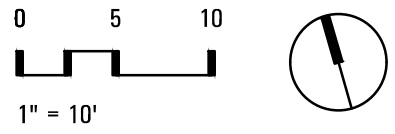
PLANT LIST

TREES		
CBE	CARPINUS BETULUS 'FASTIGIATA'	EUROPEAN HORNBEAM
OEU	OLEA EUROPAEA 'MAJESTIC BEAUTY'	MAJESTIC BEAUTY FRUITLESS OLIVE
PCH	PISTACIA CHINENSIS 'KEITH DAVEY'	FRUITLESS CHINESE PISTACHE
QAG	QUERCUS AGRIFOLIA	COAST LIVE OAK
SSE	SEQUOIA SEMPERVIRENS 'APTOS BLUE'	COAST REDWOOD
GARDEN MIX A		
AAA	HETEROMELES ARBUTIFOLIA	TOYON
AAA	MAHONIA REPENS	CREeping MAHONIA
AAA	RHAMNUS CALIFORNICA	COFFEEBERRY

GARDEN MIX B		
BBB	AUCUBA JAPONICA	SPOTTED LAUREL
BBB	FATSIA JAPONICA	JAPANESE ARALEA
BBB	RHODODENDRON	RHODODENDRON, AZALEA
GARDEN MIX C		
CCC	CAMELLIA SASANQUA 'YULETIDE'	YULETIDE CAMELLIA
CCC	HYDRANGEA QUERCIFOLIA	OAK LEAF HYDRANGEA

SHRUBS		
ADE	ARCTOSTAPHYLOS DENSIFLORA	HOWARD MCMINN MANZANITA
CKI	COPROSMA KIRKII	CREeping MIRROR PLANT
DGR	DIETES GRANDIFLORA	FORTNIGHT LILY
FGA	FUCHSIA 'GARTENMEISTER BONSTEDT'	GARTENMEISTER FUCHSIA
LJA	LIGUSTRUM JAPONICUM 'TEXANUM'	WAXLEAF PRIVET
PTO	PITTIOSPORUM TOBIRA	JAPANESE PITTIOSPORUM
SHO	SARCOCOCCA HOOKERIANA VAR. HUMILIS	SWEET BOX
VINES		
FRE	FICUS REPENS	CLIMBING FIG

NOTE: FOR PLANT SIZE, SPACING AND NOTES, SEE SHEET L4.0



**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

**swa**

2200 Bridgeway  
Sausalito, California  
94965-1750  
United States  
www.swagroup.com  
+1.415.332.5100 o

MILESTONE	DATE
ASA APPLICATION	7/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

434 GALVEZ MALL

STANFORD, CA 93405

SHEET TITLE

PLANTING PLAN

PROJECT NO. STFS802

DRAWN BY C. LINDLEY

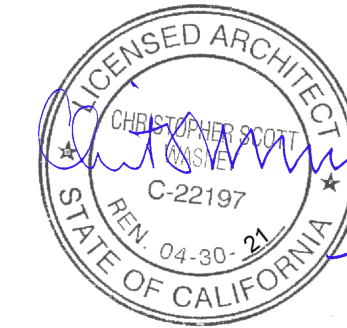
CHECKED BY W. HYNES

SHEET

**L4.1**

NOT FOR CONSTRUCTION





△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

BASEMENT B2 PLAN

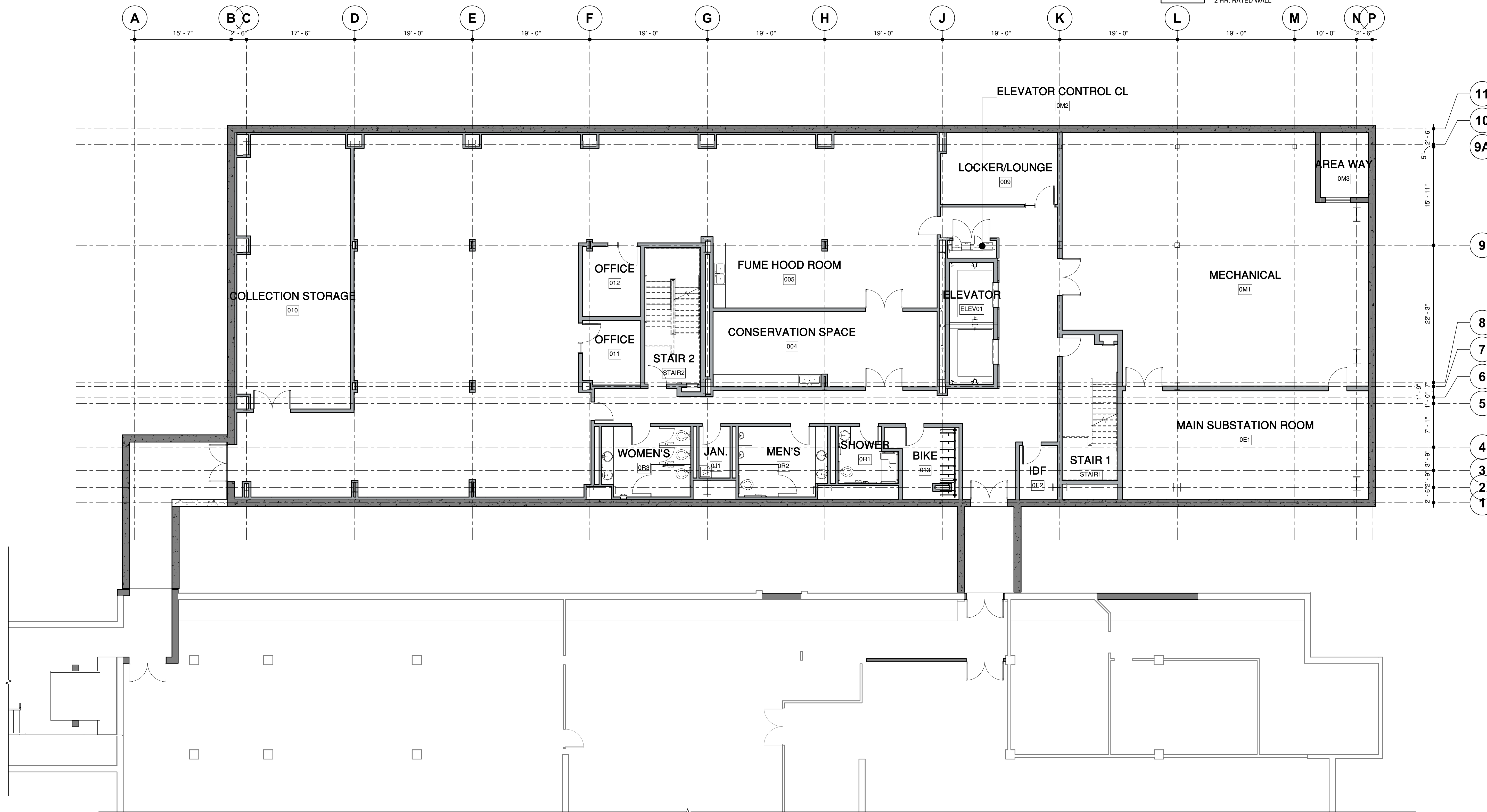
A1.00

## GENERAL NOTES

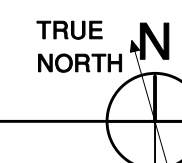
- ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
- COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
- SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

## FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL



1 BASEMENT B2 FLOOR PLAN  
1/8" = 1'-0"







△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME
GEORGE P. SHULTZ BUILDING
HOOVER INSTITUTION
580 SERRA MALL
STANFORD, CA 93405

SHEET TITLE
FIRST FLOOR PLAN

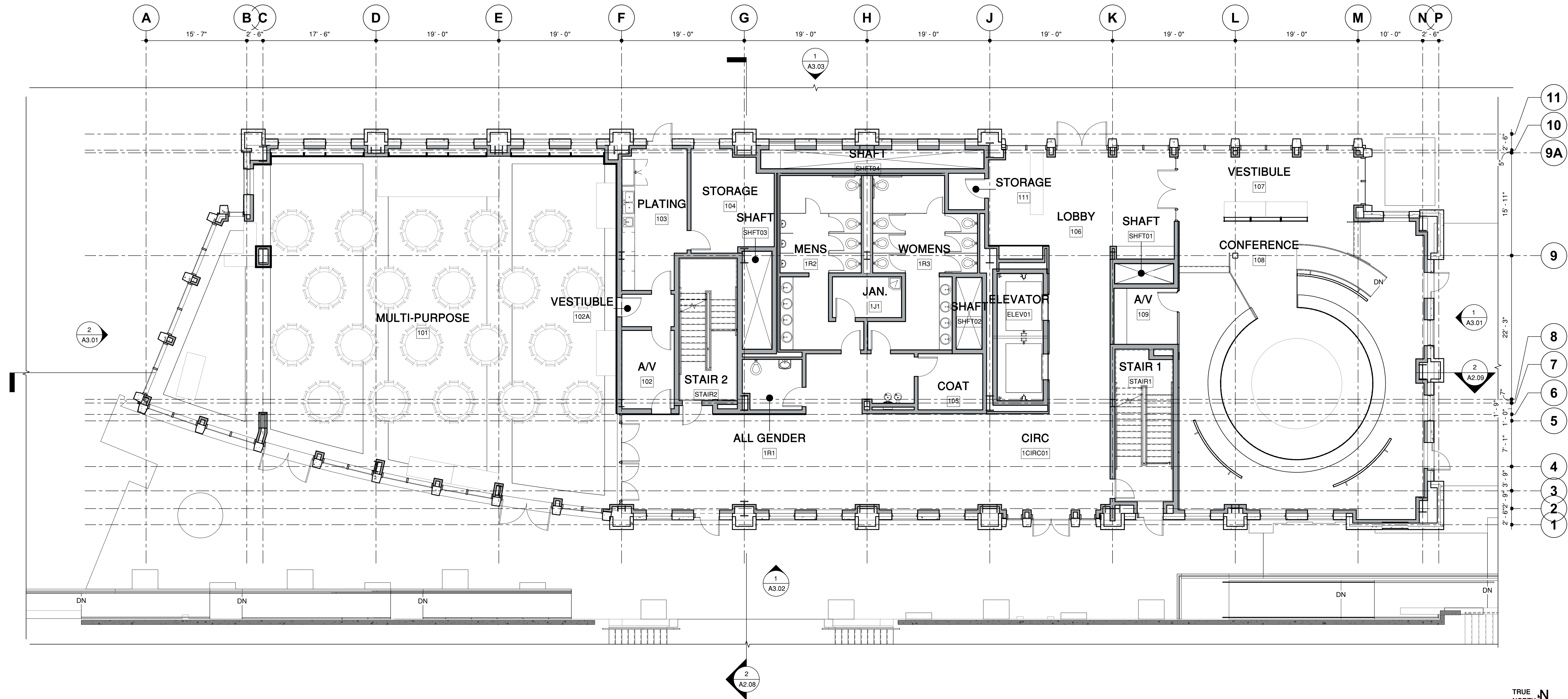
PROJECT NO.	14029
DRAWN BY	TK, KC, AS
CHECKED BY	PN, MA, CSW

GENERAL NOTES

- ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
- COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
- SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL



1 FIRST FLOOR PLAN  
1/8" = 1'-0"





△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SECOND FLOOR PLAN

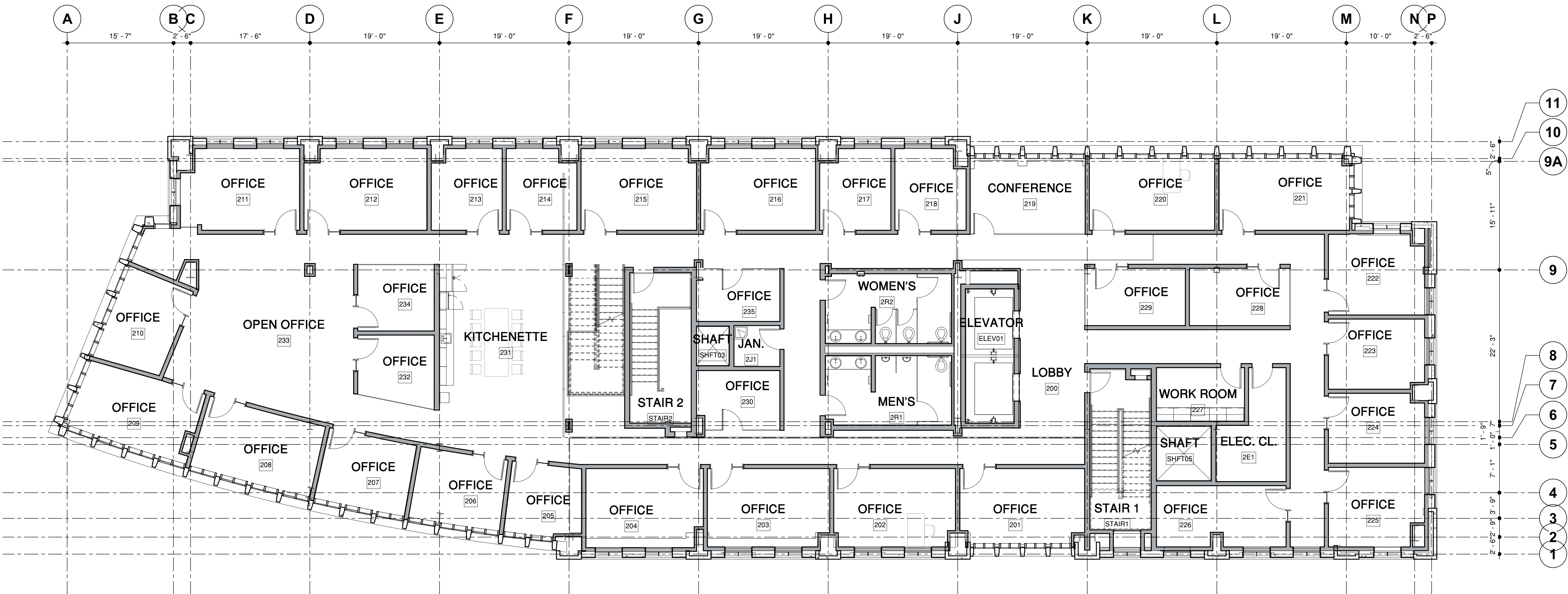
A1.02

GENERAL NOTES

- ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
- COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
- SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

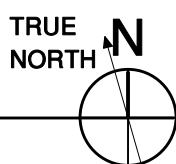
FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL



1 SECOND FLOOR PLAN

1/8" = 1'-0"







△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

THIRD FLOOR PLAN

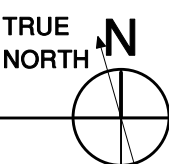
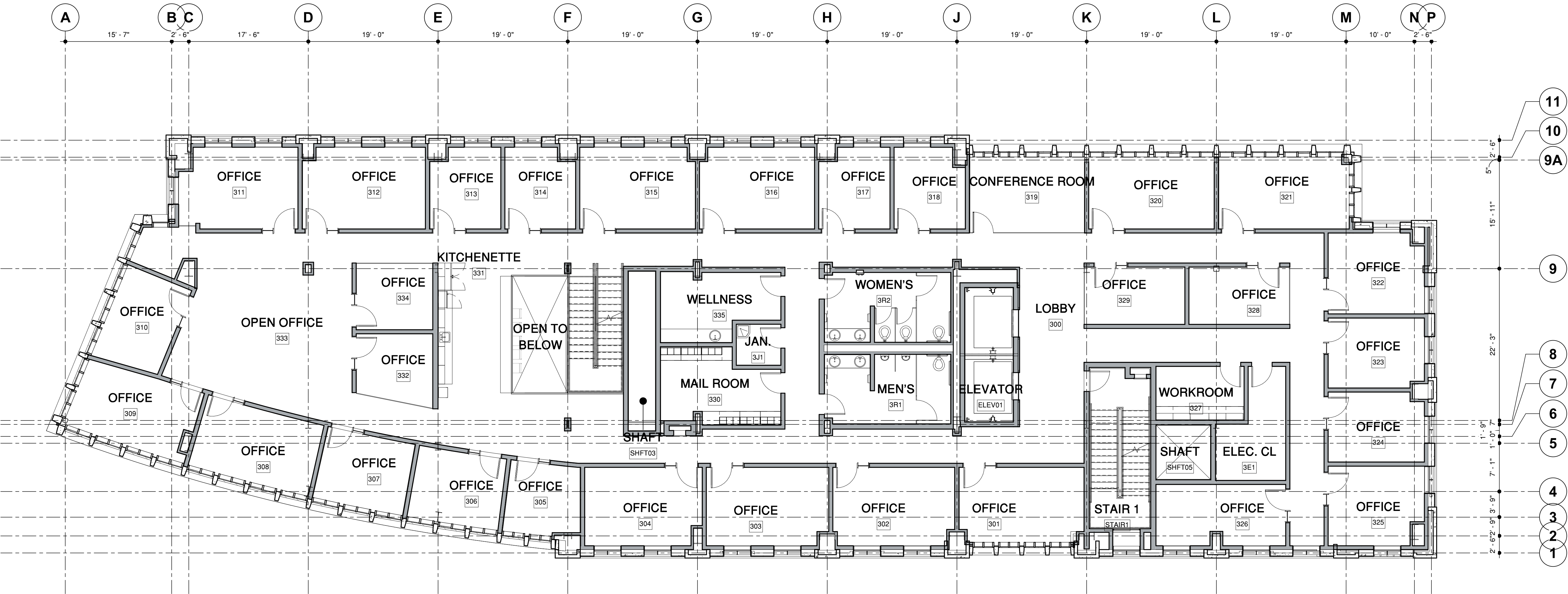
A1.03

GENERAL NOTES

- ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
- COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
- SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL







△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

FOURTH FLOOR PLAN

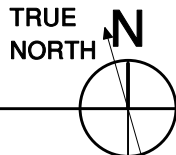
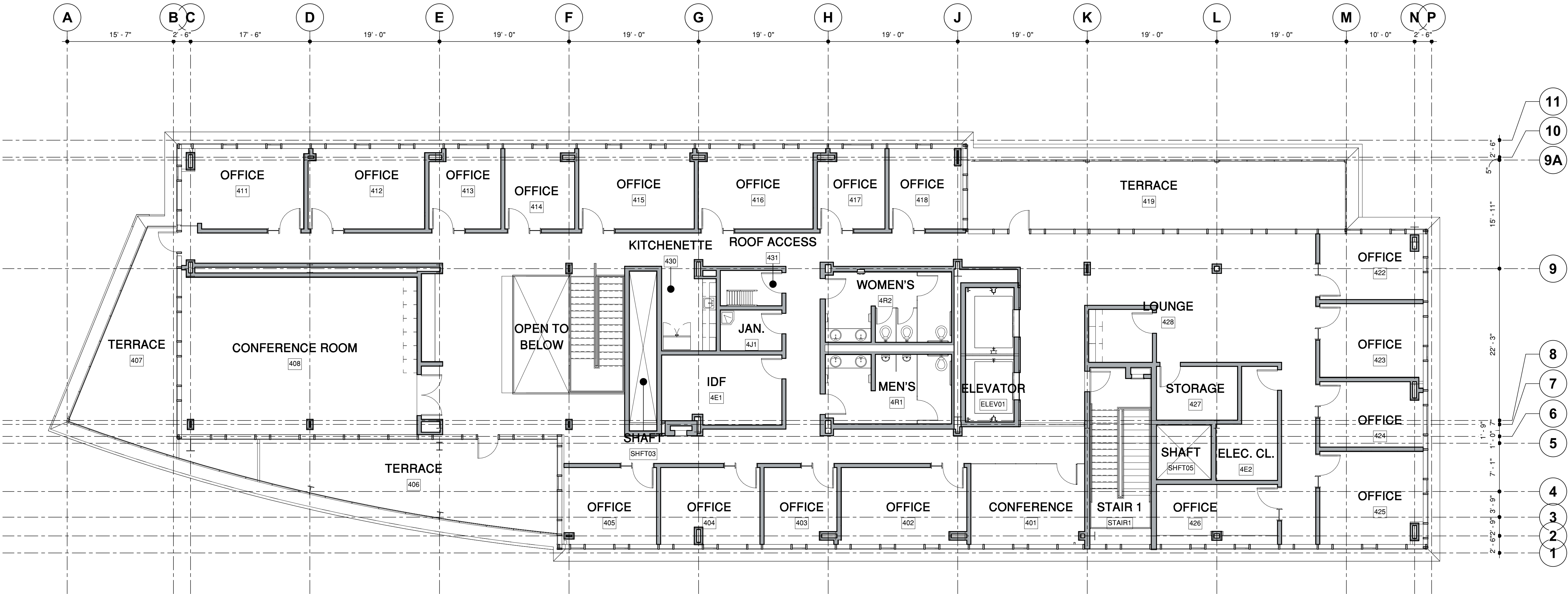
A1.04

GENERAL NOTES

- ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
- COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
- SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL



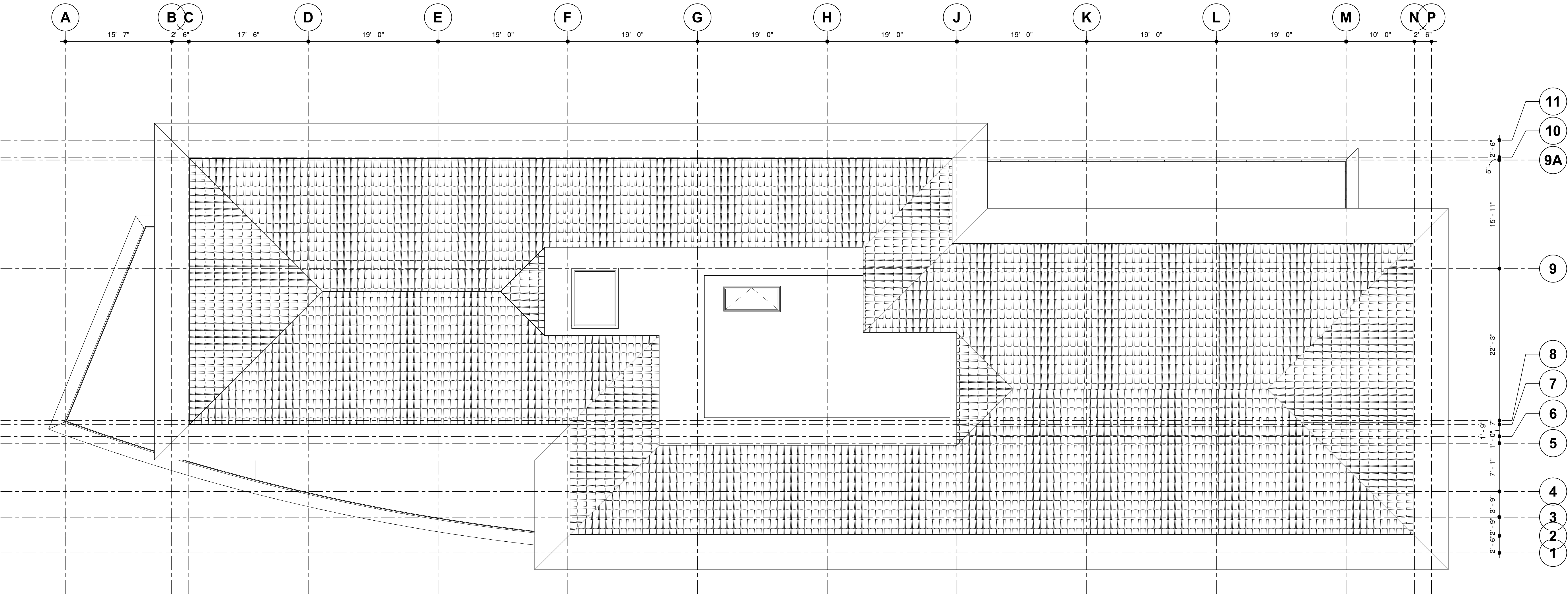


GENERAL NOTES

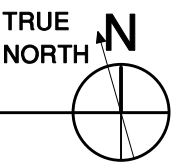
1. ALL COLUMNS TO BE ENCLOSED IN FURRED WALLS F3, U.N.O.
2. COLUMNS AND BEAMS AROUND STAIR, ELEVATOR, AND DUCT SHAFTS TO BE 1-HR RATED WITH SPRAY APPLIED OR GYP BOARD FIRE PROOFING.
3. SEE STRUCTURAL DRAWINGS FOR ALL SLAB OPENINGS AT SHAFTS.

FLOOR PLAN LEGEND

- NON-RATED WALL OR PARTITION
- 1 HR. RATED WALL
- 2 HR. RATED WALL



1 ROOF PLAN  
1/8" = 1'-0"



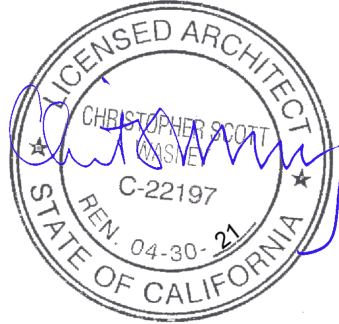
**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

ROOF PLAN

PROJECT NO. 14029

DRAWN BY TK, KC, AS

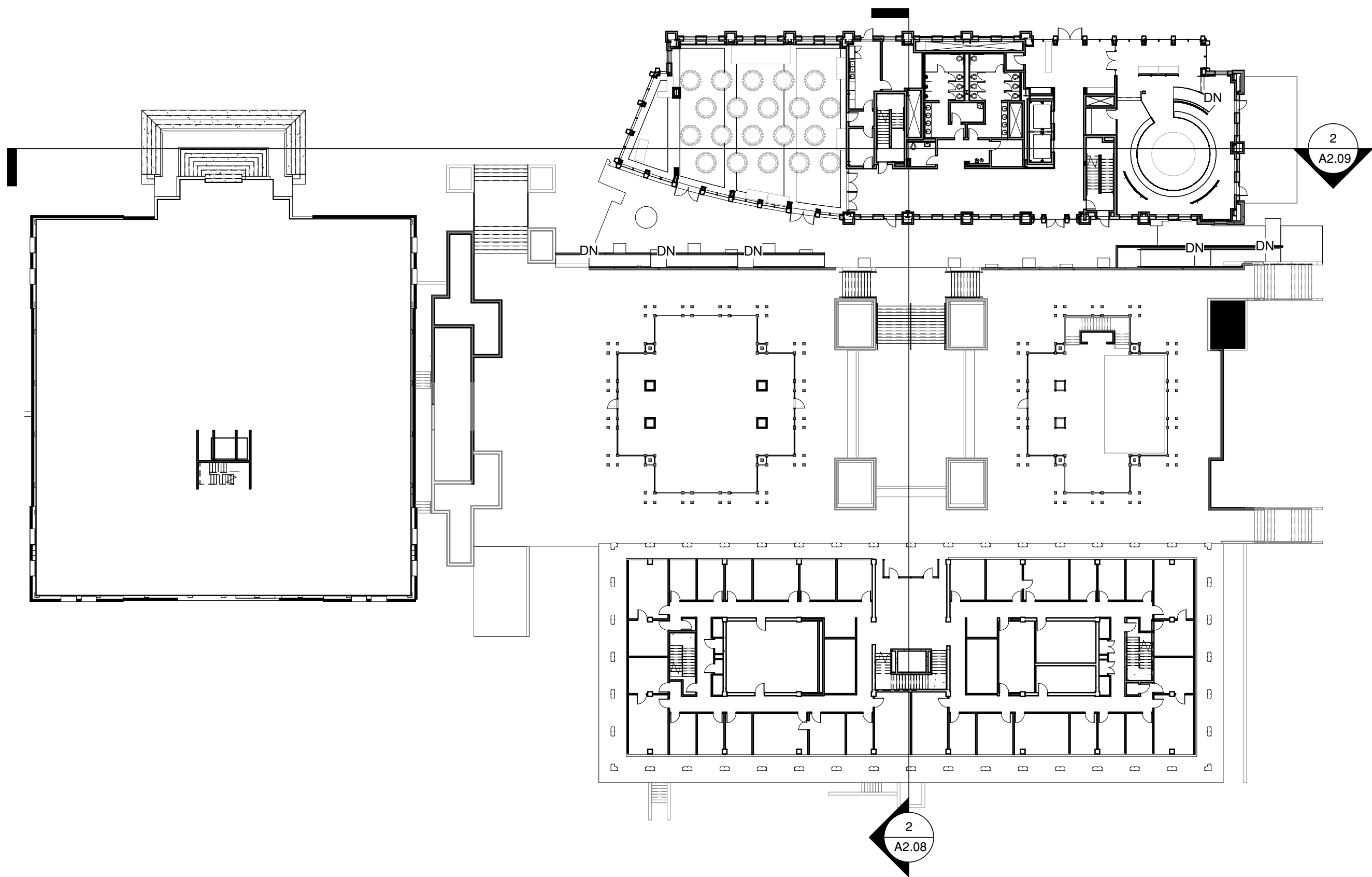
CHECKED BY PN, MA, CSW

SHEET

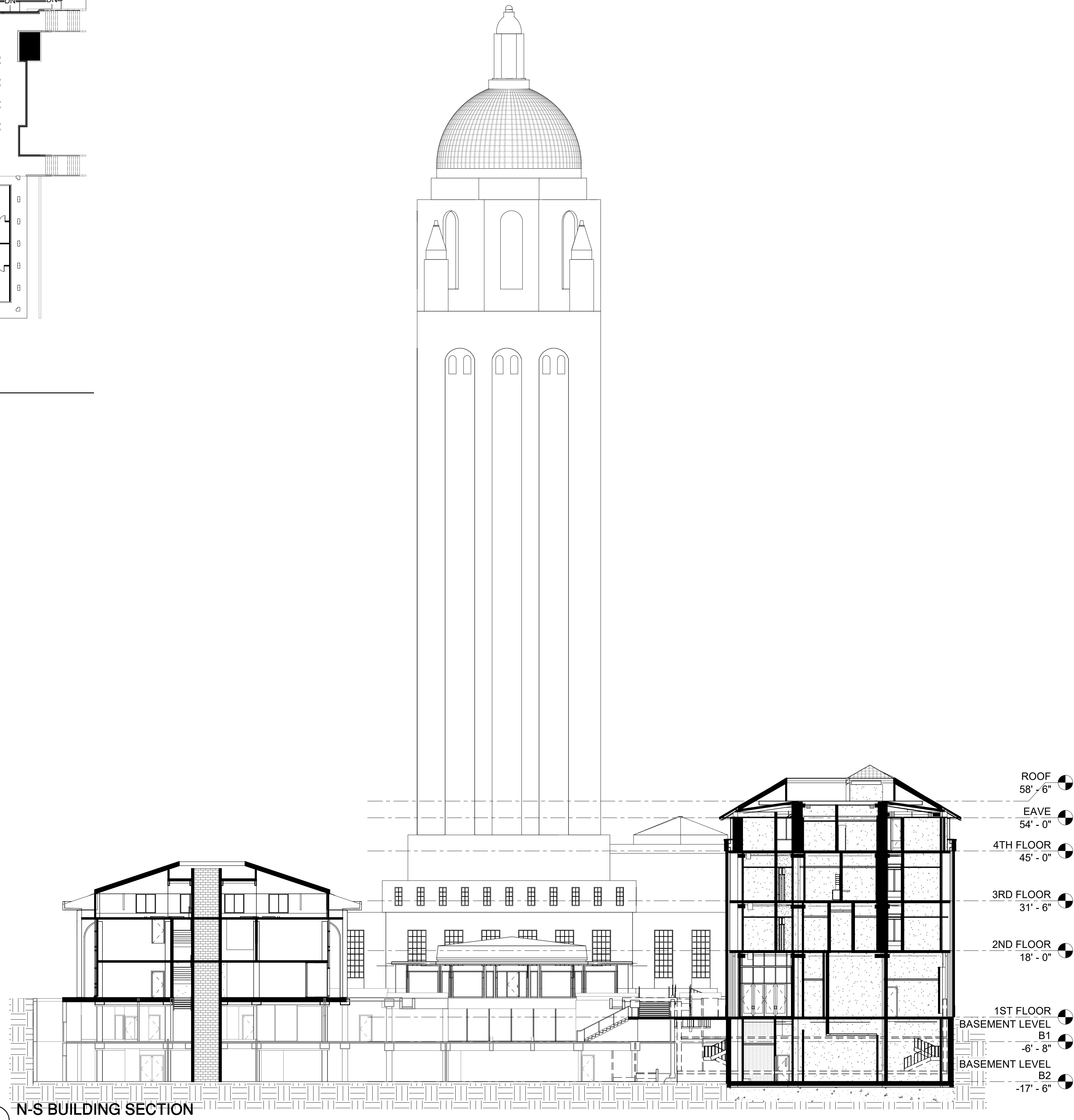
A1.05

7/29/19 6:28:57 PM





1 FIRST FLOOR PLAN  
1/32" = 1'-0"



2 N-S BUILDING SECTION  
1/16" = 1'-0"

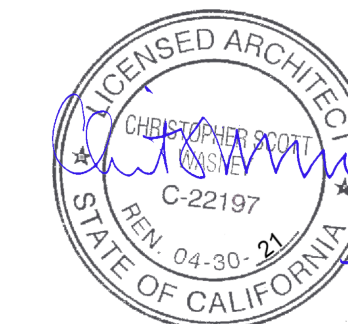
**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

△ MILESTONE DATE

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

BUILDING SECTIONS

PROJECT NO. 14029

DRAWN BY TK, KC, AS

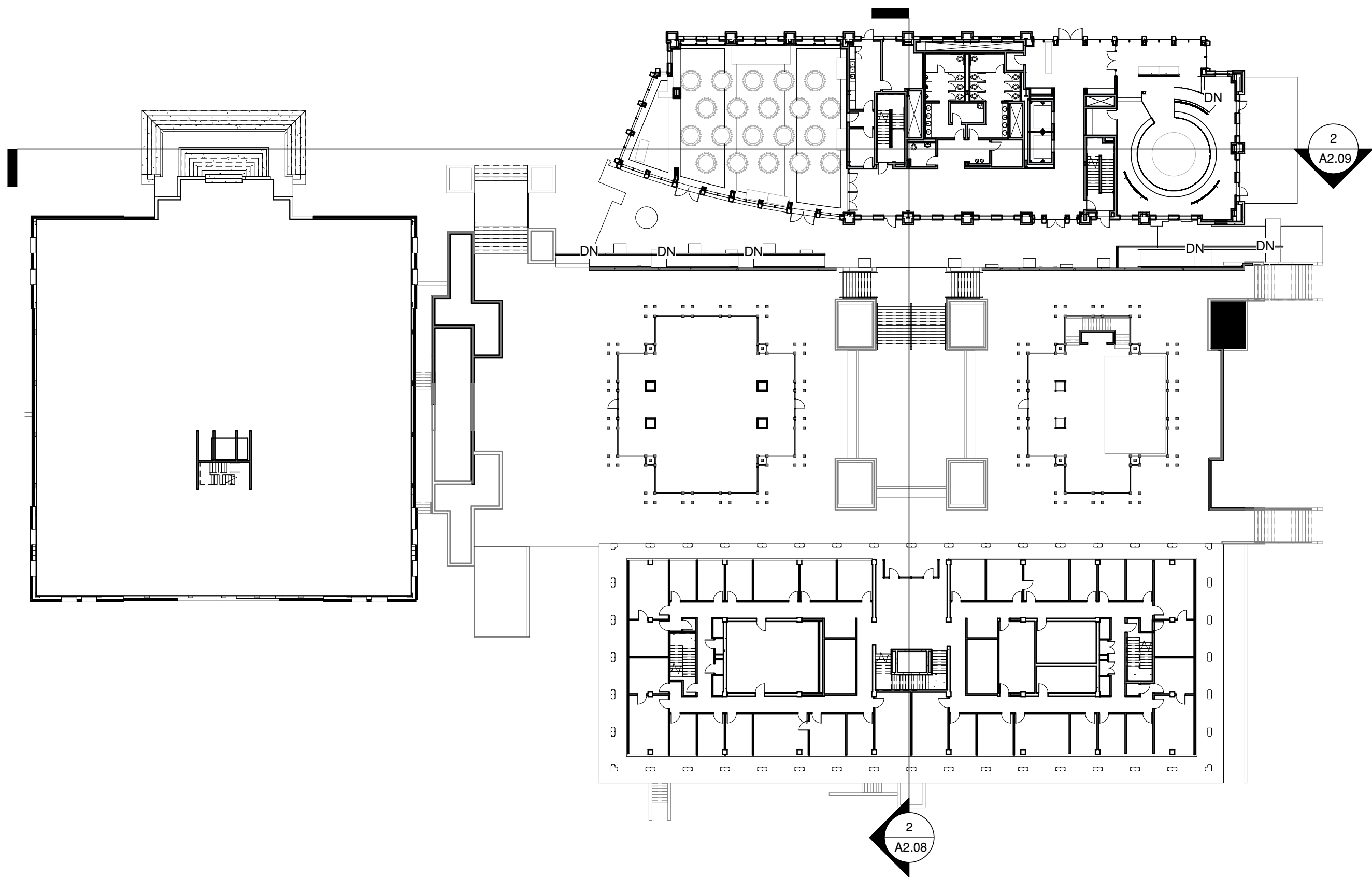
CHECKED BY PN, MA, CSW

SHEET

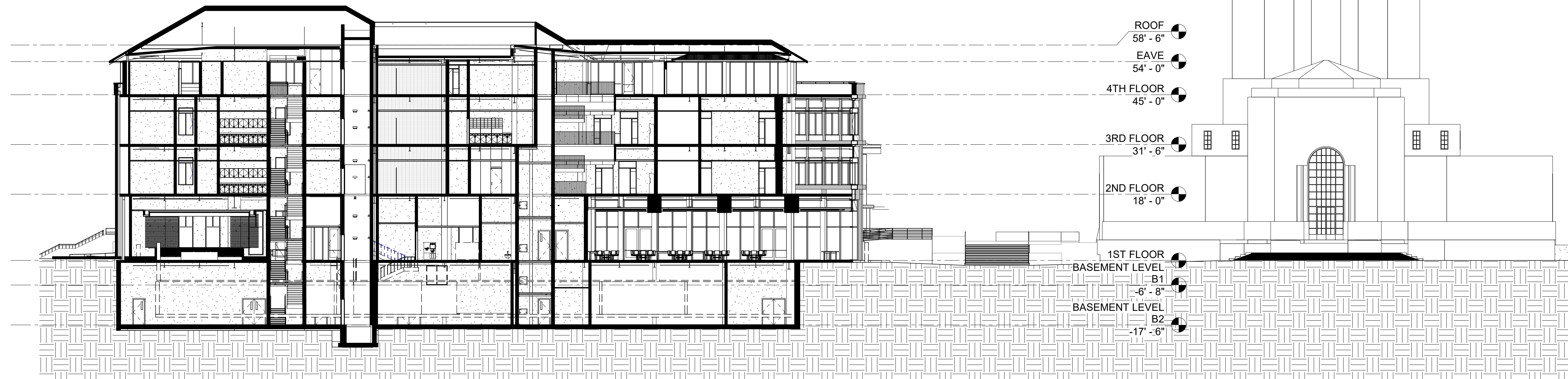
A2.08

7/29/19 8:29:05 PM





1 FIRST FLOOR PLAN  
1/32" = 1'-0"



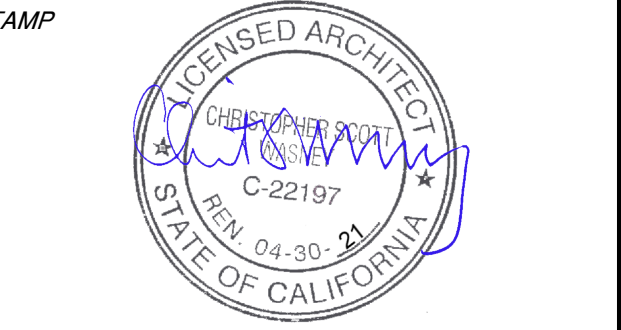
2 E-W BUILDING SECTION  
1/16" = 1'-0"

**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2017 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109



CONSULTANTS

△ MILESTONE DATE

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL  
STANFORD, CA 93405

SHEET TITLE

BUILDING SECTIONS

PROJECT NO. 14029

DRAWN BY TK, KC, AS

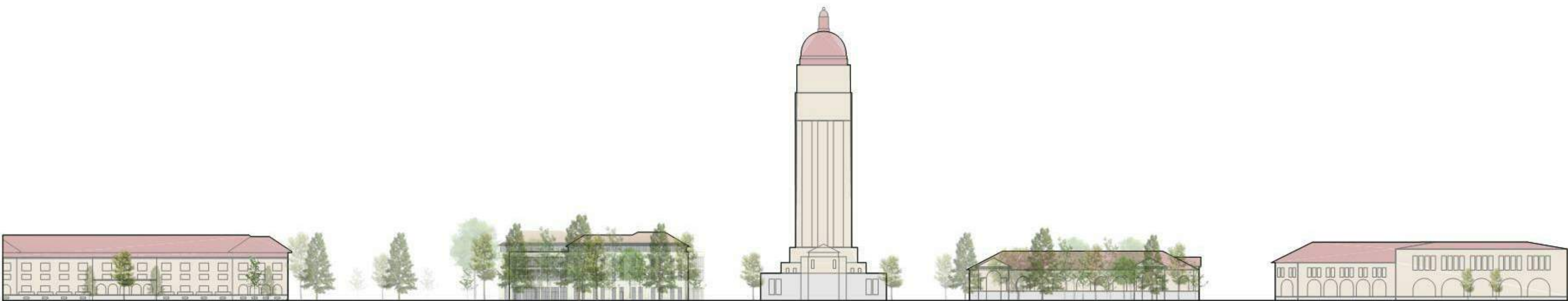
CHECKED BY PN, MA, CSW

SHEET

A2.09

7/29/19 8:29:14 PM





LONG ELEVATION : EAST/WEST ALONG



LONG ELEVATION : NORTH/SOUTH ALONG

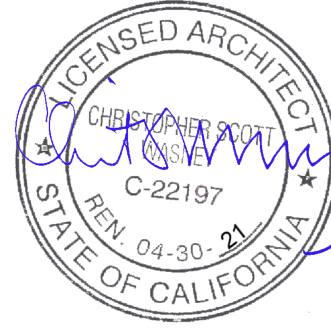
**CAW**  
ARCHITECTS

455 LAMBERT AVENUE PALO ALTO, CA 94306  
WWW.CAWARCHITECTS.COM • 650.328.1818 • FAX: 650.328.1888

COPYRIGHT 2007 BY CAW ARCHITECTS, INC.

WILLIAM RAWN ASSOCIATES | Architects, Inc.  
10 Post Office Sq.  
Suite 1010  
Boston, MA 02109

STAMP



CONSULTANTS

△ MILESTONE DATE

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

MODEL VIEWS

PROJECT NO. 14029

DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

SHEET

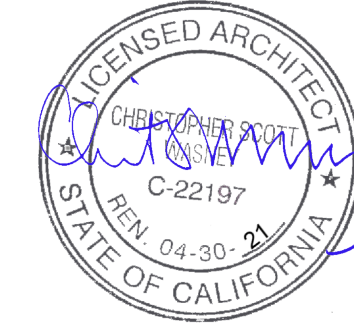
**A2.12**





SITE PLAN : ALIGNMENT

STAMP



CONSULTANTS

△ MILESTONE      DATE

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

SITE ALIGNMENT

PROJECT NO. 14029

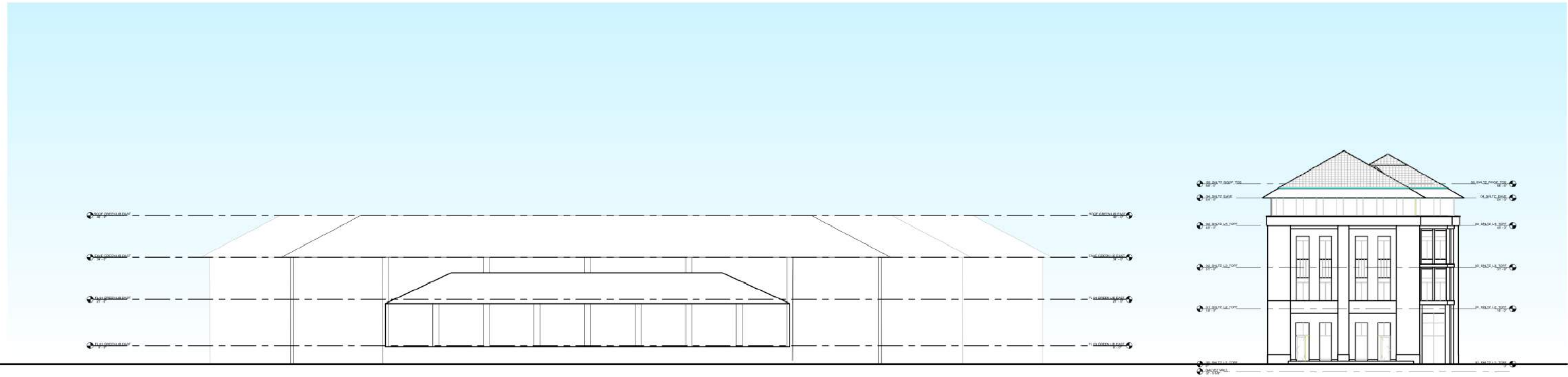
DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

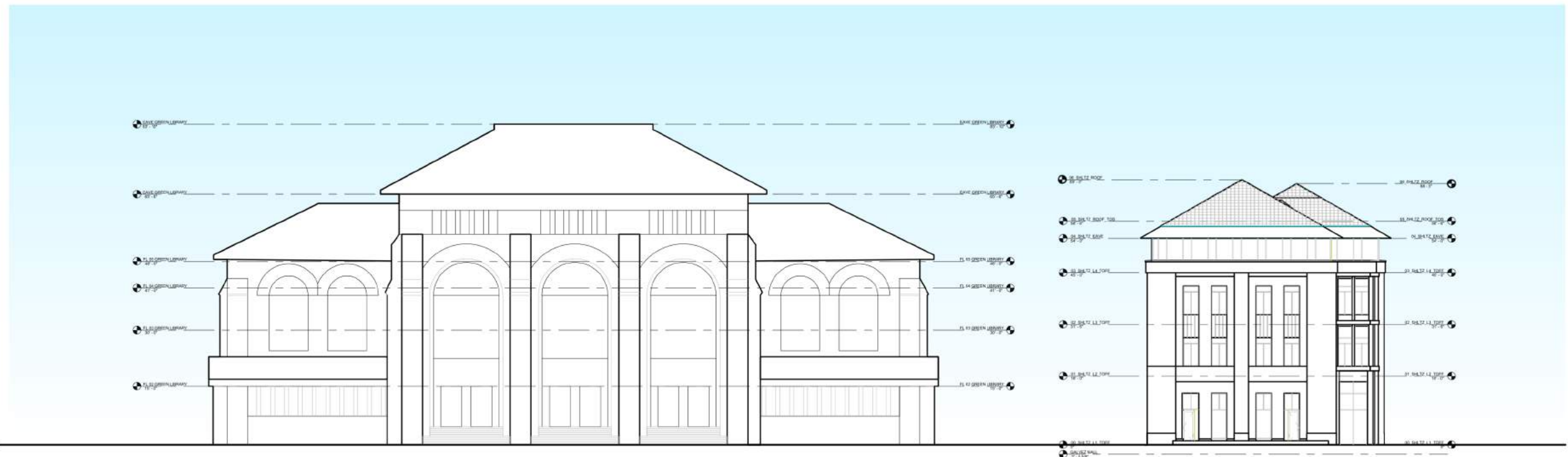
SHEET

A2.13

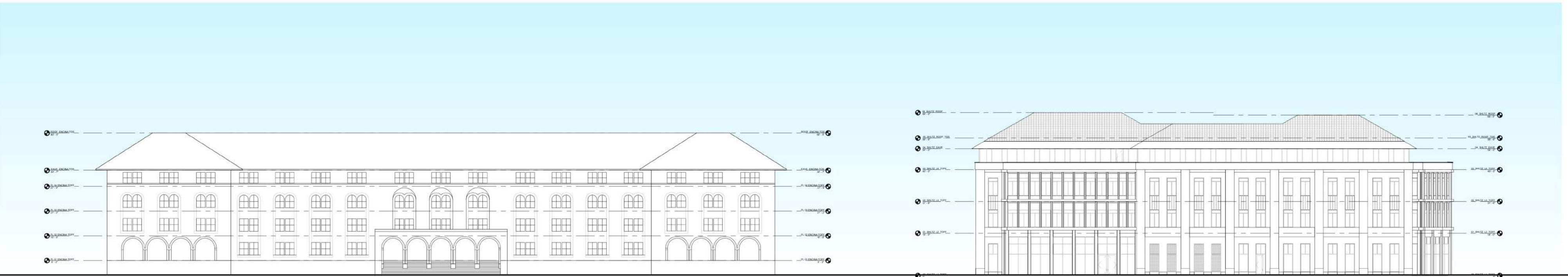




HEIGHT COMPARISON - GREEN LIBRARY EAST WING



HEIGHT COMPARISON - GREEN LIBRARY WEST WING



HEIGHT COMPARISON - ENCINA HALL

STAMP



CONSULTANTS

△ MILESTONE DATE

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

HEIGHT COMPARISONS

PROJECT NO. 14029

DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

SHEET

A2.14





△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

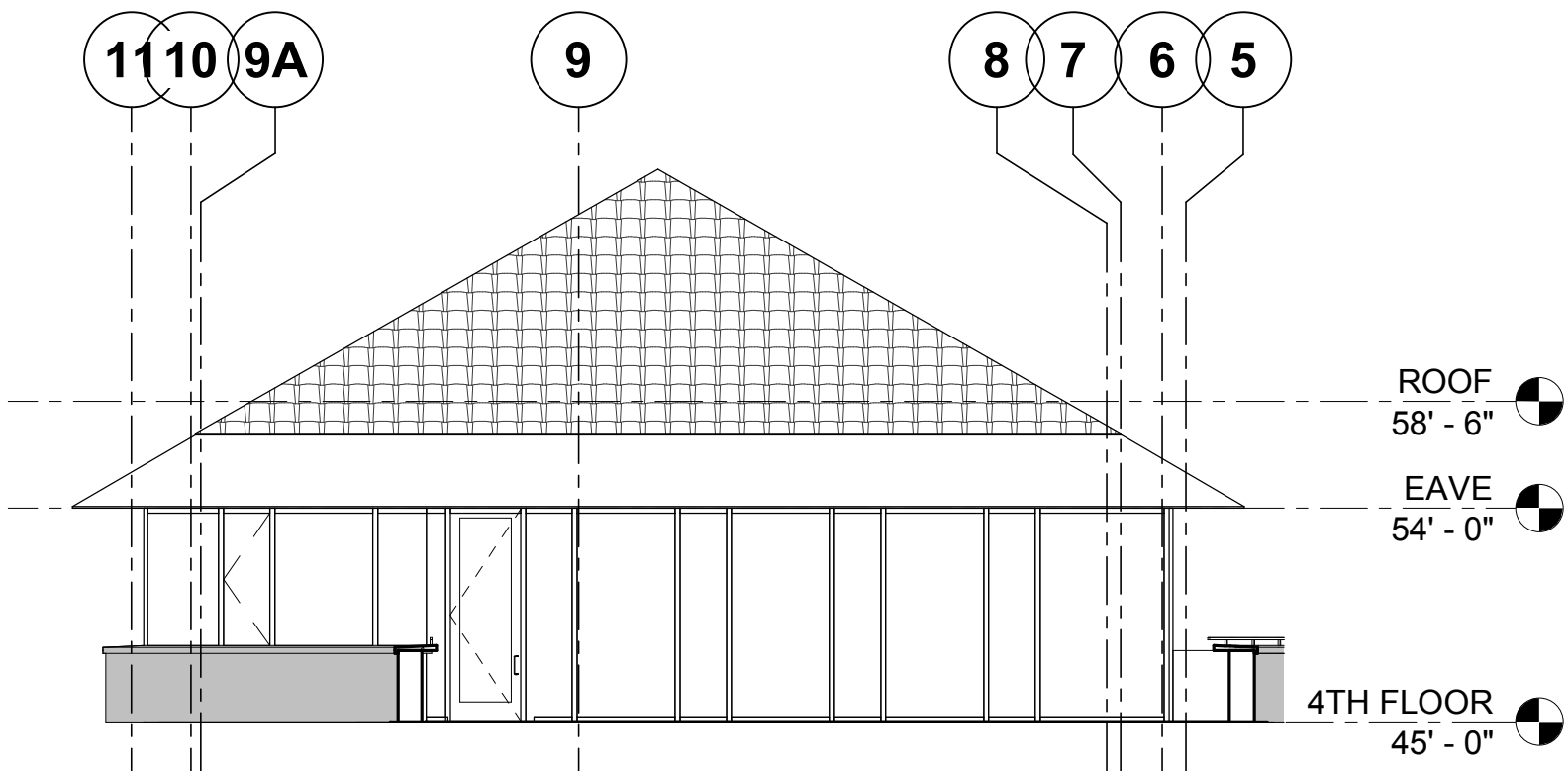
STANFORD, CA 93405

EXTERIOR ELEVATIONS -  
EAST & WEST

A3.01

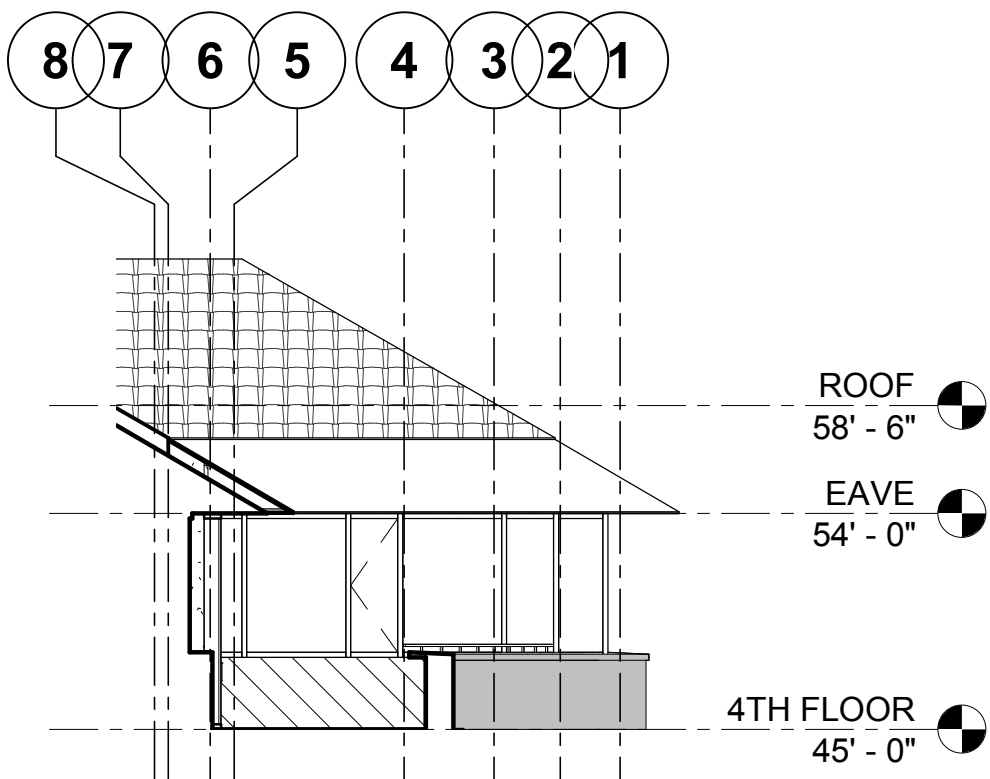
EXTERIOR FINISH LEGEND

- LIMESTONE VENEER ON PRECAST PANEL WALL
- PRECAST PANEL
- METAL PANEL



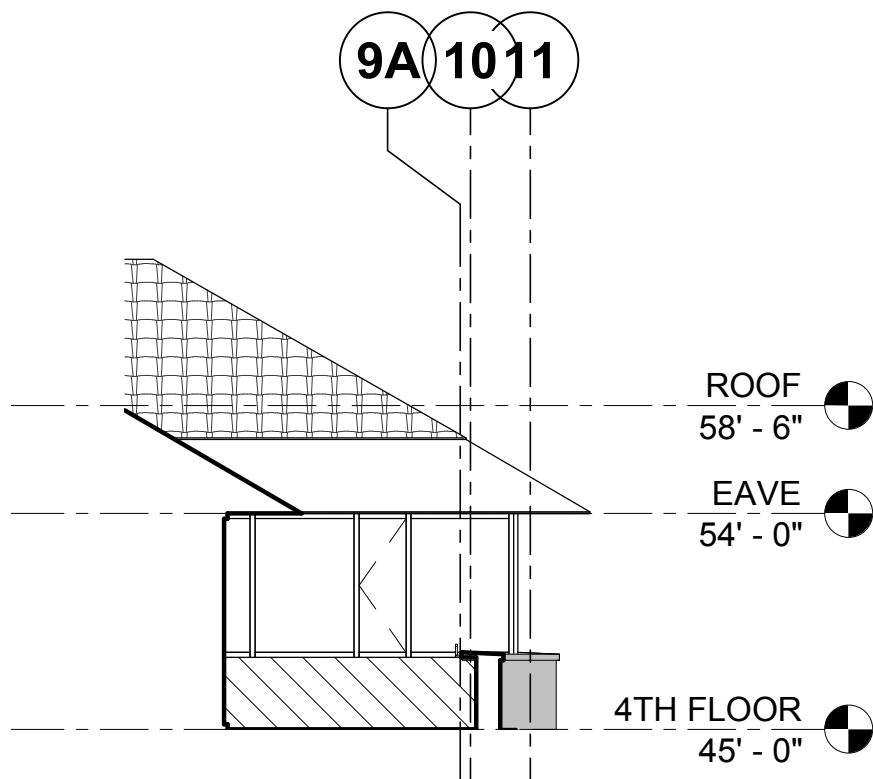
6 PARTIAL WEST ELEVATION AT TERRACE

1/8" = 1'-0"



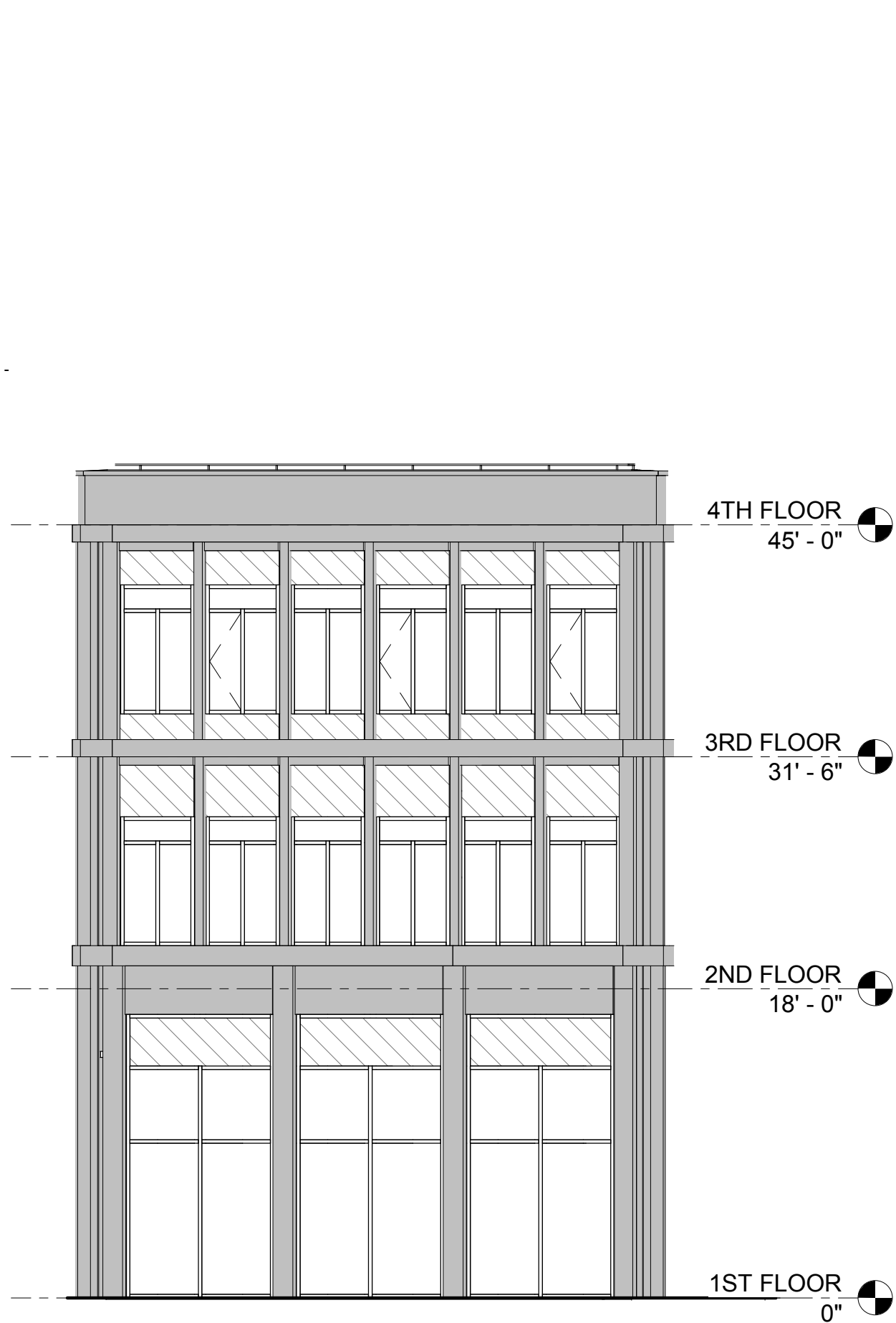
5 PARTIAL WEST ELEVATION AT TERRACE

1/8" = 1'-0"



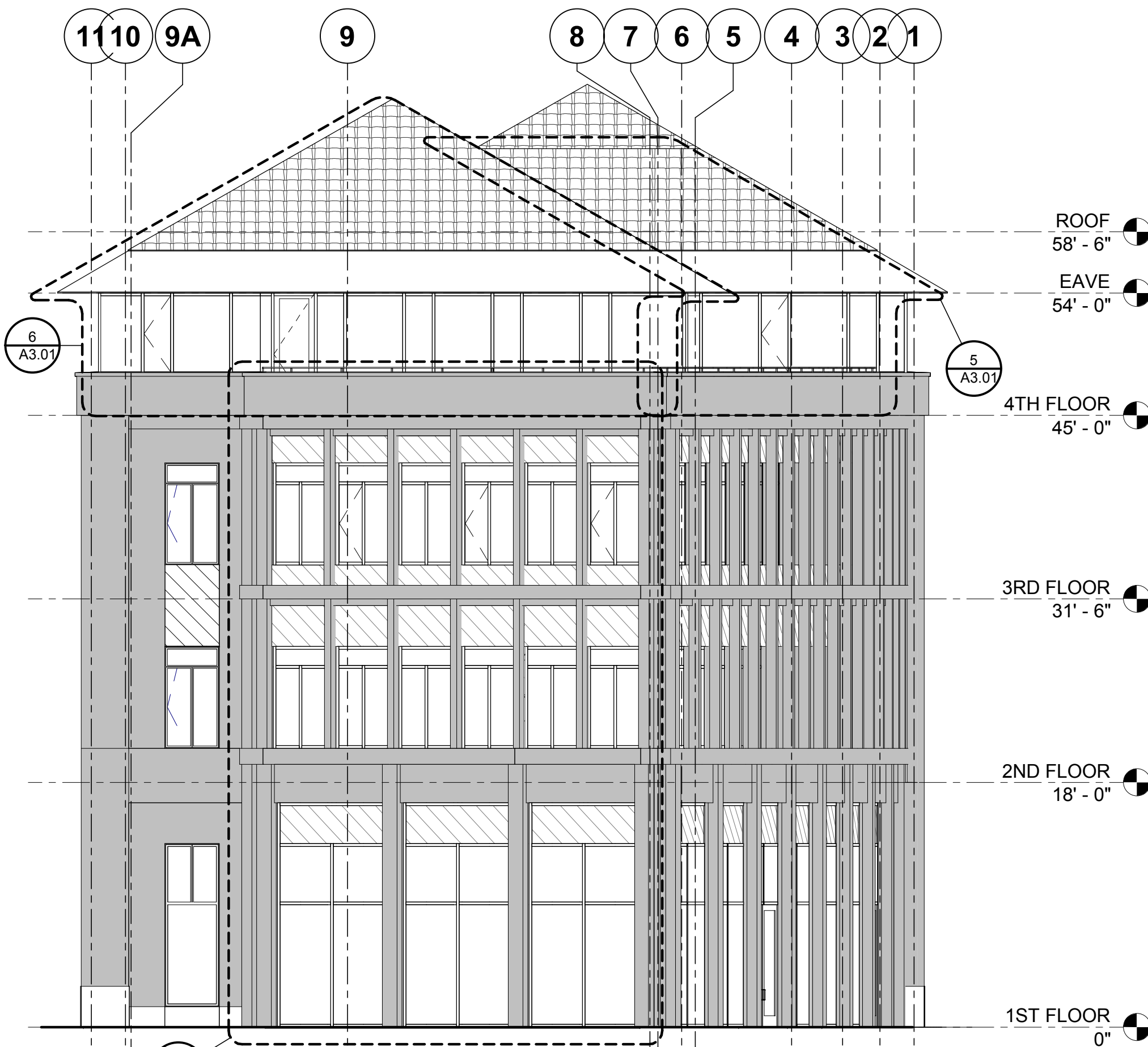
4 PARTIAL EAST ELEVATION AT TERRACE

1/8" = 1'-0"



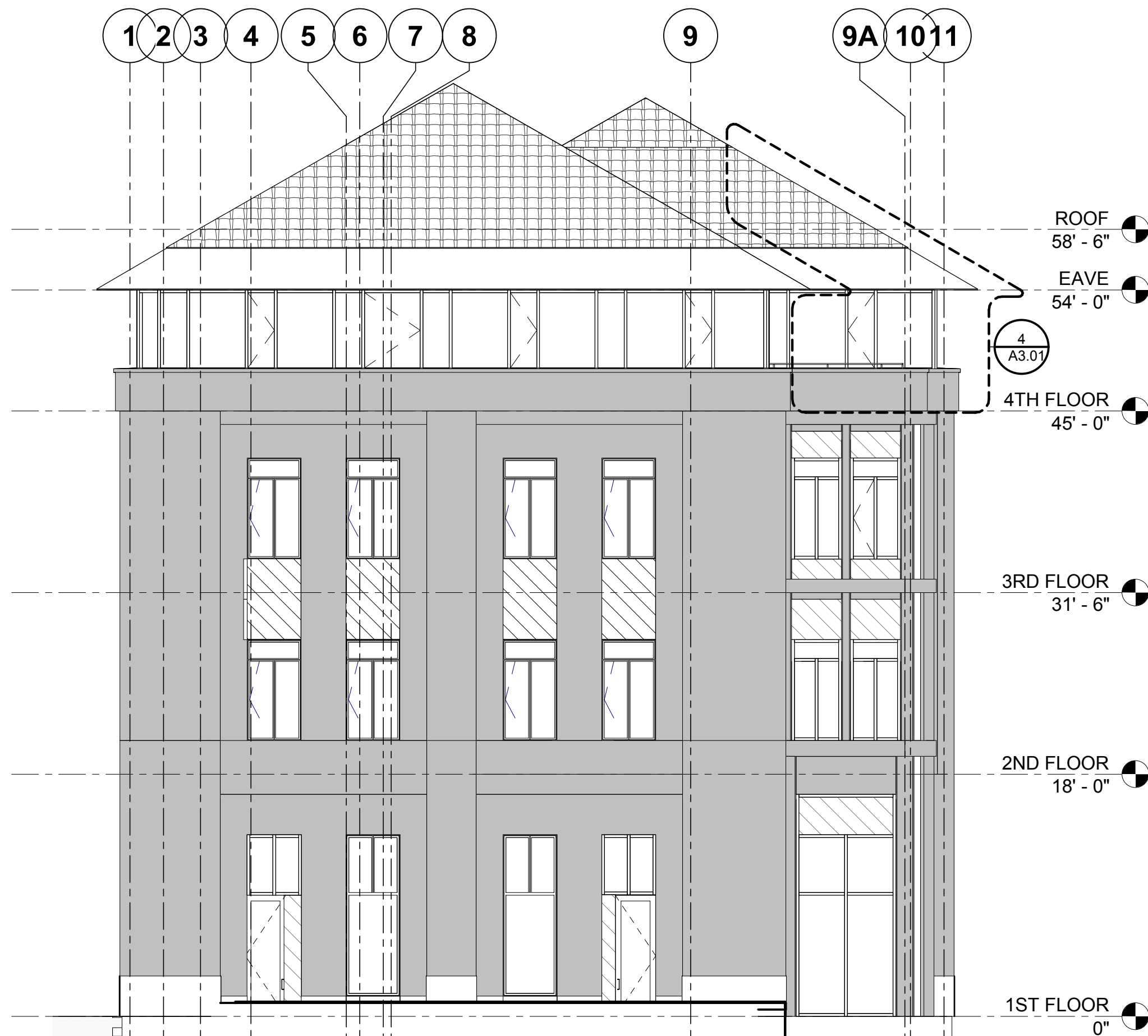
3 WEST EXTERIOR PERPENDICULAR ELEVATION

1/8" = 1'-0"



2 WEST EXTERIOR ELEVATION

1/8" = 1'-0"



1 EAST EXTERIOR ELEVATION

1/8" = 1'-0"



STAMP



CONSULTANTS

△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

EXTERIOR ELEVATIONS -  
SOUTH

PROJECT NO. 14029

DRAWN BY TK, KC, AS

CHECKED BY PN, MA, CSW

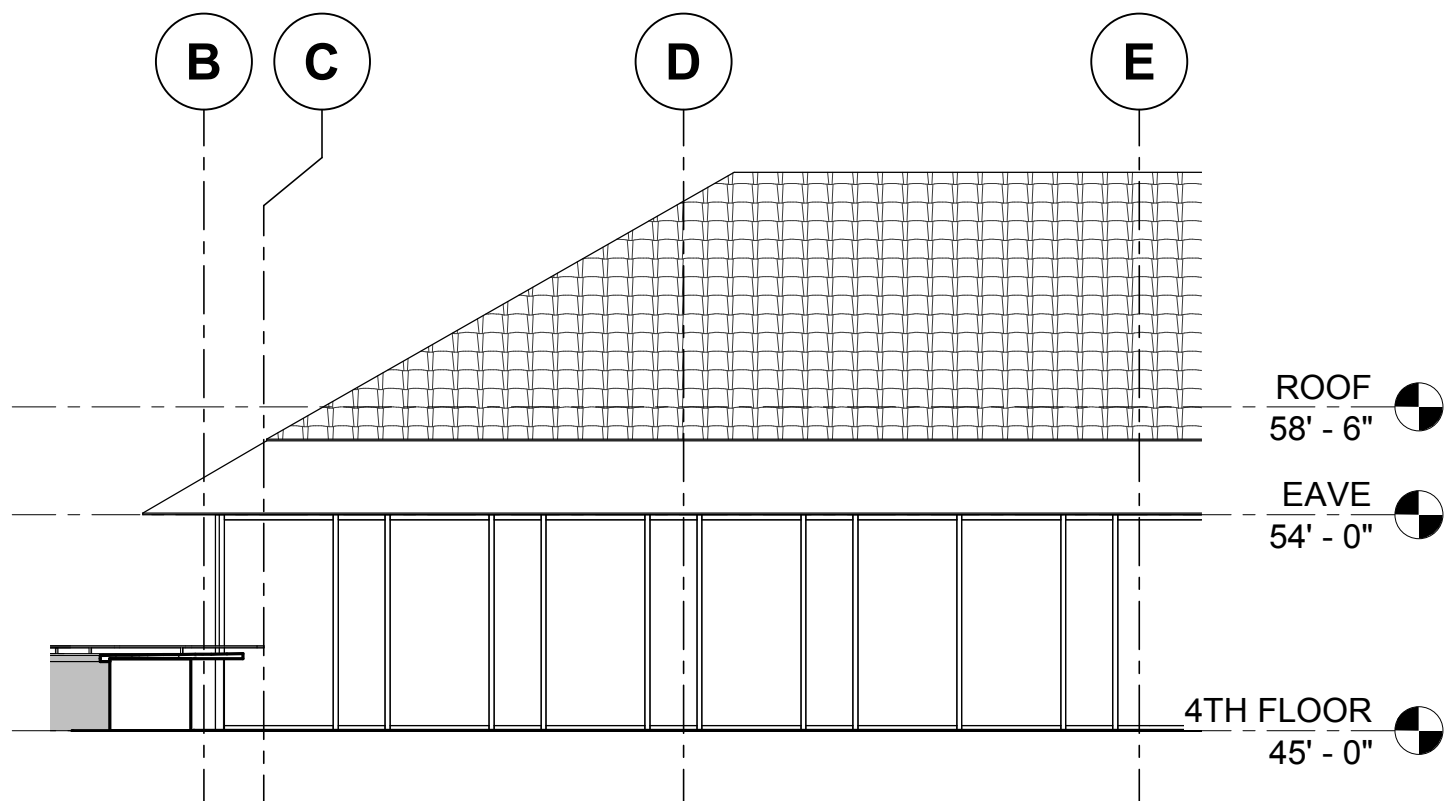
SHEET

A3.02

8/2/2019 3:12:27 PM

EXTERIOR FINISH LEGEND

- LIMESTONE VENEER ON PRECAST PANEL WALL
- PRECAST PANEL
- METAL PANEL



2 PARTIAL SOUTH ELEVATION AT TERRACE  
1/8" = 1'-0"



1 SOUTH EXTERIOR ELEVATION  
1/8" = 1'-0"



STAMP



CONSULTANTS

△ MILESTONE	DATE
C ASA SUBMISSION	07/31/2019

PROJECT NAME

GEORGE P. SHULTZ  
BUILDING

HOOVER INSTITUTION

580 SERRA MALL

STANFORD, CA 93405

SHEET TITLE

EXTERIOR ELEVATIONS -  
NORTH

PROJECT NO. 14029

DRAWN BY TK, KC, AS

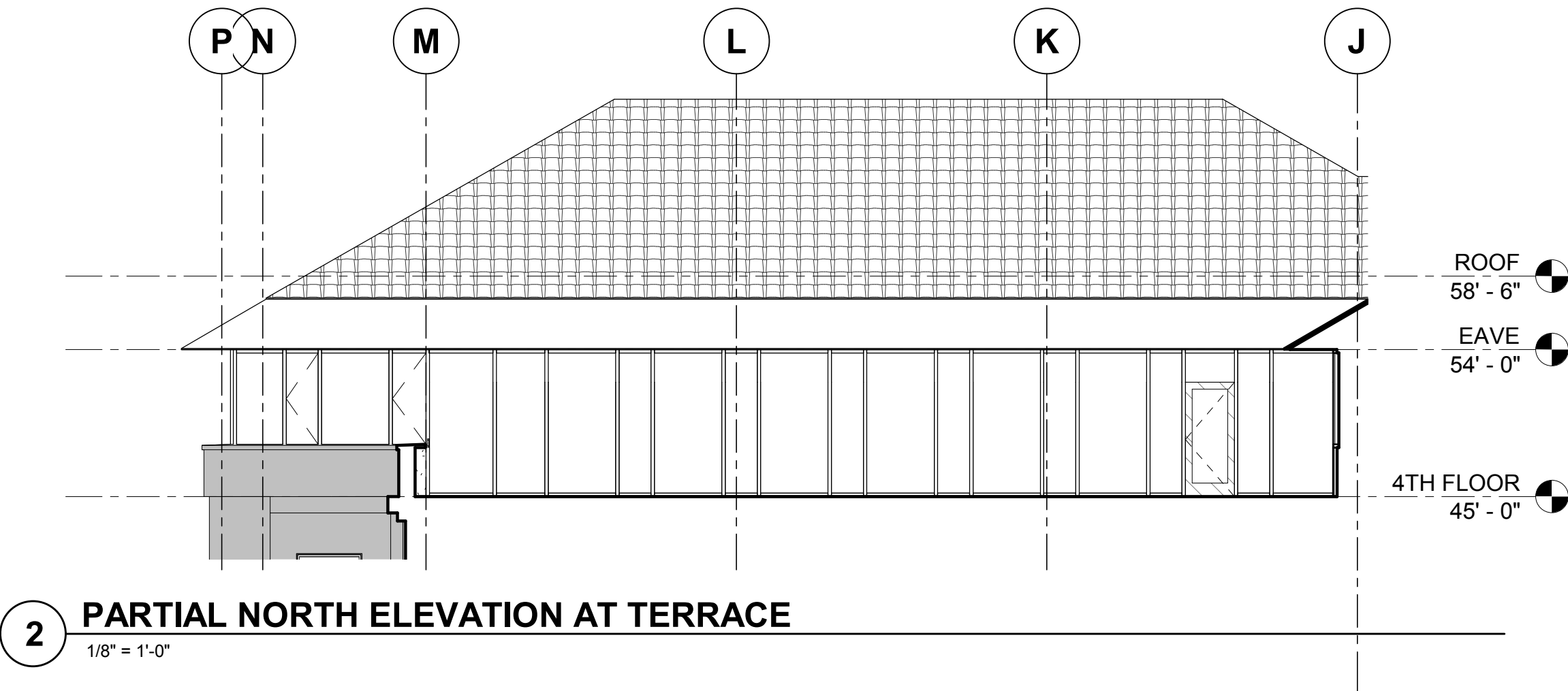
CHECKED BY PN, MA, CSW

SHEET

A3.03

EXTERIOR FINISH LEGEND

- LIMESTONE VENEER ON PRECAST PANEL WALL
- PRECAST PANEL
- METAL PANEL



2 PARTIAL NORTH ELEVATION AT TERRACE  
1/8" = 1'-0"



1 NORTH EXTERIOR ELEVATION  
1/8" = 1'-0"