

SMITH DEVELOPMENT
660 UNIVERSITY PALO ALTO, CA 94301
KSH

ARCHITECTS KORTH SUNSERI HAGEY

ISSUES AND REVISIONS

NO. DATE DESCRIPTION 05.13.22

12.01.21 PLANNING SUBMITTAL

PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2 11.02.22 PLANNING RESUBMITTAL #3

PROJECT NUMBER 21003

SHEET TITLE

PROPOSED STREET ELEVATIONS NEIGHBORHOOD CONTEXT

SCALE

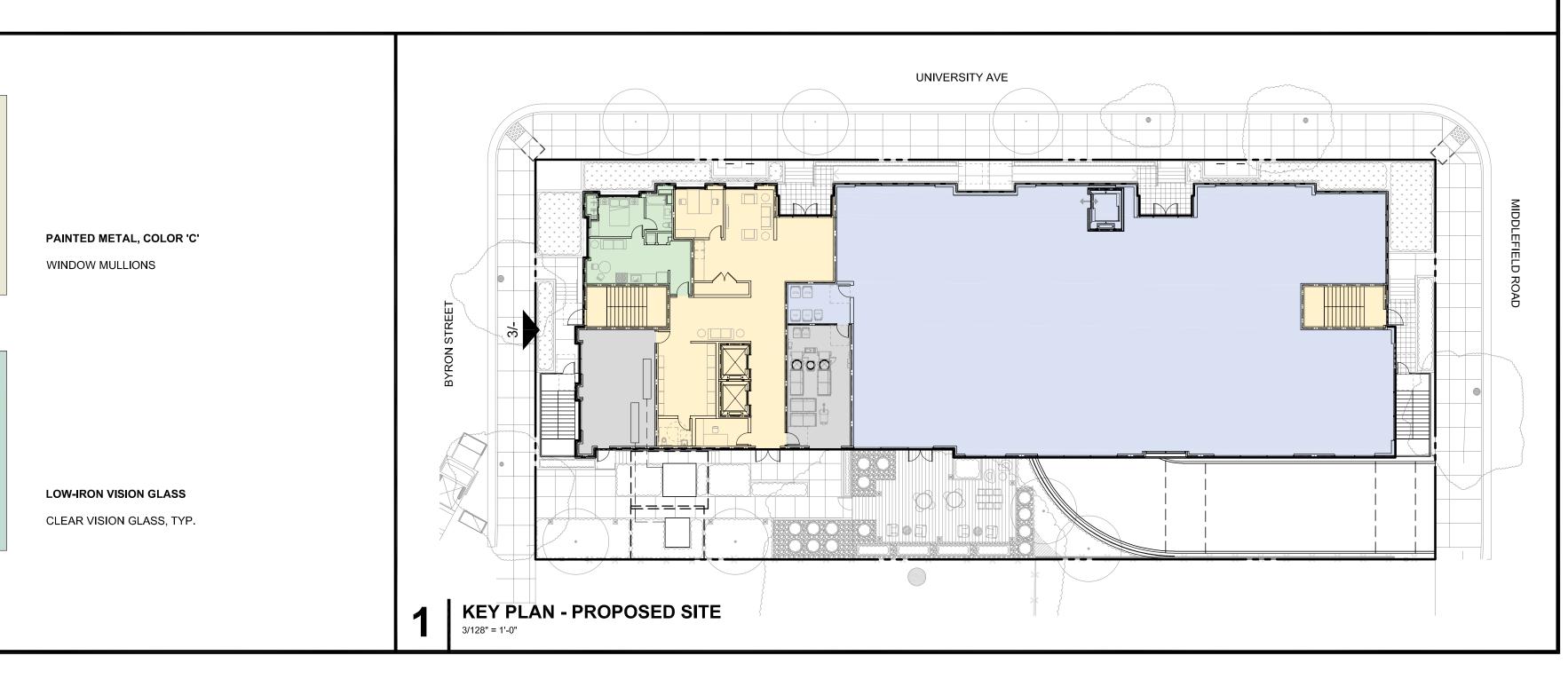
AS NOTED





		INTEGRAL COLOR CONCRE INTEGRAL COLOR PLASTER PAINTED METAL CANOPY, " PAINTED METAL RAILING, C (STAIR TO BELOW GRADE F	TYP. COLOR 'A'	
3 WEST 3/32" = 1'-0"	ELEVATION (BYRON STR	REET)		
		INTEGRAL COLOR PLASTER, COLOR 'A' GROUND, SECOND, THIRD AND FOURTH FLOOR FACADES, TYP.		
		INTEGRAL COLOR PLASTER, COLOR 'B' GROUND, SECOND, THIRD AND FOURTH FLOOR FACADES, TYP.		
2 MATE NO SCALE	RIAL SWATCHES			





660 UNIVERSITY PALO ALTO, CA 94301



Э.	DATE	DESCRIPTION
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	11.02.22	PLANNING RESUBMITTAL #3

PROJECT	NUMBER
	2100

ISSUES AND REVISIONS

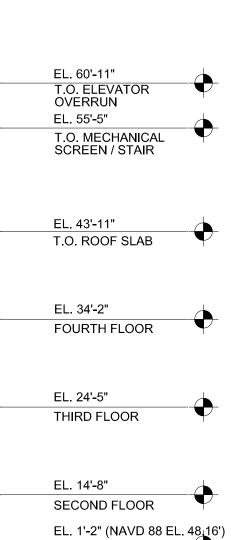
SHEET TITLE PROPOSED ELEVATIONS

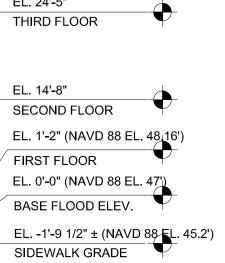
SCALE

AS NOTED



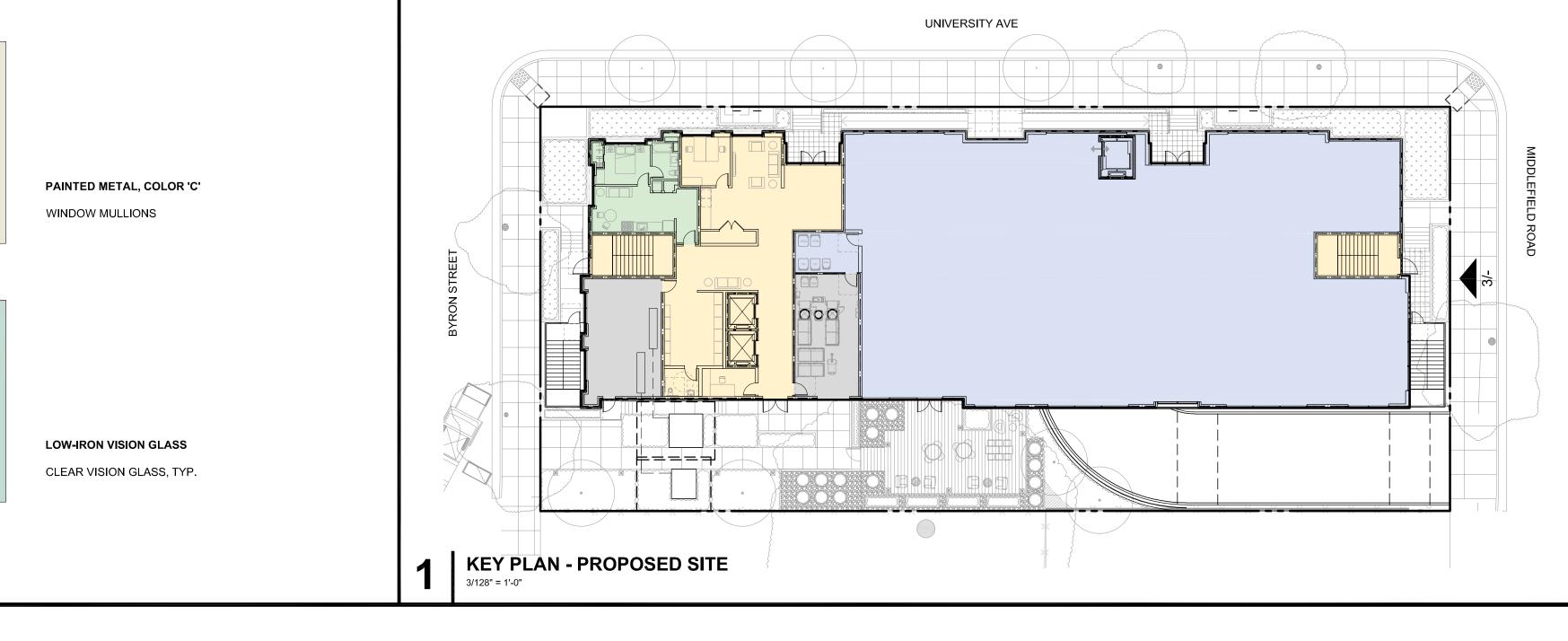






	(RAM PAIN (STA INTE	TED METAL RAILING, COLOR 'C' TED METAL CANOPY, TYP. COLOR 'A'	
3 EAST 3/32" = 1'-0	ELEVATION		
	COLOR 'A' GROUND, S FOURTH FL	COLOR PLASTER, SECOND, THIRD AND OOR FACADES, TYP.	
2 MATE	FOURTH FL	ECOND, THIRD AND OOR FACADES, TYP.	





660 UNIVERSITY PALO ALTO, CA 94301



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PROJECT	NUMBEF
	21003

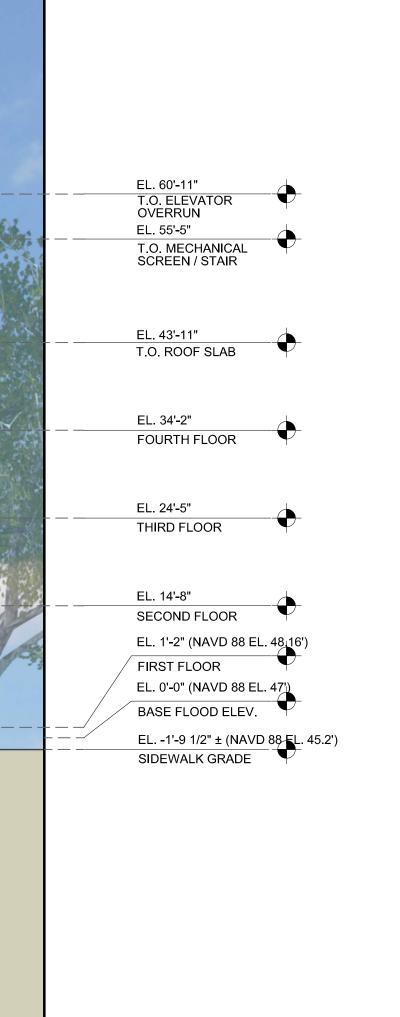
SHEET TITLE PROPOSED ELEVATIONS

SCALE

AS NOTED









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	08.15.22	PLANNING RESUBMITTAL #2

11.02.22 PLANNING RESUBMITTAL #3

PROJECT	NUMBER
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ISSUES AND REVISIONS

SHEET TITLE PROPOSED ELEVATIONS

SCALE







660 UNIVERSITY PALO ALTO, CA 94301



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ISSUES AND REVISIONS

SHEET TITLE PROPOSED ELEVATIONS

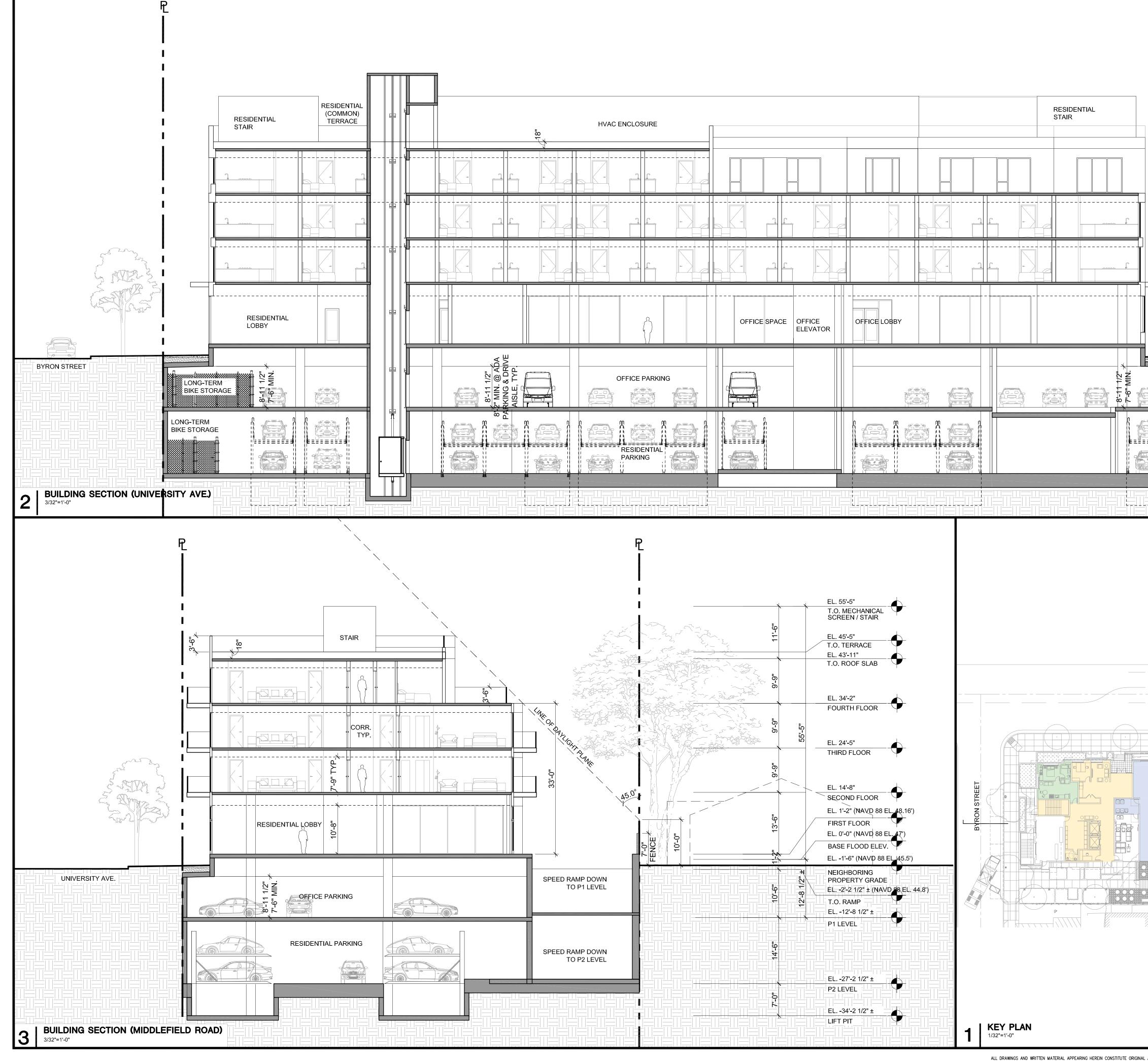
SCALE

AS NOTED







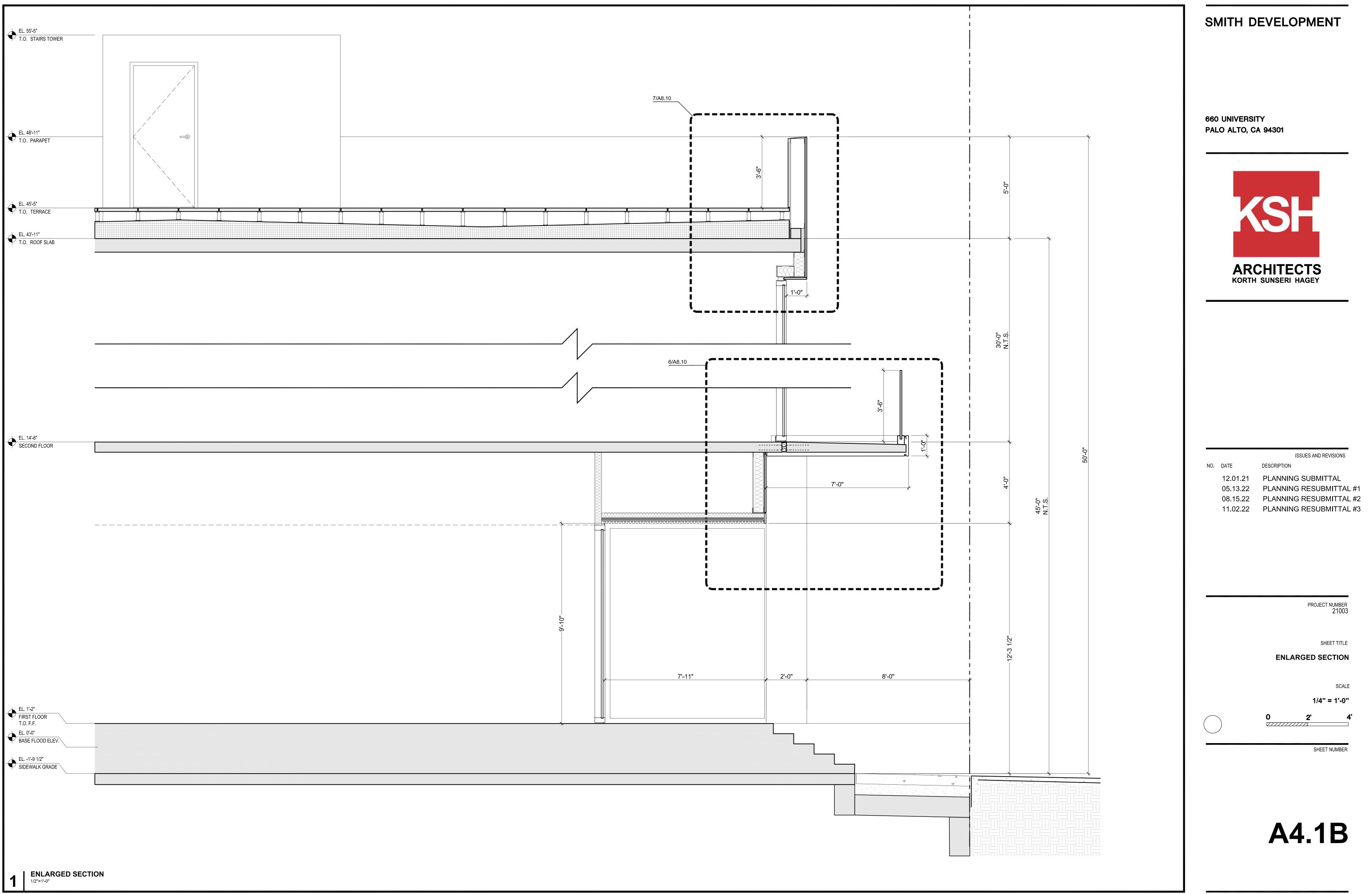


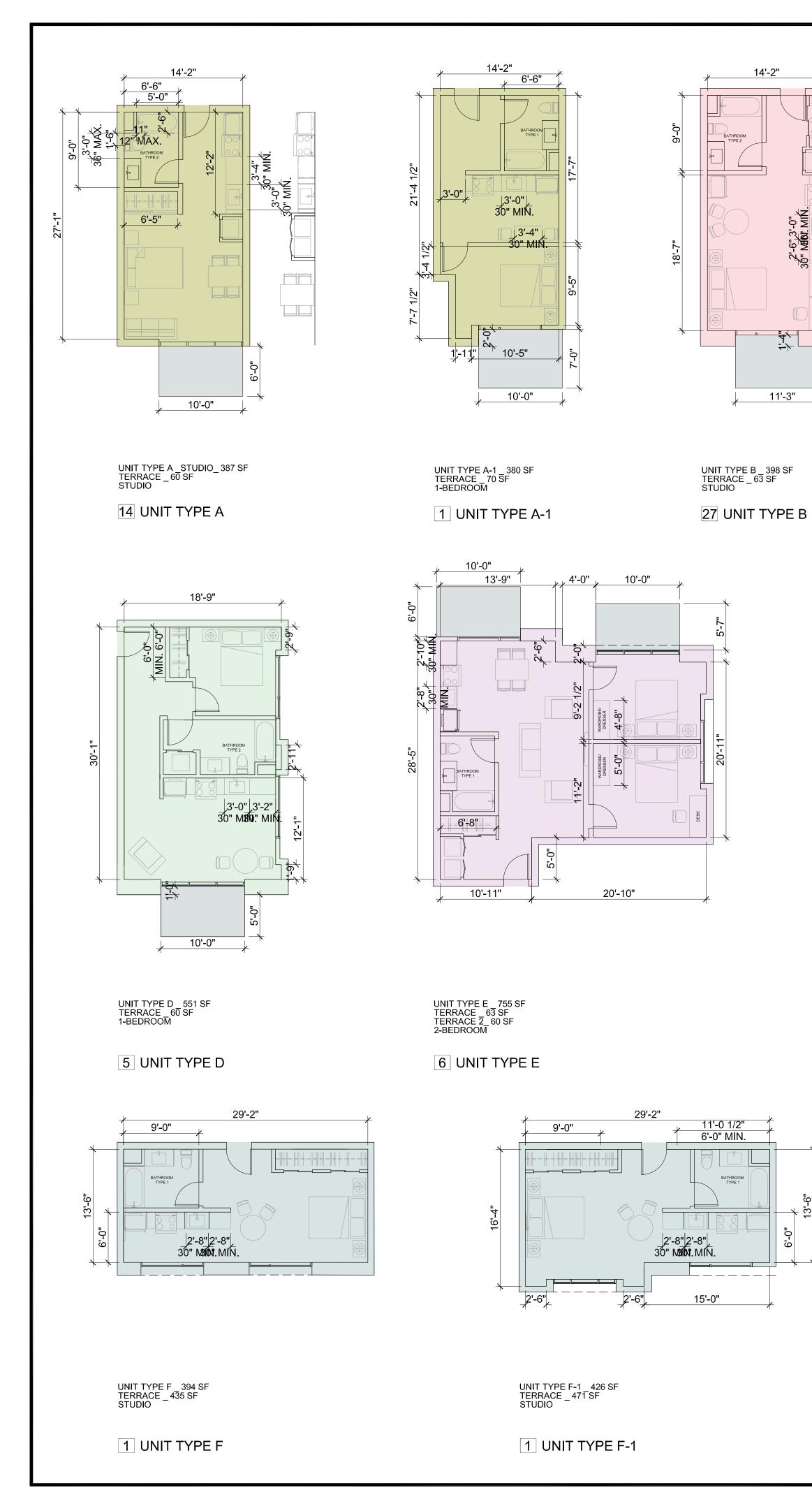
<u>ዋ</u>	SMITH DEVELOPMENT
$ \begin{array}{c} EL. 60'-11" \\ \hline T.O. ELEVATOR \\ \hline OVERRUN \\ \hline OVERRUN \\ \hline OVERRUN \\ \hline CO \\ EL. 55'-5" \\ \hline T.O. MECHANICAL \\ SCREEN / STAIR \\ \hline \hline CO \\ $	660 UNIVERSITY PALO ALTO, CA 94301
EL. 43'-11" T.O. ROOF SLAB	
¹ / ₂ <	ARCHITECTS
intervention intervention intervention FIRST FLOOR EL. 0'-0" (NAVD 88 EL. 47') BASE FLOOD ELEV. intervention intervention </td <td>KORTH SUNSERI HAGEY</td>	KORTH SUNSERI HAGEY
P T.O. RAMP EL12'-8 1/2" ± P1 LEVEL IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	ISSUES AND REVISIONS NO. DATE DESCRIPTION 12.01.22 PLANNING SUBMITTAL 05.13.22 PLANNING RESUBMITTAL 08.15.22 PLANNING RESUBMITTAL
UNIVERSITY AVE	PROJECT NUMBER 21003
	SHEET TITLE BUILDING SECTIONS SCALE 3/32" = 1'-0" PROJ. N
	TRUE N 0 10'-8" 21'-
	A3.3
PUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT	





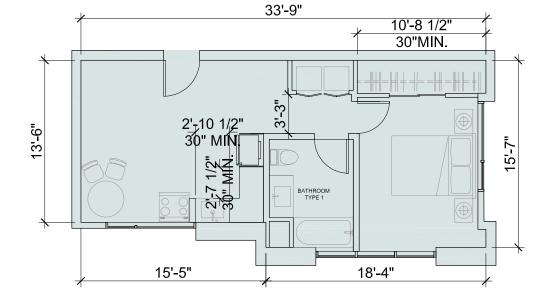
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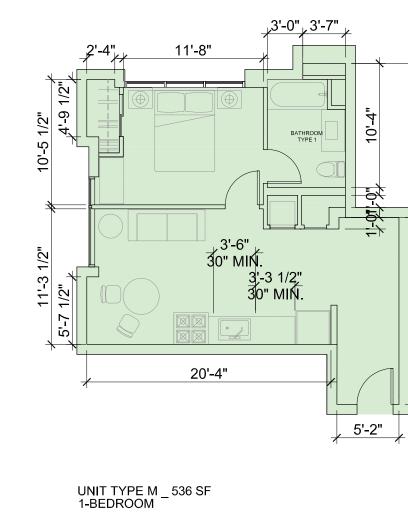




1 UNIT TYPE F-2

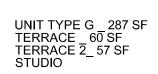
UNIT TYPE F-2 _452 SF TERRACE _540 SF 1-BEDROOM

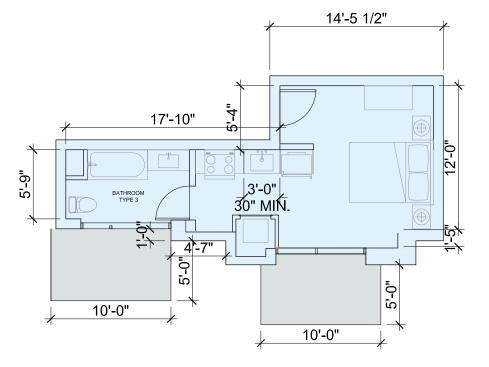




1 UNIT TYPE M



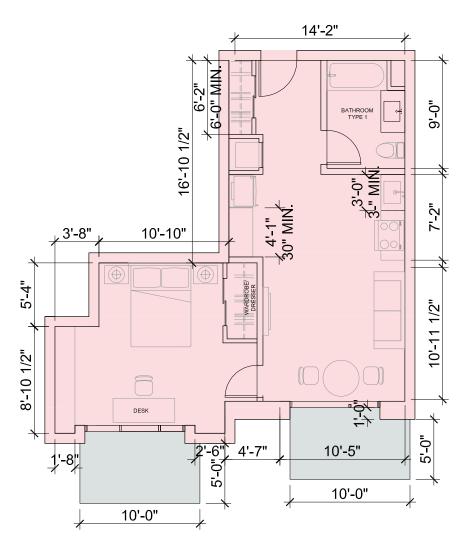




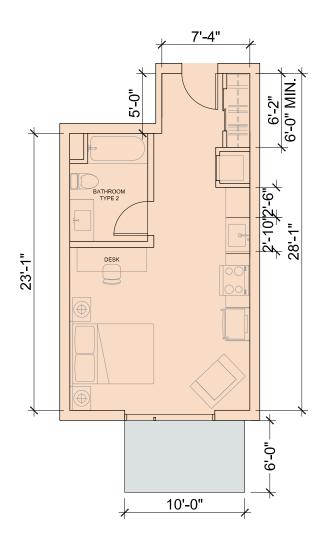
UNIT TYPE B-1_530 SF TERRACE 1_63 SF TERRACE 2_63 SF 1-BEDROOM W/ OFFICE

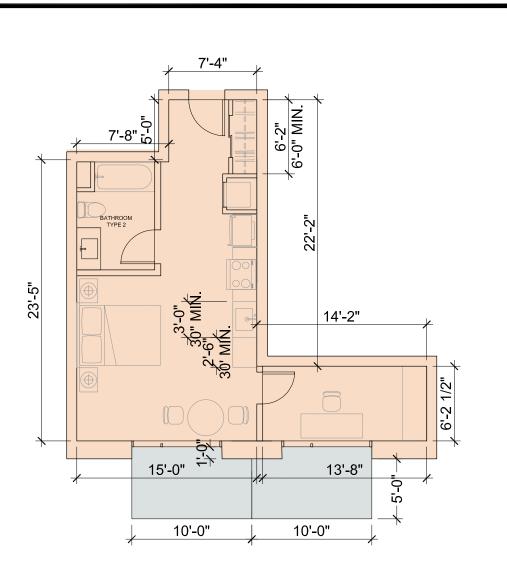
2 UNIT TYPE B-1

14'-2" - N -6".3' ____ 11'-3"



UNIT TYPE C _STUDIO_385 SF TERRACE _60 SF STUDIO 3 UNIT TYPE C





UNIT TYPE C-1 _551 SF TERRACE _115 SF 1-BEDROOM

2 UNIT TYPE C-1

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12.01.21 PLANNING SUBMITTAL PLANNING RESUBMITTAL #1 PLANNING RESUBMITTAL #2 PLANNING RESUBMITTAL #3

PROJECT NUMBER 21003

SHEET TITLE PROPOSED TRASH ROOM & UNIT PLANS

> SCALE 1/8" = 1'-0"

> > 32'-0"

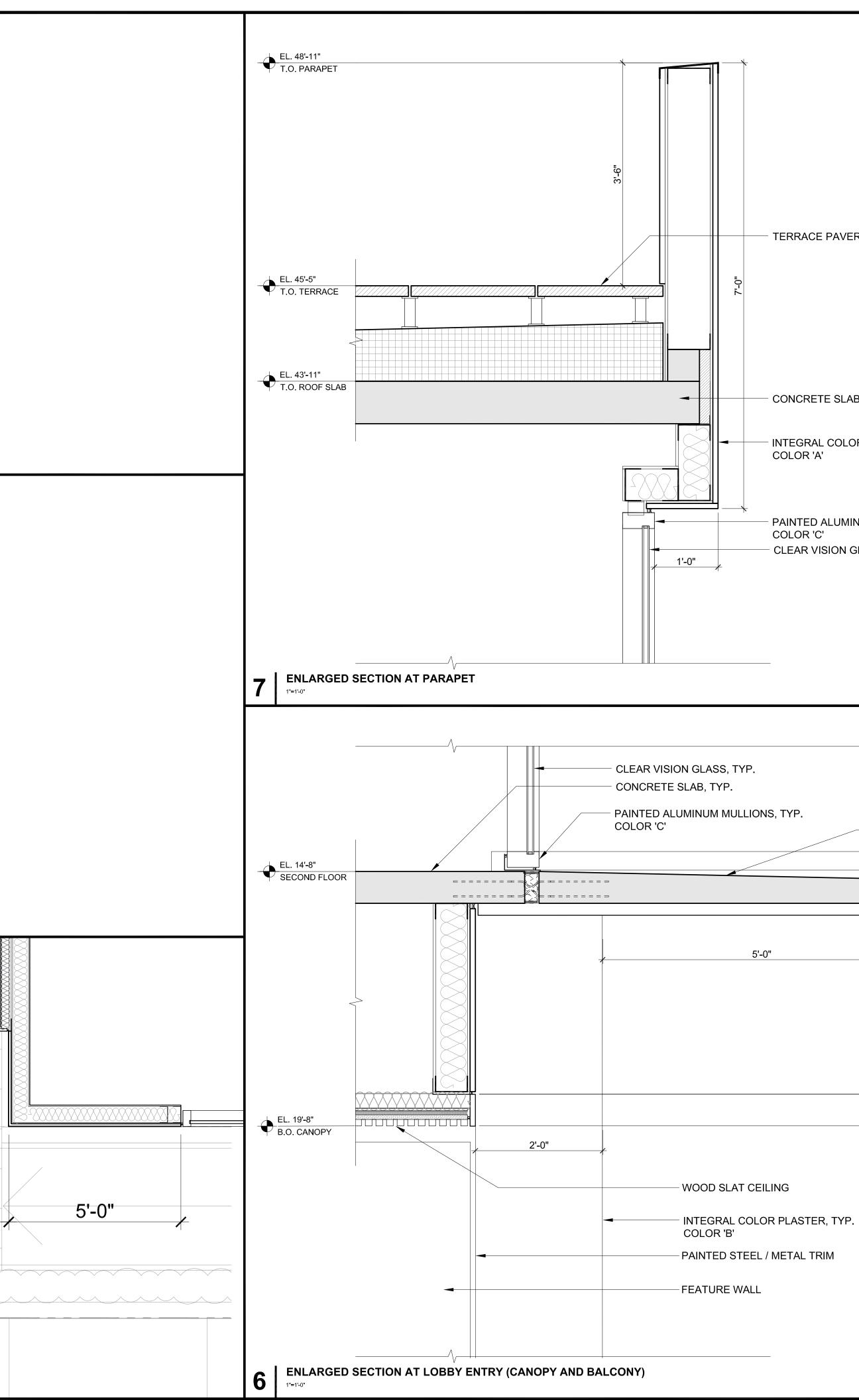
16'-0'" 0 ////////

SHEET NUMBER



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4 NOT USED	5 NOT USED
2 NOT USED	3 NOT USED
	15'-0"



- TERRACE PAVERS, TYP.

- CONCRETE SLAB, TYP.

- INTEGRAL COLOR PLASTER, TYP.

- PAINTED ALUMINUM MULLIONS, TYP. - CLEAR VISION GLASS, TYP.

- CANTILEVERED GLASS RAILING PAINTED STEEL / METAL CLAD BALCONY WITH 1/4" SLOPE

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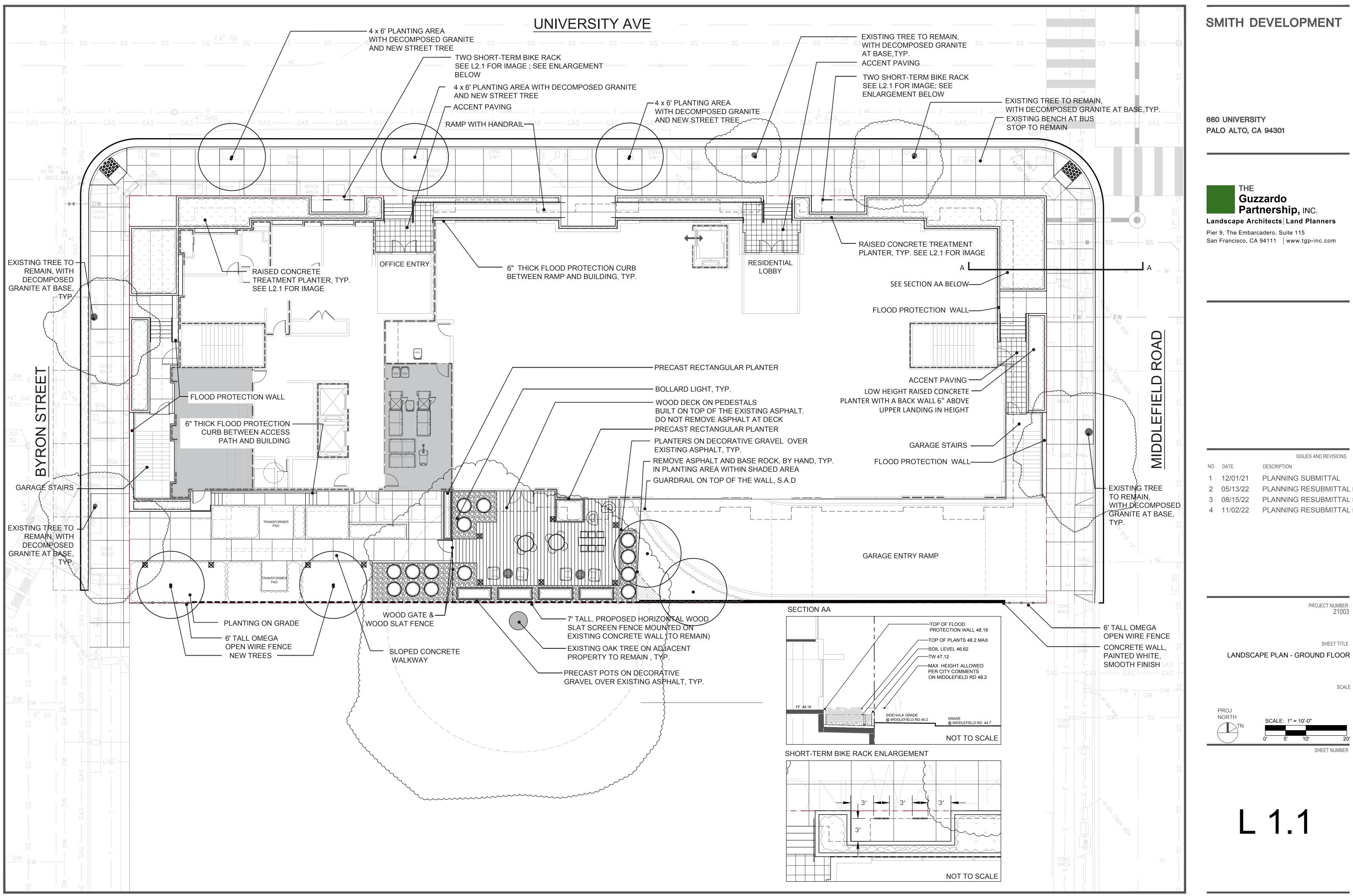
PROJECT NUM	
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SHEET TITLE

ENLARGED DETAILS

SCALE AS NOTED

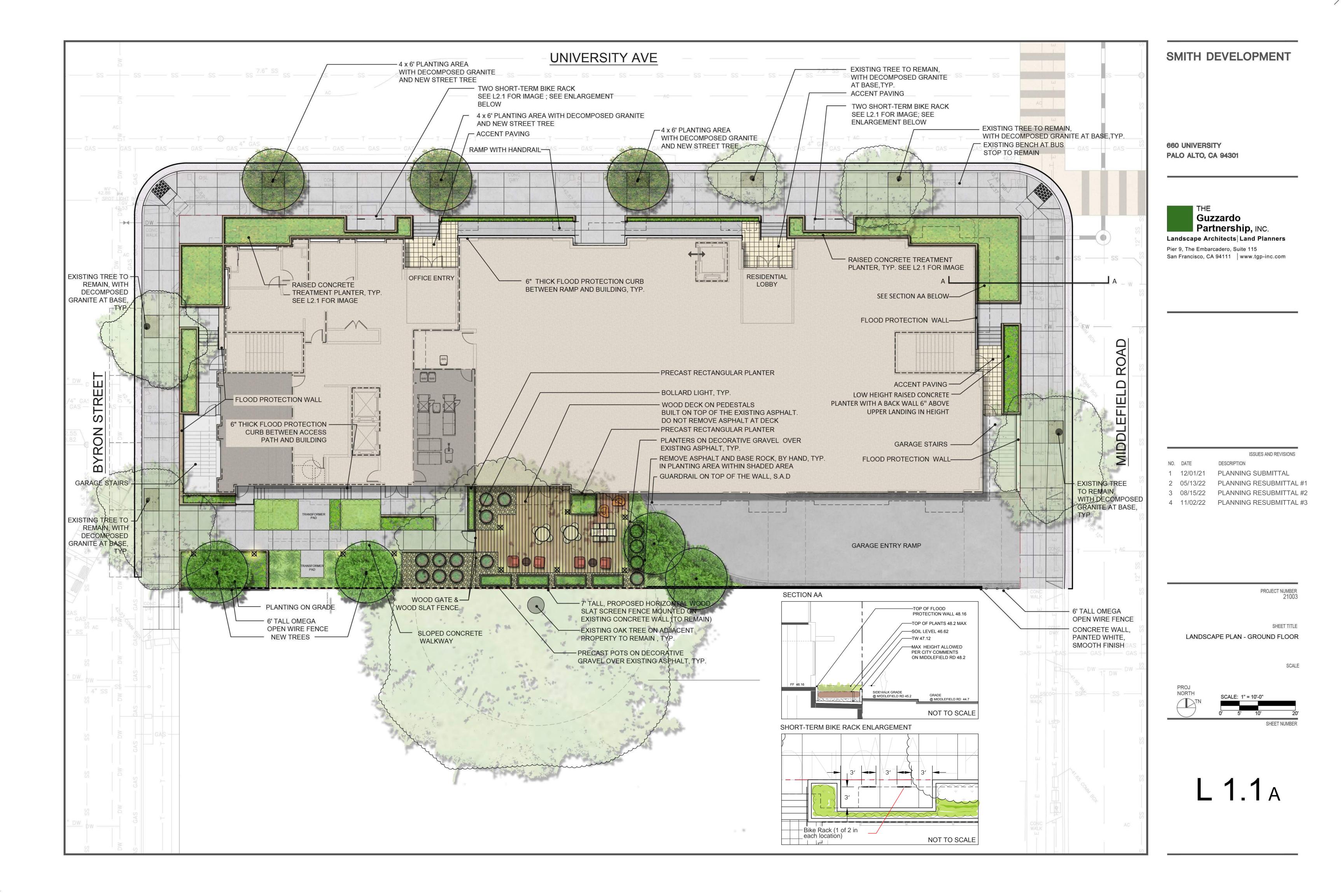


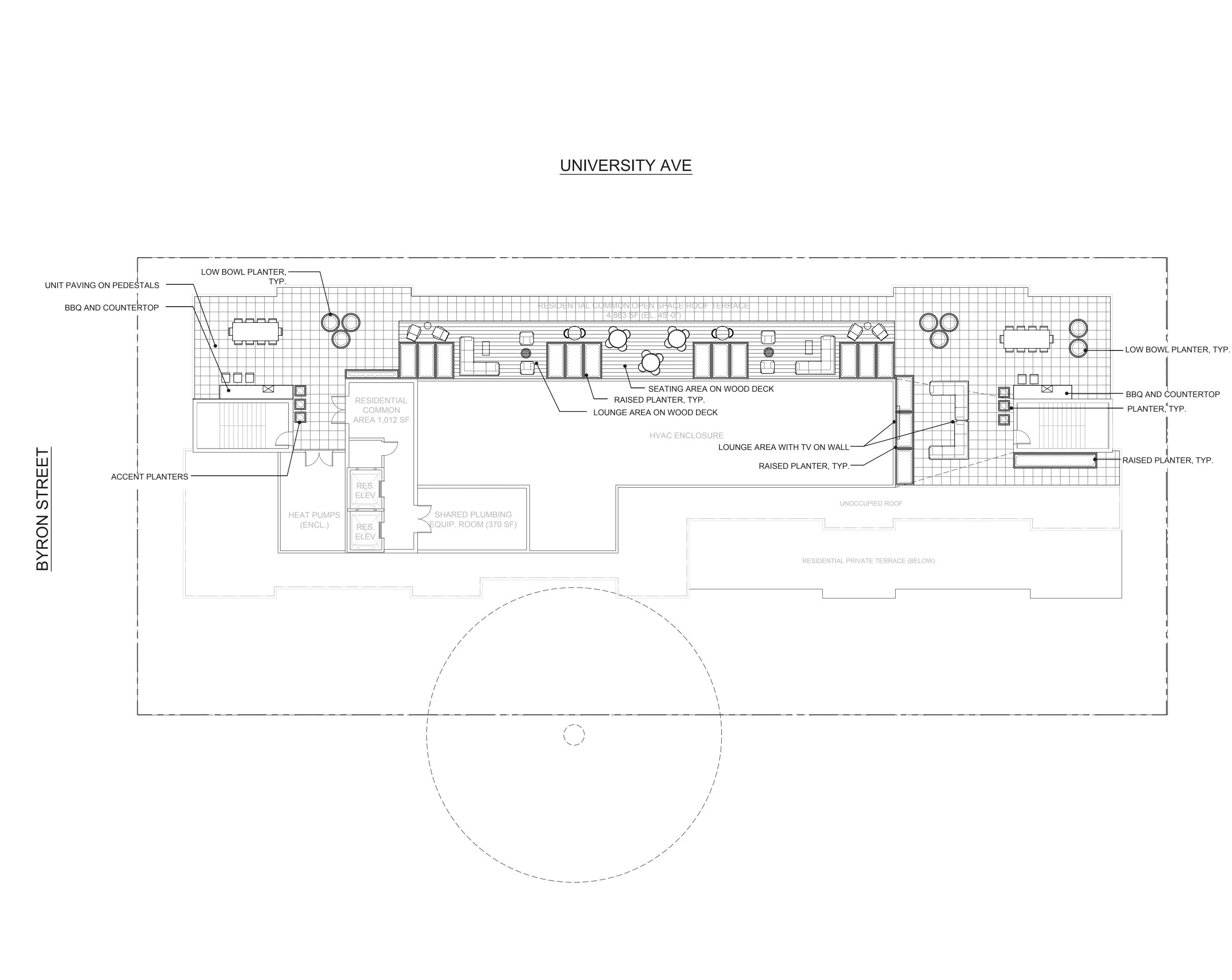


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PROJECT	NUMBER
	21003

SHEET TITLE





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NO. DATE DESCRIPTION

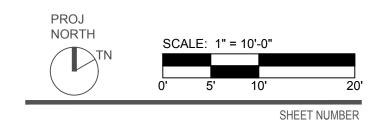
1 12/01/21 PLANNING SUBMITTAL 2 05/13/22 PLANNING RESUBMITTAL #1 3 08/15/22 PLANNING RESUBMITTAL #2 4 11/02/22 PLANNING RESUBMITTAL #3

ISSUES AND REVISIONS

PROJECT NUMBER 21003

SHEET TITLE LANDSCAPE PLAN - ROOF

SCALE

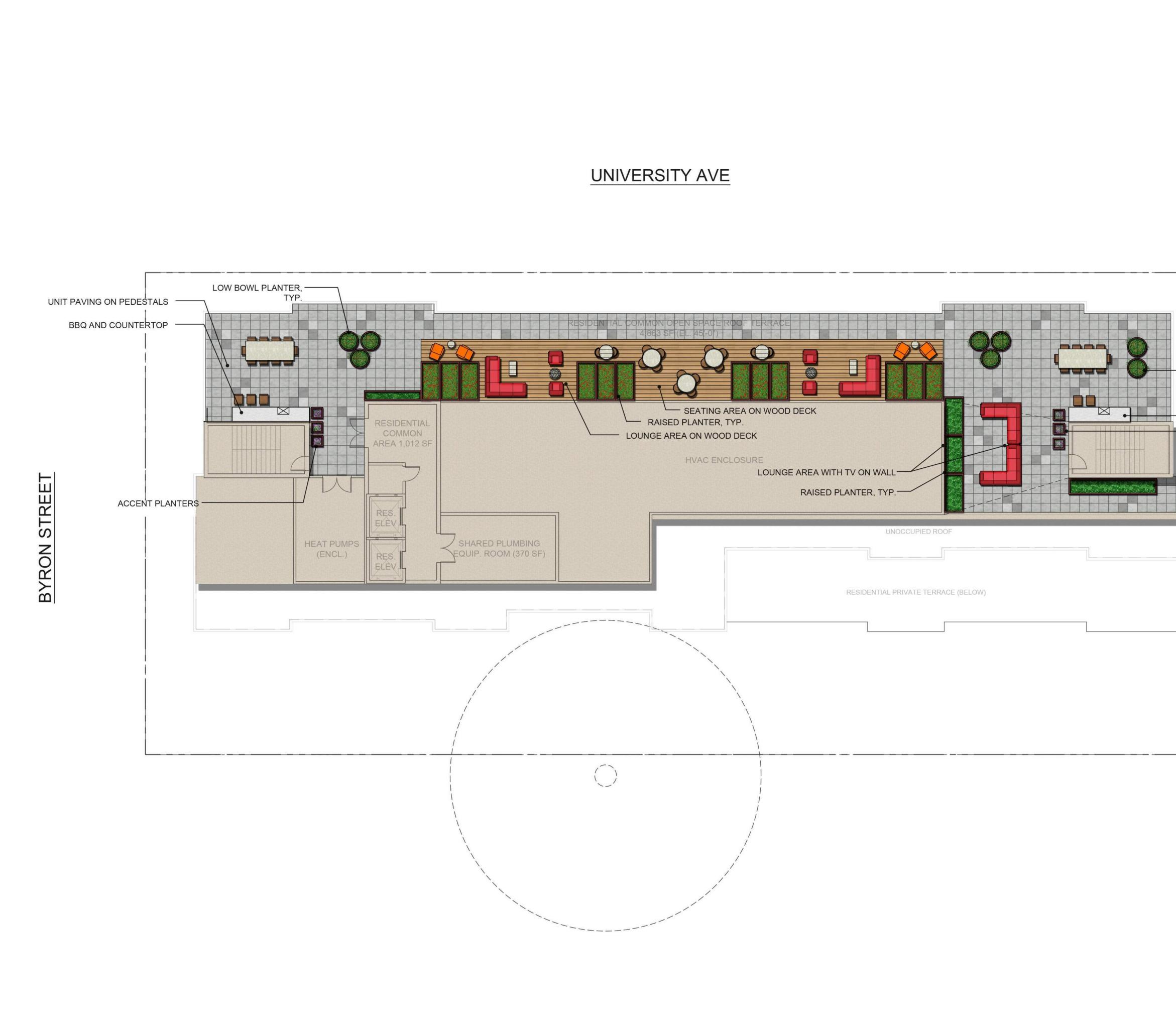


L 1.2

- BBQ AND COUNTERTOP

RAISED PLÄNTER, TYP.





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- BBQ AND COUNTERTOP

- LOW BOWL PLANTER, TYP.

- PLANTER,["]TYP.

RAISED PLANTER, TYP.



NO. DATE

DESCRIPTION

2 05/13/22 PLANNING RESUBMITTAL #1

3 08/15/22 PLANNING RESUBMITTAL #2 4 11/02/22 PLANNING RESUBMITTAL #3

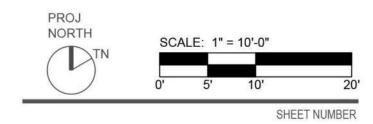
1 12/01/21 PLANNING SUBMITTAL

ISSUES AND REVISIONS

PROJECT NUMBER 21003

SHEET TITLE LANDSCAPE PLAN - ROOF

SCALE



L 1.2A

Site



Pedestrian Unit Paver Pattern



Pedestrian Accent Paving Color



Open Wire Omega Fence near Public Rights of Way for Pedestrian and Vehicular Visibility-6' Height



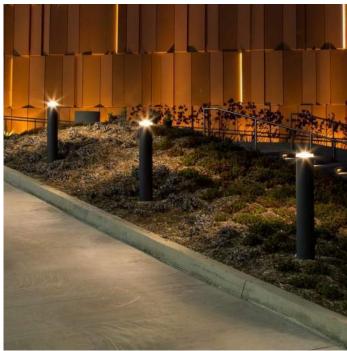
Existing Concrete Foundation Wall (Along Property Line Near Large Coast Live Oak) to Remain



Fence - 7' Height



Welle Circular Bike Rack-Silver



Bollard Light



Bollard Light

Roof Deck



Light and Raised Planter on Roof Deck



Light and Planter on Roof Deck





Horizontal Wood Slat Screen

Wood Deck on Grade



Precast Planter on Decorative Gravel over Existing Asphalt



Precast Planter on Decorative Gravel over Existing Asphalt

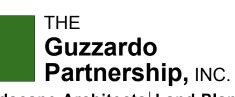


Raised Concrete Treatment Planter Height above grade varies in different site conditions. See plans

Low Bowl Planter on Roof Deck Low Bowl Planter on Roof Deck

Unit Paving on Pedestals and Wood Deck

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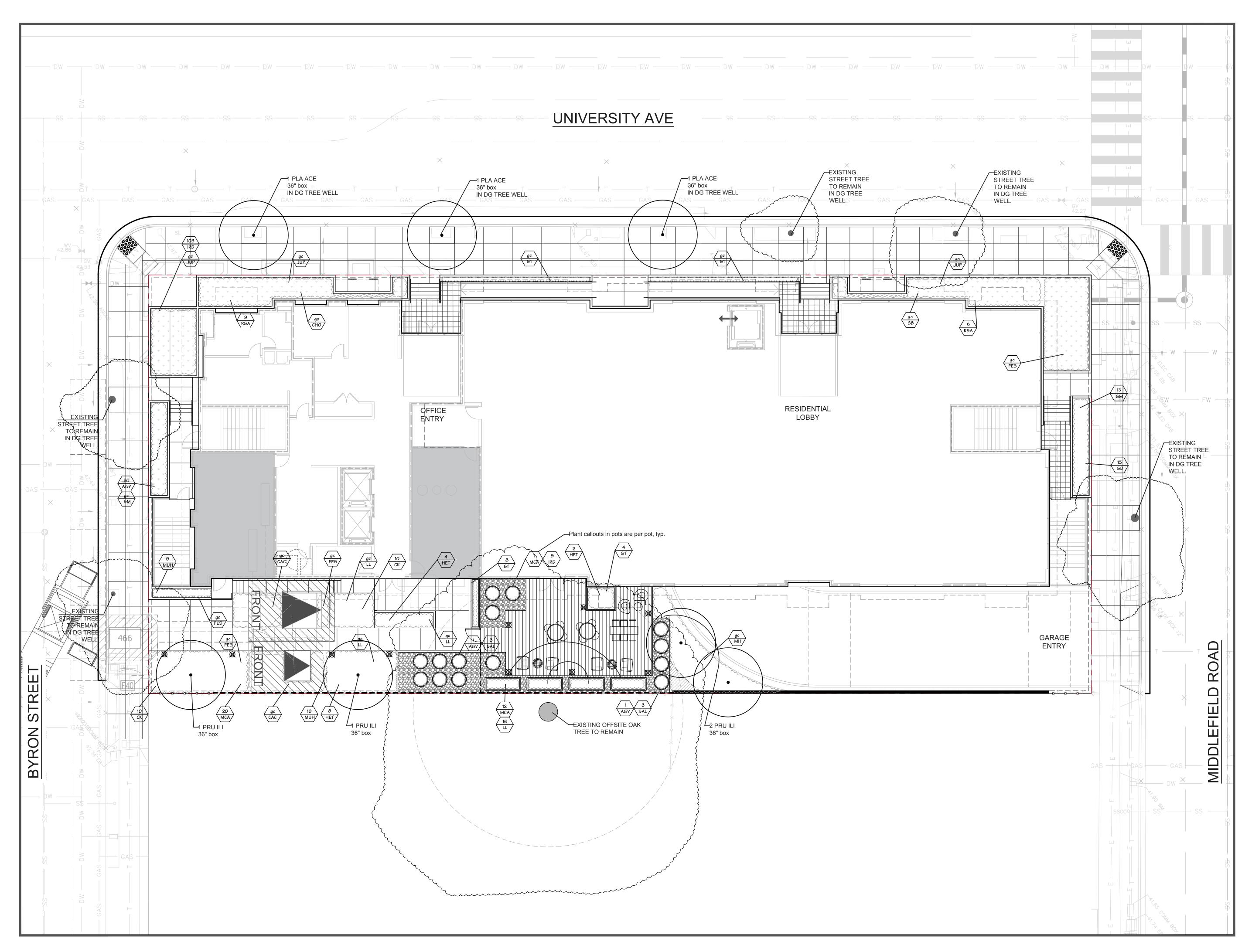
PROJECT NUMBER 21003

SHEET TITLE LANDSCAPE IMAGERY

SCALE

SHEET NUMBER

L 2.1



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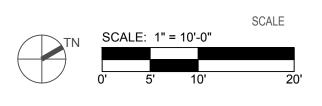


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SHEET TITLE PLANTING PLAN - SITE



SHEET NUMBER

L 3.1

PLANT PALETTE

KEY	QTY	BOTANICAL NAME	COMMON NAME	COMMENTS/SPACING	WUCOLS	NOTES	
PLA ACE	3	Platanus acerifolia "Columbia"	Columbia London Plane Tree	Standard	Medium	Regionally Appropriate	
PRU ILI	4	Prunus ilicifolia ssp. lyonii	Catalina Cherry	Standard	Low	California Native	
SHRUBS, GF	ROUNDCO	VERS AND GRASSESall 5 gallon size	·				SUITABLE
KEY	QTY	BOTANICAL NAME	COMMON NAME	COMMENTS/SPACING	WUCOLS	CALIFORNIA NATIVE	SUITABLE STORMWA TRREATM
AGV	52	Anigozanthos 'Gold Velvet'	Gold Kangaroo Paw	24" o.c.	Low	Regionally Appropriate	
CAC	71	Carex californica	California Sedge	24" o.c.	Low	California Native	
CEO	7	Cephalanthus occidentalis	Buttonbush	48" o.c.	Medium	California Native	
СНО	24	Chondropetalum tectorum	Small Cape Rush	36" o.c.	Low	Regionally Appropriate	YE
FES	159	Festuca californica	California Fescue	24" o.c.	Low	California Native	YE
HET	14	Heteromeles arbutifolia	Toyon	48" o.c.	Low	California Native	
IRD	127	Iris douglasiana	Pacific Coast Iris	12" o.c.	Low	California Native	YE
JUP	99	Juncus patens	Blue Rush	24" o.c.	High	California Native	YE
MCA	35	Myrica californica	California Wax Myrtle	36" o.c.	Medium	California Native	
MUH	42	Muhlenbergia rigens	Deer Grass	24" o.c.	Low	California Native	
RSA	21	Ribes sanguineum	Red Flowering Currant	30" o.c.	Low	California Native	
SAL	36	Salvia clevelandii 'Winfred Gillman'	Cleveland Sage	24" o.c.	Low	California Native	
		SES AND PERENNIALS- all one gallon size					
CK	28	Calamagrostis x a. 'Karl Foerster'	Feather Reed Grass	36" o.c.	Medium	CALIFORNIA NATIVE	1
LL	36	Lomandra longifolia 'Lime Tuff'	Dwarf Mat Rush	24" o.c.	Low	Regionally Appropriate	
ST	24	Stipa arundinacea	New Zealand Wind Grass	18" 0.C.	Low	Regionally Appropriate	
SB	67	Sisyrinchium bellum	Blue-eyed grass	24" o.c.	VeryLow	CALIFORNIA NATIVE	YE
SM	66	Senecio madraliscae	Blue Chalk Sticks	24" o.c.	VeryLow	CALIFORNIA NATIVE	
GROUNDCOV	 ERS- all one	gallon size					
MH	84	Mahonia repens	Creeping Oregon Grape	24" o.c.	Low	California Native	

Notes:

• Plants with low WUCOLS ratings are drought tolerant and regionally appropriate species. Plants noted are Native to California. Other plants, not in either of these two categories are well adapted to Palo Alto. Habitat forming column refers to food value of flowers or fruit for small animals, birds, butterflies and other insects in addition to shelter for some insects.

 Do not use chemical fertilizers, pesticides, herbicides or commercial soil amendment. Use Organic Materials Review Institute (OMRI) materials and compost. Refer
to the Bay-Friendly Landscape Guidelines: http://www.stopwaste.org/resource/brochures/bay-friendly-landscape-guidelinessustainable-practices-landscape-professional for guidance

• Avoid compacting soil in areas that will be unpaved. All planting areas to receive 3" layer of bark mulch.

The approximate total quantity of plants proposed is 1007. Of these plants, 932 are native which totals 92.6% Native plantings.

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotrans	spiration (ETo) 43.1					
Hydrozone #	Plant Factor	Irrigation	Irrigation	ETAF (PF/IE)	Landscape	ETAF x Area	Estimated Total
/Planting Description ^a	(PF)	Method ^b	Efficiency		Area (sq. ft.)		Water Use
			(IE) ^c				(ETWU) ^e
Regular Landscape A	reas	-				-	
Low Water-Use	0.3	Drip	0.81	0.37	2,877	1,064	28,445
Plants							
Moderate Water- Use	0.5	Drip	0.81	0.62	273	169	4,523
Plants							
					(A)	(B)	
				Totals	3,150	1,234	32,968
Special Landscape Ar	reas						
					(C)	(D)	
				Totals	0	0	
						ETWU Total	32,968
			Maximum All	owed Water All	owance (MAW	A)e	37,878
a Hydrozone #/Planting Des	scription	ь I rriga	tion Method	c Irrigation Effi	ciency		
E.g		overhea	ad spray	0.75 for spray	head		
1.) front lawn		or drip		0.81 for drip			
2.) low water use plantings							
3.) medium water use plantin	g						

dETWU (Annual Gallons Required) = Eto x 0.62 x ETAF x Area

where 0.62 is a conversion factor that converts acre- inches per acre per year to gallons per square foot per year.

e MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)] where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Average ETAF for Regular Landscape Areas must be 0.55 or below ntial areas, and 0.45 or below for non-residential areas.

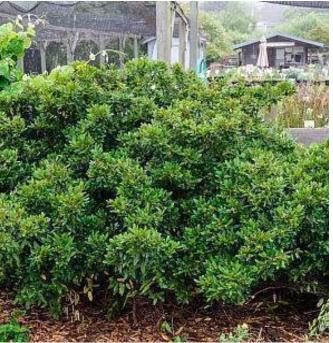
Regular Landscape Areas				
3)	1,234			
	3,150			
	0.40			
as		-		
(B+D)	1,234			
(A+C)	3,150			
Sitewide ETAF (B+D) ÷ (A+C)				
	3) as (B+D) (A+C)	3) 1,234 3,150 0.40 as (B+D) 1,234 (A+C) 3,150		



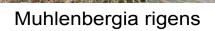
Festuca californica



Lomandra 'Lime Turf'









Salvia c. 'Winifred Gilman'









Calamagrostis acutiflora 'Stricta'



Sisyrinchium bellum



Mahonia repens



Heteromeles arbutifolia

Stipa arundinacea

Anigozanthos 'Gold Velvet"



Sysyrinchium angustifolium

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DESCRIPTION PLANNING SUBMITTAL PLANNING RESUBMITTAL #1

PLANNING RESUBMITTAL #2

4 11/02/22 PLANNING RESUBMITTAL #3

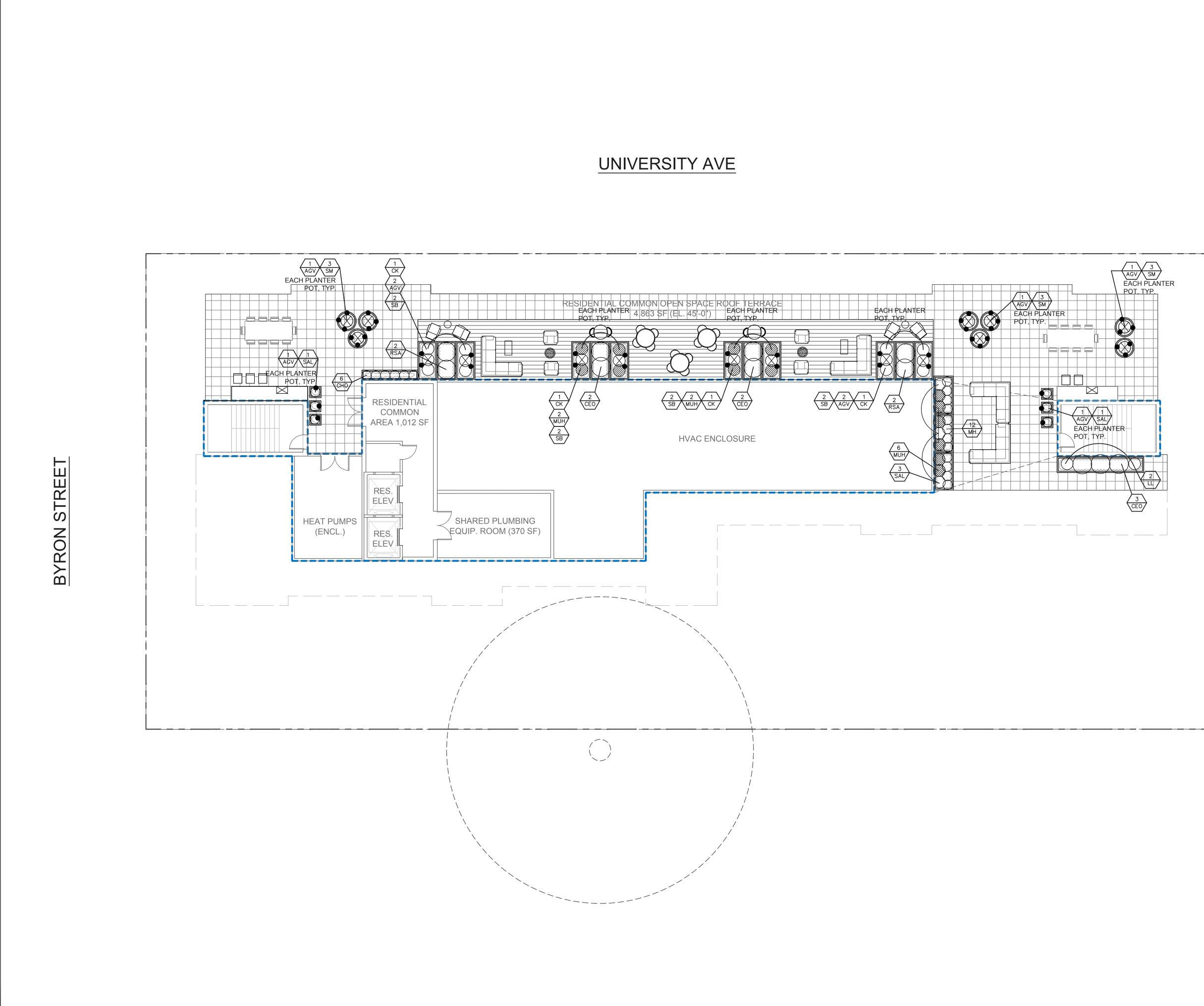
PROJECT NUMBER 21003

SHEET TITLE PLANTING PALETTE & IMAGERY & WELO CALCULATIONS

SCALE

SHEET NUMBER

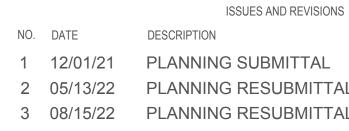
L 3.2



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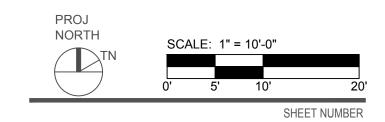


2 05/13/22 PLANNING RESUBMITTAL #1 3 08/15/22 PLANNING RESUBMITTAL #2 4 11/02/22 PLANNING RESUBMITTAL #3

PROJECT NUMBER 21003

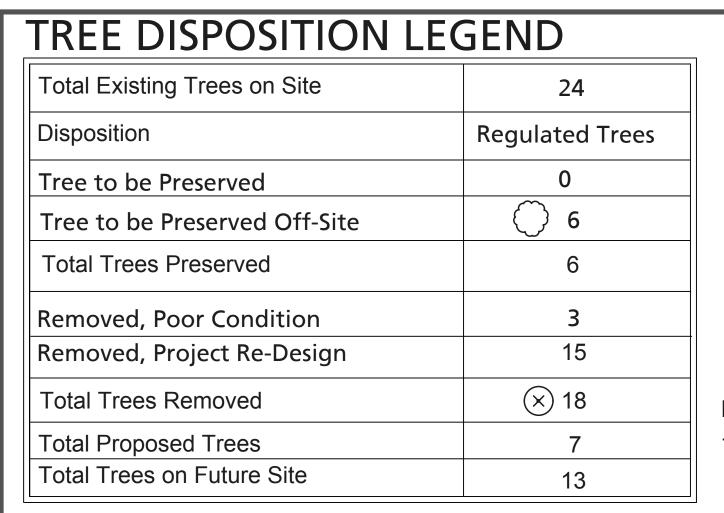
SHEET TITLE PLANTING PLAN - ROOF DECK

SCALE



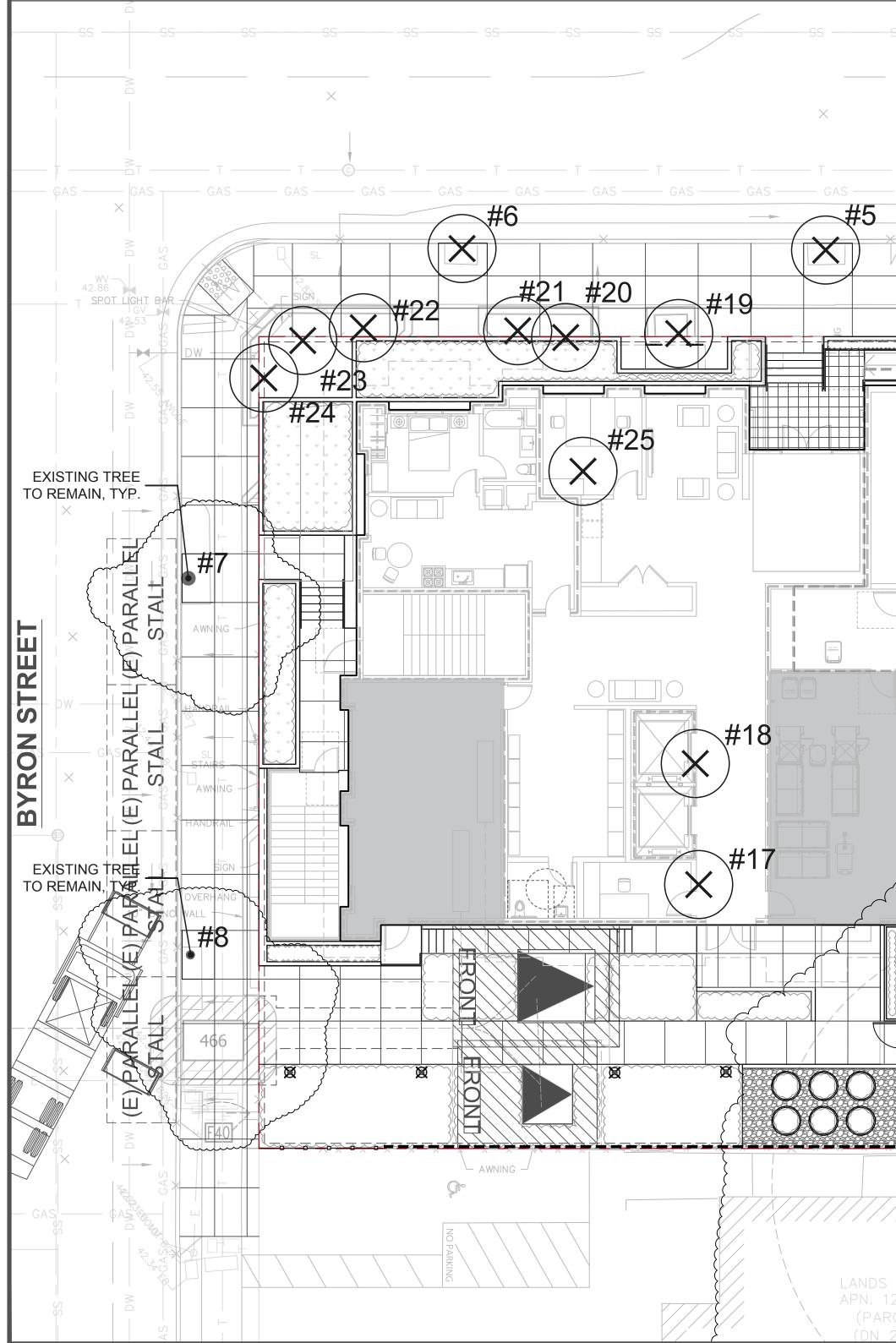
L 3.3

ROAD IELD Ш MIDDLI



Note:

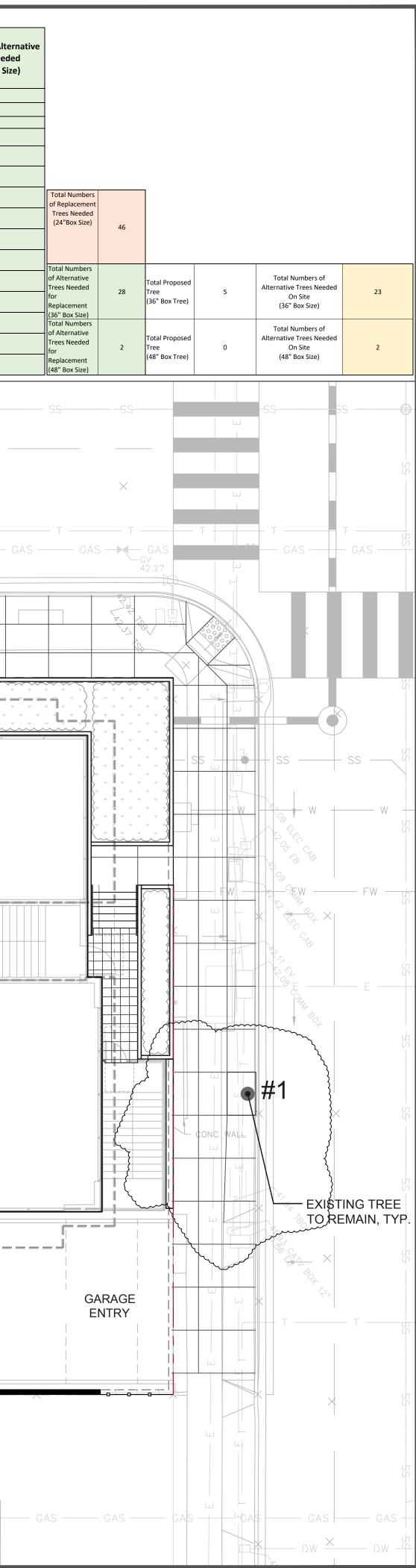
- See Arborist Report by Arbo for specific information about



	Trees NO. Proposed for Removal	Tree Name	Trunk Diameter (in.)	Canopy Spread (ft.)	Numbers of Replacement Trees Needed (24"Box Size)	Numbers of Alternative Trees Needed (36" Box Size)	Numbers of Alterr Trees Needec (48" Box Size
	#4 #5	Glossy privet (Ligustrum lucidum) Glossy privet (Ligustrum lucidum) London plane tree	6 13	10 20	3 3	2 2	
	#6 #11	(Platanus × hispanica Olive tree (Olea europaea	10 8,8	35 10	4 3	2	2
	#13 #14	Raywood ash (Fraxinus a . 'Raywood') Raywood ash	12	15 20	3	2	
	#14	(Fraxinus a . 'Raywood') Raywood ash (Fraxinus a . 'Raywood')	6	15	3	2	
	#16	Raywood ash (Fraxinus a . 'Raywood')	15	20	3	2	
	#17 #18	Purple Robe locust (Robinia 'Purple Robe') Purple Robe locust	6 5	20 20	3	2	
	#18	(Robinia 'Purple Robe') Crape myrtle (Lagerstroemia indica)	5	10	3	2	
	#21	Crape myrtle (Lagerstroemia indica)	6	10	3	2	
por Resources dated November 19, 2021	#22 #23	Crape myrtle (Lagerstroemia indica) Crape myrtle	6	10	3	2	
out existing trees.	#25	(Lagerstroemia indica) Yew pine (Podocarpus macrophyllus)	8	10	3	2	
SS SS UNIVERSITY AVE		SS	SS				
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- EXISTING TREE

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# SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301

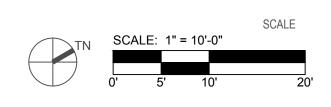
THE Guzzardo Partnership, INC. Landscape Architects Land Planners

Pier 9, The Embarcadero, Suite 115 San Francisco, CA 94111 |www.tgp-inc.com

		ISSUES AND REVISIONS
NO.	DATE	DESCRIPTION
1	12/01/21	PLANNING SUBMITTAL
2	05/13/22	PLANNING RESUBMITTAL #1
3	08/15/22	PLANNING RESUBMITTAL #2
4	11/02/22	PLANNING RESUBMITTAL #3

PROJECT	NUMBER
	21003

SHEET TITLE TREE DISPOSITION PLAN - SITE

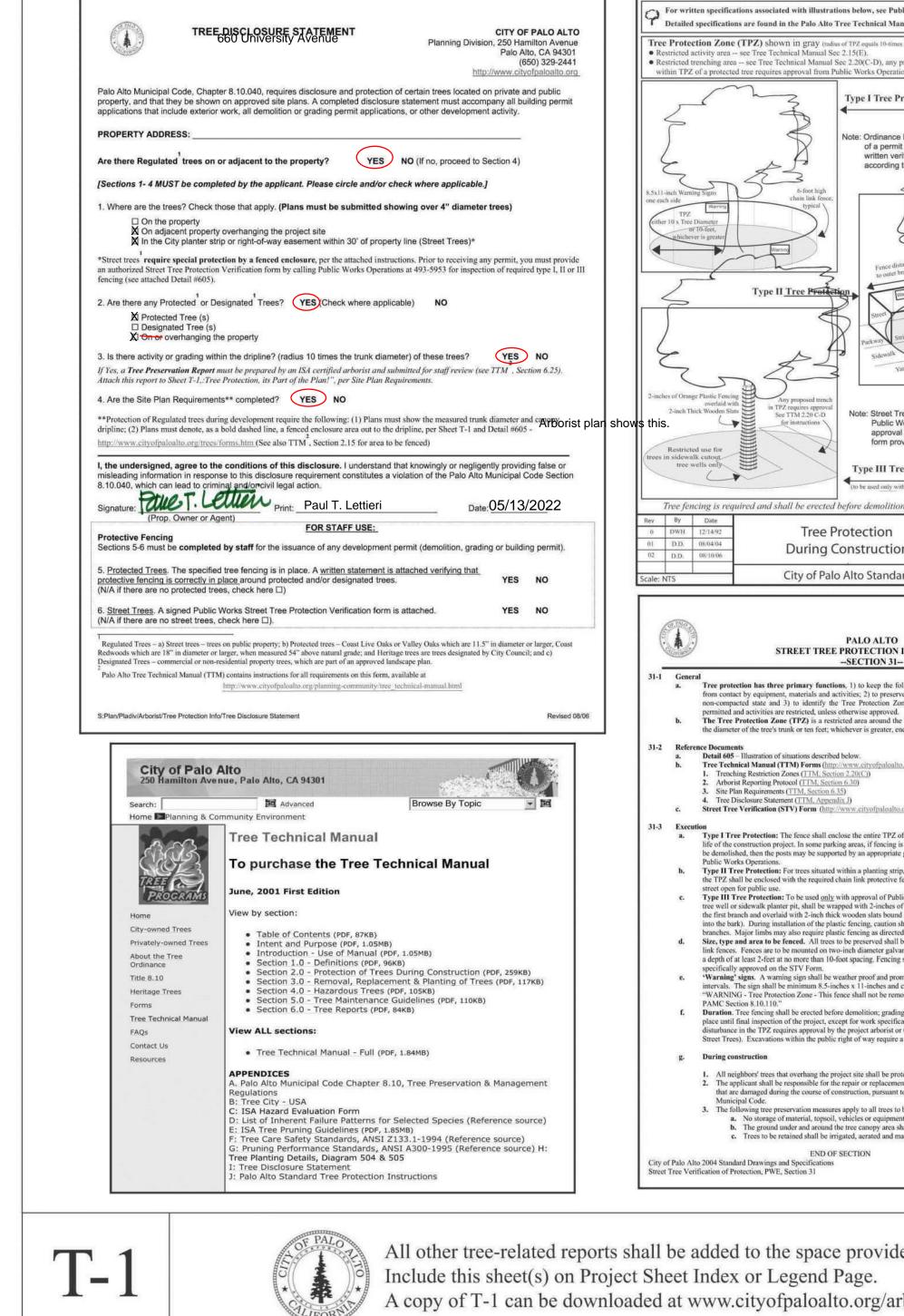


SHEET NUMBER

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# Tre

Fenced enclosures around trees are essential to p preserving roots and soil conditions in an intact and non-c unless otherwise approved. An approved tr For detailed information on Palo Alto's regulated



				SMITH DEVELOPMENT
City of Palo A e Protection - It's H		1		660 UNIVERSITY Palo alto, ca 94301
Make sure your crews and subs				
ree protection report must be added to this s	ction Zone (TPZ) in which no soil di heet when project activity occurs v	sturbance is permitted and activities are restricted,		THE Guzzardo Partnership, INC. Landscape Architects   Land Planners
ablic Works Specifications Section 31 Table 2-2 Palo Alto Tree Technical Ma	INSPECTION SCHEDULE	WARNING Tree Protection Zone		Pier 9, The Embarcadero, Suite 115 San Francisco, CA 94111  www.tgp-inc.com
Protection For all Ordinance Protected and Designated trees, as detailed in the site specific tree preservation report (TPR) prepared by the applicant's project arborist as diagramed on the plans. e Protected & Designated Trees. Issuance field inspection of the trees and the field inspection of t	e Fencing. The Street Tree Verification Form shall or other Protected Trees, the project arborist shall a photograph verifying that he has conducted a bat the protective tree fencing is in place prior to or building permit. (see Verification of Tree	This fencing shall not be removed without City Arborist approval (650-496-5953)		
2. □ Pre-Construction Meeting. applicant or contractor shall cond protection with the job site superi arborist, City Arborist, and, if a c Manager (Contact 650-496-6962)		Removal without permission is subject to a \$500 fine per day* *Palo Alto Municipal Code Section 8.10.110		
<ul> <li>branches or TP2</li> <li>during the course of rough gradininjured by compaction, cut or fill aeration systems, tree wells, drain the project arborist at least 48 how</li> <li>4. Monthly Inspections. The project of the project</li></ul>	drainage and trenching, and if required, inspect s and special paving. The contractor shall provide	ty of Palo Alto Tree Protection Instructions are located at <a href="http://www.city.palo-alto.ca.us/trees/technical-manual.html">http://www.city.palo-alto.ca.us/trees/technical-manual.html</a>		
Yard       Fencing must provide public passage while protecting all other land in TPZ.       or, immediately if there are <i>any r</i> measures. Fax to (650) 329-2154         Frees, Issuance of a permit requires       5.	eport during the first week of each calendar month evisions to the approved plans or protection . (see Monthly Inspection Report, Section 1.17). Free Protection Zone. Work in this area (TPZ - te direct onsite supervision of the project arborist quipment, TTM Section 2.20 C).			
ree Protection       prior to temporary or final occupation of Public Works Operations)         ith approval of Public Works Operations)       Landscape Architect to perform a the materials and planting (see Q functioning consistent with the approval of public Works Operations)	etton. For discretionary development projects, ncy the applicant or contractor shall arrange for the n on site inspection of all plant stock, quality of uality, Section 5.20.1 A) and that the irrigation is proved construction plans. The City shall be in andscape Architect approval prior to scheduling vise approved.			ISSUES AND REVISIONS NO. DATE DESCRIPTION 1 12/01/21 PLANNING SUBMITTAL
Date     2006       lard     Dwg No.     605				2 05/13/22 PLANNING RESUBMITTAL #1 3 08/15/22 PLANNING RESUBMITTAL #2 4 11/02/22 PLANNING RESUBMITTAL #3
	Verification of Street Tree Protection			
to org/trees/)				
org/trees/forms)       1. The Street Trees at the above address(es) are adequately protected. The type of protection used is:         is located on paving or concrete that will not e grade level concrete base, if approved by       Inspected by:         ip, only the planting strip and yard side of fencing in order to keep the sidewalk and       Inspected by:	YES NO* * If NO, go to #2 below			PROJECT NUMBER 21003 SHEET TITLE
blic Works Operations. Trees situated in a         of orange plastic fencing from the ground to         of accurely (slats shall not be allowed to dig         shall be used to avoid damaging any         ed by the City Arborist.         be protected with six (6') foot high chain         anized iron posts, driven into the ground to         g shall extend to the outer branching, unless         ominently displayed on each fence at 20-foot         i clearly state in half inch tall letters:				TREE DISPOSITION PLAN - SITE ARBORIST REPORT
noved and is subject to a fine according to       Image: Subsequent Inspection         ng or construction begins and remain in       Subsequent Inspection         scally allowed in the TPZ. Work or soil       Street trees at above address were found to be adequately protected:         or City Arborist (in the case of work around as Street Work Permit from Public Works.       Impsected by:         otected from impact of any kind.       Date of Inspection:	YES NO*   * If NO, indicate in "Notes" below the disposition of case.			
Revised 08/06       Return approved sheet to Applicant for der s.PWD/OPS/Tree/Poixt.TreeProtect	nolition or building permit issuance.			SHEET NUMBER
			DAT	
led on this sheet (adding as needed) rb/forms	Special Tree P City of Palo Alto	rotection Instruction Shee	et <b>T-1</b>	L 4.2

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An appoved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.



### **TREE PROTECTION REPORT**

### 660 UNIVERSITY AVENUE

PALO ALTO, CALIFORNIA (511 BYRON ST., 660 & 680 UNIVERSITY AVE.)

### Submitted to:

Smith Development 682 Villa Street, Suite G Mountain View, CA 94041

### Prepared by:

David L. Babby Registered Consulting Arborist[®] #399 Board-Certified Master Arborist[®] #WE-4001B

November 19, 2021

p.o. box 25295, san mateo, california 94402 • email: arborresources@comcast.net office: 650.654.3351 • cell: 650.274.3656 • licensed contractor #796763

David L. Babby, Registered Consulting Arborist[®]

November 19, 2021

Page 5 of 16

### 3.0 REGULATED TREES

The PAMC regulates specific types of trees on public and private property for the purpose of avoiding their removal or disfigurement without first being reviewed and permitted by the CPA. Three categories within the status of regulated trees include protected trees (PAMC 8.10), street trees (PAMC 8.04.020) and designated trees. Additional Information regarding regulated trees can be viewed on page xiii of the City's Tree Technical Manual.

One tree, #10, is defined as a protected tree due to being a coast live oak with a trunk diameter of 50 inches (the threshold for coast live oaks is having a trunk diameters of  $\geq$ 11.5 inches at 54 inches above grade).

Trees #1 thru 9 are situated within the public right-of-way and defined as street trees.

The designated tree category may apply to a select number of existing trees planted on a commercial or planned development site, for either designated tree landscape or to mitigate tree removal. This category can be enacted by the CPA and applied to any specific tree associated with a proposed development. In the event the City qualifies a specific tree to this category, it may become provisioned to be saved and protected.

David L. Babby, Registered Consulting Arborist®

### **1.0 INTRODUCTION**

Smith Development is planning to construct a mixed-use, four-story building and tw of underground parking on three properties¹ aligning the southeast side of Un Avenue, between Middlefield Road and Byron Street; the project is titled 660 U Avenue. Two existing buildings and a surface parking lot currently occupy the site be demolished. As part of their planning submittal, Smith Development has retained prepare this Tree Protection Report, and specific tasks assigned to execute are as following

- Visit the site on 1/16/21 and 11/9/21 to identify 25 trees which have trunks within the subject property, along the street frontages up to 30 feet from the boundaries, and on adjoining properties within close proximity to the boundar
- · Determine each tree's trunk diameter pursuant to the City's Tree Technical and the Guide for Plant Appraisal, 10th Edition;3 all diameters represent inc are rounded to the nearest whole number. Estimate each tree's height and average canopy spread (rounded to the neares
- · Ascertain each tree's health, structural integrity and form, and assign an condition rating (e.g. good, fair, poor or dead).
- Rate each tree's suitability for preservation (e.g. high, moderate or low).
- Obtain photographs; see Exhibit C. Assign numbers in a sequential pattern from #1 thru 25, and plot on the site Exhibit B (base map is a copy of the Topographic & Boundary Survey prep.
- BKF and dated 2/17/21). · Affix round metal tags with corresponding, engraved numbers onto the t
- onsite and street trees (i.e. all but #10). • Identify which are defined by the PAMC as protected and/or street trees.
- Review the preliminary architectural plans, dated 9/7/21, to ascertain the tree disposition and potential impacts. · Provide preliminary design guidelines and protection measures to help
- mitigate potential impacts to retained trees, as well as conform with City requi · Prepare a written report presenting the above information, and submit via en PDF document.

The three property addresses include 511 Byron Street, 660 and 680 University Avenue. lto.org/civica/filebank/blobdload.asp?BlobID=6430 Available for viewing at www.cityofpa Authored by the Council of Tree & Landscape Appraisers, and published by the International Arboriculture (ISA).

660 University Avenue, Palo Alto Smith Development

David L. Babby, Registered Consulting Arborist[®]

### 4.0 SUITABILITY FOR TREE PRESERVATION

Each tree has been assigned either a high, moderate or low suitability for pres rating as a means to cumulatively measure its health, structural integrity, anticip span, remaining life expectancy, location, size, particular species, tolerance to cons impacts, growing space, and safety to property and persons within striking Descriptions of these ratings are presented below, and the high category comprise (4%), the moderate category 15 (or 60%), and the low category 10 (or 16%).

### High: Applies to #10.

This coast live oak appears healthy and structurally stable; has no obvious, sig health issues or structural defects; presents a good potential for contributing long the site; and requires only periodic or regular care and monitoring to maintain its and structural integrity.

Moderate: Applies to #1-3, 7, 8, 11 and 17-25.

These trees contribute to the site, but at levels less than those assigned a high su might have health and/or structural issues which may or may not be reasonably a and properly mitigated; and frequent care is typically required for their remaining l

Low: Applies to #4-6, 9, 10, and 12-16.

660 University Avenue, Palo Alto

Smith Developmen

These trees have significant health and/or structural issues expected to worsen reof tree care measures employed (i.e. beyond likely recovery). As a general guidel should be removed regardless of future site improvements, and any which are n require frequent monitoring and care throughout their remaining lifespans to minin to any persons or property within striking distance.

660 University Avenue, Palo Alto Smith Development

**–** 

All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page. A copy of T-1 can be downloaded at www.cityofpaloalto.org/arb/forms

# City of Palo Alto Tree Protection - It's Part of the Plan!

### Make sure your crews and subs do the job right!

					David I. Dahhu Davistand Consult
November 19, 2021	David L. Babby, Registered Consultin	g Arborist [®]	N	lovember 19, 2021	David L. Babby, Registered Consult
	2	.0 TREE DESCRIPTION			Nine (9) trees, #1 thru 9, hav
					regulated by the PAMC as str
lding and two levels	Twenty-five (25) trees of 11 v	arious species were inventori	ed for this rep	port. They are	University Avenue, and #7 th
side of University	sequentially numbered as 1 thr	u 25, and the table below ide	ntifies their co	ommon names,	street frontage of the project
itled 660 University	assigned numbers, counts and o	verall percentages.			southeastern property (and inc
upy the site and will					
t has retained me to	Table 1 - Tree Count and Con	position			Tree #10 is located offsite in o
te are as follows:					have trunks situated within the
have trunks located			The second second	% OF	
et from the property	NAME	TREE NUMBER(S)	COUNT	TOTAL	Two (2) trees, #9 and 19, are
the boundary.	Chinese pistache	8	1	4%	onto the map in Exhibit B, but
Technical Manual ²	Coast live oak	10	1	4%	should not be construed as bei
epresent inches and					
	Crape myrtle	19 thru 24	6	24%	Trees #1-9 and 11-25 are con
o the nearest fifth).	European hackberry	1	1	4%	#10, coast live oak, is native
d assign an overall	Zaropour nucleony	15			this project.
	Glossy privet	4 & 5	2	8%	
r low).	London plane tree	2,3&6	3	12%	Tree #10 (coast live oak)
		2,000	-		Tree #10 is the one inventor
t on the site map in	Olive tree	11	1	4%	Section 3.0 in this report for a
Survey prepared by	Purple Robe locust	17 & 18	2	8%	inches above soil grade, is a
and the base of					spreading nearly 90 feet acros
onto the trunks of	Raywood ash	12 thru 16	5	20%	spreaking nearly ye reer acros
onto the dunito of	Southern magnolia	7 & 9	2	8%	As part of the initial site st
t trees.		1			evaluate #10's condition, as w
certain the potential	Yew pine	25	1	4%	
	0 <del>1</del>				root zone and canopy while
s to help avoid or		Total	25	100%	integrity and form. A summar
n City requirements.					photos obtained then can be o
ibmit via email as a					recommended setbacks and re
	Specific information regarding	each tree is presented within	the table in F	whibit A The	
	trees' assigned numbers and a				
ue. bID=6436.			viewed on a	ie site map m	
International Society of	Exhibit B, and photographs are	presented in Exhibit C.			4
B 1 616					⁴ The diameter represents an approx 660 University Avenue, Palo Alto
Page 1 of 16	660 University Avenue, Palo Alto Smith Development			Page 2 of 16	Smith Development
November 19, 2021	David L. Babby, Registered Con	usulting Arborist [®]		November 19, 2021	David L. Babby, Registered Consul
N	5.0	<b>REVIEW OF POTENTIAL</b>	IMPACTS		equipment (if applicable). S
					clearance include a low, 17-
ity for preservation	True law and in a the many set	l destas associas associate to		5 (16 in total) due to	branch emerging from a 14-in
rity, anticipated life		d design requires removing tro		AND CONTRACTOR OF A CALCULATION	angle; and roughly a dozen sn
		and parking garage footprint.	0.00	19 C	In total, pruning needed wou
ance to construction	non-native tree assigned et	ther a low or moderate suitabi	ity for preserv	ation.	and the tree's form would rem
n striking distance.		44.0 ( 1 1 6	1 1		
ory comprises 1 tree		ees #4 thru 6 are planned for			The 20-foot setback from
6%).		ned a low suitability for prese			compaction, grading, subexc
		s, the decision for their remov			drains, swales, etc. Also, the
	a constant and a second s	ets with advanced and extensi		NO. IN CASE AND A REAL OF	planter area within the 20-foo
obvious, significant		plane leaning towards the str	2360-96900-98/8.00		into existing base material r
ibuting long-term to		causing extensive and some			discussion, review and consid
naintain its longevity		e deficient trees will provide		ity to significantly	
	improve the future, long-te	erm tree landscape for the site	and public.		Protection for retained street
					Type III Protection (aka trunk
	a and the second	tion include #1-3 and 7-10.			within their TPZ. Chain lin
		on zones as being from their			plywood. For #10, protection
ed a high suitability;	of sidewalks and street cu	urbs, and 10 feet in all other	directions. Fo	r those aligning the	mounted on driven posts).
easonably addressed	project site, namely #1-	3, 7 and 8, pruning of th	eir canopies	will be needed to	
remaining lifespan.	accommodate shoring ins	tallation and constructing th	e building.	My site assessment	Additional and more defined
	reveals the trees would	not be adversely impacted	provided pru	ning is judiciously	this report. They should be in
	performed through limited	I and highly-selective cuts by	a California	State licensed tree-	
o worsen regardless	service company approved	by the CPA.			the entire demolition, grading
neral guideline, they					reviewing any revised or future
which are retained	For #10, the neighboring of	oak of protected tree status, the	e architectural	design substantially	
ans to minimize risk	conforms to setbacks pro	wided in January 2021, which	ch stipulates a	a minimum 30-foot	
To an and the second	setback from oak's trunk	for the future building and	parking garag	ge, and a minimum	
	setback of 20 feet for all	ground disturbance beneath	the existing as	sphalt surface. The	
	garage and upper building	g floors are set a few or mor	e feet inside,	but careful shoring	
	placement (for driving pile			s.	
		s or a drill rig) and pruning ca	n limit impacts		
	1850 B 25433	s or a drill rig) and pruning ca	n limit impacts		
	The 30-foot setback from	s or a drill rig) and pruning ca #10's trunk considers an addit		vards the tree where	
			onal 5 feet toy		
Page 6 of 16		#10's trunk considers an addit r building, scaffolding, mar	onal 5 feet toy		660 University Avenue, Palo Alto
Page 6 of 16	pruning would occur fo	#10's trunk considers an addit r building, scaffolding, mar	onal 5 feet toy	, and any shoring	660 University Avenue, Palo Alto Smith Development
Page 6 of 16	pruning would occur fo 660 University Avenue, Palo Al	#10's trunk considers an addit r building, scaffolding, mar	onal 5 feet toy	, and any shoring	
Page 6 of 16	pruning would occur fo 660 University Avenue, Palo Al	#10's trunk considers an addit r building, scaffolding, mar	onal 5 feet toy	, and any shoring	

ulting Arborist[®]

have trunks within the public right-of-way and are defined and street trees. Tree #1 aligns Middlefield Road, #2 thru 6 align 7 thru 9 align Byron Street. Of these, #1 thru 8 are along the ject site, whereas #9 is along the frontage of the neighboring ncluded to conform with CPA report standards).

November 19, 2021

in close proximity to the property boundary. Trees #11 thru 25 the property.

are not shown on the topo survey. I have added their locations but note those represent only roughly approximate locations and being surveyed.

onsidered ornamentals and not native to the local region. Tree ve and represents the largest, most visible tree inventoried for

toried tree defined by the CPA as a protected tree (refer to r additional information). Its trunk diameter is 50 inches⁴ at 54 an estimated 60 feet tall, and has a mostly balanced canopy

study, Smith Development retained me in January 2021 to s well as provide development setbacks to adequately protect its nile achieving a reasonable assurance of survival, structural nary of additional observations obtained on 1/16/21 follows, and e observed in Exhibit B (page C-3). Information regarding my review of potential impacts are presented in Section 5.0.

roximation using a Biltmore stick. Page 3 of 16

November 19, 2021 ulting Arborist[®]

Sections of the canopy requiring pruning to achieve this 7-inch diameter limb overhanging the lot; an 8-inch diameter -inch diameter limb growing mostly upright at a slight westerly smaller branches ranging in size from 1 to 6 inches in diameter. ould favorably account for only 15-percent of the total canopy, emain intact

m #10's trunk for ground disturbance applies to any soil excavation, overexcavation, trenching, drilling/auguring, storm the option to remove the existing asphalt surface and establish a foot buffer could benefit the oak's root zone; however, digging I might damage significant roots (and would require further sideration).

eet trees #1-3, 7 and 8 should include what the CPA defines as unk wrap), plus plywood to cover unpaved ground (i.e. planters) link panels could also be utilized in lieu, or combination of, ction would consist of CPA Type I Protection (aka chain link

ed mitigation measures are presented within the next section of e incorporated into project plans, carefully followed throughout ing and construction processes, and are subject to revision upon ture project plans.

Page 8 of 16

Special Tree Protection Instruction Sheet City of Palo Alto

David L. Babby, Registered Consulting Arborist®

November 19, 2021

Overall, the oak appears viable and healthy, and exhibits no symptoms or signs of being infected or infested by harmful pathogens. Shoot growth, color and density appear typical for a coast live oak, and woundwood has favorably closed off the vast majority of prior wounds.

Existing features beneath its canopy and surrounding the trunk appear dated, and based on its generally healthy condition, I conclude the tree has adapted well to current site and growing conditions. Its base is buried by leaf debris, and is situated roughly 6 inches or less from a 2-foot tall wall. Northeast of its trunk is barren soil, surface roots, and a raised deck which nears 2 feet above grade and serves as a walkway. Towards the southwest, this walkway continues by nearly 30 feet from the trunk, steadily descending and serving as an ADA ramp leading to the neighbor's parking lot.

Beneath the section of canopy overhanging the project site is an asphalt parking lot elevated above original grade by roughly 2 feet. There are no signs of roots forming cracks or mounds of the asphalt surface; however, given the dated age of the wall and surrounding features, I suspect roots are present, but highly limited as compared to the more favorable root-growing conditions on the neighboring property. A parking lot medium, particularly as elevated as this one, is quite unsuitable for promoting root growth, and the retaining wall footing (depth unknown) also contributes towards deflecting root growth away from the parking lot.

Its structure also appears intact and stable, consisting of a main trunk dividing into five leaders at 10 feet high; the unions of these are favorably spaced apart, although visual and manual examination of the junction should occur once neighboring site access can be obtained to identify the presence of any defects, or lack thereof. The section of trunk and root collar buried by leaf debris should also be examined at that time.

The canopy is highly elevated above the parking lot and neighboring site, appears to be regularly maintained over its many years (and no immediate pruning items were found). The elevated canopy, however, does unfavorably displace limb and branch weight towards the canopy's edges, and potentially increases the possibility of limb and branch failure (although the regular maintenance provided certainly helps minimize this risk).

660 University Avenue, Palo Alto Smith Development

David L. Babby, Registered Consulting Arborist[®]

November 19, 2021

Page 4 of 16

### 6.0 TREE PROTECTION MEASURES

Recommendations presented within this section are based on my review of the preliminary architectural plans, and serve as measures to help mitigate or avoid impacts to trees anticipated for retention. I (hereinafter, "project arborist") should be consulted in the event any cannot be feasibly implemented. Please note, unless otherwise stated, all referenced distances from trunks are intended to be from the closest edge, face of, their outer perimeter at soil grade.

### 6.1 Design Guidelines

- 1. Consider each Tree Protection Zone (TPZ) as those minimum distances specified within Section 5.0 of this report. The TPZ is the area where the following minimum activities should be avoided: trenching, soil scraping, compaction, mass and finishgrading, overexcavation, subexcavation, tilling, ripping, swales, bioswales, storm drains, dissipaters, equipment cleaning, removal of underground utilities and vaults, altering existing water/drainage flows, stockpiling and dumping of materials, and equipment and vehicle operation. Where an impact encroaches slightly within a setback, it can be reviewed on a case-by-case basis by the project arborist to determine appropriate mitigation measures.
- 2. The CPA requires all design changes occurring near retained trees are reviewed by the project arborist prior to resubmitting plans, for purposes of identifying potential impacts and any possible mitigation measures.
- 3. Per City requirements, incorporate this report into the project plan set, following the CPA T-1 sheet, and copying onto T-2, T-3, etc. until its entirety is shown (and in a manner which all report text can be clearly read on the plan sheets).
- 4. On all architectural, civil, landscape and electrical site-related plans, show the trunk locations, trunk diameters (as circles to scale), and assigned numbers of all inventoried trees (see map in Exhibit B). Also, add notes instructing contractors to comply with recommendations presented in this report and on Sheet T-1, and to contact the project arborist prior to permitted work being performed within a TPZ.

660 University Avenue, Palo Alte Smith Development

Page 9 of 16

T-2



# SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



Partnership, INC. Landscape Architects Land Planners Pier 9, The Embarcadero, Suite 115 San Francisco, CA 94111 | www.tgp-inc.com

### ISSUES AND REVISIONS

NO.	DATE
1	12/01/21
2	05/13/22
3	08/15/22
A	44100100

DESCRIPTION PLANNING SUBMITTAL PLANNING RESUBMITTAL #1

PLANNING RESUBMITTAL #2

4 11/02/22 PLANNING RESUBMITTAL #3

PROJECT NUMBER 21003

SHEET TITLE **TREE DISPOSITION PLAN - SITE** ARBORIST REPORT

SCALE

SHEET NUMBER

43

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An appoved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

David L. Babby, Registered Consulting Arborist®

- November 19, 2021
- 5. On a tree disposition plan or tree protection plan (or equivalent), include the following: the above notes, identify which trees are proposed for removal by placing an "X" across their trunks, and identify the Tree Protection Zones and protection fencing types as shown on the map in Exhibit B.
- 6. Abandon any underground portions of existing and unused lines, pipes and manholes, etc. within a TPZ (prescribe they are cut off at existing soil grade versus being dug up and causing root damage); add this provision onto the demolition plan.
- 7. Route underground utilities and services beyond TPZs, and per CPA guidelines for street trees, establish at least 10 feet from their trunks. Where this is not feasible, consider the following alternative trenching or installation methods (listed in order of least to most impactful): directionally bore by at least 3.5 to 4 feet below grade, tunnel using a pneumatic air device (e.g. an AirSpade®), or manually dig with a shovel (i.e. no jackhammer); these assume pipe bursting, an optimal method, does not apply to this project. For boring, establish access pits and above-ground infrastructure (e.g. splice boxes, meters and vaults) beyond TPZs.
- 8. Where within 30 feet from #10's trunk, ensure specifications by the geotechnical, soils and structural engineers do not require compaction, overexcavation, subexcavation or fill beyond 2 feet from the parking garage wall (towards the tree) and 5 feet beyond the building's foundation. Shoring utilized to achieve these setbacks, such as a pile driver or drill rig, shall not be used where significant damage to a tree's canopy would occur (can be determined on a case-by-case basis).
- 9. Any new walkway or sidewalk proposed on existing unpaved ground within a TPZ should be designed and built entirely above existing soil grade and surface roots (i.e. a no-dig design), including for base material, edging and forms. Also, direct compaction of soil shall be avoided (levels comparable to foot-tamping are acceptable), and soil fill used to bevel the top of walk to existing grade should not exceed 18 to 24 inches from a walk's edge, not be compacted, nor placed closer than 10 feet from a tree's trunk. Tensar[®] BX Geogrid (www.tensarcorp.com) is a material which can help address these limited excavation and compaction requirements.

Page 10 of 16 660 University Avenue, Palo Alto

David L. Babby, Registered Consulting Arborist[®] November 19, 2021

- 30. Spoils generated during demolition, excavation and trenching must not be piled or spread over unpaved ground within a TPZ. If necessary, temporarily pile on existing concrete, plywood or a tarp.
- 31. Any authorized digging within a TPZ should retain and protect roots encountered with diameters of  $\geq 2$  inches. Once exposed, cover with wet burlap and keep continually moist until they can be assessed by the project arborist; note that roots of street trees must be evaluated by the CPA arborist prior to severing. If authorized by the project arborist and/or CPA arborist for cutting, cleanly severe at 90° to the angle of root growth against the cut line using sharp tools (e.g. loppers or handsaw), and then immediately after, the cut end shall be either buried with soil or kept continually moist by burlap until the dug area is backfilled. Roots encountered with diameters less than the 2-inch threshold can be cleanly severed at a 90° angle to the direction of root growth.
- 32. All electrical and irrigation routes shall be staked, reviewed and approved by the project arborist prior to trenching occurring within a TPZ.
- 33. Avoid using tree trunks as winch supports for moving or lifting heavy loads, or for tying rope, cables, chains, signs or other items around.
- 34. Dust accumulating on trunks and canopies during dry weather periods may need to be periodically washed away (e.g. every three to four months).
- 35. Where beneath canopies, avoid disposing harmful products (such as cement, paint, chemicals, oil and gasoline) anywhere on site that allows drainage within or near TPZs; do not wash any equipment; and avoid applying herbicides (if applied, they should be labeled for safe use near trees). Liming shall not occur within 50 feet from a trunk.

Page 15 of 16

660 University Avenue, Palo Alt Smith Developmen

- and avoided on unpaved areas beneath or near canopies.
- the severance of surface or shallow roots.
- within 50 feet from a tree.
- applied against trunks of new trees.
- their trunks.

David L. Babby, Registered Consulting Arborist[®] David L. Babby, Registered Consulting Arborist® November 19, 20 November 19, 2021 David L. Babby, Registered Consulting Arborist® November 19, 2021 10. For any retaining or landscape wall within a TPZ, utilize a pier and above-grac d. New street tree(s) should be designed to be at least 10 feet from any existing or 6.2 Before Demolition, Grading and Construction new utility (per CPA guidelines). beam system, establish the beam spanning between footings to be above-grade (i.e. 19. Several weeks prior to mobilizing equipment for demolition, and again (or more) e. All new trees should be installed, including necessary irrigation, by an no-dig design except for footings), and avoid fill and compaction between footings. prior to shoring, grading and utility work, conduct a site meeting between the general experienced California state-licensed landscape contractor (C-27) or tree service contractor, applicable subcontractors, and project arborist for purposes of reviewing 11. Design any new bioswales, storm drains and swales well-beyond TPZs. tree protection, demolition procedures, shoring methodology and vertical clearances company (D-49), and performed to professional industry standards. Only if needed for the pile driver or drill rig, and excavation for the underground garage, necessary to stand upright, they should be double-staked (no cross-brace) with 12. The permanent and temporary drainage design, including downspouts, should ne trench routes, limits of grading, supplemental watering, mulching, pruning, routes of rubber tree ties or equivalent, and the support stakes cut below the first main require water being discharged beneath #10's canopy. access, staging, and other items and protection measures presented in this report. lateral branch. All nursery stakes shall be removed. Root crowns of new trees shall be visible and absent of encircling roots. 13. All electrical routes should be designed and represented on the electrical site plan 20. The project arborist must also regularly inspect the project site as outlined on page 2f. Irrigation and lighting features (e.g. main line, laterals, valve boxes, wiring and be beyond TPZs. 14 of the Tree Technical Manual (Section 2.30 Inspection Schedule), and verify controllers) should not require trenching inside TPZs, including header/lateral conformance to tree protection measures. Inspections shall occur at least once per lines. In the event this is not feasible, they may require being installed in a radial 14. Any new light poles should be established beyond tree canopies, or at a minimur month and continue through final inspection, and additional site visits are necessary direction to, and terminate a specific distance from a trunk (versus crossing past only where minor branch clearance is needed. The proximity of tree trunks shoul to observe/advise regarding tree care and/or services. A summary of pertinent it). In certain instances, a pneumatic air device may be needed to avoid root also be considered, and placed as far from them as possible. observations and recommendations shall coincide with each inspection. damage, and any Netafim tubing placed on grade. 21. Avoid interrupting any existing irrigation. In the event interruption does occur, 15. The future staging area and route(s) of access should be shown on the final site pla g. Irrigation for new trees should be supplied through an automatic timer, separate supplemental with potable water, and discuss the methodology, frequency and from other plant material, and supplied by one to two bubblers (minimum two for amount with the project arborist beforehand. a 48-inch box). The bubblers should be placed and staked on the rootball's 16. The erosion control design should represent silt fence and/or straw rolls at location surface (not against a trunk, in a sleeve or on mulch), at around 1/2 to 1/3 the beyond TPZs, and at a minimum, not against a tree's trunk. Where within a TPZ, th 22. Prior to mobilizing equipment to the site, install tree protection to enclose all distance between the trunk and rootball edge. Additionally, an 8-inch tall circular unpaved sections of the TPZs. For tree #10, utilize Type I Protection, which include material should not be embedded into the ground by more than 2 inches, nor requi berm formed by soil should established around a rootball's perimeter, and a 3affixing 5- to 6-foot tall chain link onto 2-inch diameter steel posts spaced apart as inch layer of mulch spread over their tops, kept 1-inch from the trunks' bases. needed to remain upright. For all street trees, utilize Modified Type III Protection, 17. Avoid specifying the use of herbicides use within a TPZ; where used on site, the h. Ground cover beneath canopies of existing trees should be comprised of a 3-inch which consists of wrapping a single straw wattle horizontally around the trunk at should be labeled for safe use near trees. Also, liming shall not occur or be prescribe roughly 10 feet high and another around its base (loosely); placing boards (2"x4") layer of coarse wood chips or other high-quality mulch (gorilla hair, rock, stone, vertically around the outside, from ground to 10 feet high; then wrapping orangegravel, black plastic or other synthetic ground cover should be avoided). Mulch plastic fencing around the boards two to three times and tying together. Additionally, should kept off the trees' trunks or visible root collars. 18. The landscape design should conform to the following additional guidelines: lay 3/4- to 1-inch thick plywood over unpaved sections of the planters within the i. Bender board or other edging material proposed beneath the canopies should be a. Tilling, ripping, surface scraping and compaction within TPZs should be avoided TPZs, or if better, chain link panels mounted on concrete blocks or metal stands. All established on top of existing soil grade (such as by using vertical stakes). b. Irrigation should not strike within 12 inches from trunks of existing trees, no protection shall remain in place until otherwise instructed by the project arborist, and j. Herbicides should be avoided within a TPZ, and where used on site, labeled for Sheet T-1 for additional information. Note that fencing for #10 will require being safe use near trees. Liming shall not occur within 50 feet from a trunk. c. Plant material installed beneath tree canopies should be >12 to 24 inches from temporarily opened for demolition of existing asphalt, and work shall be performed under supervision by the project arborist. Page 13 of 16 660 University Avenue, Palo Alto 660 University Avenue, Palo Alto Smith Development Page 12 of 16 660 University Avenue, Palo Alto Page 11 of Smith Developmen Smith Development ARBOR RESOURCES David L. Babby, Registered Consulting Arborist® November 19, 2021 David L. Babby, Registered Consulting Arborist November 19, 20 7.0 ASSUMPTIONS AND LIMITING CONDITIONS TREE INVENTORY TABLE All information presented herein covers only the inventoried trees listed in Exhibit A, a reflects their size, condition, and areas viewed from the project site and adjoining streets a sidewalks on 1/16/21 (for oak #10) and 11/9/21 (for all others). I hold no opinion towards oth trees on or surrounding the project area • The documented condition and suitability ratings of dormant trees are subject to change or they can be observed following their annual regrowth of leaves. · Observations were performed visually from the ground without probing, coring, dissecting EXHIBIT A: I cannot provide a guarantee or warranty, expressed or implied, that deficiencies or problems any trees or property in question may not arise in the future. TREE INVENTORY TABLE · No assurance can be offered that if all my recommendations and precautionary measure (four sheets) Comments: Within a 4' wide planter strip between street and sidewalk. Trunk's base abuts curb. Highly elevated (verbal or in writing) are accepted and followed, that the desired results may be achieved. canopy. Sidewalk is slightly raised, now and historically. Codominant leaders emerge at 8' high. Has • I cannot guarantee or be responsible for the accuracy of information provided by others. three large, partial girdling roots, one over a buttress roots and can be pruned away. · I assume no responsibility for the means and methods used by any person or compa London plane tree 5 55 50 60% 70% 50% implementing the recommendations provided in this report. Comments: Becoming dormant, Within a narrow 3' wide by 4.5' long planter. Adjacent sidewalk is raised and has · The information provided herein represents my opinion. Accordingly, my fee is in no w been historically, and adjacent curb is cracked. Asymmetrical canopy with excessive limb weight, and contingent upon the reporting of a specified finding, conclusion or value. growth towards the building is elongated. Surface root in lawn adjoining sidewalk. Numbers shown on the site map in Exhibit B are solely intended to represent a tree's rough London plane tree approximate location and should not be construed as surveyed points This report is proprietary to me and may not be copied or reproduced in whole or part without Comments: Becoming dormant. Within a 3' wide by 15' long planter. Adjacent sidewalk is cracked at E corner of prior written consent. It has been prepared for the sole and exclusive use of the parties to w planter. Surface root in lawn adjoining sidewalk. Vertical form. submitted for the purpose of contracting services provided by David L. Babby. Glossy privet · If any part of this report or copy thereof be lost or altered, the entire evaluation shall be invali Comments: Within a 2' wide by 3.5' long planter. Leans NW. Significant decline with deadwood. Prior dominant leader cut at 6' cut, the resulting wound is decaying. Adjacent to light pole. Adjacent concrete raised 13 20 20 30% 30% 40% Poor Comments: Within a 2' wide by 4' long planter. Adjacent curb is buckled and raised, and adjacent sidewalk has ember 19, 202 been historically raised at multiple locations. Advanced decline with large deadwood. Large decaying wounds at 6' and 9' high. Asymmetrical canopy. London plane tree Platanus × hispanica Comments: Within a 2.5' wide by 3.5' long planter. Has a 16° NW lean, and opposite the lean is a pronounced buttress root. Sidewalk and curb have been historically raised at multiple locations. Codominant top Asymmetrical canopy with an extended limb over street, as well as a low branch lying on top of #22 660 University Avenue, Palo Alte Page 16 of 660 University Avenue, Palo Ali Site: 660 University Avenue, Palo Alto Smith Development Prepared for: Smith Devel 1 of November 19, 2021 Prepared by: David L. Babby, RCA #3

repared By:	MTL.W	Date:	Nove
	David L. Babby	0.00010.00	
	Registered Consulting Arborist® #399		
	Board-Certified Master Arborist® #WE-4001B		-
	CA Licensed Tree Service Contractor #796763 (C61/L	D49)	10

Smith Development



All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page. A copy of T-1 can be downloaded at www.cityofpaloalto.org/arb/forms

# City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Special Tree Protection Instruction Sheet City of Palo Alto

David L. Babby, Registered Consulting Arborist®

- 23. Affix warning signs every 10± feet of #10's fencing, and one onto the trunk wrap of each street tree. The signs shall be at least 8-1/2 by 11 inches in size, and refer to Sheet T-1 for a CPA template.
- 24. Prior to utility installation and grading, review the staked locations with the project arborist where within or near a TPZ. Also, identify the precise locations of where underground utilities within TPZs will be capped (i.e. where being abandoned).
- 25. All pruning shall be performed under direction of the project arborist, conducted in accordance with the most recent ANSI A300 standards, and performed by a California licensed tree-service contractor (D-49) with an ISA certified arborist in a supervisory role.

### 6.3 During Demolition, Grading and Construction

- 26. Where within the assigned TPZs, all work must performed under the presence of and direct supervision by the project arborist; by foot-traffic only without the travel or operation of heavy equipment, including small tractors; and any approved excavation manually conducted using hand tools only (no jackhammers) and/or utilizing a pneumatic air device operated by a tree service.
- 27. Great care is needed during demolition and construction to avoid excavating into the ground and disturbing roots within TPZs, and equipment shall not travel over newly exposed ground/roots during the process. Additionally, equipment and truck operators must also be aware of existing trees (both along the street and onsite) to avoid damaging limbs, branches and trunks, as well as the scorching of foliage. Contact the project arborist well in advance of a potential conflict (wrap protection around limbs may be necessary before potential damage occurs).
- 28. The prescribed removal of any existing plant material within a TPZ must be manually performed, and the work reviewed with the project arborist beforehand.
- 29. Digging for any bollards or permanent fencing within a TPZ, such as for #10, shall be manually performed using a shovel or post-hole digger. For any root encountered during the process with a diameter  $\geq 2$  inches, shift the hole over by 12 inches and repeat the process. 660 University Avenue, Palo Alte

Page 14 of 16

November 19, 2021

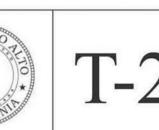
### ARBOR RESOURCES

Smith Development

### TREE INVENTORY TABLE

		SIZE			CONDITION			CONDITION REGU			CONDITION REGUL/			CONDITION				REGU	ATEC
TREE NAME	Trunk Diameter (in.)	Height (ft.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Form (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)	Suitability for Preservation (High/Moderate/Low)	Proposed for Removal	Protected Tree	Street Tree								
Southern magnolia (Magnolia grandiflora)	21	30	35	40%	50%	50%	Poor	Moderate			x								
Comments:	buckled a	t multiple	locations		g historica			tire planter v extensive de			urb is								
Chinese pistache (Pistacia chinensis)	14	25	35	60%	60%	70%	Fair	Moderate			x								
Comments:	At the NV	W edge of	a 2' wide	by 9' long	planter.	Adjacent	sidewalk	historically r cet, and brand											
Southern magnolia (Magnolia grandiflora)	20	35	35	20%	30%	30%	Poor	Low			x								
Coast live oak (Quercus agrifolia) Comments:		100 million (100 million)			40% ts base is	50% ~6" from	Fair 1 a 2' tall y	High wall and buri	- ed by le	X	-								
		ing parkin		ugh and a	e favorab	ly spaced	apart. Ca	anopy is high	ly eleva										
Olive tree	site (exist	ing parkin	g lot).						ly eleva										
Olive tree (Olea europaea ) Comments:	site (exist 8, 8 Canopy is	ing parkin 15 s rounded.	g lot). 10 Sucker	60%	50% creativel	40% y been fo	Poor rmed into	Moderate a shrub surre	x	ted over	the -								
Olive tree (Olea europaea) Comments: Raywood ash Fraxinus a . 'Raywood')	site (exist 8, 8 Canopy is trunk. Tr 2	ing parkin 15 s rounded. unk bifurc 15	g lot). 10 Sucker ates at 2.	60% growth has 5' high and 60%	50% s creativel d forms a 40%	40% y been for narrow at 20%	Poor rmed into tachment. Poor	Moderate a shrub surre	X ounding X	ted over t	the -								





### SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



Landscape Architects Land Planners Pier 9, The Embarcadero, Suite 115 San Francisco, CA 94111 | www.tgp-inc.com

### NO. DATE 12/01/21 1 2 05/13/22 3 08/15/22

**ISSUES AND REVISIONS** 

PLANNING SUBMITTAL

DESCRIPTION

- PLANNING RESUBMITTAL #1
- PLANNING RESUBMITTAL #2
- 4 11/02/22 PLANNING RESUBMITTAL #3
  - PROJECT NUMBER

21003

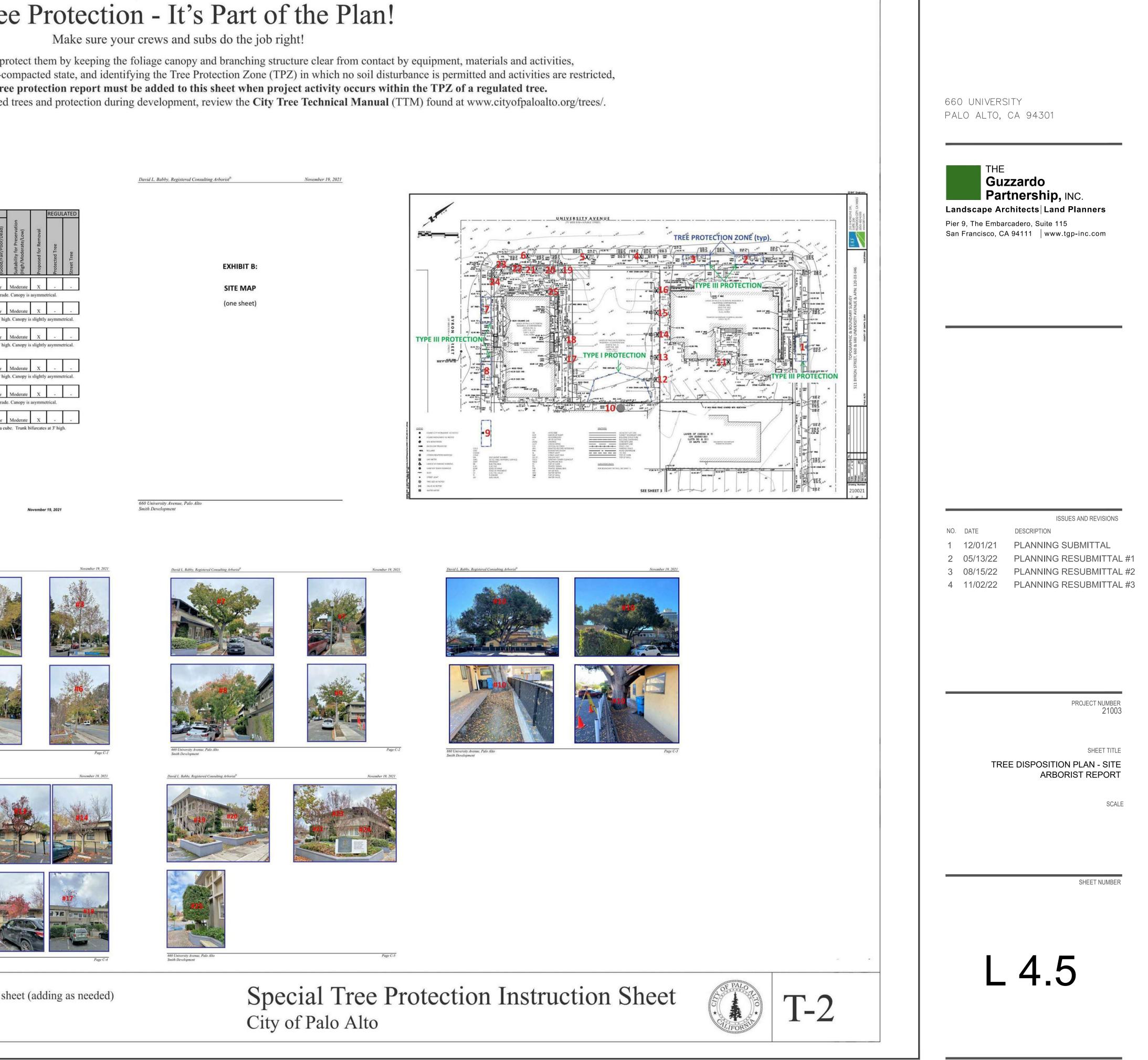
SHEET TITLE **TREE DISPOSITION PLAN - SITE** ARBORIST REPORT

SCALE

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An appoved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

	TREE INVEN	TREE INVENTORY TABL	
TREE/ TAG	runk Diameter (in.) eight (ft.) anopy Spread (ft.)	tealth Condition 100%=Best, 0%=Worst) itructural Integrity 100%=Best, 0%=Worst) 00%=Best, 0%=Worst) 00%=Best, 0%=Worst) 100%=Best, 0%=W	LUEE     / Jaaal       Junk Diameter (in.)     // Junk Diameter (in.)       ight (ft.)     // Junk Diameter (in.)       nopy Spread (ft.)     // Junk Diameter (in.)       00%=Best, 0%=Worst)     00%=Best, 0%=Worst)
NO. TREE NAM Raywood a 13 (Fraxinus a . 'Ra	sh ywood') 12 20 15	<u>표민 정민 보인 정인 정판 참 참 정</u> 30% 30% 30% Poor Low X sk bifurcates at 6' high. Significant dieback with deadwood. Adjacent	NO.     TREE NAME     ビ     Ψ     C     Ψ Ξ     E     Φ       20     Crape myrtle (Lagerstroemia indica)     3, 3, 2     10     5     60%     40%     50%       Comments: Within a 2' raised planter. Dormant. Multiple trunks er
Raywood a (Fraxinus a , 'Ra	asphalt is cracked and forms a sh ywood') 11 20 20	40% 30% 30% Poor Low X	Crape myrtle         6         15         10         60%         40%         50%           Comments: Within a 2' raised planter. Dormant. Multiple trunks on
Raywood a ( <i>Fraximus a</i> . 'Ra	slightly raised. sh ywood') 6 15 15	20%     10%     20%     Poor     Low     X     -	Crape myrtle (Lagerstroemia indica)     6     15     10     60%     40%     50%       Comments: Within a 2' raised planter. Dormant. Multiple trunks on A low limb of #6 is on top of its canopy.
Raywood a	wound at 6' high where a pric	a large decay column along entire trunk, as well as a large decaying r leader was cut away. Advanced levels of dieback and deadwood.	Crape myrtle         6         15         10         60%         40%         60?           23         (Lagerstroemia indica )         6         15         10         60%         40%         60?           Comments: Within a 2' raised planter. Dormant. Multiple trunks on
	Comments: Within a square planter. Has Significant decay throughout,	20%     20%     Poor     Low     X     -       a pronounced E lean. Low limb overhangs adjacent parking space.       including along trunk. Deadwood. Adjacent asphalt forms a mound.	Crape myrtle     4, 3, 2     15     10     60%     40%     60%       Comments:     Within a 2' raised planter.     Dormant.     Multiple trunks en
	Robe') 6 35 20 Comments: Dormant. Has a single suppo	60%     40%     60%     Fair     Moderate     X     -       rt stake which is no longer necessary and should be removed.	Yew pine         8         10         10         60%         40%         30%           Comments: Immediately Adjacent to building. Shrub form and sh
Purple Robe la 18 ( <i>Robinia</i> 'Purple	Robe') 5 25 20 Comments: Dormant. Has a single suppo	60%         40%         30%         Poor         Moderate         X         -         -           rt stake which is no longer necessary and should be removed. Excessive ing lot. Asymmetrical form away from #17.         Excessive         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
Crape myrt 19 (Lagerstroemia	indica) 5 10 10	60%     40%     50%     Fair     Moderate     X     -       rmant. Multiple trunks originate 8" high. Canopy is slightly asymmetrical.	]
Site: 660 University A Prepared for: Smith L		3 of 4	Site: 660 University Avenue, Palo Alto Prepared for: Smith Development 4 of 4
	EXF	IIBIT C:	
		DGRAPHS sheets)	
	Pho	<u>to Index</u>	660 University Avenue, Palo Alto Smith Development David L. Babby, Registered Consulting Arborist [®]
	- <b>1:</b> Trees #1 thru 6 - <b>2:</b> Trees #7 thru 9	Page C-4: Trees #11 thru 18 Page C-5: Trees #19 thru 25	
	- <b>3:</b> Tree #10		
			int A

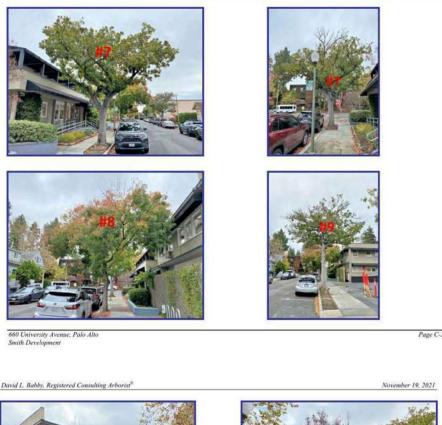
# City of Palo Alto Tree Protection - It's Part of the Plan!



SMITH DEVELOPMENT





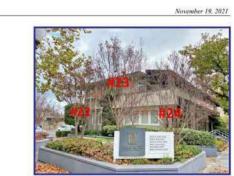






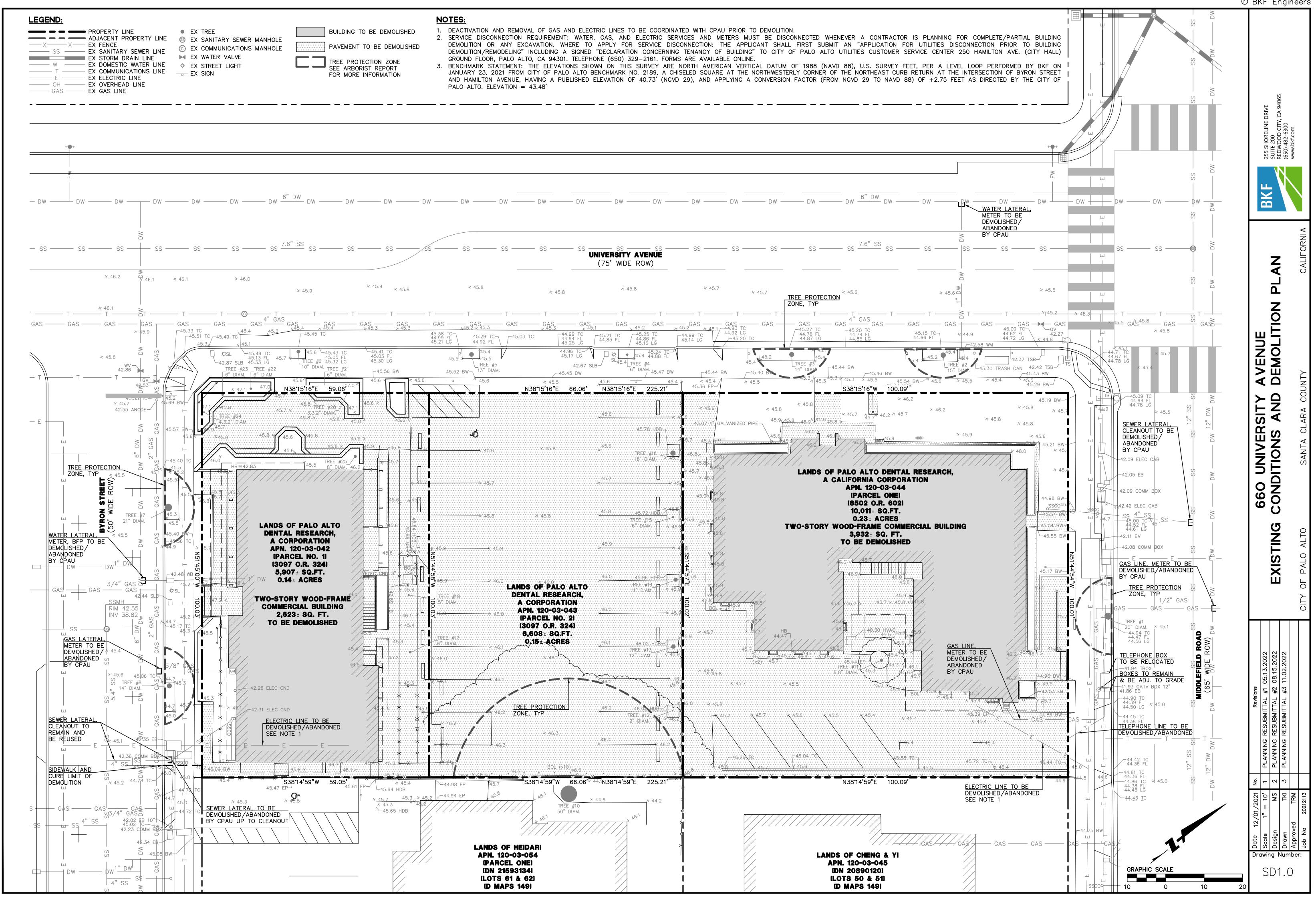


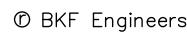




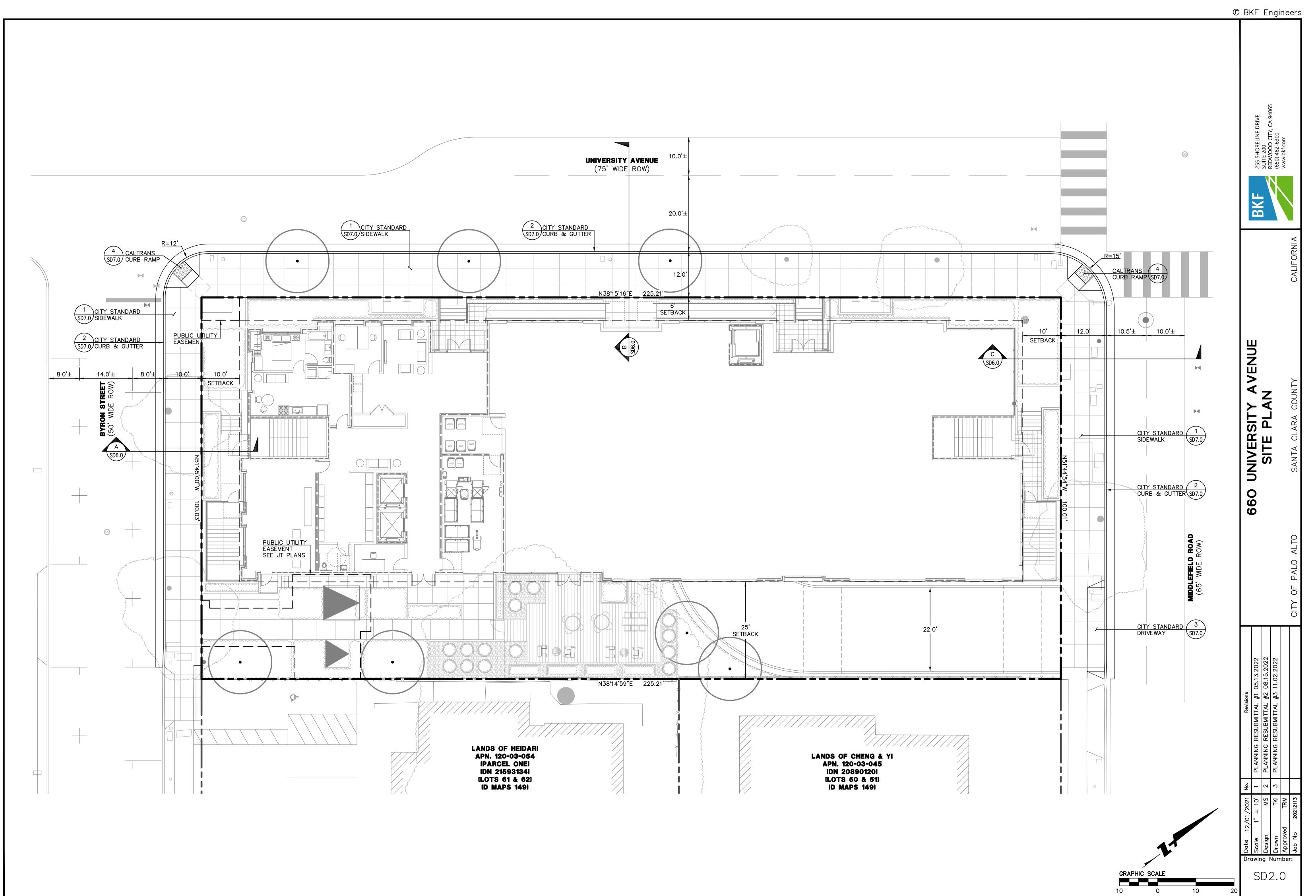


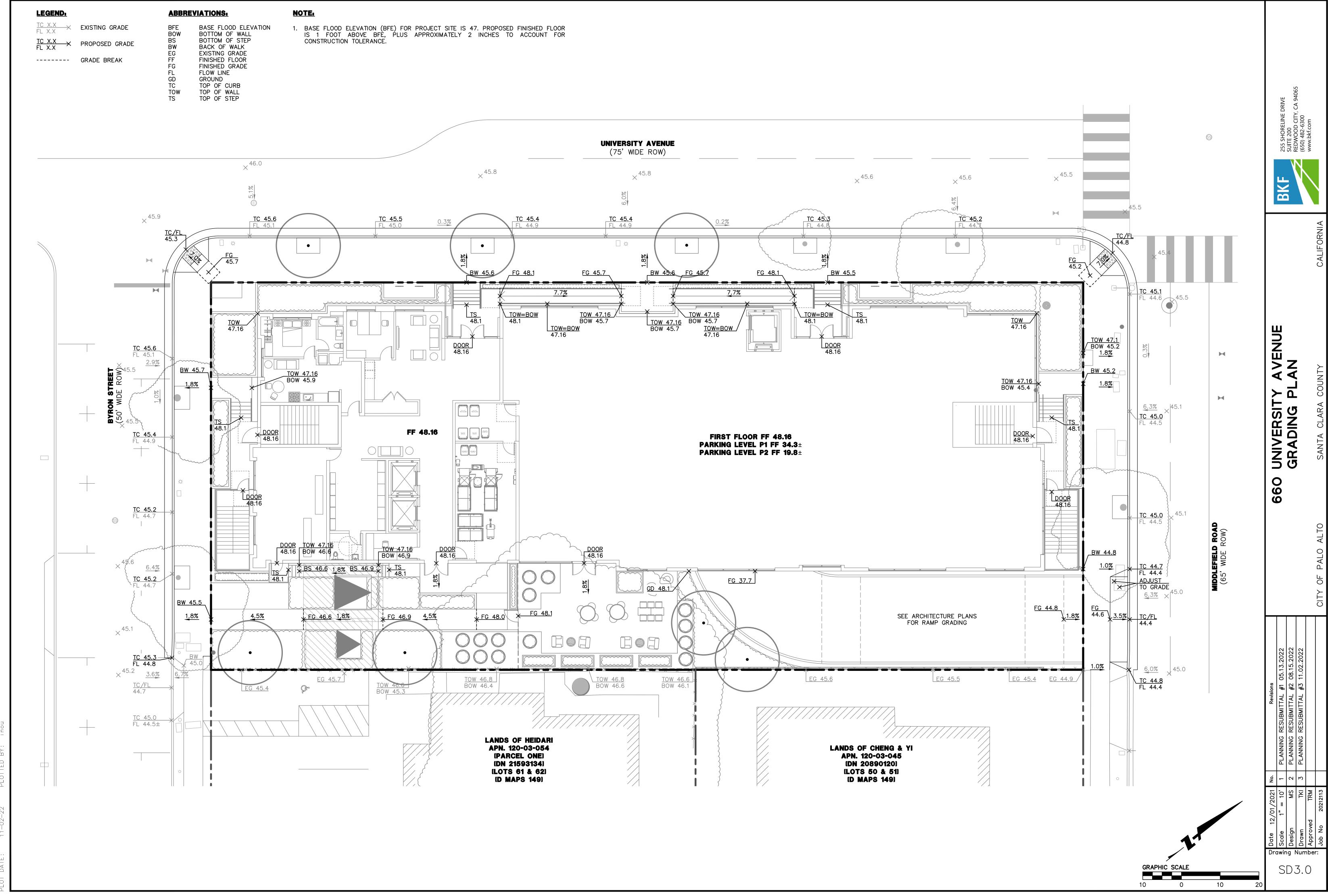


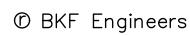


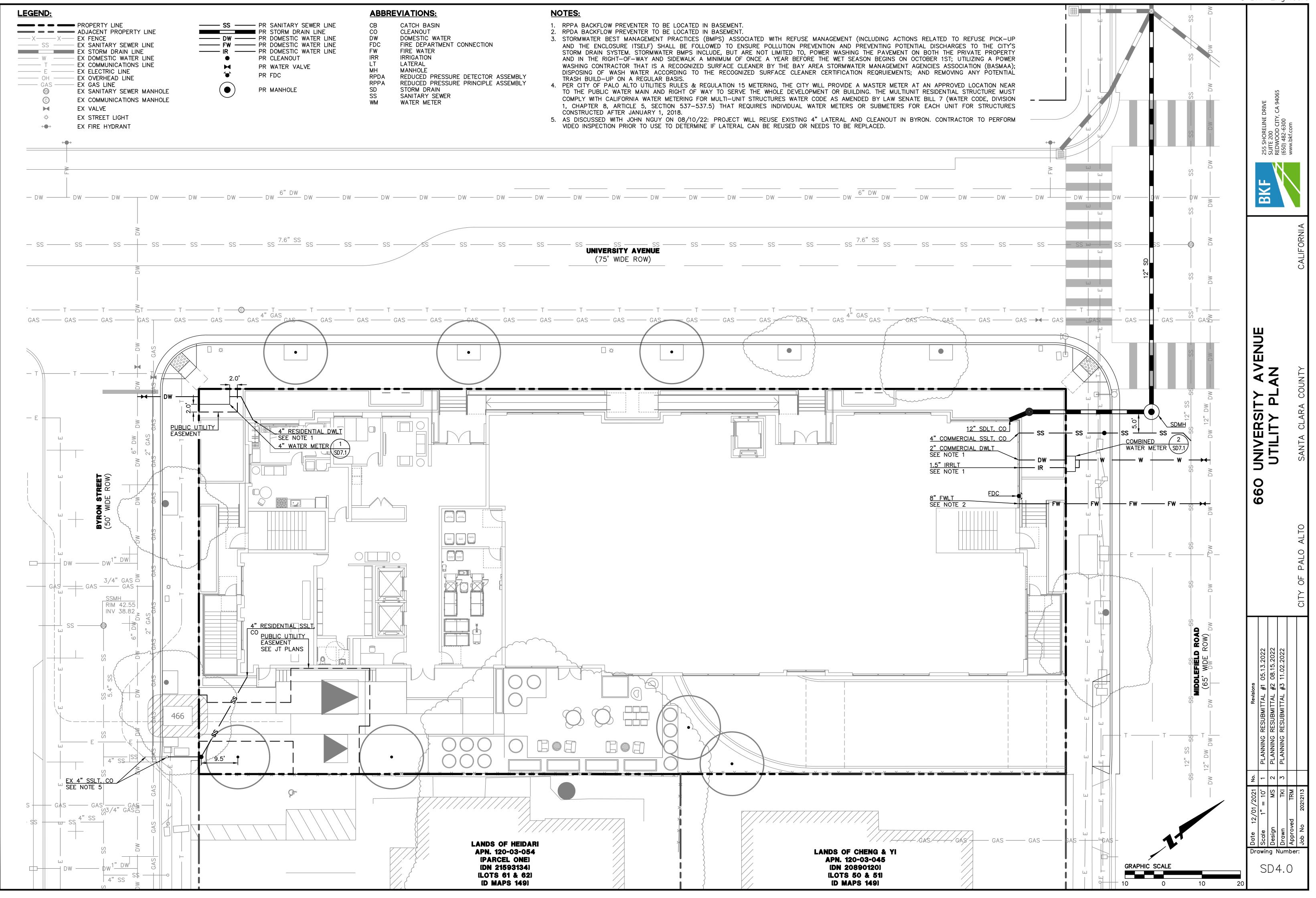






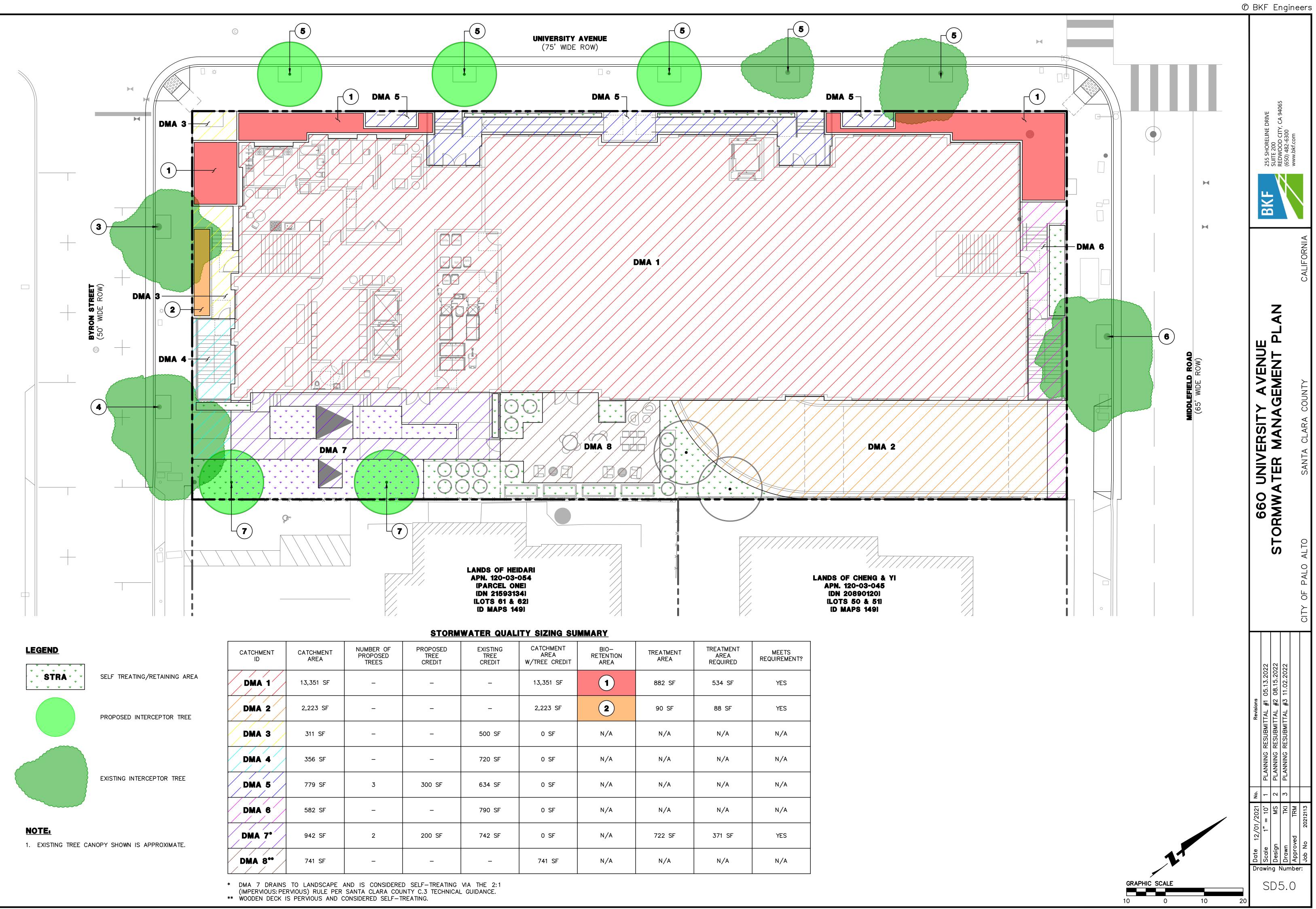


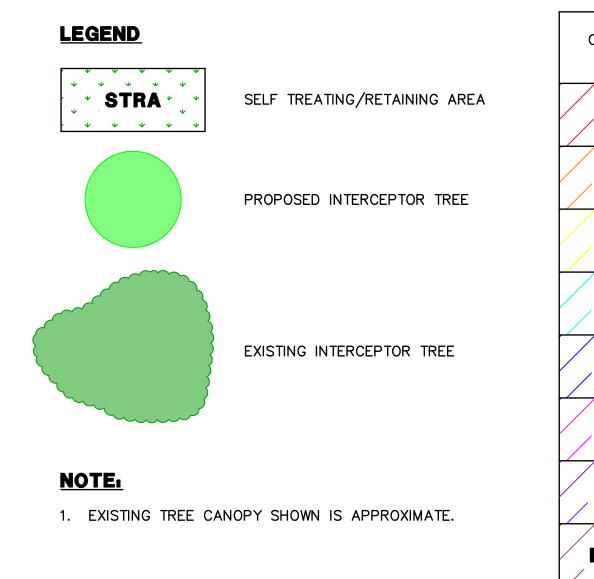




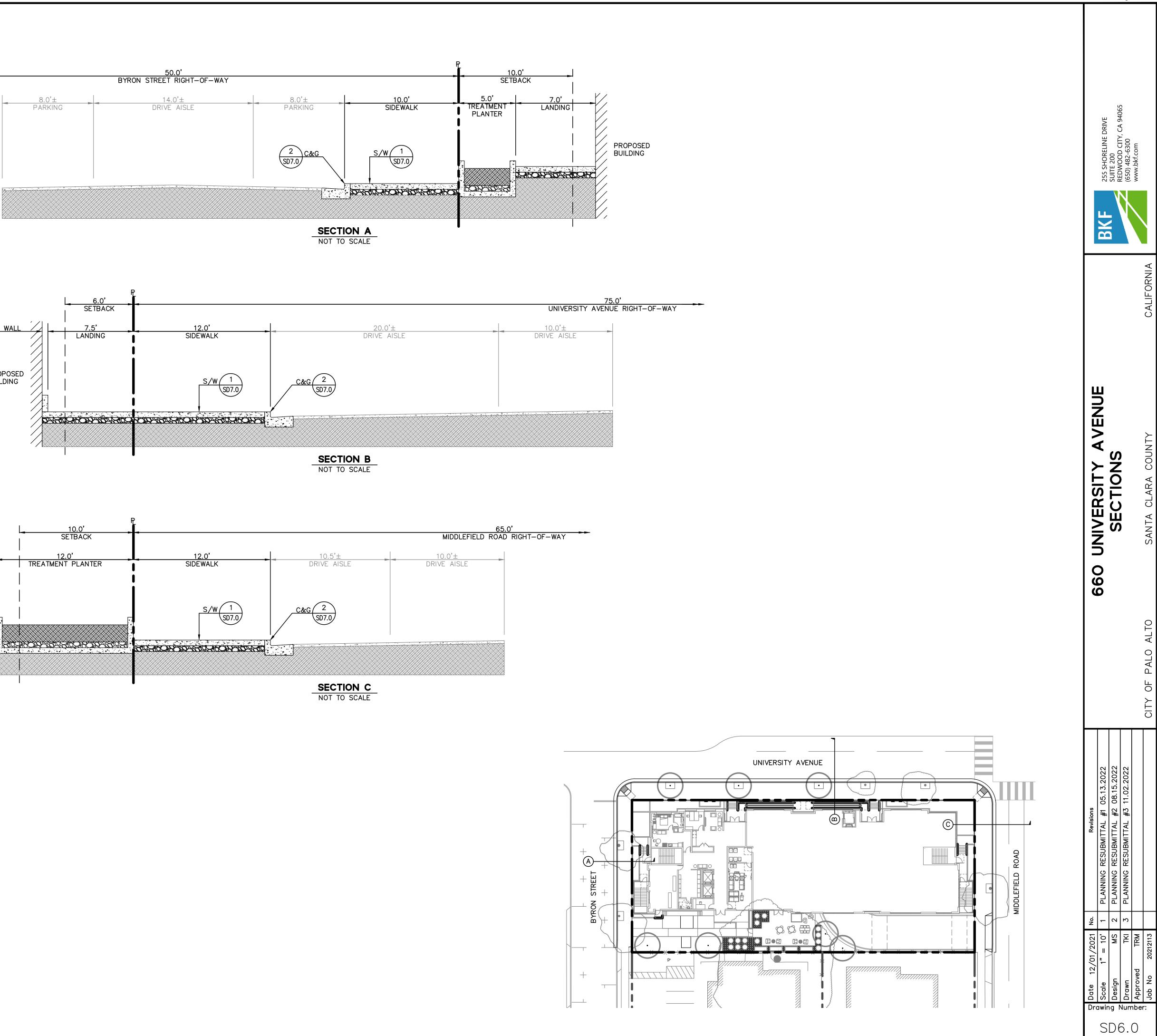
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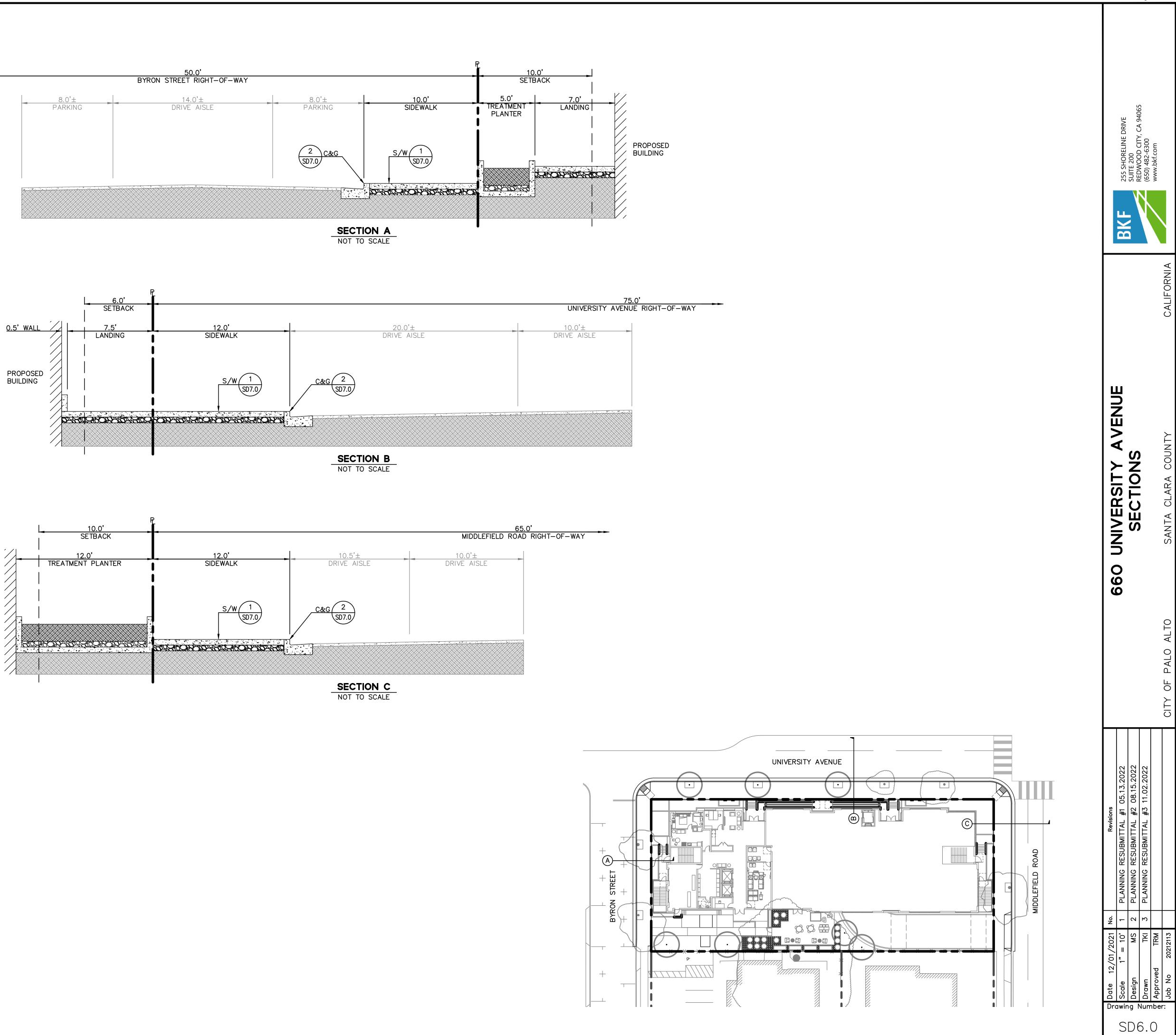


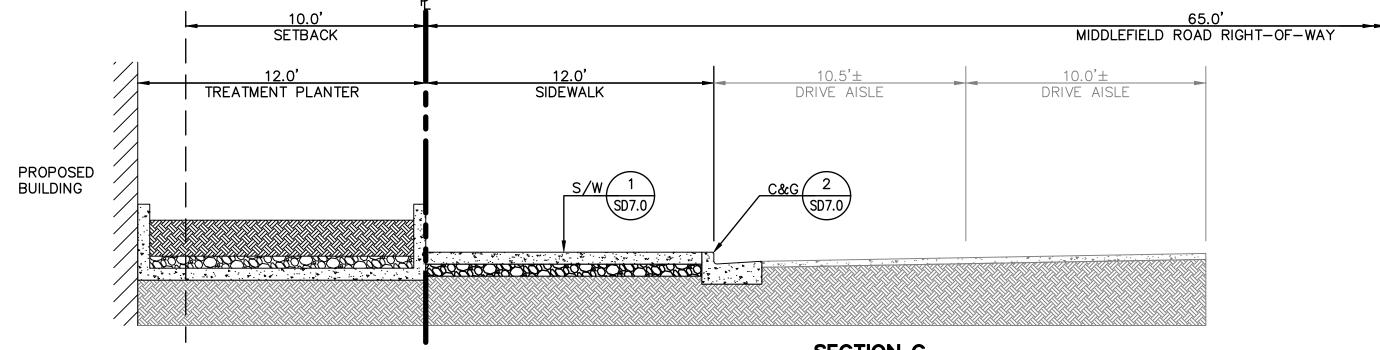




CATCHMENT ID	CATCHMENT AREA	NUMBER OF PROPOSED TREES	PROPOSED TREE CREDIT	EXISTING TREE CREDIT	CATCHMENT AREA W/TREE CREDIT	BIO– RETENTION AREA	TREATMENT AREA	TREATMENT AREA REQUIRED	MEETS REQUIREMENT?
DMA 1	13,351 SF	-	-	-	13,351 SF	1	882 SF	534 SF	YES
DMA 2	2,223 SF	-	_	_	2,223 SF	2	90 SF	88 SF	YES
DMA 3	311 SF	_	-	500 SF	0 SF	N/A	N/A	N/A	N/A
DMA 4	356 SF	-	_	720 SF	0 SF	N/A	N/A	N/A	N/A
DMA 5	779 SF	3	300 SF	634 SF	0 SF	N/A	N/A	N/A	N/A
DMA 6	582 SF	-	_	790 SF	0 SF	N/A	N/A	N/A	N/A
DMA 7°	942 SF	2	200 SF	742 SF	0 SF	N/A	722 SF	371 SF	YES
DMA 8**	741 SF	_	_	_	741 SF	N/A	N/A	N/A	N/A







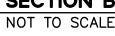
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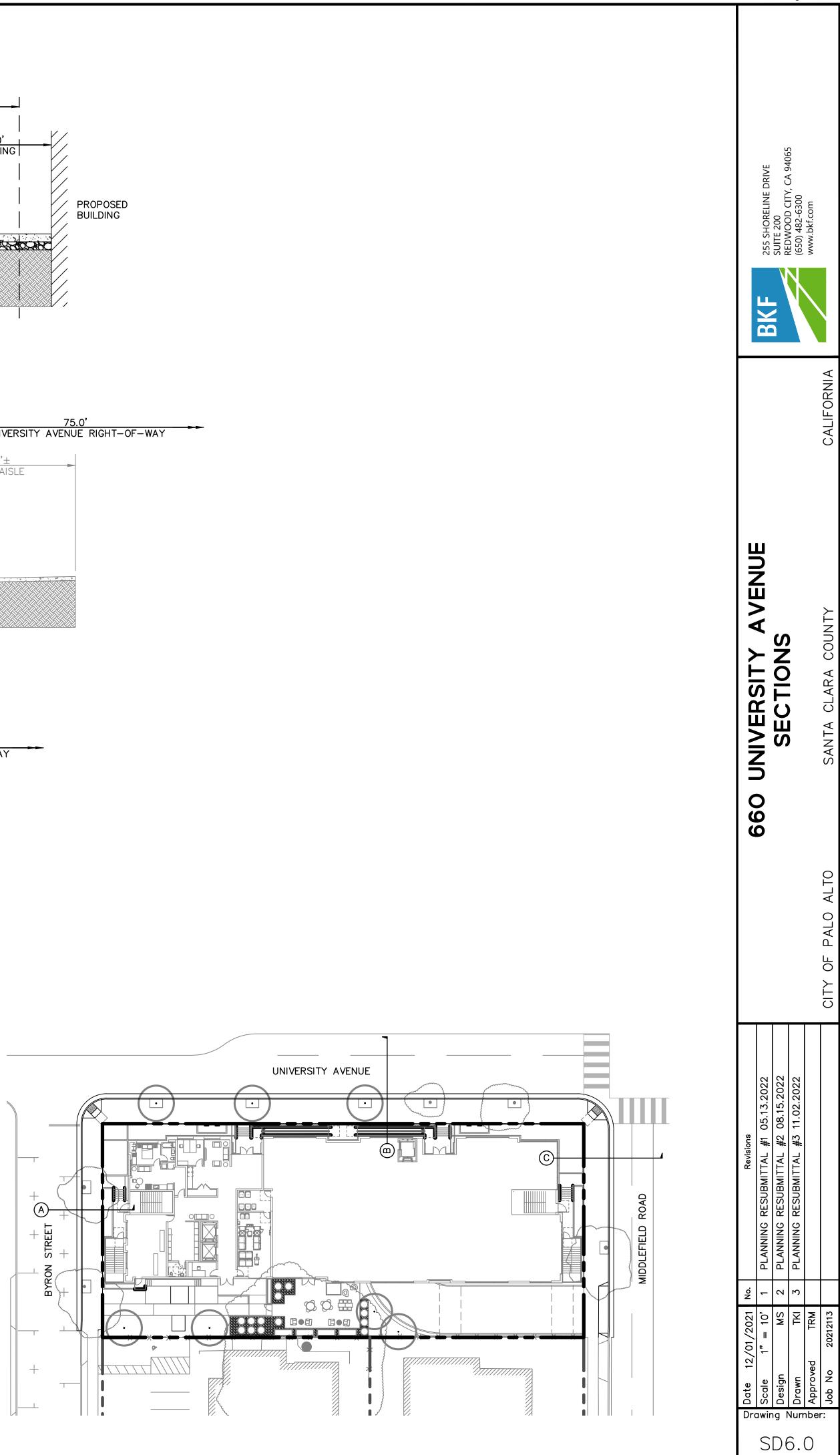
### **ABBREVIATIONS**

C&G L/S S/W

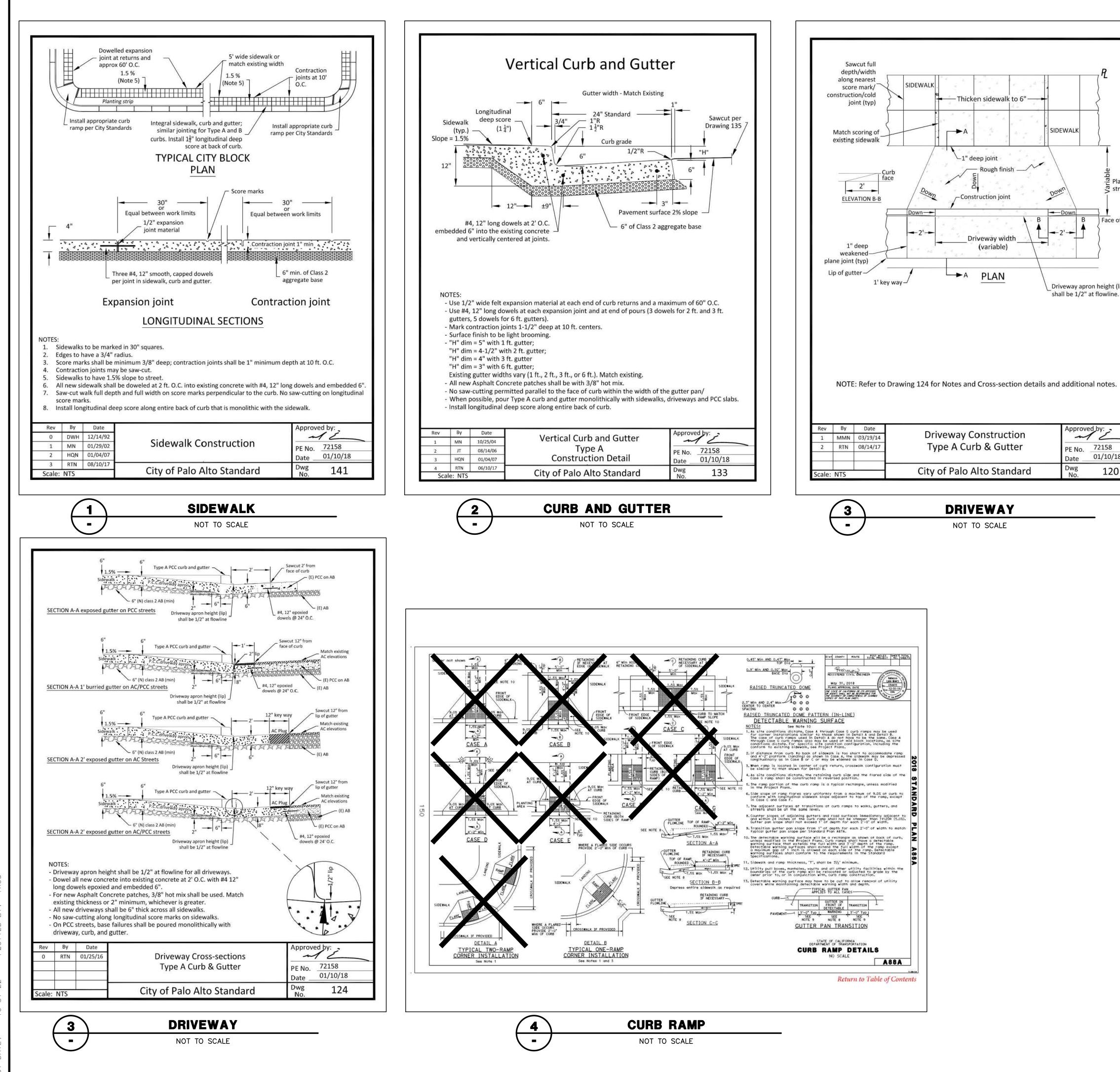
CURB AND GUTTER LANDSCAPE SIDEWALK





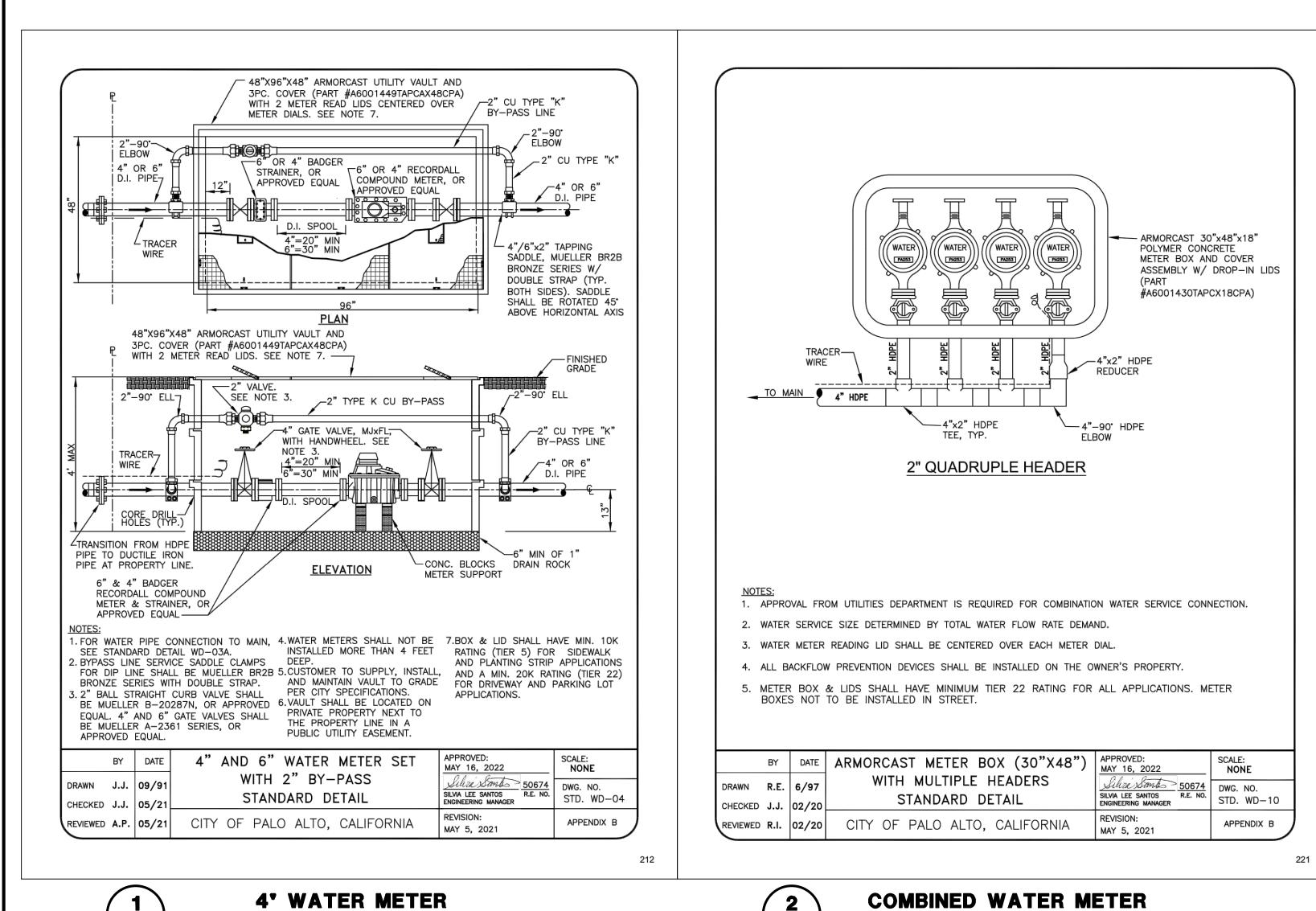


$\bigcirc$	BKF	Engineers
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Inter jp f curb	A BKF 255 SHORELINE DRIVE SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300 www.bkf.com
ip)	CALIFORNIA
	660 UNVERSITY AVENUE DETAILS LTO SANTA CLARA COUNTY
	CITY OF PALO ALTO
	$ \begin{array}{c cccc} \mbox{Date } 12/01/2021 & \mbox{No.} & \mbox{Revisions} \\ \mbox{Scale } 1" = 10' & 1 & \mbox{PLANNING RESUBMITTAL } #1 05.13.2022 \\ \mbox{Design } MS & 2 & \mbox{PLANNING RESUBMITTAL } #2 08.15.2022 \\ \mbox{Ommon } TKI & 3 & \mbox{PLANNING RESUBMITTAL } #3 11.02.2022 \\ \mbox{Approved } TRM & & & & & & & & & & & & & & & & & & &$



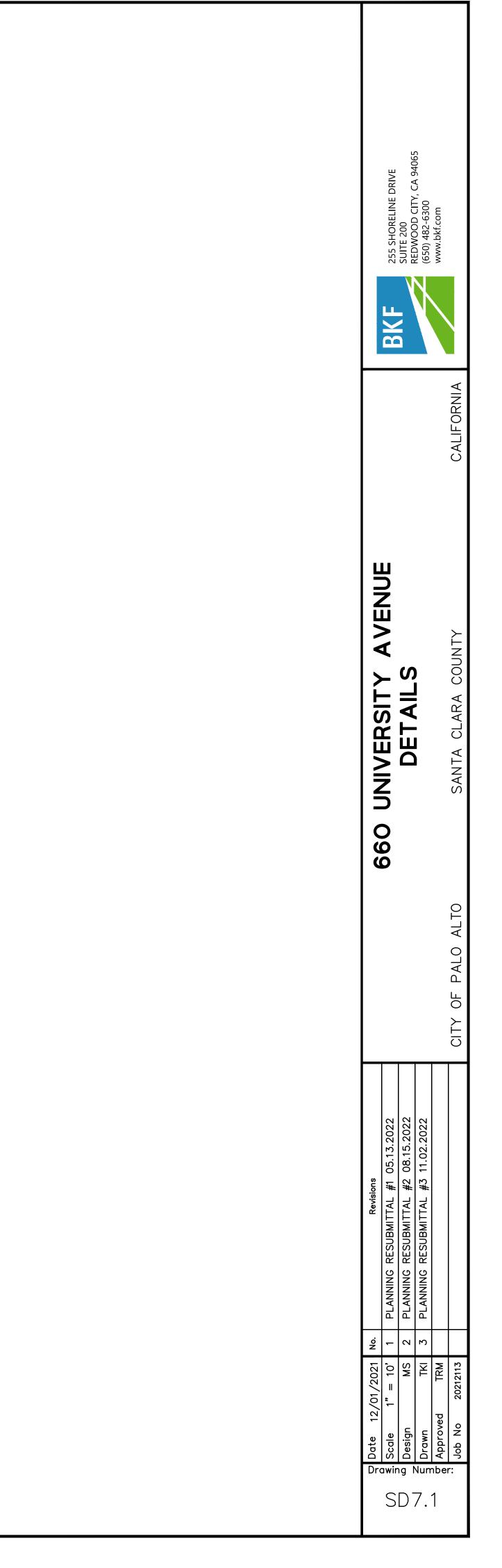
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### **COMBINED WATER METER**

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<u>WORK</u> JO	<u>RESPONSIBILITY</u> INT TRENCH	× RIC	16. WATER
		) CPAU ELECTRIC ) CPAU GAS ) TELEPHONE ) C.A.T.V. ) CONTRACTOR	HEAVIE FOUR (SOIL
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TELEPHONE SPLICE BOXES SUPPLY & INSTALL FXCAVATION			10. CONDU CONDU
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	THE RESPECTIVE CONTRACTOR & UTIL		2. PRIMA
ASSUME CONTRACTOR RESPONS NOT APPLICABLE UNLESS OTHE	SIBILITY UNLESS OTHERWISE SPECIFIED RWISE SPECIFIED	)	<ol> <li>THE F</li> <li>APPLIC</li> </ol>
* CPAU TO PULL CABLE INTO EN NOTE: FOR A MORE DETAILED	IERGIZED ENCLOSURES WORK RESPONSIBILITY BREAKDOWN, S	EE CORRESPONDING MATERIAL LIST.	SUBST 5. NO ST
THESE PLANS WERE PREPARE	ED IN CONJUNCTION WITH THE	FOLLOWING PLANS:	6. THE C FACILI
CIVIL IMPROVEMENT PLANS/GRA		PPROVED ELIMINARY	7. APPLIC SHALL
ARCHITECTURAL ELECTRONIC FI APPLICANT DESIGN (GAS)	LE 10-25-2022 PRI	ELIMINARY	8. ANY E CUSTC
APPLICANT DESIGN (ELECTRIC) TELEPHONE	06-03-2022 PR	ELIMINARY	
C.A.T.V. LANDSCAPE	10-27-2022 PRI	ELIMINARY	
LIGHT LOCATIONS TRAFFIC SIGNAL LOCATIONS			1
RADIUS DESIGN is n	ot responsible for any		BEDDING
subsequent changes of the subsequent changes	<i>or revisions.</i> XIMATE AND BASED ON FIELD SURVE	( AND AVAILABLE	
	NTRACTORS' RESPONSIBILITY TO VERIF THE COMMENCEMENT OF WORK. PHY	SICAL VERIFICATION OF	<u> </u>
UTILITY LOCATIONS SHALL BE PERFO	RMED BY CAREFUL PROBING OR HAN HE CAL/OSHA CONSTRUCTION SAFETY		

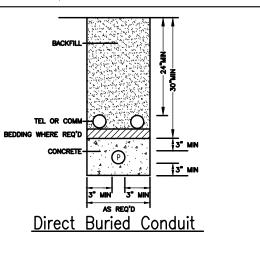
### DESIGN ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THESE DRAWINGS WERE PREPARED USING UPPLIED BY CPA, TELEPHONE, C.A.T.V., IMPROVEMENT PLANS AND THE CITY'S VARIOUS "AS BUILT" INFORMATION. L BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY REVIEW THE PROJECT PRIOR TO SUBMITTING HIS BID. CTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH INDUSTRIAL SAFETY ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING NEAR ENERGIZED T" EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER. PUBLIC AND TRAFFIC CONTROL MEASURES ARE THE CONTRACTOR'S RESPONSIBILITY. INTRACTOR SHALL PROTECT CONSTRUCTION STAKING. HE SHALL COORDINATE STAKING WITH THE PROJECT'S CIVIL CTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS PRIOR TO START OF WORK. (800) ACTOR SHALL NOTIFY INSPECTORS OF ANY POTENTIAL CONFLICTS PRIOR TO START OF WORK. LAN IS TO BE USED FOR SOLE PURPOSE OF DIGGING THE JOINT TRENCH. SEE CPA, AT&T, AND COMCAST PLANS XACT SIZE AND NUMBER OF CONDUITS INSTALLED IN THE JOINT TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY SURE THE CORRECT NUMBER, SIZE AND TYPES OF CONDUITS ARE INSTALLED PER THE ENGINEERED PLANS BY TILITY COMPANY PLANS ISSUED AT THE PRE-CONSTRUCTION MEETING MAY BE SUBJECT TO REVISIONS, IF FINAL PLANS FROM EACH COMPANY WERE NOT AVAILABLE AT THE START OF CONSTRUCTION. SEWER, DRAINS, SANITARY WASTE, FUELS (INCLUDING DIESEL AND GASOLINE), OIL, PROPANE AND OTHER VOLATILE R THAN AIR GASES, SPRINKLER, IRRIGATION, STEAM AND OTHER "WET" FACILITIES SHALL MAINTAIN A MINIMUM OF TEET FROM THE NEAREST OUTER SURFACE OF CPA DRY FACILITIES WITH NO LESS THAN ONE FOOT OF EARTH BARRIER) BETWEEN THE ADJACENT SIDES OF THE INDIVIDUAL TRENCHES. EXTRAORDINARY CASE THAT THE MINIMUM FOUR FOOT HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN TILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY APPROVED BY THE LOCAL INSPECTION SUPERVISOR AND ED TO SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL. OINT TRENCH PLAN WAS PREPARED BASED ON TOPOGRAPHICAL SURVEY AS PROVIDED BY A CIVIL ENGINEER. THE ACTOR IS CAUTIONED THAT EXPLORATORY WORK IS NECESSARY TO DETERMINE THE ACTUAL LOCATION OF ANY IG UTILITY. RADIUS STRONGLY RECOMMENDS THAT ALL UTILITIES BE PHYSICALLY LOCATED ON THE SITE BEFORE TH OF SITE WORK. SUBSTRUCTURE LOCATIONS MAY REQUIRE FIELD ADJUSTMENT TO COMPENSATE FOR ACTUAL GUTILITY LOCATIONS. <u>IIT NOTES</u> BURIED PRIMARY CONDUIT IS NOT AN APPROVED CONSTRUCTION METHOD. PRIMARY CONDUITS SHALL BE TE ENCASED, UNLESS OTHERWISE APPROVED BY CPAU UTILITIES ENGINEER. APPROVED CONDUIT MATERIALS: HEDULE 40 PVC PE "DB 60" (SECONDARY) OR "DB 120" (PRIMARY) PLASTIC CONDUIT VANIZED RIGÌD STEEL CÓNDUIT. EFFORT MUST BE MADE TO OBTAIN STRAIGHT WATER-TIGHT CONDUIT LINE. TURNS MUST BE AVOIDED, PER THE TABLE BELOW. NORMALLY, THE PRIMARY DUCT RADIUS IS SPECIFIED. UNLESS /ED BY THE PROJECT ENGINEER, FACTORY OFFSETS WILL NOT BE USED. NDS AND SWEEPS (90 DEGREES) MUST BE ENCASED IN CONCRETE (MINIMUM 3") ALONG THE INSIDE RADIUS. ELECTRIC UNDERGROUND INSPECTOR DETERMINES THAT THE BOTTOM OF THE TRENCH IS ROCKY, THEN A 2" SAND MUST BE INSTALLED BEFORE CONDUIT. L IN UNIMPROVED AREAS SHALL BE 12" OF CLEAN NATURAL SAND PER CALTRANS STD SPECS SEC 19–3.025B P OF THE UPPERMOST CONDUIT, 90% COMPACTION; TOPPED WITH EXCAVATED NATIVE SOIL, 85% COMPACTION. LL IN IMPROVED AREAS MUST BE IN ACCORDANCE WITH CITY OF PALO ALTO STANDARD SPECIFICATIONS FOR LLING IN IMPROVED AREAS. (SECTION 21) NDUITS MUST BE MANDRELLED (STD. DWG DT-SS-U-1025). THIS TEST MUST BE WITNESSED BY THE ELECTRIC GROUND INSPECTOR. POLYPROPYLENE PULL LINE (MIN. 150 LBS. TEST) MUST BE INSTALLED IN EACH CONDUIT. SPACING SHALL BE MAINTAINED BY SPACERS, APPROVED BY CPA, INSTALLED NO MORE THAN 7' APART. MUST BE SECURELY BOUND TO THE SPACERS. M COVER FOR DIRECT BURIED CONDUIT: ONDARY (NOT TRAFFIC) MUNICATION (NOT TRÁFFIC) CONDARY (TRAFFICE) IMUNICATIÒN (TRAFFIC) BE REDUCED TO 18" FOR SECONDARY UNDER SIDEWALKS, WITH THE PROJECT ENGINEER'S APPROVAL. NTAL SPACING BETWEEN SECONDARY, COMMUNICATION, TELEPHONE, AND STREET LIGHTING CABLES OR DUCTS MAY NDOM UNLESS OTHERWISE SPECIFIED. RY CASE, VERTICAL CLEARANCE BETWEEN ELECTRIC LINES AND UTILITY LINE CROSSINGS MUST BE AT LEAST 12". RIMARY CONDUIT IS NO LONGER AN APPROVED CONSTRUCTION METHOD. RIC UTILITIES DEPARTMENT COMMENTS & CONDITIONS ECTRICAL VAULT INSTALLATIONS, REMOVALS AND RELOCATION'S SHALL BE AT CUSTOMER/DEVELOPER'S EXPENSE. Y CONDUIT SHALL BE CONCRETE ENCASED PER CPA REQUIREMENTS. VAL JOINT TRENCH AND VAULT DETAILS MUST BE APPROVED BY THE CITY'S ELECTRICAL ENGINEERING DEPARTMENT ANT SHALL NOTIFY THE ELECTRIC UTILITY INSPECTOR PRIOR TO CONSTRUCTION OF ANY ELECTRICAL UTILITY RUCTURES PERMITTED TO BE BUILT WITHIN EXISTING PUBLIC UTILITY EASEMENTS. BE INSPECTED BY THE ELECTRICAL UTILITY INSPECTOR PRIOR TO BACKFILLING TENSION OR RELOCATION OF EXISTING DISTRIBUTION LINES OR EQUIPMENT SHALL BE DONE AT IER/DEVELOPER'S EXPENSE. _____ ELECTRIC CONDUIT BACKFILL MINIMUM BEND RADIUS FOR NEW CONSTRUCTION SERVICE CONDUIT DIAMETER | VERTICAL RADIUS |HORIZONTAL RADIUS

RUCTION NOTES

- DT HINDER THOSE EFFORTS.
- IS NOT ROCK FREE, ADD 4" DEPTH OF TRENCH FOR SAND BEDDING.
- SPLICE BOX EXCAVATION SIZES WITH SUPPLIER(S).
- ENCHING CONTRACTOR SHALL COORDINATE THE UTILITY COMPANIES' INSTALLATION.

- E TRENCHING CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE ALL EXISTING FACILITIES. NO EXTRA T WILL BE CONSIDERED FOR CROSSING OTHER SYSTEMS.

- NTRACTOR SHALL MAINTAIN 12" CLEAR, ABOVE AND BELOW FROM THE EXISTING UTILITIES TO NEW UNDERGROUND ANTS SHALL PROVIDE PROTECTION FOR UTILITY LINES SUBJECT TO DAMAGE. EXPOSED ELECTRIC CONDUIT OR DUCT

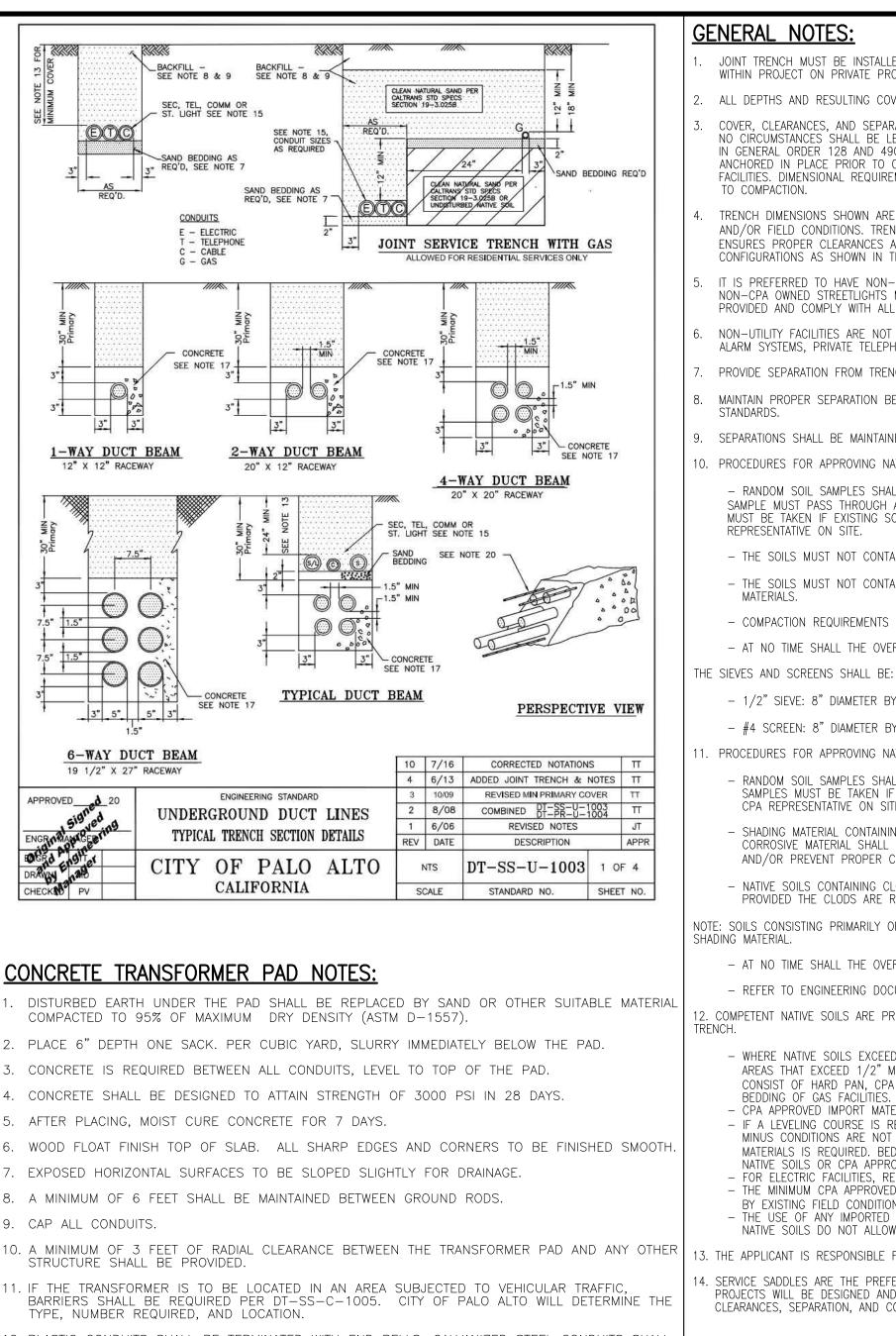


NO MORE THAN 270 DEGREES OF BENDS ARE ALLOWED BETWEEN PULL BOXES IN A SECONDARY CONDUIT RUN. NO MORE THAN 180 DEGREES OF BENDS ARE ALLOWED BETWEEN PULL BOXES IN A PRIMARY CONDUIT RUN.

ENCHING, BACKFILLING AND INSTALLATION BY CONTRACTOR MUST COMPLY WITH CITY OF PALO ALTO STANDARDS. NRK MUST COMPLY WITH CITY OF PALO ALTO(CPA), TELEPHONE, C.A.T.V., STANDARDS AND PRACTICES. ALL WORL BE INSPECTED AND APPROVED BY RESPECTIVE INSPECTORS. RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A 1 OF THREE LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A m %" SIEVE AN JST PASS THROUGH A #4 SCREEN. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE TO BE AT THE DISCRETION OF THE CPA REPRESENTATIVE ON SITE. THE SOILS MUST NOT CONTAIN ANY ROCKS AVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. THE SOILS MUST NOT CONTAIN CLODS LARGER THAN O BE USED AS SHADING, BEDDING OR LEVELING MATERIALS. COMPACTION REQUIREMENTS MUST MEET ANY BLE CPA FEDERAL, STATE, COUNTY OR LOCAL REQUIREMENTS. ANY NATIVE SOILS OR IMPORT MATERIALS USED

L SHALL BE APPROVED BY THE UTILITY COMPANIES AND THE CITY. COMPACTION WILL BE TESTED AND PASSED SOILS ENGINEER.

CTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK



12. PLASTIC CONDUITS SHALL BE TERMINATED WITH END BELLS. GALVANIZED STEEL CONDUITS SHALL BE TERMINATED WITH GROUND BUSHINGS. ALL CONDUITS AND ENDS WILL BE TO THE FINAL GRADE OF THE PAD.

- 13. PRIMARY CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 36".
- 14. PRIMARY CONDUITS SHALL BE LOCATED IN THE LEFT HALF OF THE CONDUIT OPENING. SECONDARY CONDUITS SHALL OCCUPY THE RIGHT HALF.

15. THE TRANSFORMER PAD SHALL BE LOCATED A MINIMUM OF 3 FEET FROM ANY BUILDING OR OVFRHANG

- 6. ALL REBAR SHALL BE A-615 GRADE 40. REBAR JOINTS SHALL BE FIRMLY AND SECURELY HELD IN POSITION BY WIRING AT INTERSECTIONS WITH NO. 16 GAGE WIRE. 7. MAXIMUM NUMBER OF CONDUITS ENTERING SECONDARY SLOT SHALL BE FOUR. CONTACT THE
- ELECTRIC UTILITY PROJECT ENGINEER FOR DESIGN WITH MORE THAN FOUR SECONDARY.
- 18. GROUND ROD AND CLAMP, 5/8"X8'. SEE CPA STANDARD DRAWING #DT-SS-U-1001. 19. TRANSFORMER ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- EXPANSION BOLT SHALL BE "PARABOLT" BY MOLY OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTH AND EDGE DISTANCE SHALL MEET THE MANUFACTURER'S REQUIREMENTS.

20. A MINIMUM OF 8 FEET CLEARANCE SHALL BE MAINTAINED FROM THE FRONT SIDE OF THE PAD. A MINIMUM OF 3 FEET CLEARANCE SHALL BY MAINTAINED ON UNOPERABLE SIDES AND BACK. ALL MEASUREMENTS ARE TAKEN FROM THE PAD.

### OTHER NOTES

FIELD CONDITIONS.

- EASEMENTS MUST BE GRANTED TO THE CITY OF PALO ALTO FOR SWITCH, TRANSFORMERS, AND CONDUIT ON-SIITE.
- 2. ELECTRIC METERS MUST BE IN AN AREA READILY ACCESSIBLE TO CAPU DURING ALL HOURS. 3. UTILITY VAULTS, TRANSFORMERS, UTILITY CABINETS, CONCRETE BASES, OR OTHER STRUCTURES CAN NOT BE PLACED OVER EXISTING WATER, GAS OR WASTEWATER MAIN/SERVICES. MAINTAIN 1 HORIZONTAL CLEAR SEPARATION FROM THE VAULT/CABINET/CONCRETE BASE TO EXISTING UTILITIES AS FOUND IN THE FIELD. IF THERE IS A CONFLICT WITH EXISTING UTILITIES,

CABINETS/VAULTS/BASES SHALL BE RELOCATED FROM THE PLAN LOCATION AS NEEDED TO MEET

UTILITY

PG&E GAS

AT&T (PHONE)

COMCAST (CATV)

CITY ENGINEER

PG&E ELECTRIC

JOINT TRENCH MUST BE INSTALLED ENTIRELY WITHIN AN EASEMENT. EASEMENTS FOR JOINT TRENCH SERVICE LATERALS WITHIN PROJECT ON PRIVATE PROPERTY ARE AT THE DISCRETION OF THE UTILITY COMPANIES. . ALL DEPTHS AND RESULTING COVER REQUIREMENTS ARE MEASURED FROM FINAL GRADE.

COVER, CLEARANCES, AND SEPARATION SHALL BE AS GREAT AS PRACTICABLE UNDER THE CIRCUMSTANCES, BUT UNDER NO CIRCUMSTANCES SHALL BE LESS THAN THE MINIMUM COVER, CLEARANCE, AND SEPARATION REQUIREMENTS SET FORTH IN GENERAL ORDER 128 AND 49CFR 192.321, 49CFR 192.325, AND 49CFR 192.327. ALL FACILITIES SHALL BE ANCHORED IN PLACE PRIOR TO COMPACTION, OR OTHER MEANS SHALL BE TAKEN TO ENSURE NO MOTION OF THE FACILITIES. DIMENSIONAL REQUIREMENTS FOR SHADING, LEVELING, AND BACKFILLING SHALL BE DETERMINED SUBSEQUENT

TRENCH DIMENSIONS SHOWN ARE TYPICAL. TRENCH SIZES AND CONFIGURATIONS MAY VARY DEPENDING UPON OCCUPANCY AND/OR FIELD CONDITIONS. TRENCH SIZE AND CONFIGURATION MUST AT ALL TIMES BE CONSTRUCTED IN A MANNER THAT ENSURES PROPER CLEARANCES AND COVER REQUIREMENTS ARE MET. ANY "CHANGE" TO THE TRENCH WIDTH AND CONFIGURATIONS AS SHOWN IN THIS EXHIBIT MUST BE DESIGNED TO ENSURE THIS REQUIREMENT.

IT IS PREFERRED TO HAVE NON-CPA OWNED STREETLIGHTS AT A LEVEL OTHER THAN THE GAS OR ELECTRIC LEVEL. NON-CPA OWNED STREETLIGHTS MAY BE AT THE ELECTRIC LEVEL OF THE TRENCH AS LONG AS MINIMUM CLEARANCES ARE PROVIDED AND COMPLY WITH ALL SPECIAL NOTES FOR A JOINT TRENCH WITH A SECOND ELECTRIC UTILITY.

NON-UTILITY FACILITIES ARE NOT ALLOWED IN ANY JOINT UTILITY TRENCH, E.G., IRRIGATION CONTROL LINES, BUILDING FIRE ALARM SYSTEMS, PRIVATE TELEPHONE SYSTEMS, OUTDOOR ELECTRICAL CABLE, ETC. PROVIDE SEPARATION FROM TRENCH WALL AND OTHER FACILITIES SUFFICIENT TO ENSURE PROPER COMPACTION.

MAINTAIN PROPER SEPARATION BETWEEN CPA FACILITIES AND "WET" UTILITY LINES AS DESCRIBED IN CITY OF PALO ALTO

SEPARATIONS SHALL BE MAINTAINED AT ABOVEGROUND TERMINATION POINTS.

10. PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING OF CPA GAS FACILITIES:

- RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A 1/2" SIEVE AND 75% MUST PASS THROUGH A #4 SCREEN. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE CPA

- THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. - THE SOILS MUST NOT CONTAIN CLODS LARGER THAN 1/2" IF TO BE USED AS SHADING, BEDDING, OR LEVELING

- COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE CPA, FEDERAL, STATE, COUNTY, OR LOCAL REQUIREMENTS. - AT NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS.

- 1/2" SIEVE: 8" DIAMETER BY 2" DEEP, STAINLESS STEEL MESH SCREEN.

- #4 SCREEN: 8" DIAMETER BY 2" DEEP, STAINLESS STEEL MESH SCREEN.

PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING AT CPA ELECTRIC FACILITIES:

- RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE CPA REPRESENTATIVE ON SITE.

- SHADING MATERIAL CONTAINING LARGE ROCK, PAVING MATERIAL, CINDERS, SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE PLACED IN THE TRENCH WHERE SUCH MATERIAL MAY DAMAGE THE CONDUITS AND/OR PREVENT PROPER COMPACTION OVER OR AROUND THE CONDUITS.

 $\cdot$  NATIVE SOILS CONTAINING CLODS NOT TO EXCEED 6" IN DIAMETER MAY BE INCLUDED IN THE SHADING MATERIAL PROVIDED THE CLODS ARE READILY BREAKABLE BY HAND.

NOTE: SOILS CONSISTING PRIMARILY OF ADOBE, HARD COMPACT (DENSE) CLAY, AND BAY MUDS SHALL NOT BE USED AS

- AT NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS.

- REFER TO ENGINEERING DOCUMENT 062288, ITEM 13 ON PAGE 2. . COMPETENT NATIVE SOILS ARE PREFERRED TO BE USED FOR SHADING, BEDDING, AND BACKFILLING THROUGHOUT THE

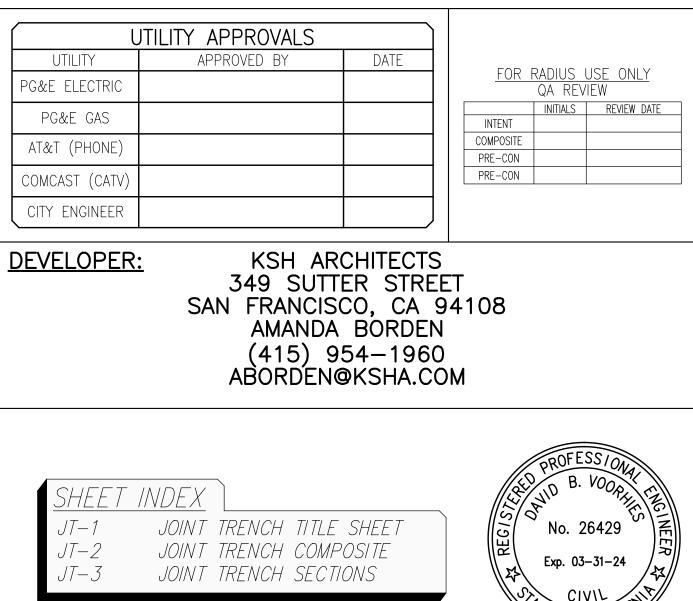
 $\cdot$  where native soils exceed 1/2" minus and/or where gas is to be placed at the bottom of a trench in AREAS THAT EXCEED 1/2" MINUS SOIL CONDITIONS, OR WHERE THE BOTTOM OF A TRENCH IS CONSIDERED TO CONSIST OF HARD PAN, CPA APPROVED 1/2" MINUS IMPORT MATERIAL SHALL BE USED FOR SHADING AND/OR

- CPA APPROVED IMPORT MATERIAL IS PER CGT ENGINEERING GUIDELINE 4123. - IF A LEVELING COURSE IS REQUIRED FOR GAS FACILITIES, THE USE OF NATIVE SOILS IS PREFERRED, BUT IF 1/2" MINUS CONDITIONS ARE NOT ATTAINABLE WITH THE NATIVE SOILS, THEN THE USE OF CPA APPROVED IMPORT MATERIALS IS REQUIRED. BEDDING UNDER GAS FACILITIES WILL BE A MINIMUM OF 2" OF COMPACTED 1/2" MINUS NATIVE SOILS OR CPA APPROVED IMPORT MATERIAL.

- FOR ELECTRIC FACILITIES, REFER TO NOTE 12. THIS APPLIES TO LEVELING COURSES AS WELL AS SHADING. - THE MINIMUM CPA APPROVED BEDDING MATERIAL MAY BE INCREASED AT THE DISCRETION OF CPA WHEN WARRANTED BY EXISTING FIELD CONDITIONS (E.G., ROCKY SOILS, HARD PAN, ETC.) - THE USE OF ANY IMPORTED MATERIAL FOR BACKFILLING PURPOSES SHALL BE LIMITED TO THOSE SITUATIONS WHEN NATIVE SOILS DO NOT ALLOW FOR REQUIRED COMPACTION.

13. THE APPLICANT IS RESPONSIBLE FOR THE REMOVAL OF EXCESS SPOIL AND ASSOCIATED COSTS.

4. SERVICE SADDLES ARE THE PREFERRED SERVICE FITTINGS FOR USE THROUGHOUT THE JOINT TRENCH PROJECT. ALL PROJECTS WILL BE DESIGNED AND ESTIMATED USING SERVICE SADDLES. HOWEVER, SERVICE TEES MAY BE USED IF ALL CLEARANCES, SEPARATION, AND COVERAGE REQUIREMENTS ARE MAINTAINED.



· OF CAL'

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301





UTILITY DESIGN CONSULTANTS & ENGINEERS 1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596 Tel (925) 269-4575

NO. DATE

12.01.21

DESCRIPTION	
PLANNING SUBMITTAL	
	,

**ISSUES AND REVISIONS** 

05.13.22	PLANNING RESUBMITTAL #1
08.15.22	PLANNING RESUBMITTAL #2
11.02.22	PLANNING RESUBMITTAL #3

<b>PRO IECT</b>	NUMBER
TROULOT	
	21003

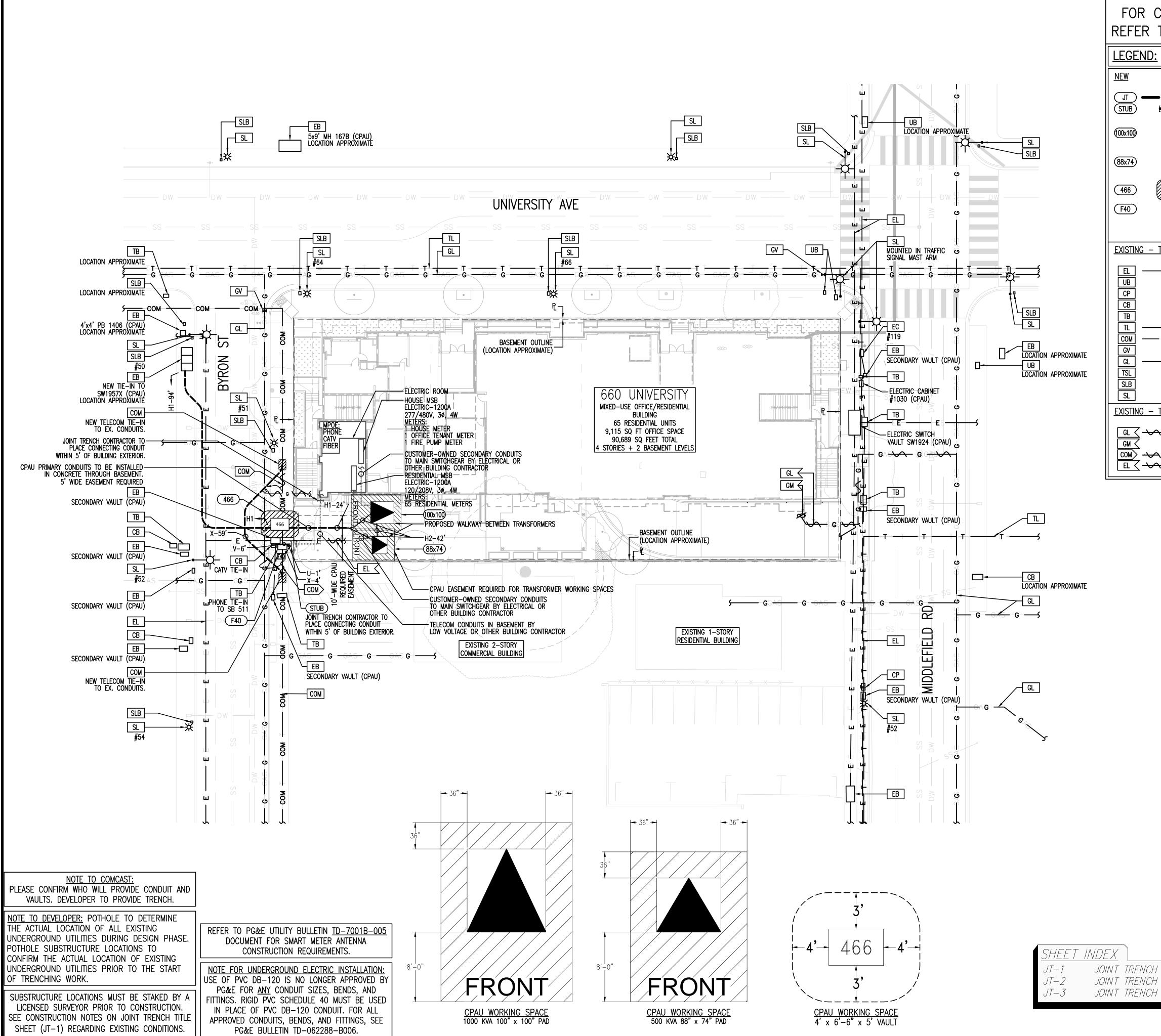
SHEET TITLE JOINT TRENCH TITLE SHEET



N.T.S

SCALE





# NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-1)

<u>W</u>		
л <b>—</b> тив	— — — [— —	• JOINT TRENCH STUB LOCATION
0x100	FRONT	100" x 100" TRANSFORMER PAD (CPAU). MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER PAD.
3x74)	FROMT	88" x 74" TRANSFORMER PAD (CPAU). MAINTAIN 30' UNOBSTRUCTED OVERHEAD CLEARANCE OVER PAD.
466	466	CPA-466 4' x 6'-6" x 5' PRIMARY SPLICE VAULT (CPAU)
40	F40	24" x 36" x 18" SPLICE BOX (C.L.E.C.)

### <u>EXISTING – TO REMAIN</u>

EL	— Е —	ELECTRIC LINE
JB		UTILITY BOX
CP		CATV PEDESTAL
СВ		CATV BOX
TB		PHONE BOX
TL	— т —	PHONE LINE
MO	— сом —	COMMUNICATIONS LINE
GV	M	GAS VALVE
GL	G	GAS LINE
TSL	ъф	TRAFFIC SIGNAL LIGHT
SLB		STREET LIGHT BOX
SL	<del>-</del> ф-	STREET LIGHT
ISTIN	IG – TO BE REMO	VED OR RELOCATED
	7	

<u>a                                    </u>	$\sim$ Gas line to be removed
<u>GM (                                   </u>	GAS METER TO BE REMOVED
ом∕ -∽ сом ∽	$\sim$ · communications line to be relocated
EL <	$\sim$ electric line to be removed

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301





UTILITY DESIGN CONSULTANTS & ENGINEERS 1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596 Tel (925) 269-4575

### ISSUES AND REVISIONS DESCRIPTION

DATE	
12.01.21	
05.13.22	
08.15.22	
	05.13.22

11.02.22

PLANNING SUBMITTAL
PLANNING RESUBMITTAL #1
PLANNING RESUBMITTAL #2
PLANNING RESUBMITTAL #3

# PROJECT NUMBER 21003

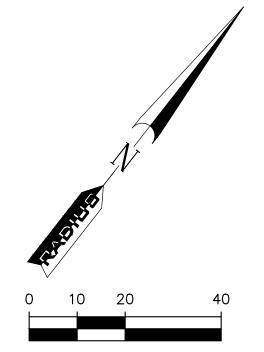
SHEET TITLE JOINT TRENCH COMPOSITE

> SCALE 1' = 20"



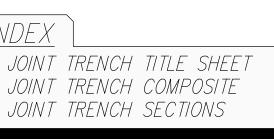
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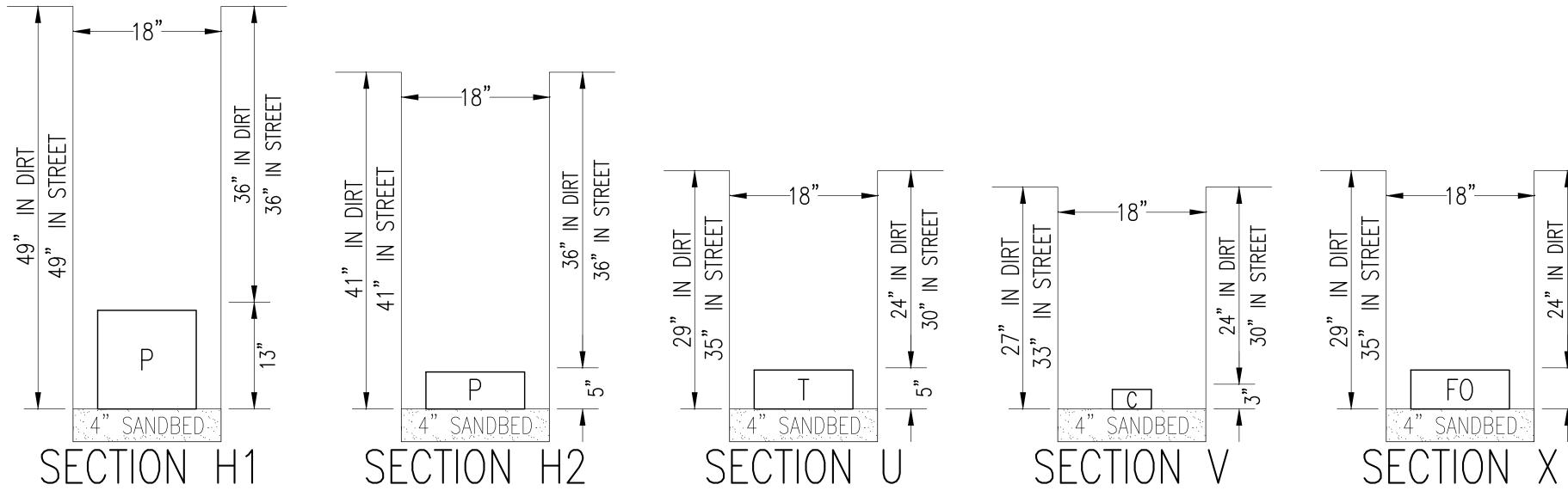




No. 26429

Exp. 03-31-24





TRENCH OCCUPANCY GUID	
SECTION G T C S P OTHER	
A*† X X X X X	
B*† X X X X	
C* X X X X	
D*t X X X X	
E* X X X	
F*† X X X	
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J † X X	
K X X	_ CONTRACTOR NOTES:
	1. THE SYMBOLS PISITIC GIFO INDICATE OCCUPANCY ONLY.
M ⁺ X X X X	- 1. THE SYMBOLS P S T C G FO INDICATE OCCUPANCY ONLY. SEE ELECTRIC, GAS, CATV, TELEPHONE, AND FIBER OPTIC PLANS
N† X X X	- FOR EXACT SIZE AND NUMBER OF CONDUITS.
P† X X X	2. THIS PLAN IS TO BE USED AS A GUIDE FOR TRENCHING WIDTH
	AND DEPTH AND NOT CONDUIT INSTALLATION.
R† X X	
	3. CONTRACTOR TO PROVIDE SEPARATION FROM TRENCH WALL AND
	OTHER FACILITIES SUFFICIENT TO ENSURE PROPER COMPACTION.
, , , , , , , , , , , , , , , , , , , ,	4. CONTRACTOR TO INCLUDE INCIDENTAL TRENCHING IN SPLICE BOX,
W     X       X†     X	VAULT, OR TRANSFORMER EXCAVATION IN AREAS WHERE NO
	ENTRANCE OR EXIT OF TRENCH IS SHOWN.
*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY CONDUIT	
THESE SECTIONS MAY OR MAY NOT CONTAIN	5. UTILITY COMPANIES RESERVE THE RIGHT TO MAKE FIELD ADJUSTMENTS AS NECESSARY.
C.L.E.C. FIBER CONDUIT	ADJUSTMENTS AS NECESSART.

- <u>SOILS NOTES:</u> 1. RADIUS IS NOT RESPONSI DETERMINE THE ABILITY T
- INCLUDE INCIDENTAL TRENCHING IN SPLICE BOX, ISFORMER EXCAVATION IN AREAS WHERE NO EXIT OF TRENCH IS SHOWN.
- S RESERVE THE RIGHT TO MAKE FIELD NECESSARY.
- CONDITIONS. 2. RADIUS ASSUMES NO RE TO ADVERSE JOB SITE (
- 3. PG&E WILL REQUIRE SOILS ANALYSIS FOR SUBSURFACE TRANSFORMER (IF APPLICABLE).

 ONSIBILITY DITIONS.	FOR	ADDITIONAL	WORK	l
			Г	

DUE

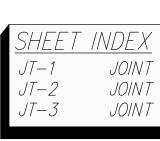
SIBLE FOR ANY	SOILS ENGINEERING	ГО
TO CONSTRUCT	OR THE PROJECT	

IBLE	E FOR	ANY	SOIL	S EN	NGINE	ERING	TO	
10 (	CONST	RUCT	OR	THE	PRO	JECT		

-	

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS FOR JOINT TRENCHES									
		G	DUCT	DB T	С	S	Р	FO	MIN. COVER
G	GAS	0"	12"	12"	12"	6"	12"	12"	24"; 30" IN STREET
T	TELEPHONE (DUCT)	12"	0"	1"	1"	12"	12"	1"	24"; 30" IN STREET
Τ	TELEPHONE (DIRECT BURY)	12"	1"	0"	1"	12"	12"	1"	24"; 30" IN STREET
С	C.A.T.V.	12"	1"	1"	0"	12"	12"	1"	24"; 30" IN STREET
S	ELECTRIC SECONDARY	6"	12"	12"	12"	1.5"	3"	12"	24"; 30" IN STREET
Ρ	ELECTRIC PRIMARY	12"	12"	12"	12"	3"	3"	12"	36"; 36" IN STREET
FO	FIBER OPTIC	12"	1"	1"	1"	12"	12"	0"	24"; 30" IN STREET

ABBREVIATIONS:							
Ρ	PRIMARY (PG&E)						
S	SECONDARY (PG&E)						
С	CATV (COMCAST)						
Τ	PHONE (AT&T)						
G	GAS (PG&E)						
FO	FIBER OPTIC (C.L.E.C.)						



SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301





UTILITY DESIGN CONSULTANTS & ENGINEERS 1460 MARIA LANE, SUITE 420, WALNUT CREEK, CA 94596 Tel (925) 269-4575

### ISSUES AND REVISIONS

NO. DATE 05.13.22

DESCRIPTION

12.01.21 PLANNING SUBMITTAL PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2 11.02.22 PLANNING RESUBMITTAL #3

## PROJECT NUMBER 21003

SHEET TITLE JOINT TRENCH SECTIONS

> SCALE N.T.S

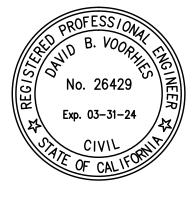


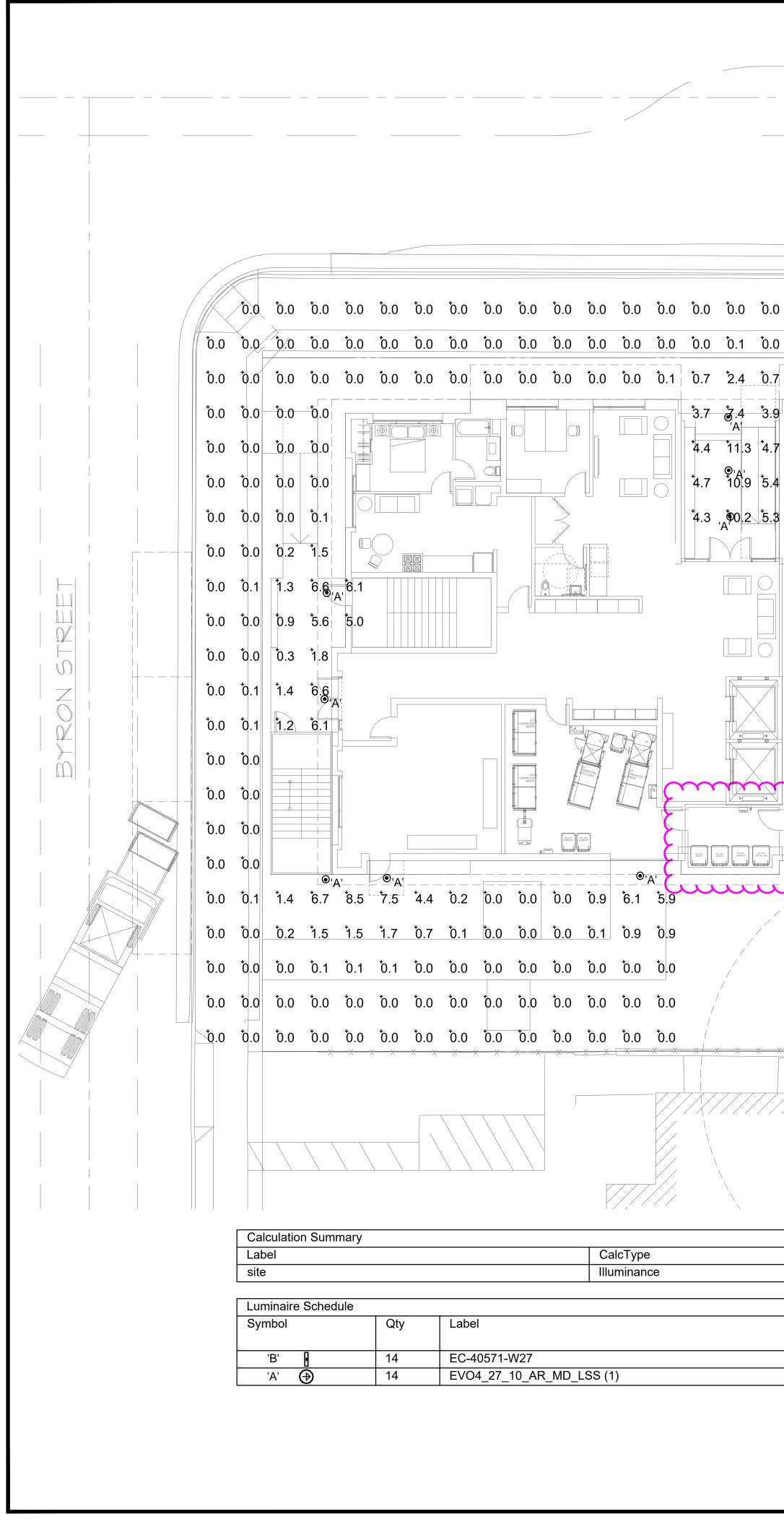
SHEET NUMBER



24" IN DIRT 30" IN STREET Ω,

JOINT TRENCH TITLE SHEET JOINT TRENCH COMPOSITE JOINT TRENCH SECTIONS

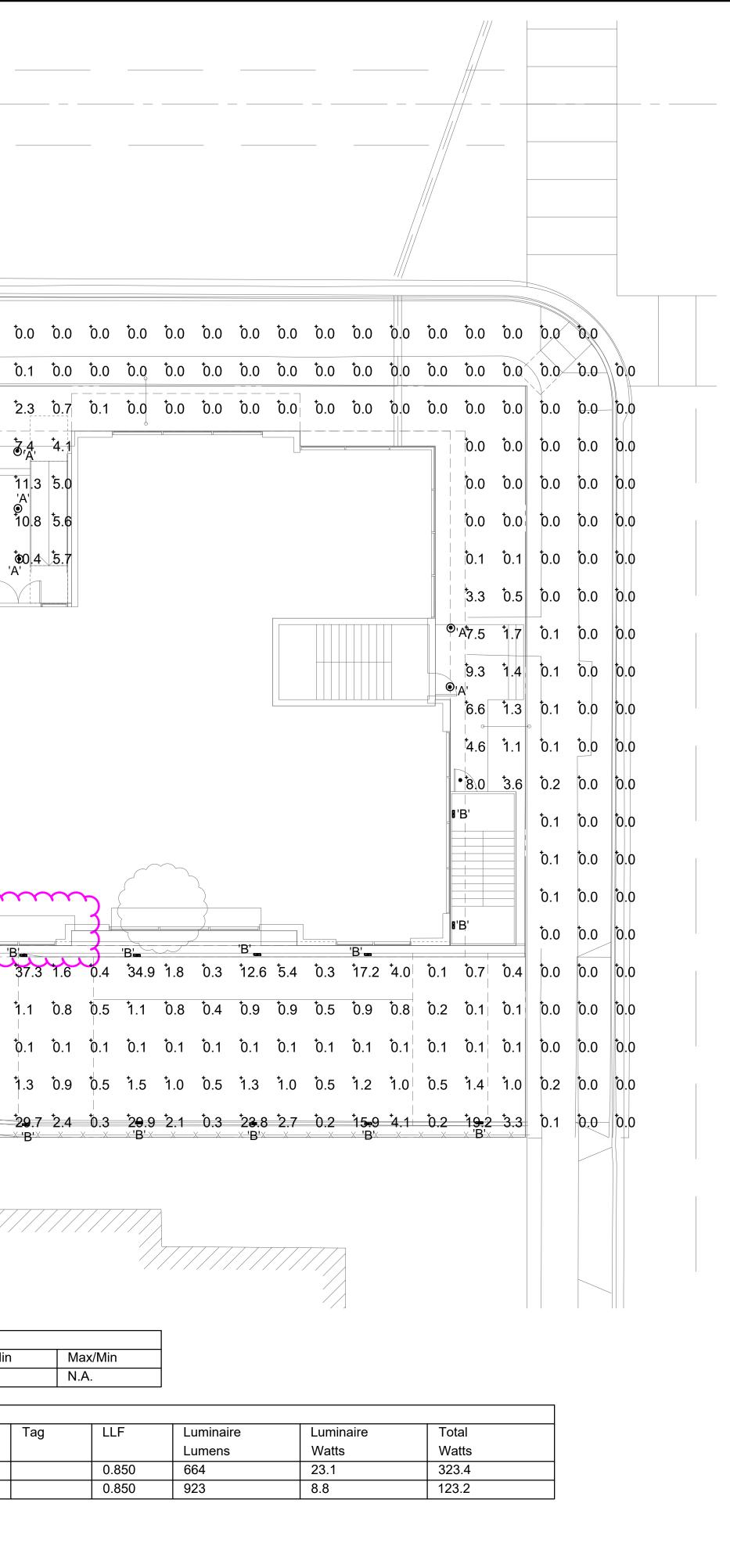




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 Units Avg Max Min Avg/Min Max/Min Fc 1.37 37.3 0.0 N.A. N.A. Arrangement Description Tag LLF Luminaire Lumens EC-40571-W27 Rev_2 0.850 Single 664 Single EVO4 27 10 AR MD LSS 0.850 923

# SITE PHOTOMETRIC PLAN

SCALE: 1"=10'-0"

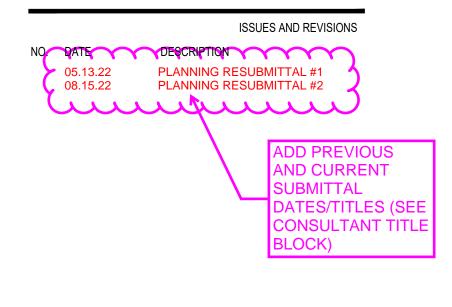


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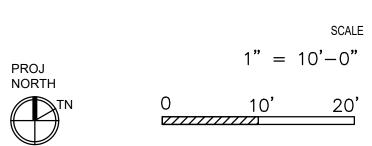


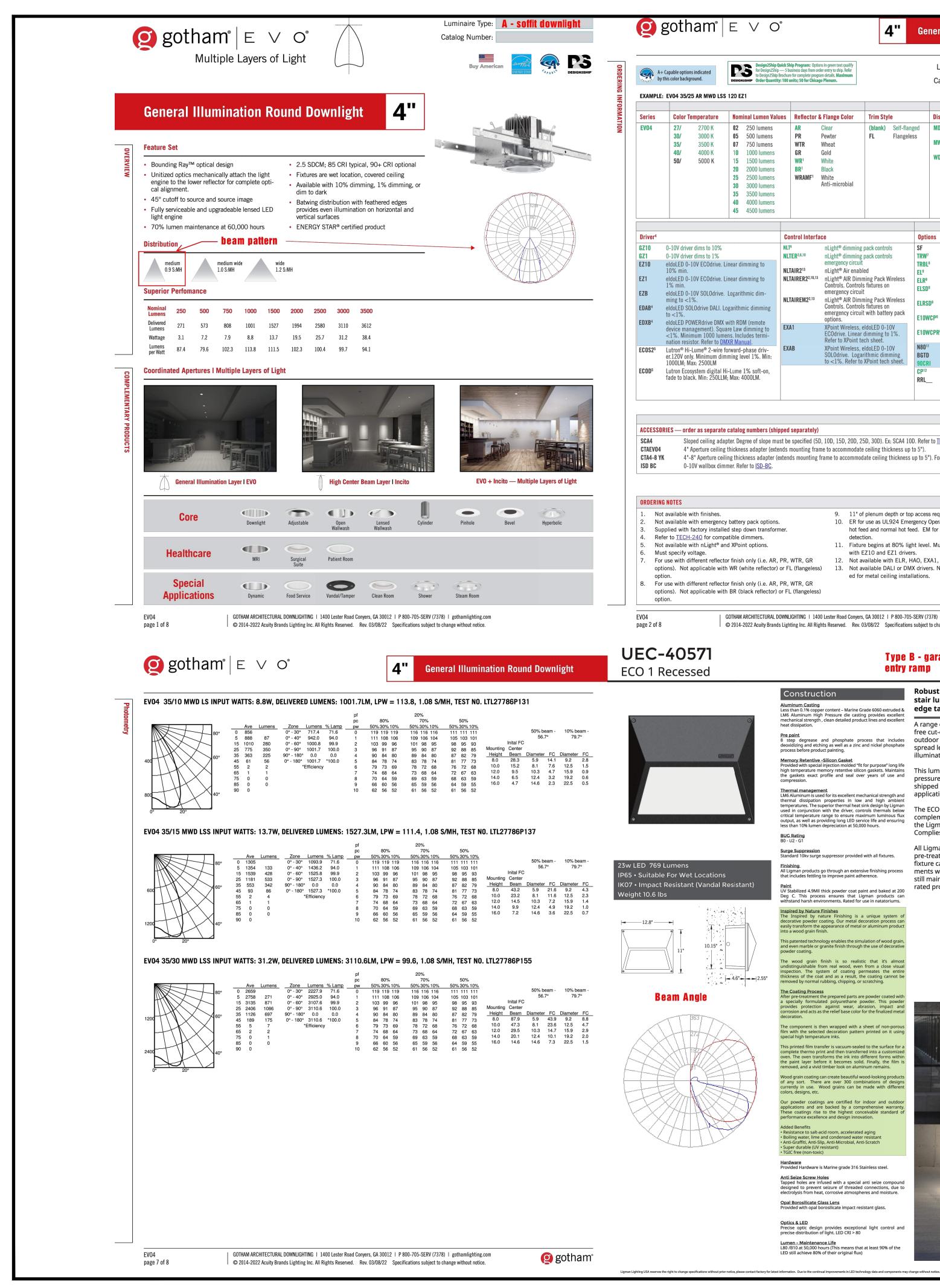




PROJECT NUMBER 21003

SHEET TITLE SITE PHOTOMETRIC PLAN





# 🧕 gotham 🗉 V O

### 4" General Illumination Round Downlight

270 100 2	E: EV04 35/25 AR MWD LSS 120 EZ1								
Series	Color Temperature Nominal Lumen	Values Reflector	es Reflector & Flange Color		Trim Style		ibution	Finish	Voltage
EV04	27/         2700 K         02         250 lumer           30/         3000 K         05         500 lumer           35/         3500 K         07         750 lumer           40/         4000 K         10         1000 lume           50/         5000 K         15         1500 lume           20         2000 lume         20         2000 lume           30         3000 lume         35         3500 lume           40         4000 lume         40         4000 lume           45         4500 lume         4500 lume	S         PR           s         WTR           ns         GR           ns         WR1           ns         BR1           ns         WRAMF1           ns         Is	Clear Pewter Wheat Gold White Black White Anti-microbial	(blank) Self-f FL Flang	anged eless	MD MWD WD	Medium (0.9 s/mh) Medium wide (1.0 s/mh) Wide (1.2 s/ mh)	LSS Semi-specular LD Matte-diffuse LS Specular	MVOLT 120 277 347 ^{2,3}
Driver ⁴		Control Interf	ace		Opti	0115			
GZ10 GZ1 EZ10 EZ1 EZB EDAB ⁴ EDXB ⁴ ECOS2 ⁵ ECOD ⁵	0-10V driver dims to 10% 0-10V driver dims to 1% eldoLED 0-10V ECOdrive. Linear dimming to 10% min. eldoLED 0-10V ECOdrive. Linear dimming to 1% min. eldoLED 0-10V SOLOdrive. Logarithmic dim- ming to <1%. eldoLED SOLOdrive DALI. Logarithmic dimming to <1%. eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termi- nation resistor. Refer to <u>DMXR Manual</u> . Lutron® Hi-Lume® 2-wire forward-phase driv- er.120V only. Minimum dimming level 1%. Mir 1000LM; Max: 2500LM Lutron Ecosystem digital Hi-Lume 1% soft-on fade to black. Min: 250LLM; Max: 4000LM.	EXA1 EXAB	emergency circuit IR2 ¹³ nLight [®] Air enabled IRER2 ^{2,10,13} nLight [®] AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit IREM2 ^{2,13} nLight [®] AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options. XPoint Wireless, eldoLED 0-10V ECOdrive. Linear dimming to 1%. Refer to XPoint tech sheet.			<ul> <li>Single Fuse. Specify 120V or 277V</li> <li>7 White painted flange</li> <li>Black painted flange</li> <li>Emergency battery pack, 10W, with integral test switch</li> <li>Emergency battery pack, 10W, with remote test switch</li> <li>Emergency battery pack, 10W, with self-diagnostics, intertest switch</li> <li>SD⁹ Emergency battery pack, 10W, with self-diagnostics, remtest switch</li> <li>KCP⁹ Emergency battery pack, 10W Constant Power, CA Title 2 compliant with integral test switch</li> <li>VCPR⁹ Emergency battery pack, 10W Constant Power, CA Title 2 compliant with remote test switch</li> <li>I nLight® Lumen Compensation</li> <li>D Bodine generator transfer device. Specify 120V or 277'</li> <li>Ri High CRI (90+)</li> <li>Chicago Plenum. Specify 120V or 277V for 5000Im and a RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire</li> </ul>			

### ACCESSORIES — order as separate catalog numbers (shipped separately)

- SCA4 Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190. 4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
- CTAEVO4 CTA4-8 YK 4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options. ISD BC 0-10V wallbox dimmer. Refer to ISD-BC.

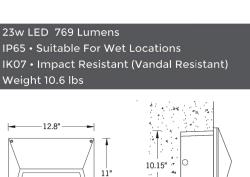
### ORDERING NOTES 1. Not available with finishes.

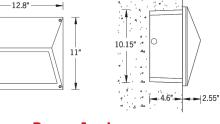
- 2. Not available with emergency battery pack options. 3. Supplied with factory installed step down transformer.
- 4. Refer to <u>TECH-240</u> for compatible dimmers.
- 5. Not available with nLight[®] and XPoint options. 6. Must specify voltage.
- 7. For use with different reflector finish only (i.e. AR, PR, WTR, GR
- optior 8. For use with different reflector finish only (i.e. AR, PR, WTR, GR
- options). Not applicable with BR (black reflector) or FL (flangeless) option

EV04 page 2 of 8

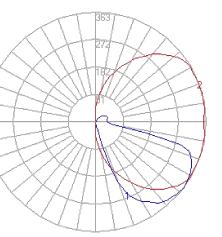
# **UEC-40571** ECO 1 Recessed







### **Beam Angle**



### heat dissipation. dexidizing and etching as well as a zinc and nickel phosphate process before product painting. Memory Retentive -Silicon Gasket Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and seal over years of use and the gaskets exact profile and the gaskets exact profil compression.

Construction

Thermal management LM6 Aluminum is used for its excellent mechanical strength and applications. LMb Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours. <u>BUG Rating</u> B0 - U2 - G1

# Surge Suppression Standard 10kv surge suppressor provided with all fixtures.

# UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

ne Inspired by nature Finishing is a unique system of

decorative powder coating. Our metal decoration process ca easily transform the appearance of metal or aluminum produ a wood grain finish. d even marble or granite finish through the use of decorativ powder coating. ne wood grain finish is so realistic that it's almost indistinguishable from real wood, even from a close visual nspection. The system of coating permeates the entire hickness of the coat and as a result, the coating cannot be noved by normal rubbing, chipping, or scratching.

### Coating Process specially formulated polyurethane powder. This powder rovides protection against wear, abrasion, impact and prrosion and acts as the relief base color for the finalized metal The component is then wrapped with a sheet of non-porous ilm with the selected decoration pattern printed on it using pecial high temperature inks.

printed film transfer is vacuum-sealed to the surface for

plete thermo print and then transferred into a customized n. The oven transforms the ink into different forms within paint layer before it becomes solid. Finally, the film is noved, and a vivid timber look on aluminum remains. f any sort. There are over 300 combinations of designs urrently in use. Wood grains can be made with different olors, designs, etc. Dur powder coatings are certified for indoor and outdoor pplications and are backed by a comprehensive warranty. these coatings rise to the highest conceivable standard of performance excellence and design innovation.

### Added Benefits Resistance to salt-acid room, accelerated aging Boiling water, lime and condensed water resistant Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch Super durable (UV resistant)

TGIC free (non-toxic)

<u>Hardware</u> Provided Hardware is Marine grade 316 Stainless steel. Anti Seize Screw Holes Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture. Opal Borosilicate Glass Lens Provided with opal borosilicate impact resistant glass.

Optics & LED Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80 <u>Lumen – Maintenance Life</u> L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

### 10. ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.

11. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers. 12. Not available with ELR, HAO, EXA1, or EXAB options.

9. 11" of plenum depth or top access required for battery pack maintenance.

options). Not applicable with WR (white reflector) or FL (flangeless) 13. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.

> GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com © 2014-2022 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 03/08/22 Specifications subject to change without notice.





[ gotham[®]

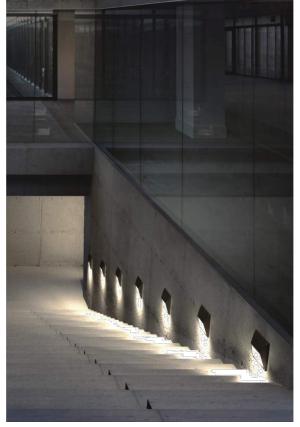
### Robust urban wall semi-recessed pathway and stair luminaire. Designed to deliver edge to Aluminum Casting Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent

A range of square wall recessed luminaires, with a glare free cut-off reflector system. Suitable for indoor and 8 step degrease and phosphate process that includes outdoor applications for pathways and ramps. The linear spread lens provides a wide beam spread that evenly illuminates up to 26ft of pathway.

> pressure die-cast aluminum back box and can be pre shipped to the jobsite for concrete pour or masonry

The ECO range has a matching bollard offering to complement the recessed product. See bollard section on the Ligman website. Complies with ADA requirements.

All Ligman fixtures can be manufactured using a special pre-treatment and coating process that ensures the fixture can be installed in natatoriums as well as environ-<u>Finishing</u> All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence. Still maintain the 5 year warranty. For this natatorium still maintain the 5 year warranty. For this natatorium rated process please specify NAT in options.



### gotham ⊨ ∨ °

### Optical Assemby

4"

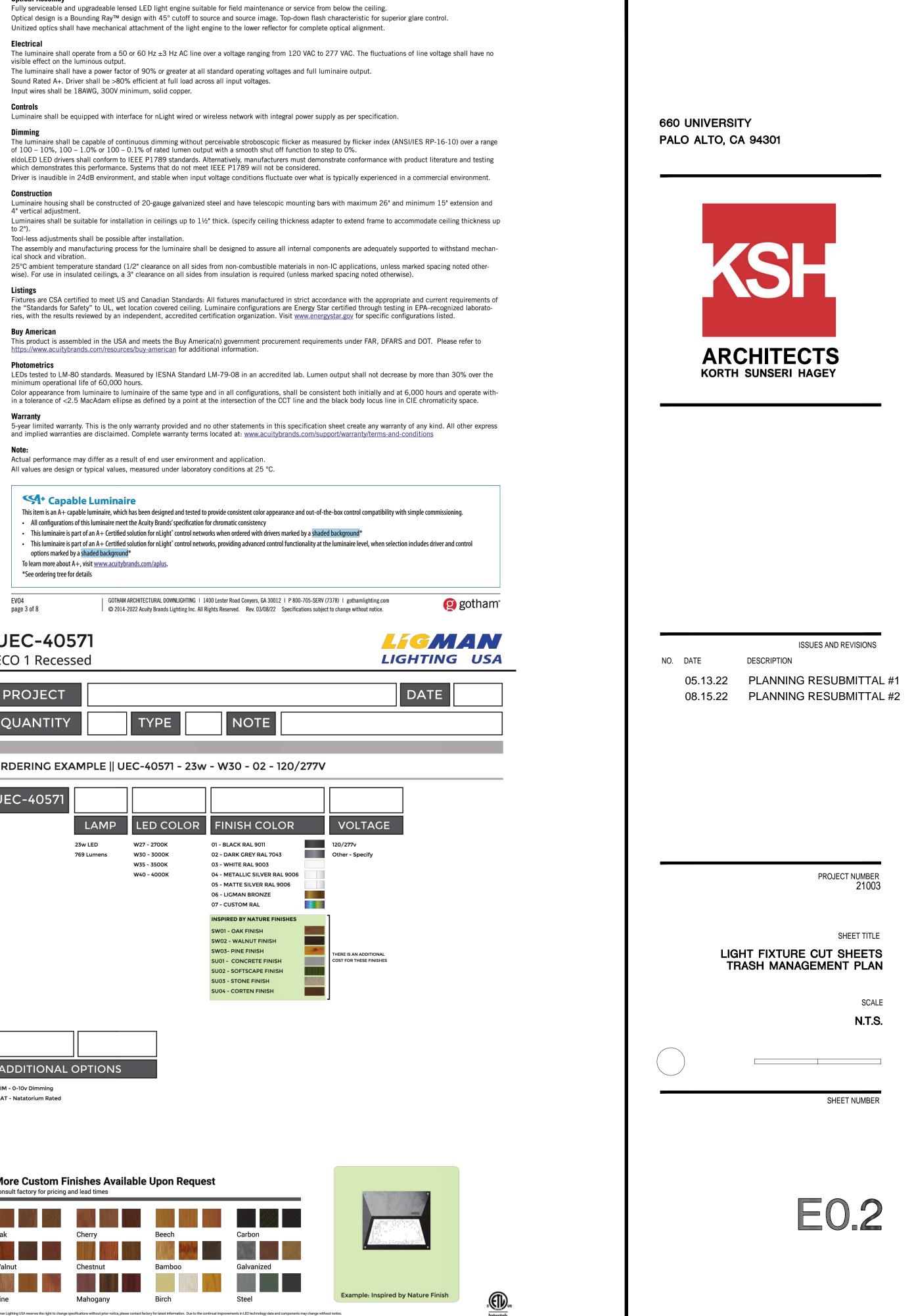
General Illumination Round Downlight

SMITH DEVELOPMENT

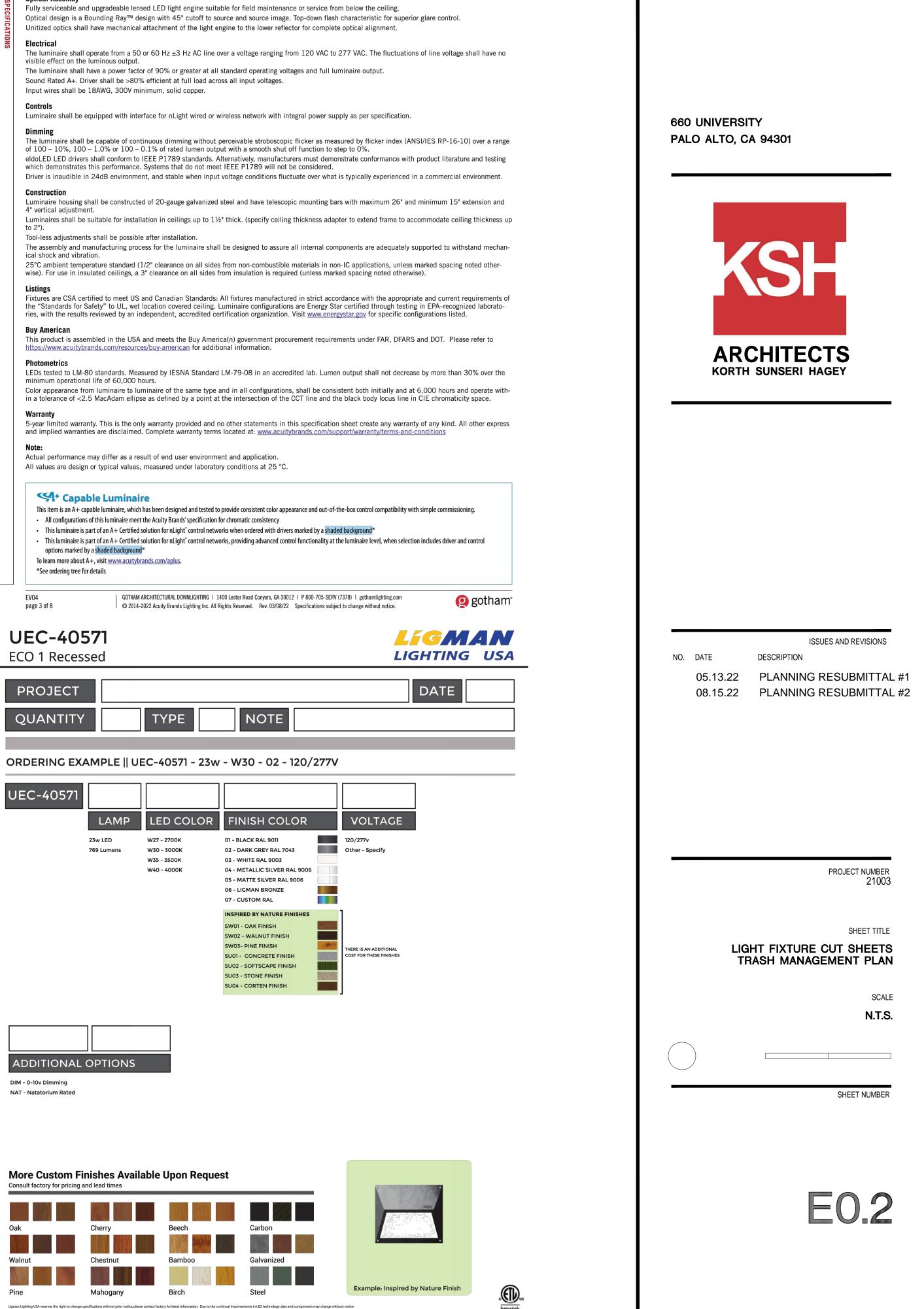
- options marked by a shaded background*

EV04

PROJECT TYPE QUANTITY



ADDITIONAL OPTIONS				
DIM - 0-10v Dimming NAT - Natatorium Rated				



ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT