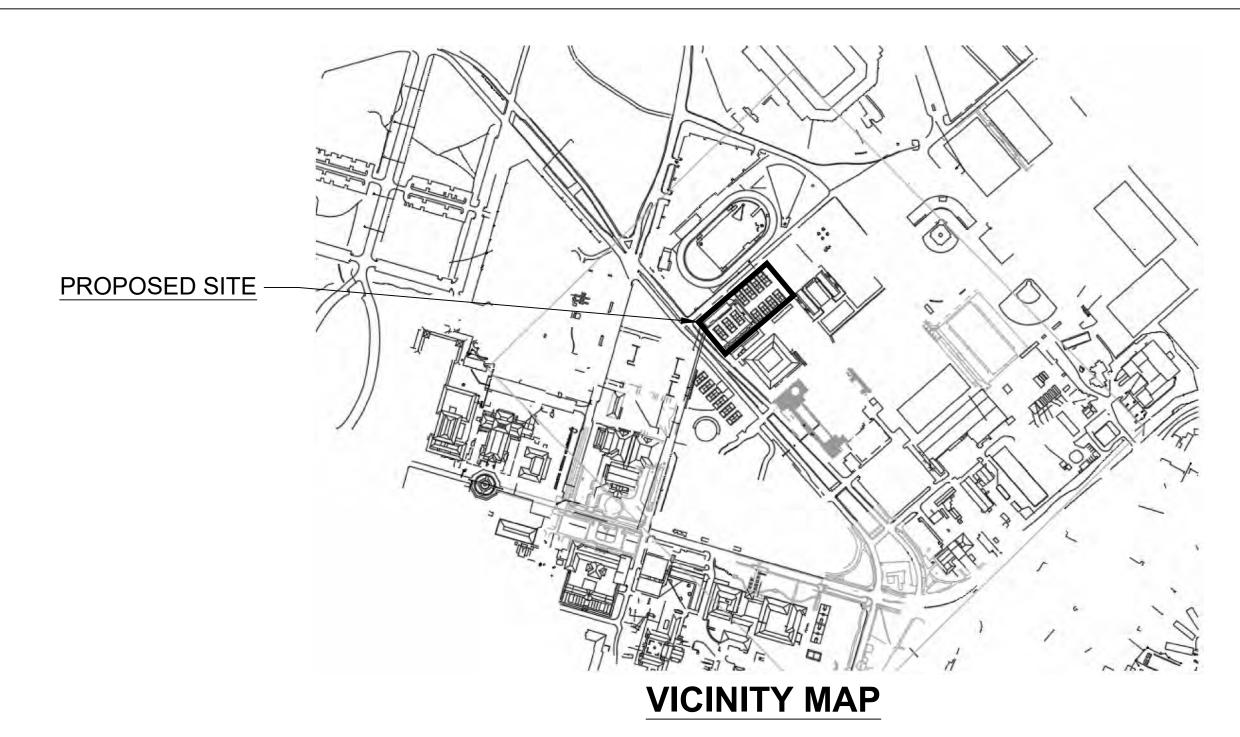
# STANFORD UNIVERSITY VARSITY TENNIS CENTER

PROJECT 5698

SUBMITTAL DATE: APPROVAL DATE:

DRAWING STATUS COMPLIANCE RE-SUBMITTAL PERMIT APPLICATION **CONSTRUCTION PERMIT RECORD DRAWINGS** 

(09-345), 275 SAM MCDONALD MALL



#### DEFERRED SUBMITTALS

- 1. FIRE SPINKLERS
- 2. FIRE ALARM SYSTEM & FA CONTROL PANEL REPLACEMENT ALARMS SHALL HAVE VOICE ACTIVATION PER CBC 907.5.2.2.

#### **DRAWING INDEX**

PL0.0 TITLE SHEET

PL1.2 GUP INFORMATION MAP

TENNIS CENTER DEMO SITE PLAN TENNIS CENTER PROPOSED SITE PLAN

TENNIS CENTER GUP DEMO SURVEY REFERENCE

TENNIS CENTER GUP DEMO SURVEY REFERENCE TENNIS CENTER GUP DEMO REFERENCE

TENNIS CENTER GUP PROPOSED

TENNIS CENTER GROUND & SECOND FLOOR PLAN

TENNIS CENTER ROOF FLOOR PLAN

TENNIS CENTER ENLARGED GROUND & SECOND FLOOR PLAN TENNIS CENTER CONTEXT ELEVATIONS

**TENNIS CENTER ELEVATIONS** 

TENNIS CENTER ELEVATIONS

TENNIS CENTER BUILDING ELEVATIONS

TENNIS CENTER FENCE ELEVATIONS

TENNIS CENTER FENCE ELEVATIONS

TENNIS CENTER SECTION

TENNIS CENTER TRASH ENCLOSURE ELEVATIONS

TENNIS CENTER RENDERINGS **TENNIS CENTER RENDERINGS** 

TENNIS CENTER RENDERINGS

TENNIS CENTER RENDERINGS

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

**COVER SHEET** 

**CONSTRUCTION NOTES** 

C-1.2 FIRE SAFETY NOTES

TOPOGRAPHIC SURVEY

DEMOLITION AND TREE DISPOSITION PLAN

DEMOLITION AND TREE DISPOSITION PLAN

GRADING AND DRAINAGE PLAN

UTILITY PLAN

STORMWATER MANAGEMENT PLAN

**EROSION CONTROL PLAN COUNTY BMP NOTES** 

COUNTY BMP NOTES

CONSTRUCTION SITE LOGISTICS AND SAFETY PLAN

FIRE TRUCK ROUTE PLAN AND FIRE ANALYSIS NOTES

L-1.01 LANDSCAPE PLAN

L-1.02 LANDSCAPE PLAN

L-1.03 LANDSCAPE NOTES

#### SITE DATA INFORMATION

#### **GENERAL**

142-04-036 APN:

PARCEL SIZE: 580.15 AC **DEVELOPMENT DISTRICT:** DAPER AND ADMINISTRATIVE

09-345 **BUILDING/QUAD:** 

**ACADEMIC CAMPUS** 

SITE AREA: 162,756 SF

#### **PERCENTAGE OF SITE AREA:**

LAND USE DESIGNATION:

72 % LANDSCAPE: **CONCRETE PAVING:** 28 %

#### **CBC BUILDING TYPE:**

II-B

NUMBER OF NET

**NEW PARKING SPACES:** NONE

ESTIMATED CUT AND FILL:

1,575 CUBIC YARDS 707 CUBIC YARDS

868 CUBIC YARDS EXPORT

#### PROJECT DESCRIPTION:

DEMOLITION OF CURRENT VARSITY TENNIS COURT FACILITY (09-380), TAUBE FAMILY TENNIS STADIUM (09-340), AND TAUBE TENNIS BACKCOURT BLEACHERS (09-381). CONSTRUCTION OF A NEW TENNIS CENTER BUILDING, REPLACEMENT AND RECONFIGURATION OF TENNIS COURTS, AND ASSOCIATED SITE DEVELOPMENT.

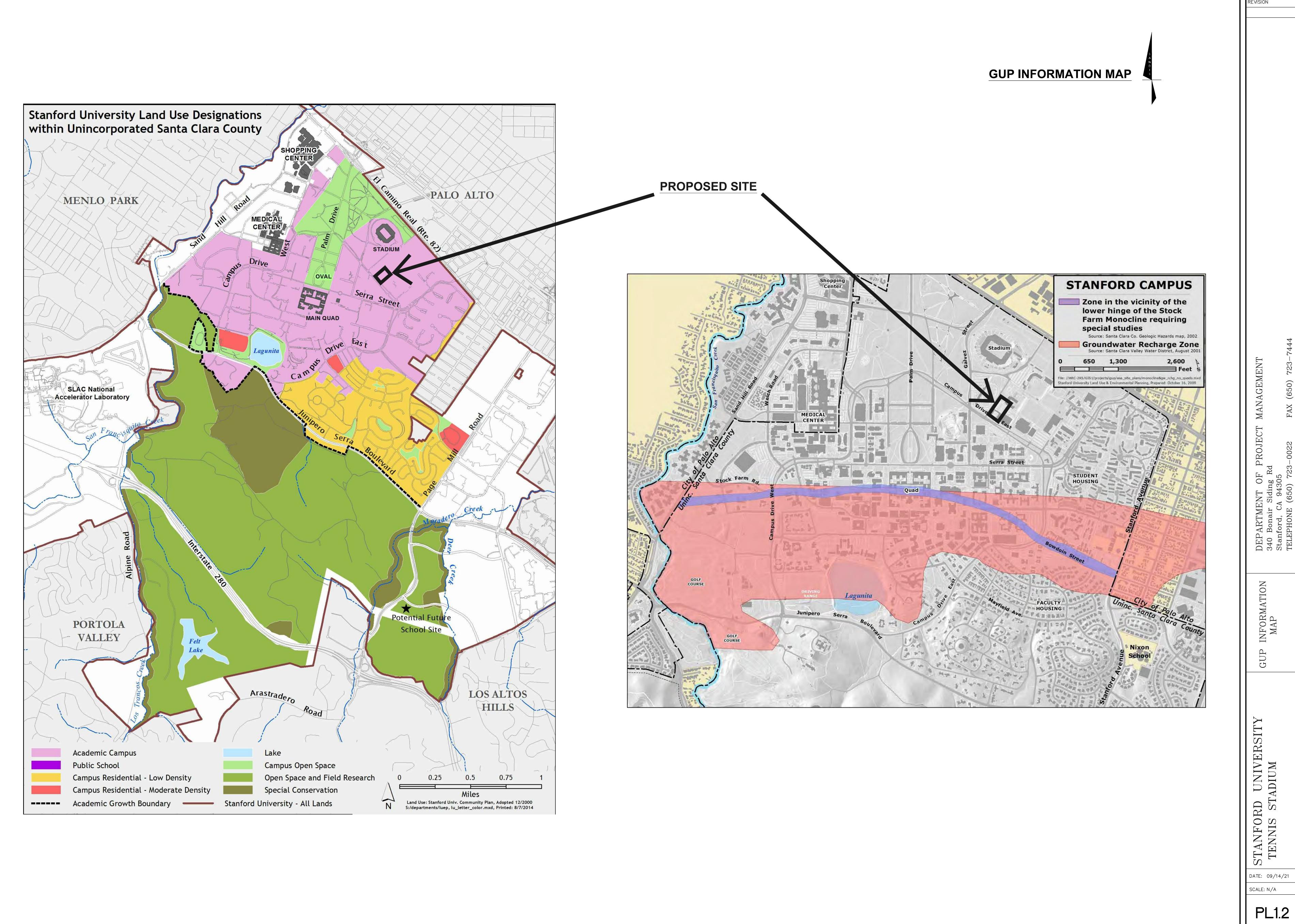
#### PROJECT MANAGER:

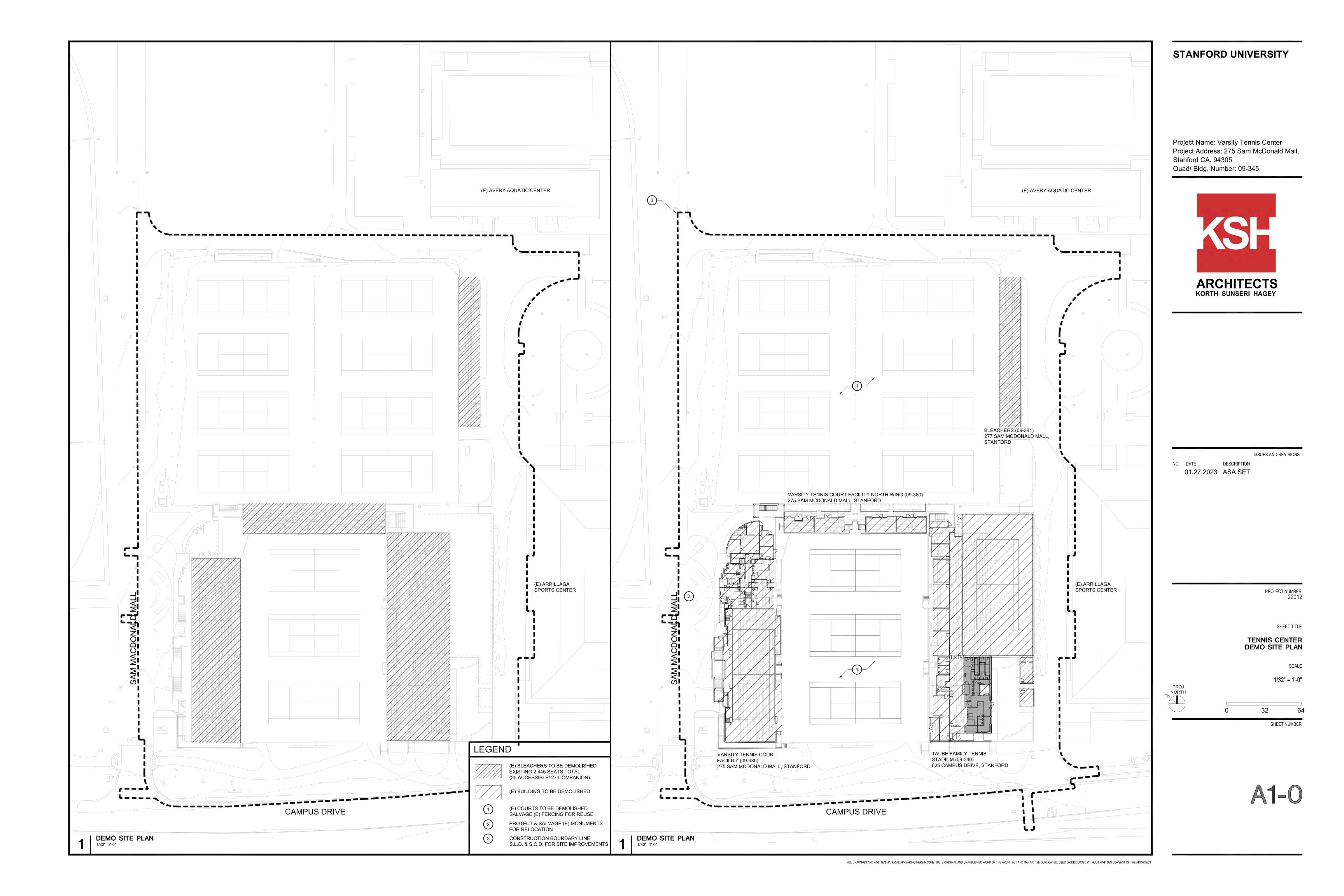
Mark Bonino

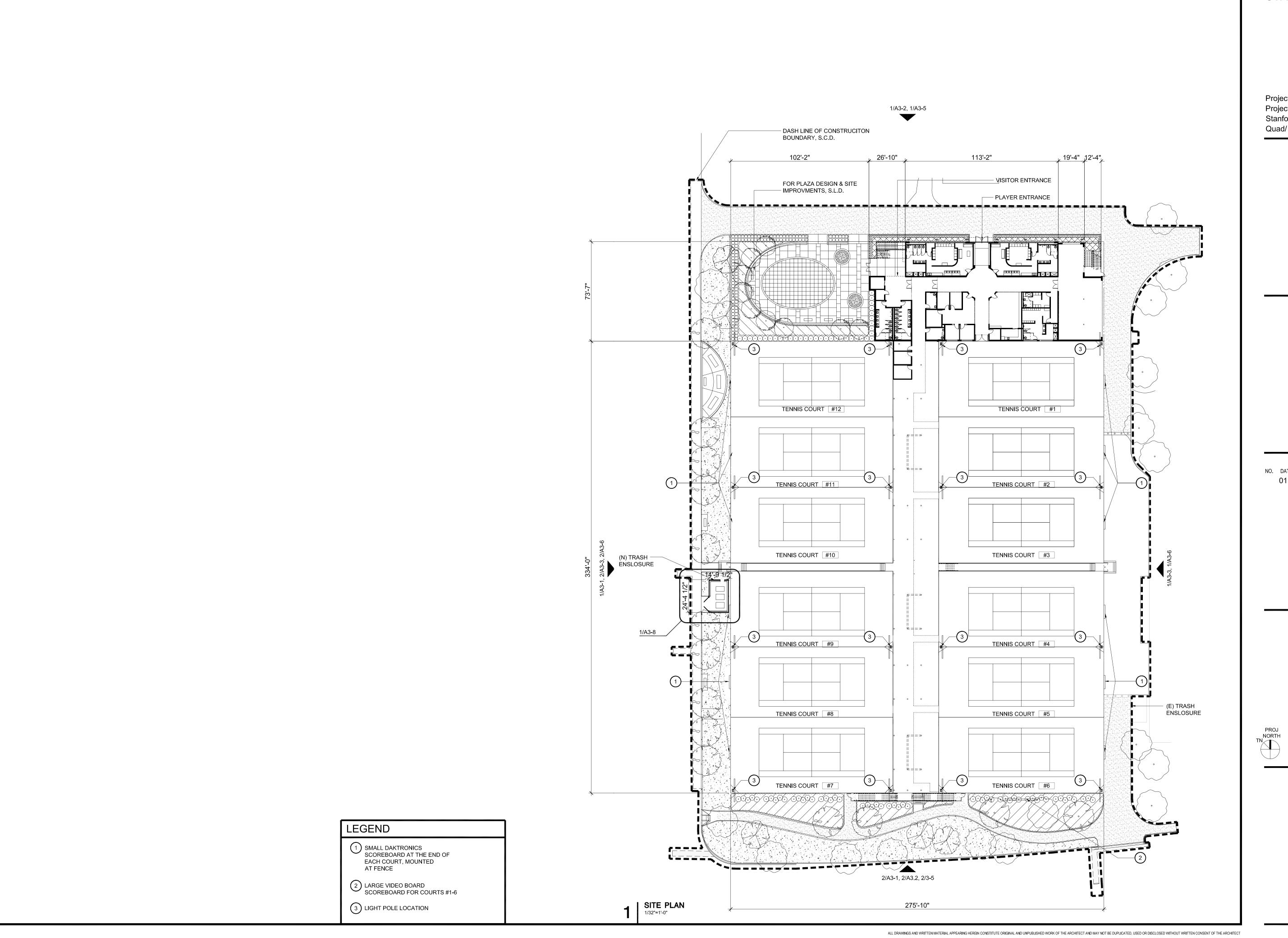
340 Bonair Siding Rd Stanford, CA 94305

mbonino@stanford.edu

PL0.0







Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS
DATE DESCRIPTION

01.27.2023 ASA SET

TENNIS CENTER PROPOSED SITE PLAN

SCALE

1/32" = 1'-0"

**A1-1** 

SHEET NUMBER

PROJECT NUMBER 22012

#### STANFORD MONUMENT S12 2" BRASS DISK STAMPED "STANFORD 12, LS 5237" ELEVATION = 64.97 FEET (NGVD 29 DATUM) SSMH, RIM=59.34 6" INV. IN=54.64 (S) 6" INV. OUT=54.59 (N) 30" INV. IN=49.46 (S) 33" INV. OUT=49.11 (N) LEGEND **ABBREVIATIONS** SAM MACDONALD MALL 30. NN. IN = 50.78 (E) SAM MACDONALD MALL 30. NN. IN = 50.78 (E) 67.25 - AREA DRAIN - BACKFLOW PREVENTOR BUILDING CORNERBUILDING LINE EDGE OF PAVEMENT BOTTOM OF WALL CURB & GUTTER LINE BOTTOM OF STAIR - SURVEY CHECK SHOT CHAIN LINK FENCE SURVEY CONTROL POINT COMMUNICATIONS MANHOLE COMMUNICATIONS PULLBOX ----- FLOW LINE CONCRETE - DECK DRAIN - DRAIN INLET LAKE WATER HOT WATER - DOMESTIC WATER ----- CHW ----- CHILLED WATER EDGE OF PAVEMENT SD STORM DRAIN LINE - ELECTRICAL PULLBOX TO BE DEMOLISHED SANITARY SEWER LINE FIRE DEPARTMENT 18,100 SF GUP DEDUCTION, SEE 1/A1.2B - FINISHED GRADE AT DOOR ---- G ----- NATURAL GAS LINE FIRE HYDRANT UNDERGROUND ELECTRIC LINE FLOW LINE ----- CMN ---- COMMUNICATION LINE - FOUNTAIN - DRAIN INLET GRATE - GAS VALVE - ACCESSIBLE RAMP CONCRETE IRON FENCE TENNIS STADIUM FOUND SURVEY MONUMENT - LIP OF GUTTER - MISCELLANEOUS CLEANOUT STORM DRAIN MANHOLE SDMH, RIM=65.42 12" INV. IN=55.72 (N) 12" INV. IN=55.22 (N) 24" INV. IN=54.62 (E) 24" INV. OUT=54.52 (W) DRAIN INLET MISCELLANEOUS PULLBOX MISCELLANEOUS VAULT DRAIN INLET (ROUND) BUILDING OVERHANG SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT - PAVER ELEVATION - POST INDICATOR VALVE VARSITY TENNIS COURT FACILITY W WATER METER / BOX - ELECTRIC PANEL NORTH WING (09-380) - HANDRAIL / GUARDRA WATER VALVE STORM DRÁIN MANHOLE BACKFLOW PREVENTOR SANITARY SEWER CLEANOU? SANITARY SEWER MANHOLE WATER VALVE 1,523 SF GUP DEDUCTION, 1/A1.2B STREET LIGHT FIRE HYDRANT - SINGLE-ARM STREET LIGHT — 8 — 8 — 6 — r FIRE DEPARTMENT CONNECTION STREET LIGHT PULLBOX 8" INV. IN=58.23 (W) 8" INV. OUT=58.48 (N TOP OF CURB POST INDICATOR VALVE TC@CB IRRIGATION AT CATCH BASIN CONTROL / VALVE BOX TRENCH DRAIN GAS METER - TOP OF SLOPE GAS VALVE COMMUNICATIONS MANHOLE - TOP OF STAIR GATE DD, RIM=64.40 8" INV. IN=58.90 (E) 8" INV. OUT=58.80 (SE) COMMUNICATIONS VAULT - WATER METER VAULT / PULLBOX WATER VAULT ELECTRIC MANHOLE WATER VALVE Ε ELECTRIC VAULT / PULLBOX HARDSCAPE ELECTRIC LIGHT ELECTROLIER ON TOP OF POLE **~—**☆ ELECTROLIER WITH MAST ARM STREET LIGHT PULLBOX MISCELLANEOUS MANHOLE MISCELLANEOUS PULLBOX MISCELLANEOUS CLEANOUT TAUBE FAMILY TENNIS STADIUM (09-340) SDMH, RIM=64.77 24" INV. IN=55.07 (W BOLLARD 8" INV. IN=56.24 (S) 8" INV. IN=56.24 (SE) TO BE DEMOLISHED TO BE DEMOLISHED 2,359 GSF (0 GSF GUP) 24,000 SF GUP DEDUCTION, SEE 1/A1.2C 18" INV. OUT=52.29 (NW) SURVEY NOTES AD, RIM=62.71 6" INV. OUT=61.85 (DOWN) 1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF. AD, RIM=62.68 6" INV. OUT=61.90 (DOWN)/ AD, RIM=62.66 6" INV. OUT=61.88 (DOWN) DATES OF FIELD SURVEY: 08/09/21-08/13/21 AND 08/22/21. AD, RIM=62.77 6" INV. OUT=62.02 (DOWN)/ HORIZONTAL CONTROL WAS BASED COORDINATES AS SHOWN IN BOOK 747 OF MAPS AT PAGE 44-49, SANTA CLARA COUNTY RECORDS. THE COORDINATES REFERENCED ON THIS MAP ARE IN CALIFORNIA ZONE III, US SURVEY FEET. VERTICAL CONTROL WAS BASED ON STANFORD MONUMENT. BENCHMARK THE ELEVATION REFERENCE FOR THIS SURVEY IS A STANFORD MONUMENT S12, WHICH IS A SET 2" BRASS DISK STAMPED "STANFORD 12, LS 5237" IN MONUMENT WELL IN MIDDLE OF A TRAFFIC ISLAND ON CAMPUS DRIVE EAST IN BETWEEN GALVEZ STREET AND SAM MCDONALD MALL. PER R.O.S. 747 M 40-49. AD, RIM=62.38 6" INV. IN=58,63 (N) 8" INV. OUT=58.43 (SW) SDMH, RIM=62.76 8" INV. IN=56.81 (S) 8" INV. IN=56.51 (S) ELEVATION= 64.97 FEET (NGVD 29 DATUM) UNDERGROUND UTILITY NOTE 8" INV./IN=56.41 (SW) THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY. # 63.37 | AD. RIM=62.90 | VLT | O | 100 | INV. IN=57.61 (S) | 100 | IN 8" INV. OUT=56.01 (N) 10" INV. OUT=57.36 (N) SURVEYOR'S STATEMENT THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT AT THE REQUEST OF STANFORD UNIVERSITY IN JULY, 2021. 0' 4' 10' 20' 1 inch = 20 ft SHEET SANDIS **VARSITY TENNIS STADIUM** DRAWN BY: N.M. CHECKED BY: N.B.B. **TOPOGRAPHIC SURVEY** 220148 CALIFORNIA STANFORD

File: ||Sandisvm1\san\text{220148\3\_SURVEY\1\_MAPPING\9\_DELIVERABLES\TOPO\220148 - TENNIS STADIUM - TOPO.dwg Date:November 16, 2021 - 1:11 PM, nmigliori

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE DESCRIPTION 01.27.2023 ASA SET

PROJECT NUMBER

SHEET TITLE

TENNIS CENTER
GUP DEMO SURVEY REFERENCE

SCALE NTS

SHEET NUMBER

A1-2A

#### VARSITY TENNIS COURT FACILITY NORTH WING (09-380) 100-CORRIDOR 713 SQFT B-ELECTRICAL 127-STORAGE ROOM 101-STORAGE 102-STORAGE ROOM 19 SQFT 128-STORAGE ROOM ROOM 216-RESTROOM -216-OFFICE 130-TEAM LOUNGE 131-LOCKE ROOM 214-STORAGE 211-CONFERENCE ROOM 212-OFFICE 116-MAIN TELECOMMUNICATIONS ROOM 41 SQFT 104-STORAGE -ROOM 200-CORRIDOR 105-STORAGE -ROOM 108-MEN'S LOCKER 106-STORAGE RESTROOM / 204-OFFICE ROOM 203-OFFICE 107-STORAGE \_\_\_\_\_205-OFFICE ` ROOM 117-CORRIDOR 0 110-WOMEN'S 119-WOMEN'S EOCKER B ROOM – 109-JANITOR CLOSET 20 SQFT RESTROOM 206-TEAM LOUNGE 120-MECH ROOM 43 SQFT----—121-KITCHEN 124-TICKETING 123-INDOOR **TENNIS** COURT COURT ELEVATION -4.0 FT 208-VIEWING GALLERY TENNIS COURT BELOW 4293 SQFT 123A-CORRIDOR 125-STORAGE – ROOM 122-STORAGE VARSITY TENNIS COURT FACILITY (09-380) LEVEL 2 VARSITY TENNIS COURT FACILITY (09-380) LEVEL 1 EXISTING BUILDING DEMO GUP EXHIBIT 1/16"=1'-0"

#### DEMO GUP

	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
VARSITY TENNIS COURT FACILITY (09-380)		
FLOOR 1 GROSS AREA	15,323	15,323
EXEMPTIONS		
109 Janitor Closet		(20)
116 Main Telecommunication Room		(41)
120 Mechanical Room		(43)
SUBTOTAL FLOOR 1	15,323	15,219
FLOOR 2 GROSS AREA	7,174	7,174
EXEMPTIONS		
Open to Below	(4,293)	(4,293)
SUBTOTAL FLOOR 2	2,881	2,881
TOTAL VARSITY TENNIS FACILITY	18,204	18,100
VARSITY TENNIS - NORTH WING (09-380)		
FLOOR 1 GROSS AREA	2,255	2,255
EXEMPTIONS		
100 Corridor (exterior)	(713)	(713)
128A Electrical Room		(19)
SUBTOTAL FLOOR 1	1,542	1,523
TOTAL VARSITY TENNIS - NORTH WING	1,542	1,523
TOTAL TAUBE FAMILY TENNIS STADIUM (09-340)	24,000	24,000
SEE A1.2B FOR SU SANTA CLARA COUNTY GENERAL USE PER	RMIT [1989], ANNUAL REPORT #12	
TOTAL DEMOLITION	43,746	43,623

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ISSUES AND REVISIONS

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PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER GUP DEMO SURVEY REFERENCE

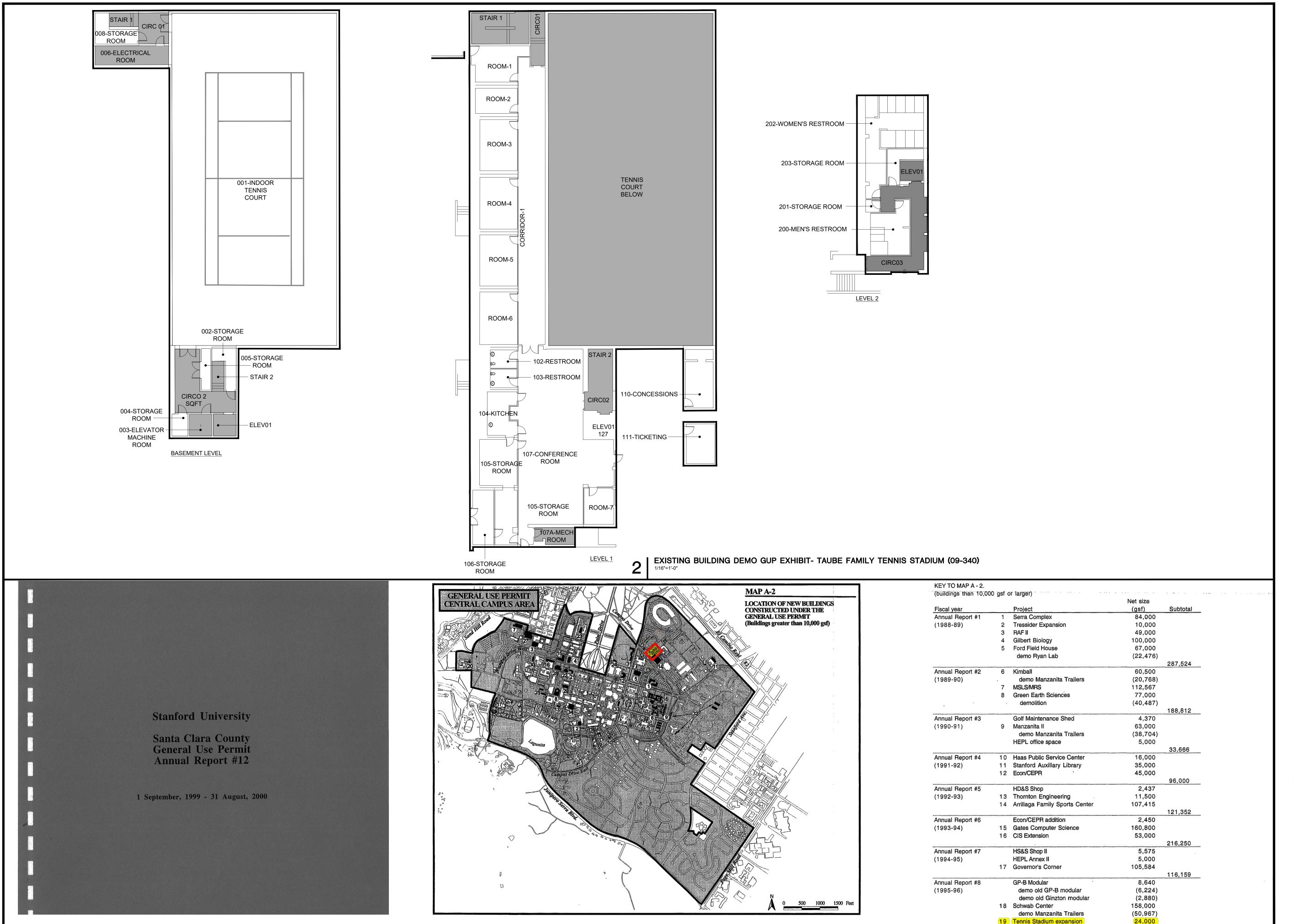
SCALE

AS NOTED

NORTH

SHEET NUMBER

**A1\_9E** 



STANFORD, SANTA CLARA COUNTY GENERAL USE PERMIT [1989]

ANNUAL REPORT #12, APPENDIX A, MAP A-2 COMPLETED PROJECTS, 1 SEPTEMBER 1999 - 31 AUGUST 2000

STANFORD UNIVERSITY

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ISSUES AND REVISIONS

01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER GUP DEMO REFERENCE

SCALE

SHEET NUMBER

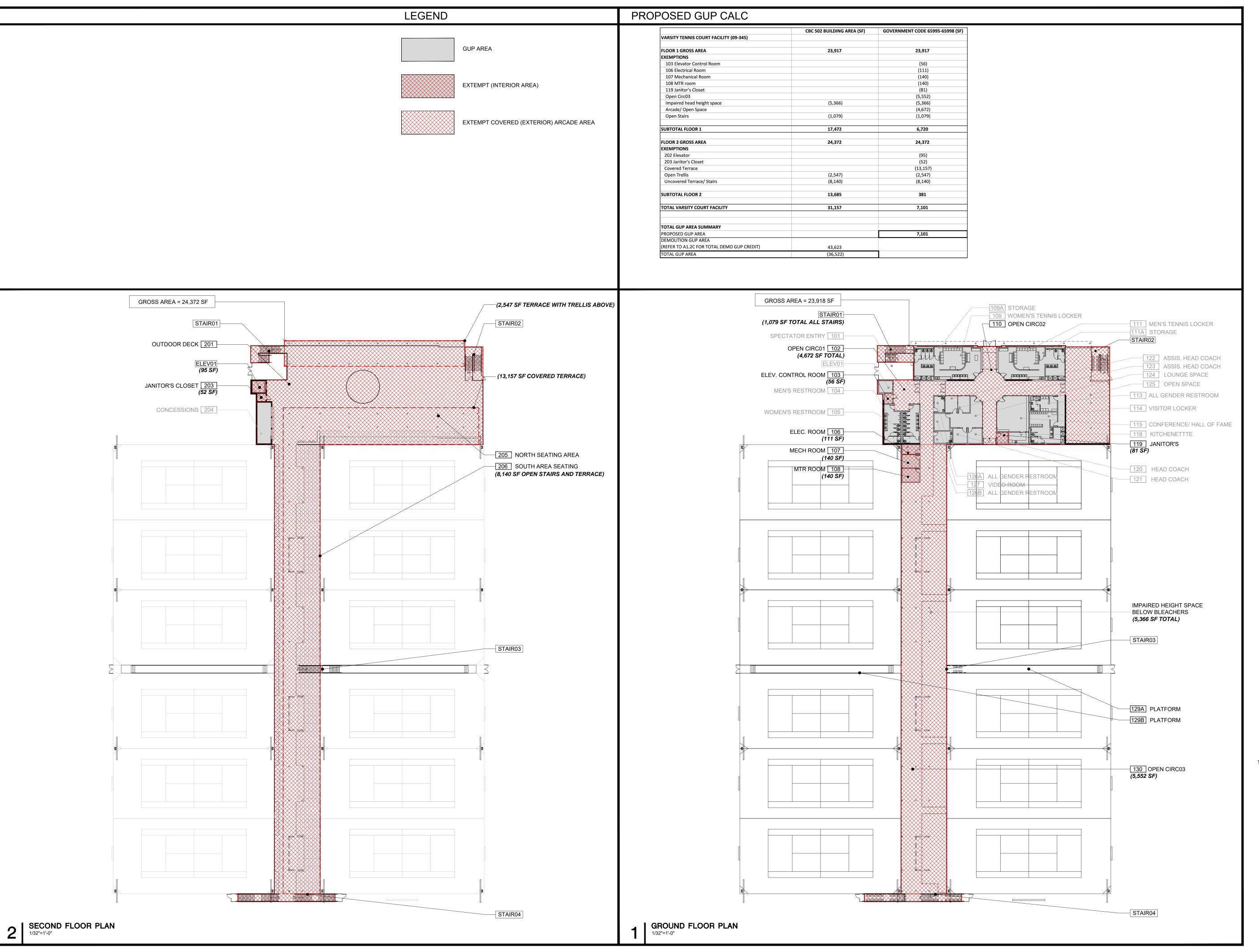
A1-20

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

20 ESF Annex

6,500

137,069



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE DESCRIPTION 01.27.2023 ASA SET

SHEET TITLE

TENNIS CENTER
GUP PROPOSED

SCALE

1/32" = 1'-0"

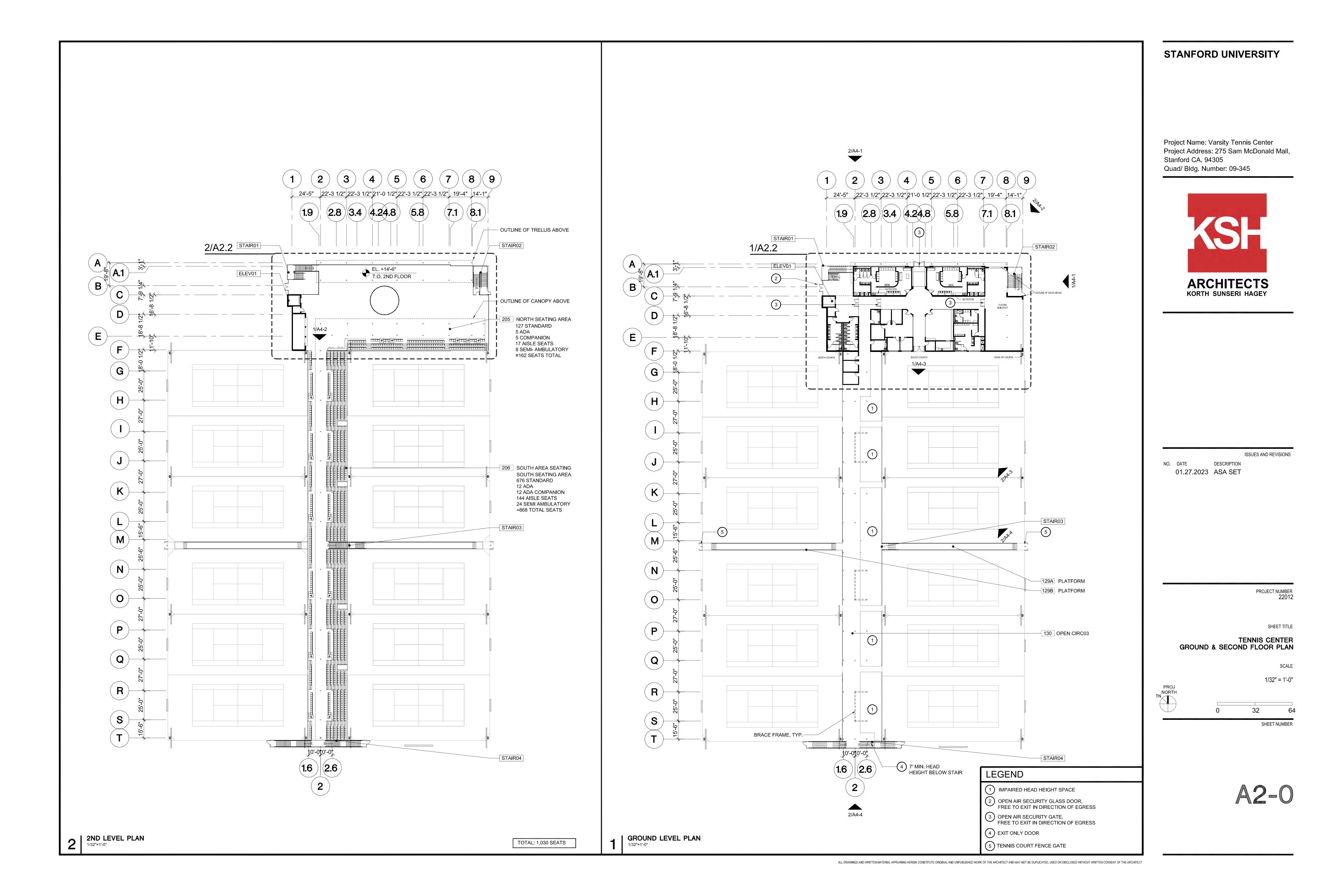
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NORTH

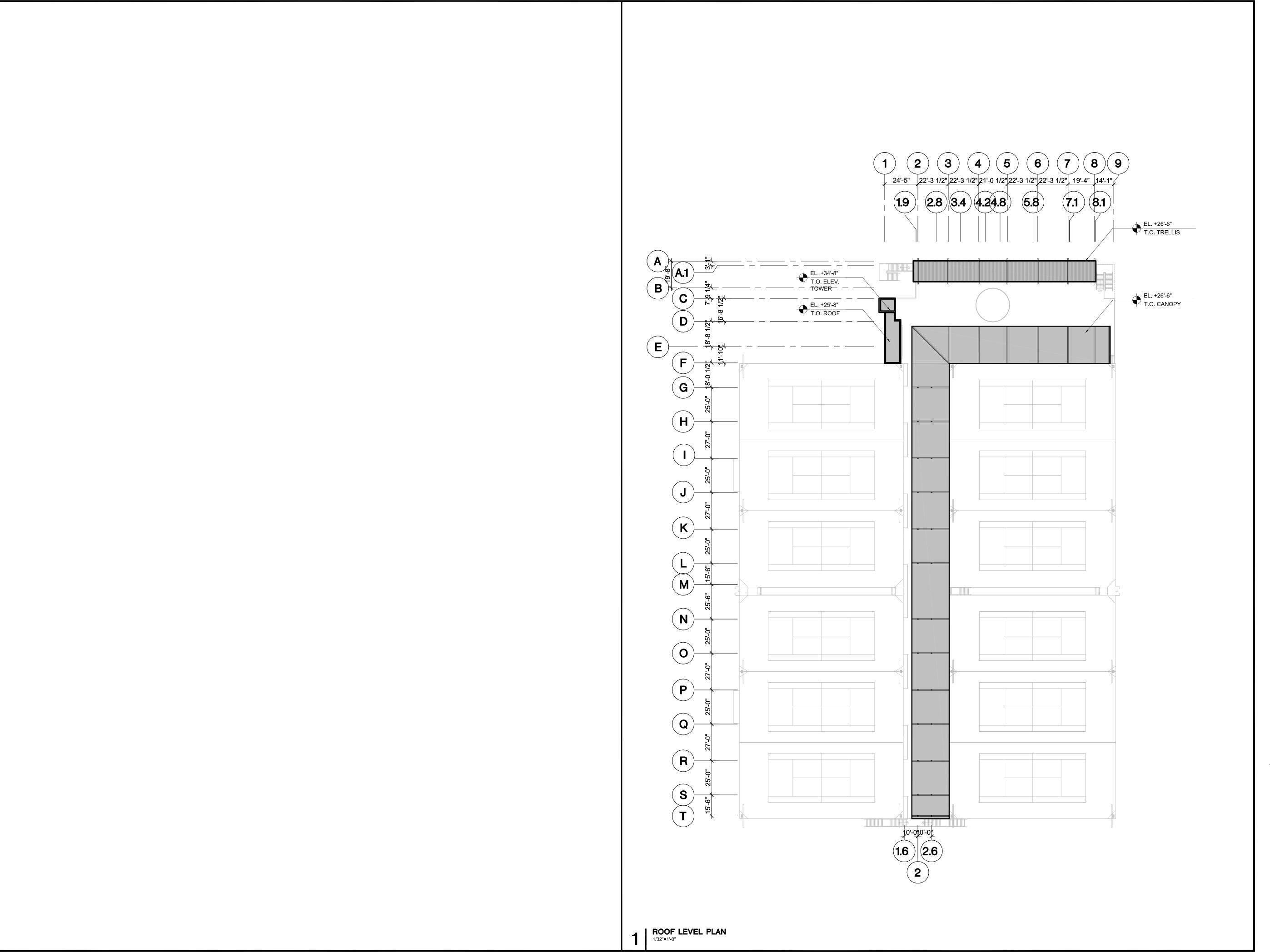
O
32
64

SHEET NUMBER

PROJECT NUMBER 22012

A1-3





Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS
DESCRIPTION

01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER ROOF FLOOR PLAN

SCALE

1/32" = 1'-0"

PROJ
NORTH

TN

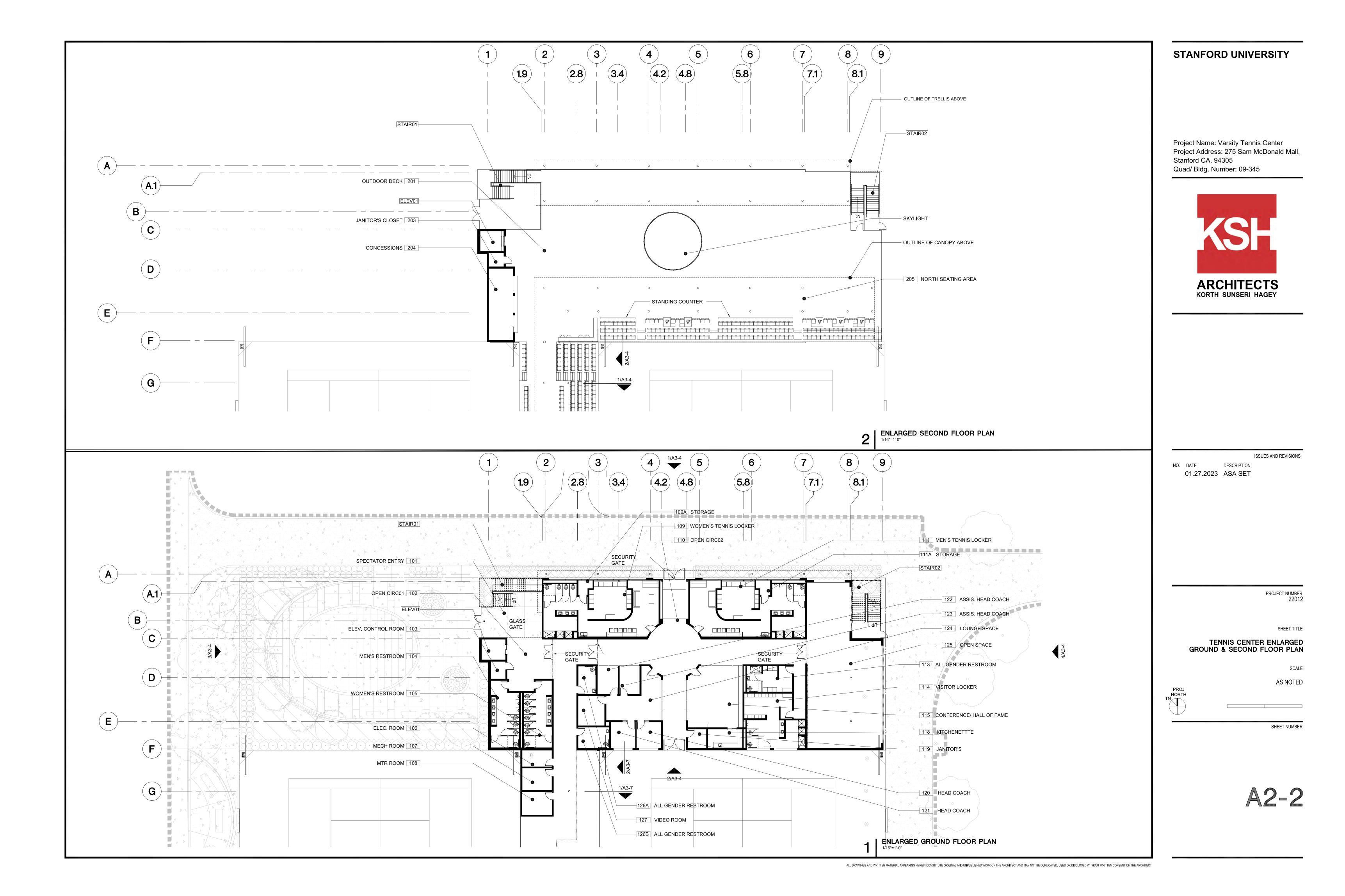
0

32

64

SHEET NUMBER

A2-1



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



3 | NOT USED



ISSUES AND REVISIONS

01.27.2023 ASA SET

PROJECT NUMBER 22012

TENNIS CENTER CONTEXT ELEVATIONS

SCALE

SHEET TITLE

AS NOTED

SHEET NUMBER

CONTEXT ELEVATION (CAMPUS DRIVE)
1/32"=1'-0"

CHUCK TAYLOR GROVE MUSIC REHEARSAL FACILITY (BEYOND) TENNIS MONUMENTS CAMPUS DRIVE

CONTEXT ELEVATION (SAM MACDONALD MALL)

1/32"=1'-0"



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



2 | SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)

PAINTED METAL TRELLIS STRUCTURE, COLOR C - CLEAR VISION GLASS — PAINTED METAL MULLIONS, COLOR C BRANDING / FEATURE WALL - PAINTED METAL PICKET RAILING, COLOR D CLEAR VISION GLASS SET IN COR-TEN FENCE EL. 34'-2"
T.O. ELEV.
TOWER EL. 26'-6"
ROOF LEVEL EL. 14'-6"
SECOND
LEVEL EL. 1'-8.5" SIDEWALK GRADE EL. 0'-0"
PLAZA LEVEL
(VARIES) FIRE LANE SAM MACDONALD MALL COR-TEN FENCE (REUSE EXISTING) - TEXTURED CONCRETE PANEL, COLOR A - TEXTURED CONCRETE, COLOR A

ISSUES AND REVISIONS

01.27.2023 ASA SET

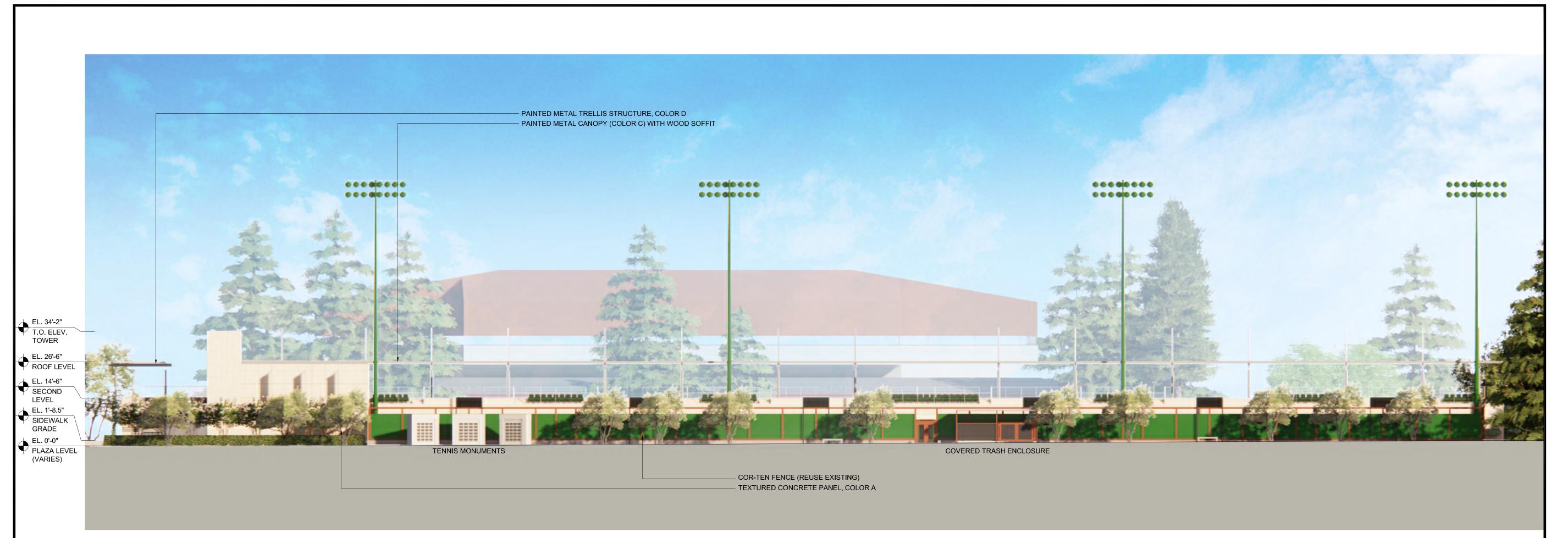
TENNIS CENTER ELEVATIONS

AS NOTED

SHEET TITLE

SHEET NUMBER

NORTH ELEVATION (VIEW FROM CHUCK TAYLOR GROVE)
1/16"=1'-0"



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)

PAINTED METAL TRELLIS STRUCTURE, COLOR C TEXTURED CONCRETE PANEL, COLOR A PAINTED METAL PICKET RAILING, COLOR D -PAINTED METAL CANOPY (COLOR C) WITH WOOD SOFFIT 00000000 00000000 \*\*\*\*\*\*\* ...... EL. 34'-2"
T.O. ELEV.
TOWER EL. 14'-6"
SECOND LEVEL EL. 1'-8.5" SIDEWALK GRADE EL. 0'-0"
PLAZA LEVEL
(VARIES) COR-TEN FENCE (REUSE EXISTING) -TEXTURED CONCRETE, COLOR A -

ISSUES AND REVISIONS

01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE
TENNIS CENTER

TENNIS CENTER ELEVATIONS

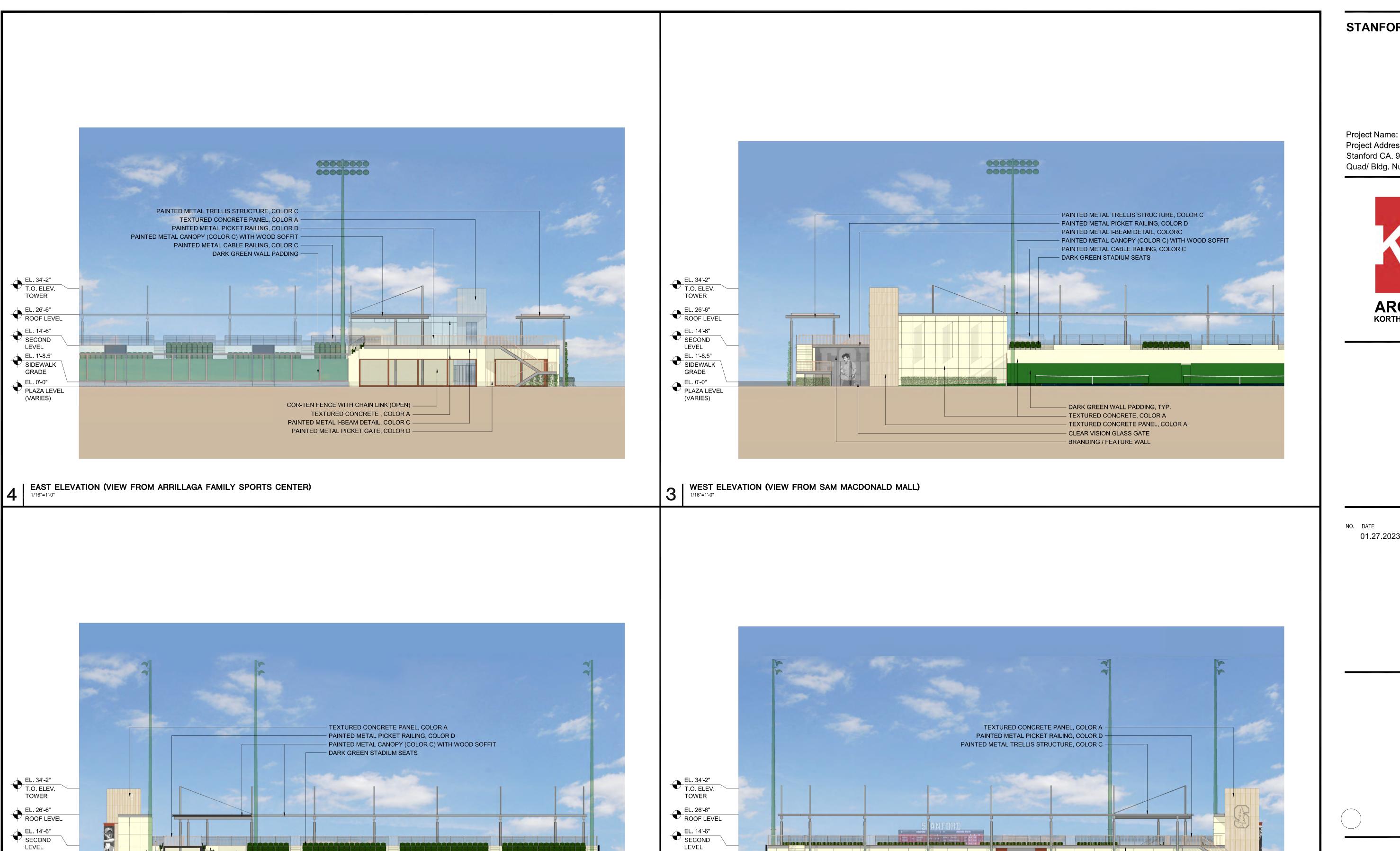
AS NOTED

SCALE

SHEET NUMBER

A3-3

EAST ELEVATION (VIEW FROM ARRILLAGA FAMILY SPORTS CENTER)
1/16"=1'-0"



EL. 1'-8.5"
SIDEWALK

GRADE

EL. 0'-0"
PLAZA LEVEL

(VARIES)

PAINTED METAL PICKET GATE, COLOR C

PAINTED METAL I-BEAM DETAIL, COLOR C

NORTH ELEVATION (VIEW FROM CHUCK TAYLOR GROVE)

1/16"=1'-0"

TEXTURED CONCRETE, COLOR A

BRANDING / FEATURE WALL

CLEAR VISION GLASS FENCE -

CLEAR VISION GLASS -

- DARK GREEN WALL PADDING, TYP.

- TEXTURED CONCRETE, COLOR A

- DARK GREEN WALL PADDING, TYP.

- BRANDING / FEATURE BANNERS

CLEAR VISION GLASS

PAINTED METAL PICKET GATE, COLOR C

COR-TEN FENCE WITH CHAIN LINK AND GREEN VINYL FABRIC

EL. 1'-8.5"
SIDEWALK

GRADE

EL. 0'-0"
PLAZA LEVEL

(VARIES)

SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)
1/16"=1'-0"

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ISSUES AND REVISIONS

DATE DESCRIPTION
01.27.2023 ASA SET

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SHEET TITLE

TENNIS CENTER BUILDING ELEVATIONS

SCALE

AS NOTED

SHEET NUMBER

**A 2 4** 

# EL. 34'-2" T.O. ELEV. TOWER EL. 26'-6" ROOF LEVEL EL. 14'-6" SECOND LEVEL EL. 1'-8.5" SIDEWALK GRADE EL. 0'-0" PLAZA LEVEL (VARIES) COR-TEN FENCE WITH CLEAR VISION GLASS -COR-TEN FENCE WITH CHAIN LINK AND GREEN VINYL FABRIC MUSCO SPORTS LIGHTS SMALL SCOREBOARD -

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ISSUES AND REVISIONS

01.27.2023 ASA SET

TENNIS CENTER FENCE ELEVATIONS

SHEET TITLE

SHEET NUMBER

EL. 34'-2" T.O. ELEV. TOWER EL. 26'-6"
ROOF LEVEL EL. 14'-6"
SECOND LEVEL EL. 1'-8.5"
SIDEWALK GRADE EL. 0'-0"
PLAZA LEVEL
(VARIES) LARGE VIDEO SCOREBOARD — COR-TEN FENCE WITH CHAIN LINK AND GREEN VINYL FABRIC MUSCO SPORTS LIGHTS SMALL SCOREBOARD

EAST ELEVATION (VIEW FROM ARRILLAGA FAMILY SPORTS CENTER)
1/16"=1'-0"

2 | WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)

# L Section of the sect

2 | SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

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SHEET TITLE

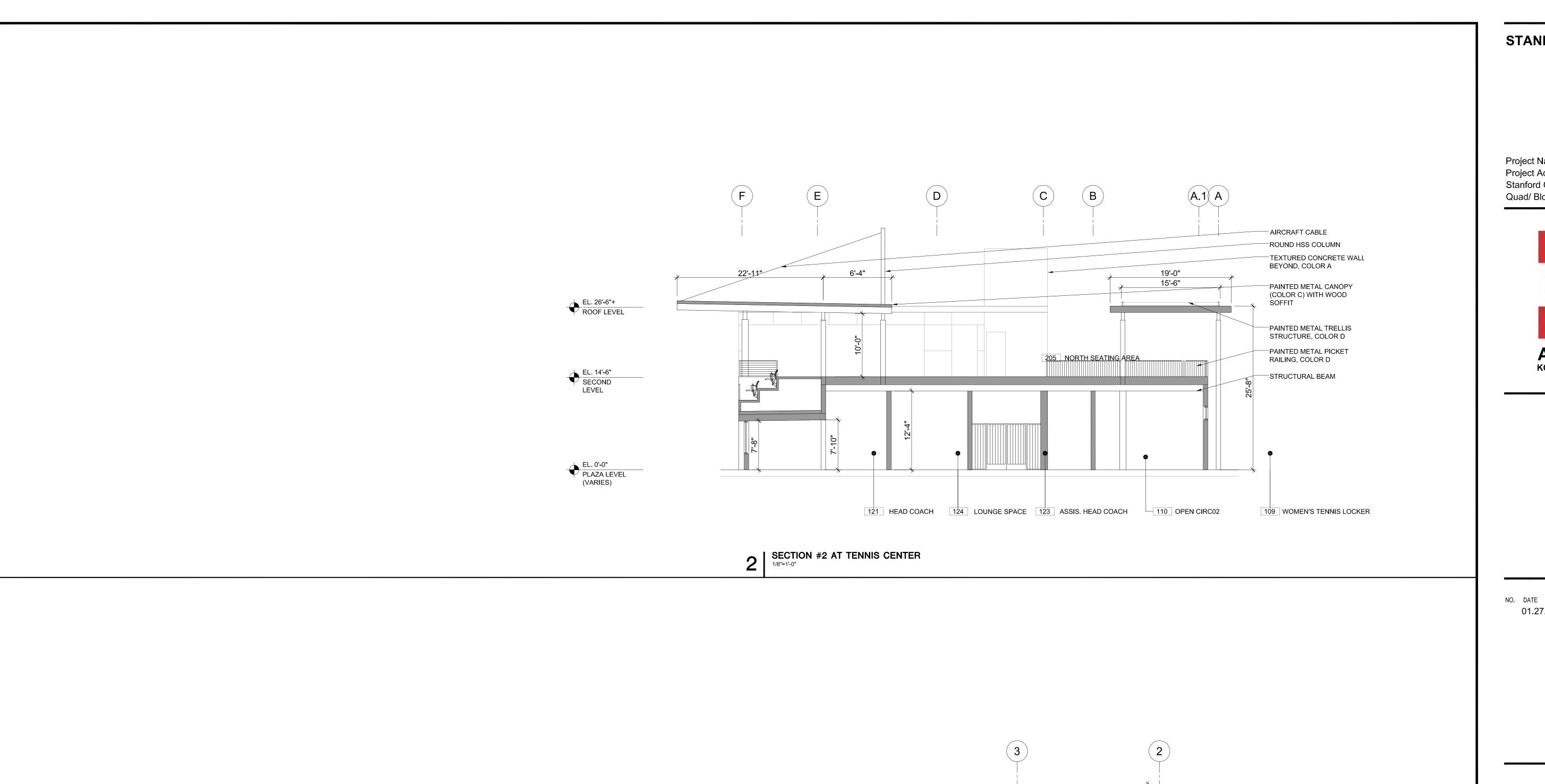
TENNIS CENTER FENCE ELEVATIONS

AS NOTED

SCALE

SHEET NUMBER

A3-6



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS
DESCRIPTION

01.27.2023 ASA SET

PROJECT NUMBER 22012

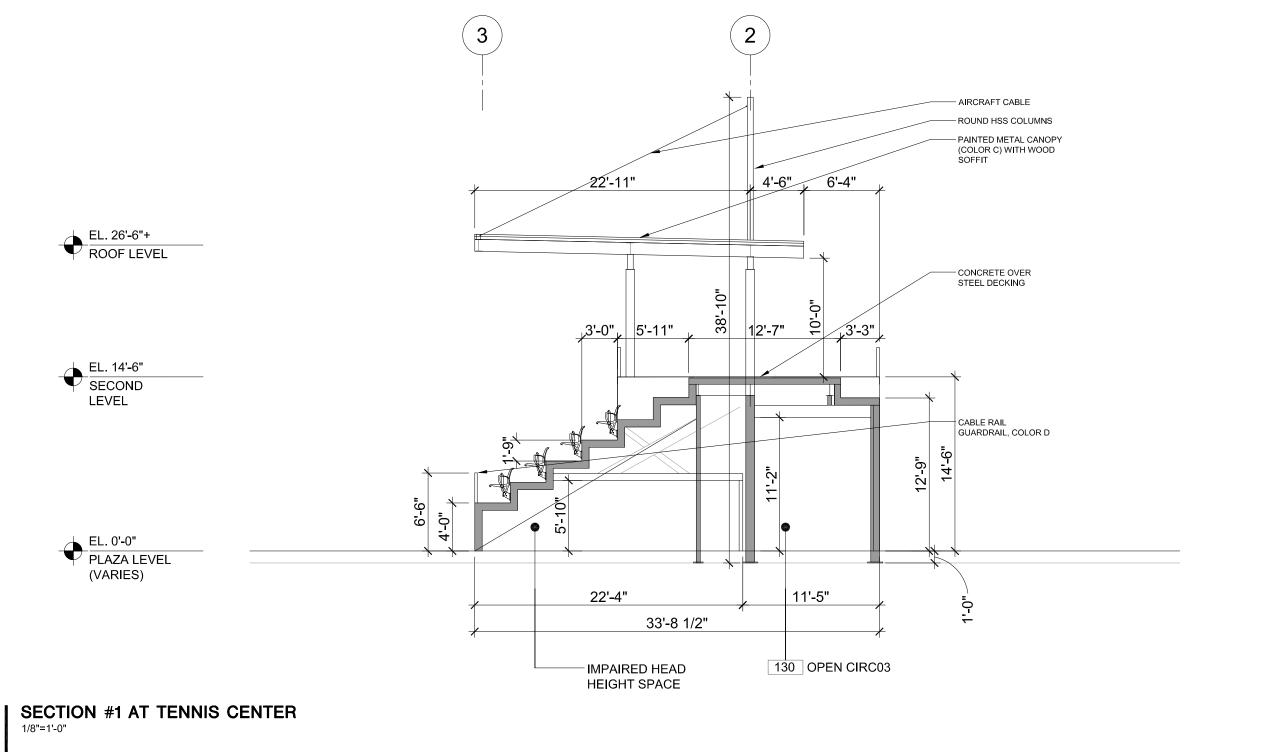
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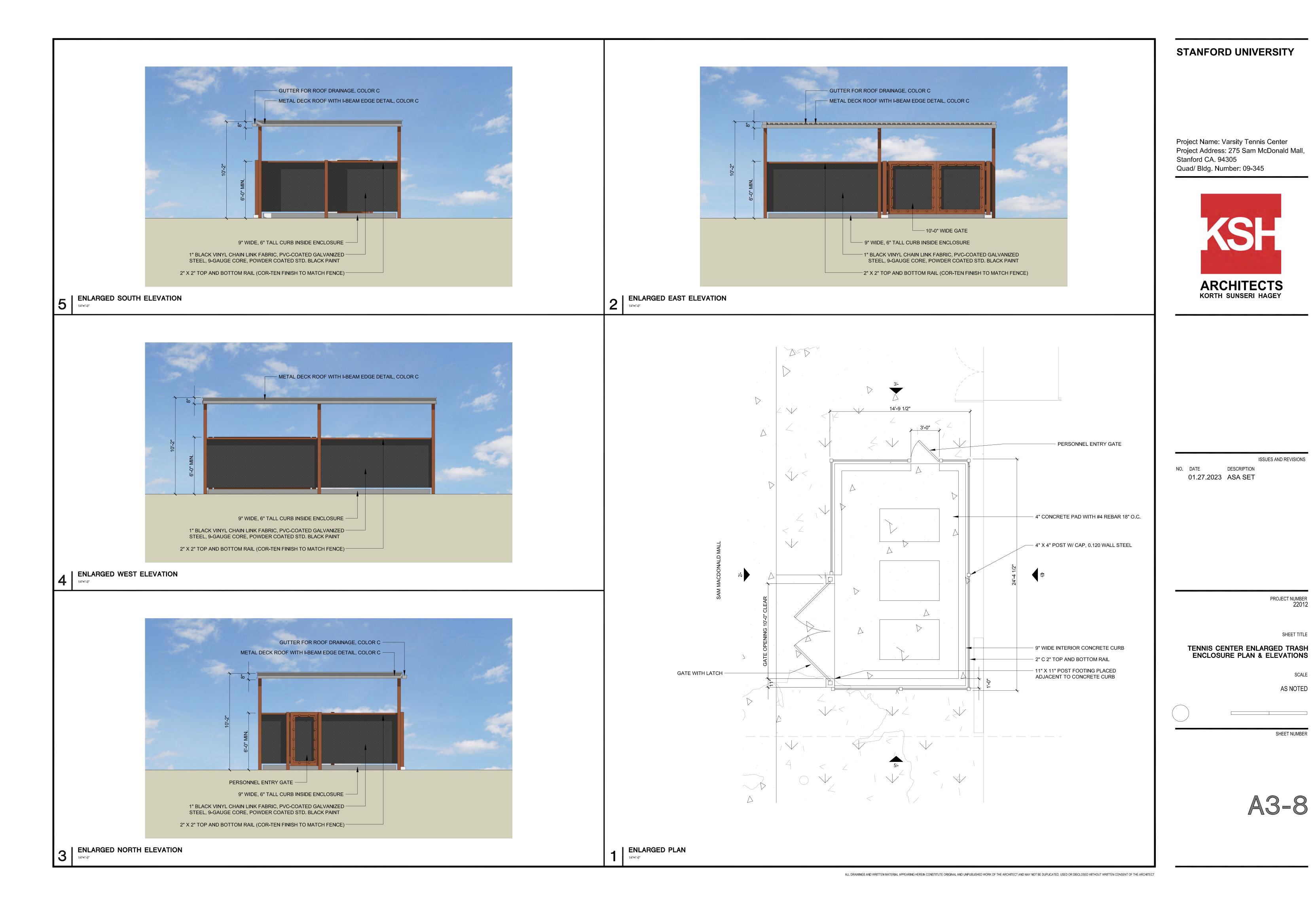
TENNIS CENTER SECTION

SCALE AS NOTED

SHEET NUMBER

A3-7







# 2 | VIEW FROM CHUCK TAYLOR GROVE



#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

O. DATE DESCRIPTION
01.27.2023 ASA SET

PROJECT NUMBE 2201

SHEET TITLE

TENNIS CENTER RENDERINGS

SCALE

SHEET NI IMBE

A4-1

VIEW FROM AVERY AQUATICS CENTER



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



2 | VIEW FROM AVERY AQUATICS CENTER

ISSUES AND REVISIONS

NO. DATE DESCRIPTION 01.27.2023 ASA SET

SHEET TITLE

TENNIS CENTER RENDERINGS

SHEET NUMBER





Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



2 | VIEW FROM TENNIS COURTS

ISSUES AND REVISIONS

NO. DATE DESCRIPTION 01.27.2023 ASA SET

TENNIS CENTER RENDERINGS

SHEET TITLE

SHEET NUMBER

■ | VIEW FROM TENNIS COURTS



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



2 | VIEW FROM TENNIS COURTS

ISSUES AND REVISIONS

01.27.2023 ASA SET

TENNIS CENTER RENDERINGS



#### Stanford Main Tennis Stadium

Standford, CA

#### Lighting System

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circui
T1, T8	80'	80'	1	TLC-LED-1200	1.17 kW	Α
		80'	3	TLC-LED-1500	4.29 kW	Α
T2, T7	80'	80'	1	TLC-LED-1200	1.17 kW	Α
		80'	4	TLC-LED-1500	5.72 kW	В
		80'	3	TLC-LED-1500	4.29 kW	Α
T3, T6 80'	80'	1	TLC-LED-1200	1.17 kW	С	
		80'	4	TLC-LED-1500	5.72 kW	В
		80'	3	TLC-LED-1500	4.29 kW	С
T4-T5	80'	80'	1	TLC-LED-1200	1.17 kW	С
		80'	3	TLC-LED-1500	4.29 kW	С
T9, T14	80'	80'	1	TLC-LED-1200	1.17 kW	D
		80'	3	TLC-LED-1500	4.29 kW	D
T10, T15	80'	80'	1	TLC-LED-1200	1.17 kW	D
		80'	4	TLC-LED-1500	5.72 kW	E
		80'	3	TLC-LED-1500	4.29 kW	D
T11, T16	80'	80'	1	TLC-LED-1200	1.17 kW	F
		80'	4	TLC-LED-1500	5.72 kW	E
		80'	3	TLC-LED-1500	4.29 kW	F
T12-T13	80'	80'	1	TLC-LED-1200	1.17 kW	F
		80'	3	TLC-LED-1500	4.29 kW	F
16			96		133.12 kW	

Circuit Summa	ry		
Circuit	Description	Load	Fixture Qty
A	Tennis 1-2	21.84 kW	16
В	Tenns 3-4	22.88 kW	16
С	Tennis 5-6	21.84 kW	16
D	Tennis 7-8	21.84 kW	16
E	Tennis 9-10	22.88 kW	16
F	Tennis 11-12	21.84 kW	16

Fixture Type Summary	Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity	
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	16	
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	80	

Single Luminaire Amperag	e Drav	v Ch	art					
Driver (.90 min power factor)	Max Line Amperage Per Luminaire							
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0	
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7	

#### Light Level Summary

Grid Name	Coloulation Matric			Olevente	First Or			
Grid Name	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty
All Courts	Horizontal	145	67	230	3.43	2.17	A,B,C,D,E, F	96
Blanket Spill	Horizontal	3.41	0	55	10832.47		A,B,C,D,E, F	96
Tennis 10	Horizontal Illuminance	125	115	149	1.30	1.09	E	16
Tennis 11	Horizontal Illuminance	130	116	151	1.31	1.12	F	16
Tennis 12	Horizontal Illuminance	133	118	149	1.26	1.13	F	16
Tennis 1	Horizontal Illuminance	130	112	143	1.27	1.17	Α	16
Tennis 2	Horizontal Illuminance	131	114	149	1.30	1.15	Α	16
Tennis 3	Horizontal Illuminance	129	107	146	1.36	1.20	В	16
Tennis 4	Horizontal Illuminance	129	110	148	1.35	1.17	В	16
Tennis 5	Horizontal Illuminance	130	116	151	1.31	1.12	С	16
Tennis 6	Horizontal Illuminance	130	116	149	1.29	1.12	С	16
Tennis 7	Horizontal Illuminance	133	124	145	1.17	1.07	D	16
Tennis 8	Horizontal Illuminance	128	112	146	1.30	1.14	D	16
Tennis 9	Horizontal Illuminance	125	115	149	1.30	1.09	E	16

ENGINEERED DESIGN By: D. Lohman · File #218368C\_Horizontal Blanket · 09-Feb-23

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



From Hometown to Professional

ISSUES AND REVISIONS

NO. DATE DESCRIPTION
01.27.2023 ASA SET

PROJECT NUMBER 2201

SHEET TITLE

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE

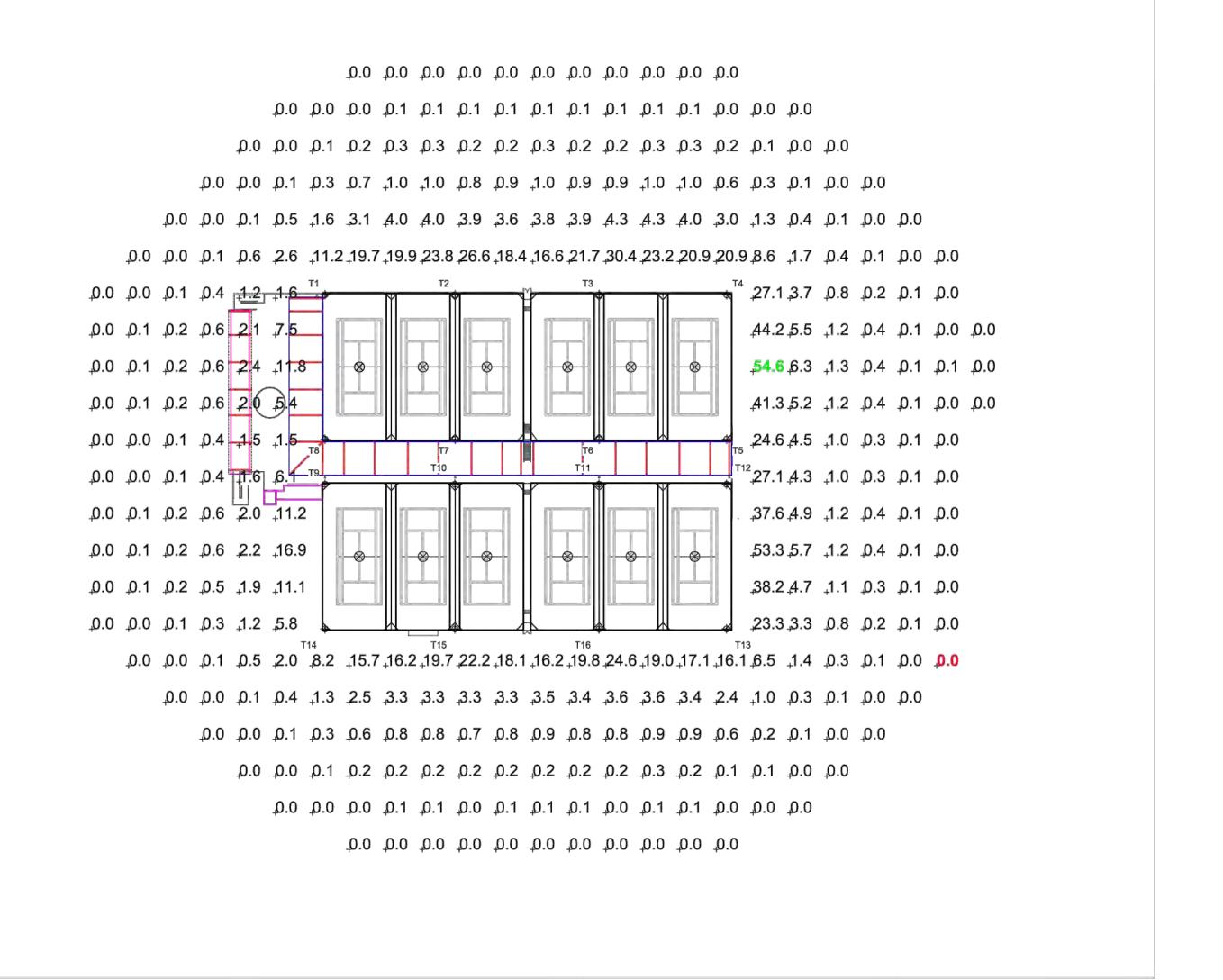
A5-C

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PROJECT SUMMARY

EQI	JIPMENT LI	ST FOR	R AREAS SH	HOWN	3.53					
	P	ole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS		
4	T1, T4-T5	80'	-	80'	TLC-LED-1200	1	1	0		
	T8			80'	TLC-LED-1500	3	3	0		
4	T2-T3	80'	-	80'	TLC-LED-1200	1	1	0		
	T6-T7			80'	TLC-LED-1500	7	7	0		
4	T9, T12-T14	80'	0'	80'	TLC-LED-1500	3	3	0		
	-			80'	TLC-LED-1200	1	1	0		
4	T10-T11	80'	0'	80'	TLC-LED-1200	1	1	0		
	T15-T16			80'	TLC-LED-1500	7	7	0		
16			TOTALS			96	96	0		



#### **Stanford Main Tennis Stadium** Standford, CA

**GRID SUMMARY** Name: Blanket Spill Spacing: 30.0' x 30.0' Height: 3.0' above grade

ILLUMINATION S	UMMARY
MAINTAINED HORIZONTA	AL FOOTCANDLES
	Entire Grid
Scan Average:	3.41
Maximum:	55
Minimum:	0
Avg / Min:	676.24
Max / Min:	10832.47
UG (adjacent pts):	9.31
CU:	0.07
No. of Points:	335
LUMINAIRE INFORMATIO	N .
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	96
Total Load:	133.12 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE 01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE N.T.S.

SHEET NUMBER

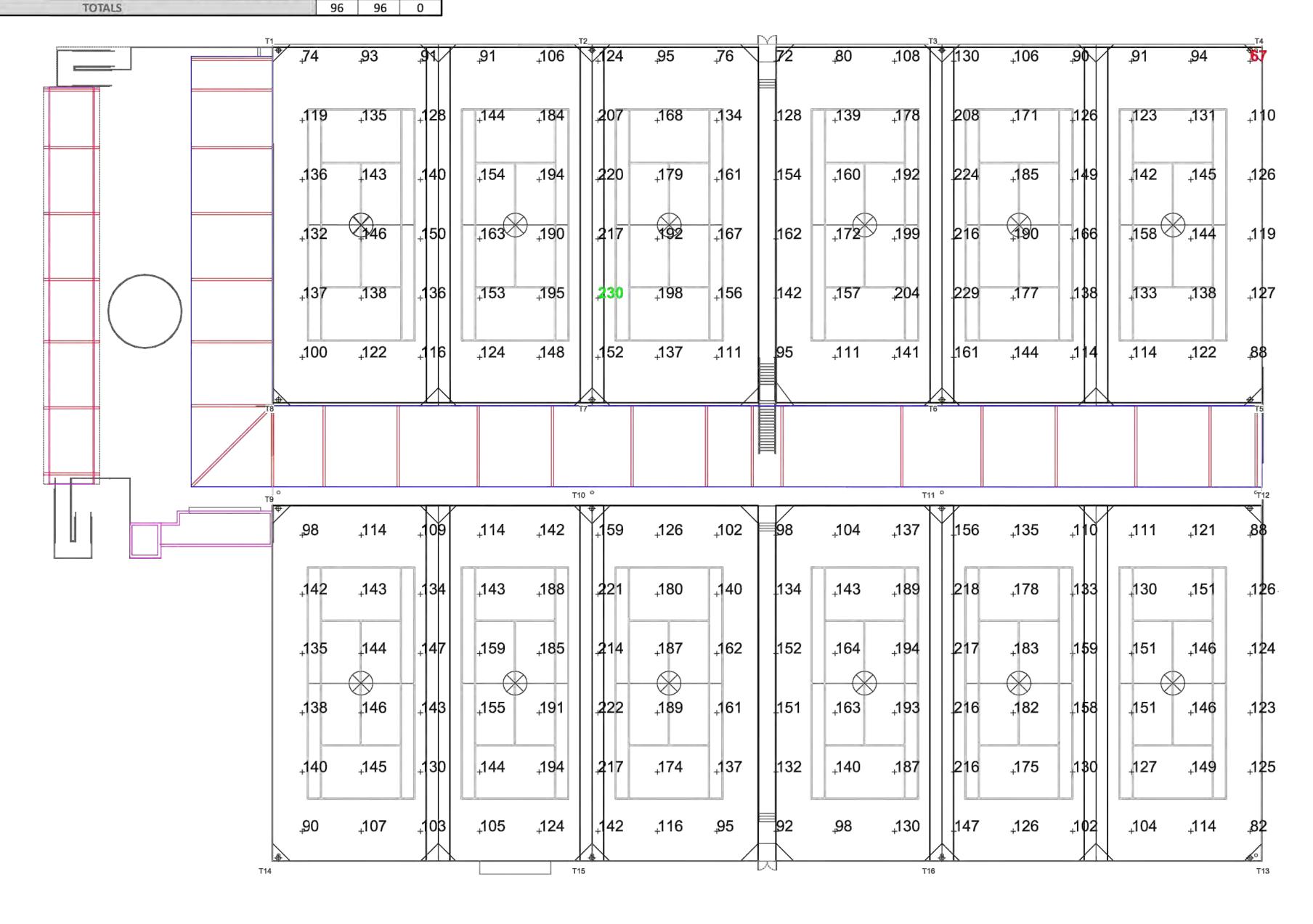
MUSCO Pole location(s)  $\Phi$  dimensions are relative We Make It Happen to 0,0 reference point(s)

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ILLUMINATION SUMMARY

SCALE IN FEET 1:60

#### **EQUIPMENT LIST FOR AREAS SHOWN** Luminaires LUMINAIRE TYPE MOUNTING HEIGHT GRADE ELEVATION SIZE LOCATION 80' T1, T4-T5 TLC-LED-1200 TLC-LED-1500 T2-T3 80' TLC-LED-1200 TLC-LED-1500 T6-T7 T9, T12-T14 TLC-LED-1500 TLC-LED-1200 T10-T11 TLC-LED-1200 80' TLC-LED-1500 T15-T16



#### **Stanford Main Tennis Stadium** Standford, CA

GRID SUMMARY	
100000000	All Courts 20.0' x 20.0'
Height:	0.0' above grade
ILLUMINATION S	UMMARY
MAINTAINED HORIZONTA	AL FOOTCANDLES
	Entire Grid

1 1 1 2 3 1 1 1 2 1 3 1 3 1 3 1 3 1 3 1		
	Entire Grid	
Scan Average:	145.06	
Maximum:	230	
Minimum:	67	
Avg / Min:	2.17	
Max / Min:	3.43	
UG (adjacent pts):	1.78	
CU:	0.77	
No. of Points:	204	
LUMINAIRE INFORMATIO	N	
Applied Circuits:	A, B, C, D, E, F	
No. of Luminaires:	96	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Total Load: 133.12 kW

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE 01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER POLE LIGHTING **EXHIBIT AND PHOTOMETRICS** 

SCALE

N.T.S.

SHEET NUMBER

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**ILLUMINATION SUMMARY** 

ENGINEERED DESIGN By: D. Lohman · File #218368C\_Horizontal Blanket · 09-Feb-23

SCALE IN FEET 1:20

# \_\_\_\_ T10 °

ENGINEERED DESIGN By: D. Lohman · File #218368C\_Horizontal Blanket · 09-Feb-23

#### **Stanford Main Tennis Stadium**

Standford, CA

#### **EQUIPMENT LAYOUT** INCLUDES: · Tennis 1 · Tennis 10 · Tennis 11 · Tennis 12 · Tennis 2 · Tennis 3 · Tennis 4 · Tennis 5 · Tennis 6 · Tennis 7 · Tennis 8 · Tennis 9

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

	D	ole			Luminaires	_
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/ POLE
8	T1, T4-T5	80'	-	80'	TLC-LED-1200	1
	T12-T14			80'	TLC-LED-1500	3
	T8-T9					
8	T10-T11	80'	-	80'	TLC-LED-1200	1
	T15-T16			80'	TLC-LED-1500	7
	T2-T3					
	T6-T7					
16			TOTAL	S		96

Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)							
Single Phase Voltage	208	220	240	277 (60)	347 (60)	380 (60)	480	
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0	
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7	

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE DESCRIPTION 01.27.2023 ASA SET

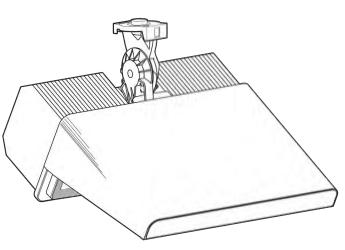
TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE

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**EQUIPMENT LAYOUT** 

#### Datasheet: TLC-LED-1500 Luminaire and Driver



#### Luminaire Data

Weight (luminaire)	67 lb (30 kg
UL listing number	E338094 (pending
UL listed for USA/Canada	UL1598 CSA-C22 No.250.0 (pending
CE Declaration	LVD, EMC, RoH
Ingress protection (luminaire)	IP6
Impact rating	IKO
Material and finish	Aluminun powder-coat painte
Wind speed rating (aiming only)	150 mi/h (67 m/
UL, IEC ambient temperature rating (luminaire)	50°C (122°F) (pending

#### Photometric Characteristics

Projected lumen maintenance per l	ES TM-21-11
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	181,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

#### Datasheet: TLC-LED-1500 Luminaire and Driver

#### **Driver Data**

**Electrical Data** 

Rated wattage<sup>1</sup>

•		
Per driver	1410 W	Surge .
Per luminaire	1410 W	protection <sup>†</sup>
Number of luminaires per driver	1	Controller
Starting (inrush) current	<40 A, 256 μs	L1 Disconnect Fuse Driver +
Fuse rating	15 A	
UL, IEC ambient temperature rating	50°C	L2* Fuse
(electrical components enclosure)	(122°F) (pending)	* If L2 is neutral then not switched or fused.
Ingress protection (electrical	IP54	† Not present if indoor installation.
components enclosure)		
Efficiency	95%	
Dimming mode	optional	
Range, energy consumption	10 – 100%	
Range, light output	15 – 100%	
Flicker	<2%	
Total harmonic distortion (THD) at	<20% (pending)	

full output											
			220 Vac								
	50/60 Hz	60 Hz	50/60 Hz	50 Hz	50/60 Hz	60 Hz	60 Hz	50/60 Hz	50 Hz	50 Hz	60
	The same of the sa	ACCOUNT OF THE PARTY OF THE PARTY.	THE RESERVE OF THE PERSON NAMED IN		Company of the last of the las	CONTROL OF THE PERSONS	A STATE OF THE PERSON NAMED IN	THE RESERVE AND ADDRESS OF THE PARTY.	Manager and Street Street, Str	THE RESERVE AND ADDRESS OF THE PERSONS ASSESSED.	-

8.71 A 8.37 A 7.92 A 7.57 A 7.26 A 6.29 A 5.02 A 4.59 A 4.36 A 4.20 A 3.63 A

#### Footnotes:

1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.

2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

#### Notes

Use thermal magnetic HID-rated or D-curve circuit breakers.
 See Musco Control System Summary for circuit information.

4



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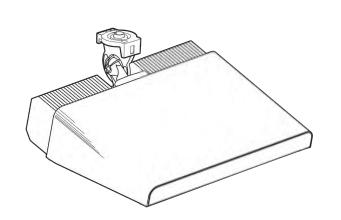
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\* If L2 is neutral then not switched or fused. † Not present if indoor installation.

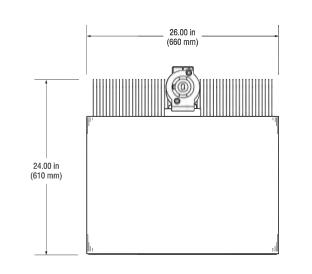
Typical Wiring

Typical Wiring

#### Datasheet: TLC-LED-1200 Luminaire and Driver



25.00 in (635 mm)



#### Luminaire Data

Edilliali & Data	
Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094 (pending)
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0 (pending)
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F) (pending)

#### Photometric Characteristics

Projected lumen maintenance per IE	S TM-21-11
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	150,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

# Datasheet: TLC-LED-1200 Luminaire and Driver Driver Data

Total harmonic distortion (THD) at

Electrical Data	
Rated wattage <sup>1</sup>	
Per driver	1170 W
Per luminaire	1170 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μs
Fuse rating	15 A
UL, IEC ambient temperature rating (electrical components enclosure)	50°C (122°F) (pending)
Ingress protection (electrical components enclosure)	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	13 – 100%
Range, light output	18 – 100%

ull output												
		2000	220 Vac 50/60 Hz		ATTENDED TO STATE			ESTATE OF THE PARTY OF THE PART		100 CO (100 CO (100 CO)	4	
Max operating current er luminaire²	7.20 A	6.92 A	6.54 A	6,26 A	6.00 A	5.20 A	4.15 A	3.79 A	3.60 A	3.47 A	2	

<2%

<20% (pending)

#### Footnotes:

1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.

2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

#### Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.

Use thermal magnetic HID-rated or D-curve circuit breakers
 See *Musco Control System Summary* for circuit information.

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO. DATE DESCRIPTION
01.27.2023 ASA SET

PROJECT NUMBER 22012

SHEET TITLE

TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE

SHEET NUMBER

A5-4



U.S. and foreign patent(s) issued and pending • ©2023 Musco Sports Lighting, LLC • TLC-LED-1200 5700K 75 CRI Typ • M-2943-en04-6\_2023



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#### **ABBREVIATIONS** AGGREGATE BASE ASPHALT CONCRETE AREA DRAIN - AMERICANS WITH DISABILITIES ACT AGGREGATE SUBBASE BEGINNING OF CURVE - BACK FLOW PREVENTOR BLDC BUILDING CORNER BLDG BUILDING BOD - BOTTOM OF DOCK *BOL* BOLLARD - BOTTOM OF STEP BOS BOW - FG @ BOTTOM OF WAL - BEGIN VERTICAL CURVE - BACK OF WALK - CONCRETE OR CIVIL CURB AND GUTTER CATCH BASIN - COMBINATION INLET CAST IRON PIPE - CENTER LINE OR CLASS - CORRUGATED METAL PIPE CLEANOUT COI - CURB OPENING INLET CONC CONCRETE CONST CONSTRUCTION OR CONSTRUCT CUBIC YARD - DOUBLE CHECK DETECTOR ASSEMBLY DROP INLET - DUCTILE IRON PIPE DOMESTIC - DOMESTIC WATER DRAWING EAST - END OF CURVE - EDGE OF PAVEMENT ER END OF RETURN END VERTICAL CURVE ELEVATION **ELEV** EX., EXIST. EXISTING - FACE OF CURB - FIRE DEPARTMENT CONNECTION - FINISHED FLOOR - FINISHED GRADE FIRE HYDRANT FLOW LINE FOUNDATION - FINISHED SURFACE FOOT FIRE WATER - GROUND ELEVATION GRADE BREAK GATE VALVE HCR - ACCESSIBLE RAMP HIGH POINT INVERT ELEVATION - JOINT POLE JOINT TRENCH LIP OF GUTTER - LOW POINT LANDSCAPE ARCHITECT MAXIMUM MEP MECHANICAL/ELECTRICAL/PLUMBING MANHOLE MINIMUM - MIDPOINT OF VERTICAL CURVE MONUMENT NORTH N.I.C. NOT IN CONTRACT - NUMBER NTS NOT TO SCALE PAVEMENT ELEVATION PCC - PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE POST INDICATOR VALVE PROPERTY LINE POWER MANHOLE POINT ON CURVE POWER POLE

POINT OF REVERSE CURVATURE

POLYVINYL CHLORIDE PIPE

- REINFORCED CONCRETE PIPE

- SEE ARCHITECTURAL DRAWINGS

- SEE ELECTRICAL DRAWINGS

- SEE LANDSCAPE DRAWINGS

SEE MECHANICAL DRAWINGS

- SEE PLUMBING DRAWINGS

- RELATIVE COMPACTION

- RIGHT OF WAY

- SLOPE OR SOUTH

SEDIMENT BASIN

SIGNAL MANHOLE

SANITARY SEWER

STORM DRAIN

SILT FENCE

SUBGRADE

STATION

SIDEWALK

STANDARD

- TOP OF CURB

TRENCH DRAIN

TOP OF DOCK

- TOE OF SLOPE

- TOP OF STAIR

- TOP OF SLAB

UNDERGROUND

WATER METER

– WATER VALVE

VERTICAL CURVE

WELDED WIRE FABRIC

TYPICAL

WEST

APPROVED FOR ISSUANCE. REFER TO

PERMIT AND PLAN COVER SHEET FOR

SPECIAL CONDITIONS

ENCROACHMENT AND / OR CONSTRUCTION

- FG @ TOP OF WALL

UNLESS OTHERWISE NOTED

RADIUS

PVC

RCP

RPPA

R/W

S.A.D.

S.M.D.

SMH

S.P.D.

STA

STD

S/W

TOD

TOE

TOW

UON

U/G

WWF

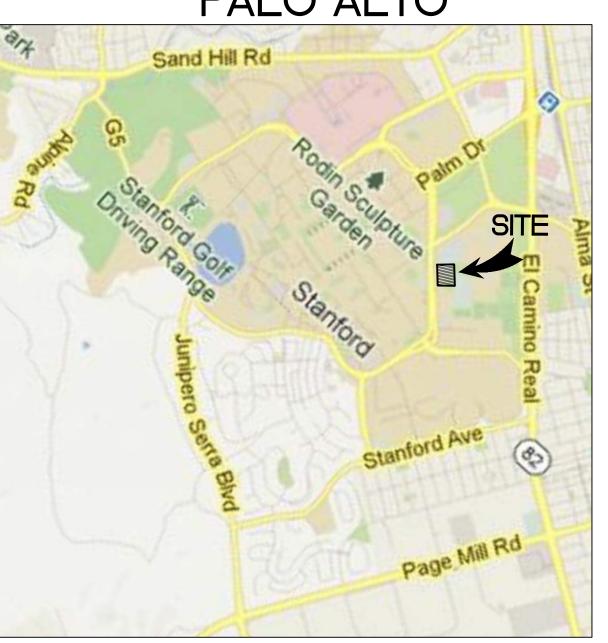
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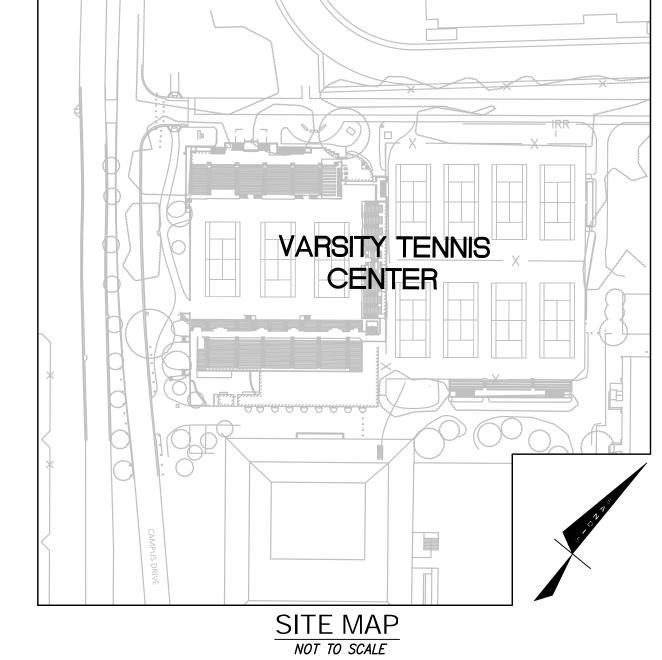
# STANFORD UNIVERSITY

#### VARSITY TENNIS CENTER **BUILDING 09-345**

PALO ALTO

CALIFORNIA





**VICINITY MAP** NOT TO SCALE

#### **EARTHWORK FOR CONSTRUCTION NOTE**

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. CONTRACTOR IS TO DELIVER TO OWNER THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER.

#### TOPOGRAPHIC SURVEY NOTES

TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON MULTIPLE SUPPLEMENTAL TOPOGRAPHIC SURVEYS COMPLETED BY SANDIS, UNDER THE DIRECTION OF LAURA CABRAL. PLS 7756. IN ADDITION TO BASEMAP INFORMATION PROVIDED BY STANFORD UNIVERSITY.

#### **DEMOLITION NOTES**

- CONTRACTOR SHALL PROVIDE LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR DEMOLISHING, CUTTING, CAPPING, REMOVING AND DISPOSING OF EXISTING IMPROVEMENTS AS DESIGNATED AND SHOWN ON THE DRAWINGS AND AS REQUIRED, UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR SHALL DEMOLISH, ABANDON OR REROUTE EXISTING UTILITIES AS REQUIRED FOR NEW CONSTRUCTION. UTILITIES AND APPURTENANCES TO REMAIN WITHIN THE PROJECT LIMIT OF WORK SHALL BE PROTECTED.
- 3. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE LIGHTING SYSTEM UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH THE OWNER'S - REDUCED PRESSURE PRINCIPLE ASSEMBLY *REPRESENTATIVE.* 
  - 5. ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED CAREFULLY, CLEANED AND DELIVERED TO THE OWNER. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
  - 6. CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

#### SCOPE OF WORK

CLEAR AND GRUB. BUILDING AND PAVEMENT DEMOLITION, UTILITY WORK, TEMPORARY AND PERMANENT EROSION CONTROL, AND ALL OTHER ASSOCIATED WORK FOR EXPANSION OF

#### STREET CLEANING NOTE

THE PRIME CONTRACTOR OR DEVELOPER IS TO HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM UNIVERSITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES. THE STREET CLEANING CONTRACTOR IS TO HAVE THE CAPABILITY OF WASHING THE STREETS FROM A TANKER TRUCK WITH A HIGH-PRESSURE NOZZLE WITH RECLAIMED WATER, WHERE FEASIBLE, AND/OR SWEEPING THE STREETS WITH BOTH A BROOM-TYPE SWEEPER AND A REGENERATIVE AIR VACUUM SWEEPER, AS DIRECTED BY THE DISTRICT, OR HIS/ HER DESIGNATED REPRESENTATIVE.

#### SHUT DOWN NOTE

CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS WITH OWNER. NO SHUT DOWNS OF ANY SERVICES WILL BE ALLOWED WITHOUT PRIOR SCHEDULE APPROVAL OF OWNER AND THEIR TENANTS.

#### **DISCREPANCIES**

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

#### **HYDROMODIFICATION NOTE**

THE PROJECT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS PER THE SANTA CLARA COUNTY C.3 TECHNICAL GUIDANCE DOCUMENT. THE PROJECT IS EXEMPT FROM HYDROMODIFICATION DUE TO THE SITE BEING LOCATED IN A WATER SHED THAT DISCHARGES TO A TIDAL AREA, HARDENED CHANNEL, OR DIRECTLY TO THE BAY.

SITE IS LOCATED WITHIN ZONE D BASED ON FIRM MAP PANEL NUMBER 06085 C0016H, DATED MAY 18 2009. ZONE D IS THE AREA DETERMINED TO BE AREAS FOR WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE

#### **UTILITY NOTE**

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES. EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

#### GEOTECHNICAL REPORT NOTE

GEOTECHNICAL INVESTIGATION FOR VARSITY TENNIS CENTER BY XXXX, DATED XXX X,

#### FIRE SYSTEM NOTES

THE CONTRACTOR SHALL DESIGN. PREPARE SHOP DRAWINGS FOR. OBTAIN ALL REQUIRED APPROVALS, AND CONSTRUCT THE FIRE SYSTEM FOR THE PROPOSED PROJECT. CONTRACTOR SHALL HAVE SHOP DRAWINGS STAMPED BY A FIRE PROTECTION ENGINEER AS REQUIRED BY

#### **ENGINEER'S STATEMENT**

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED

R.C.E. NO. SIGNA TURE

#### COUNTY ENGINEER'S NOTE

ISSUED BY: \_\_\_\_\_

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

SIGNA TURE

		R.C.E. NO.	EXPIRATION DATE
	COUNTY OF SANTA	CLARA	
LAND DEVEL	OPMENT ENGINEERI	NG & SURVEYING	
CONSTRUCTION	PERMIT NO		
GRADING PERMI	T NO		

#### **CIVIL SHEET INDEX**

COUNTY LOCATION MAP

PROJECT LOCATION

LOS GATOS

PALO ALTO

EXPIRATION DATE

COVER SHEET CONSTRUCTION NOTES FIRE SAFETY NOTES C-2.0 TOPOGRAPHIC SURVEY C-3.0 DEMOLITION AND TREE DISPOSITION PLAN DEMOLITION AND TREE DISPOSITION PLAN C-4.0 GRADING AND DRAINAGE PLAN C-5.0 UTILITY PLAN C-6.0 STORMWATER MANAGEMENT PLAN C-7.0EROSION CONTROL PLAN COUNTY BMP NOTES COUNTY BMP NOTES CONSTRUCTION SITE LOGISTICS AND SAFETY PLAN C-8.0 FIRE TRUCK ROUTE PLAN AND FIRE ANALYSIS C-9.0



#### CENTER LINE SANITARY SEWER MAIN STORM DRAIN MAIN PERFORATED PIPE WATER MAIN FIRE WATER MAIN CHILLED WATER MAIN IRRIGATION LINE HOT WATER SUPPLY & RETURN STEAM LINE LAKE WATER LINE TRENCH DRAIN CONDENSATE RETURN FLOW LINE CHAIN LINK FENCE — x — x — GAS MAIN ELECTRIC AND SIGNAL DUCT BANK OVERHEAD ELECTRIC LINE UNDERGROUND ELECTRIC LINE STREET LIGHT CONDUIT CONTOUR ELEVATION LINE SPOT ELEVATION x 95.94 \$\*\*/ DIRECTION OF SLOPE GAS METER GAS VALVE WATER VALVE FIRE HYDRANT BACK FLOW PREVENTOR POST INDICATOR VALVE FIRE DEPARTMENT CONNECTION WATER LINE TEE CAP AND PLUG END AIR RELEASE VALVE ACCESSIBLE RAMP CONCRETE THRUST BLOCK REDUCER SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT SSCO STORM DRAIN MANHOLE $\bigcirc$ STORM DRAIN AREA DRAIN STORM DRAIN CATCH BASIN □ CB STORM DRAIN CURB INLET STORM DRAIN CLEANOUT • <del>\*</del> \* • \* ELECTROLIER JOINT POLE OVERLAND RELEASE DETAIL REFERENCE CONSTRUCTION DETAIL REFERENCE SHEET REFERENCE

**EXISTING** 

PROPOSED

LEGEND

RETAINING WALL

A.C. PAVEMENT

CONC. VALLEY GUTTER

6" CURB & GUTTER

6" VERTICAL CURB

CONC. SIDEWALK OR PAD

EDGE OF A.C. PAVEMENT

SAWCUT AND CONFORM LINE

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall. Stanford CA. 94305 Quad/ Bldg. Number: 09-345





ISSUES AND REVISIONS NO. DATE DESCRIPTION 01.27.2023 ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

**COVER SHEET** 

SCALE

SHEET NUMBER

**UNAUTHORIZED CHANGES AND USES** 

CAUTION: The engineer preparing these plans will not be responsible

for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility

for job site conditions during the course of construction of the project, including safety of

all persons and property; that this requirement shall be made to apply continuously and not

be limited to normal working hours and construction contractor further agrees to defend,

indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

Consulting Engineers

& Land Surveyors

of California

by the preparer of the plans.

# COUNTY OF SANTA CLARA GENERAL CONSTRUCTION SPECIFICATIONS

#### GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY CORNERSTONE EARTH GROUP. THIS REPORT IS SUPPLEMENTED BY:
- 1) THESE PLANS AND SPECIFICATIONS,
- 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS.
- 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS,
- 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
  IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
- 2. DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.
- 3. DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.
- 4. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.
- 5. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA.
- 6. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- 7. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
- 8. ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
- 9. UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18).
- 10. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- 11. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE—APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.
- 12. "THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PM10 CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES.
  - A. WATER ALL ACTIVE CONSTRUCTION AREA AT LEAST TWICE DAILY.
  - B. COVER ALL TRUCK HAULING SOIL, SAND AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
  - C. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
  - D. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS. AND STAGING AREAS AT CONSTRUCTIONS SITES.
  - E. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL ARE CARRIED ONTO ADJACENT PUBLIC STREETS.
  - F. HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREA (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
  - G. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND).
  - H. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.
  - INSTALL FIBER ROLLS, SAND BAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
  - J. REPLANT VEGETATIONS DISTURBED AREAS AS QUICKLY AS POSSIBLE.
  - K. INSTALL WHEEL WASHERS FOR ALL EXISTING TRUCKS, OR WASH OFF THE TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE AND
  - L. SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH.
- 13. PLACE A CONSTRUCTION NOTE ON THE SITE PLAN THAT STATES THE FOLLOWING:
  "ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT
  EQUIPMENT AND EMISSIONS CONTROL" CLEAN FUEL" WHERE FEASIBLE USE
  TECHNOLOGY (E.G. CNS FIRED ENGINES, CATALYTIC CONVERTERS, PARTICULATE
  TRAPS, ETC.). MEASURES TO REDUCE DIESEL EMISSION WOULD BE CONSIDERED
  FEASIBLE WHEN THEY ARE CAPABLE OF BEING USED ON EQUIPMENT, WITHOUT
  INTERFERING SUBSTANTIALLY WITH EQUIPMENT PERFORMANCE.
- 14. IN THE EVENT THAT PREVIOUSLY UNIDENTIFIED HISTORIC AND PREHISTORIC ARCHAEOLOGICAL RESOURCES ARE DISCOVERED DURING BUILDING CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IN THE IMMEDIATE AREA AND THE COUNTY PLANNING OFFICE AND CAMPUS ARCHAEOLOGIST SHALL BE CONTACTED. AN INDEPENDENT QUALIFIED ARCHAEOLOGIST RETAINED BY THE COUNTY AT THE EXPENSE OF STANFORD SHALL ASSESS THE SIGNIFICANCE OF THE FIND AND MAKE MITIGATION RECOMMENDATIONS.

- 15. IF ARCHEOLOGICAL RESOURCES ARE DISCOVERED AS DESCRIBED ABOVE, CONSTRUCTION MONITORING SHALL BE CONDUCTED AT ANY TIME GROUND-DISTURBING ACTIVITIES (GREATER THAN 12 IN DEPTH) ARE TAKING PLACE IN THE IMMEDIATE VICINITY OF THE IDENTIFIED RESOURCES. IF MONITORING DOES NOT PRODUCE EVIDENCE OF SIGNIFICANT CULTURAL RESOURCES WITHIN THE PROJECT AREA, FURTHER MITIGATION SHALL BE LIMITED TO CONSTRUCTION MONITORING, UNLESS ADDITIONAL TESTING OR OTHER SPECIFIC MITIGATION MEASURES ARE DETERMINED BY A QUALIFIED ARCHAEOLOGIST TO BE NECESSARY TO ENSURE AVOIDANCE OR DAMAGE TO SIGNIFICANT ARCHEOLOGICAL RESOURCES. A TECHNICAL REPORT OF FINDINGS DESCRIBING THE RESULTS OF ALL MONITORING SHALL BE PREPARED IN ACCORDANCE WITH PROFESSIONAL STANDARDS. THE ARCHAEOLOGICAL MONITORING PROGRAM SHALL BE IMPLEMENTED BY AN INDIVIDUAL MEETING THE SECRETARY OF INTERIOR PROFESSIONAL QUALIFICATIONS STANDARDS IN ARCHAEOLOGY (36 CFR 61): INDIVIDUAL FIELD MONITORS SHALL BE QUALIFIED IN THE RECOGNITION OF CULTURAL RESOURCES AND POSSESS SUFFICIENT ACADEMIC AND FIELD TRAINING AS REQUIRED TO CONDUCT THE WORK EFFECTIVELY AND WITHOUT UNDUE
- 16. IN THE EVENT THAT HUMAN SKELETAL REMAINS ARE ENCOUNTERED, THE APPLICANT IS REQUIRED BY COUNTY ORDINANCE NO. B6—18 TO IMMEDIATELY NOTIFY THE COUNTY CORONER. UPON DETERMINATION BY THE COUNTY CORONER THAT THE REMAINS ARE NATIVE AMERICAN, THE CORONER SHALL CONTACT THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION, PURSUANT TO SUBDIVISION (C) OF SECTION 7050.5 OF THE HEALTH AND SAFETY CODE AND THE COUNTY COORDINATOR OF INDIAN AFFAIRS. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY COORDINATOR OF INDIAN AFFAIRS IN ACCORDANCE WITH THE PROVISIONS OF STATE LAW AND THIS CHAPTER. IF ARTIFACTS ARE FOUND ON THE SITE A QUALIFIED ARCHAEOLOGIST SHALL BE CONTACTED ALONG WITH THE COUNTY PLANNING OFFICE. NO FURTHER DISTURBANCE OF THE ARTIFACTS MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY PLANNING OFFICE.
- 17. IN THE EVENT THAT FOSSILIZED SHELL OR BONE IS UNCOVERED DURING ANY EARTH—DISTURBING OPERATION, CONTRACTORS SHALL STOP WORK IN THE IMMEDIATE AREA OF THE FIND AND NOTIFY THE CAMPUS ARCHAEOLOGIST AND THE COUNTY BUILDING INSPECTOR ASSIGNED TO THE PROJECT. THE CAMPUS ARCHAEOLOGIST SHALL VISIT THE SITE AND MAKE RECOMMENDATIONS FOR TREATMENT OF THE FIND (INCLUDING BUT NOT LIMITED TO CONSULTATION WITH A PALEONTOLOGIST AND EXCAVATION, IF WARRANTED), WHICH WOULD BE SENT TO THE COUNTY BUILDING INSPECTION OFFICE AND THE COUNTY PLANNING OFFICE. IF A FOSSIL FIND IS CONFIRMED, IT WILL BE RECORDED WITH THE UNITED STATES GEOLOGICAL SURVEY AND CURATED IN AN APPROPRIATE REPOSITORY.
- 18. ONE SIGN SHALL BE POSTED ALONG A STREET FRONTAGE OR IN FRONT OF THE PROJECT SITE, NO SMALLER THAN 1,296 SQUARE INCHES IN SIZE, CONTAINING THE NAME, TELEPHONE NUMBER, AND EMAIL ADDRESS OF THE APPROPRIATE STANFORD PERSON THE PUBLIC MAY CONTACT TO REGISTER A COMPLAINT ABOUT CONSTRUCTION NOISE. STANFORD SHALL KEEP A WRITTEN RECORD OF ALL SUCH COMPLAINTS AND SHALL PROVIDE COPIES OF THESE RECORDS TO THE COUNTY PLANNING OFFICE.
- 19. CONSTRUCTION MATERIALS AND FILL DIRT DELIVERED FROM OFF CAMPUS SHALL NOT BE DELIVERED BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM ON WEEKDAYS.
- 20. TRUCKS EXPORTING/IMPORTING FILL DIRT AND BUILDING MATERIALS FOR THE PROJECT SHALL USE APPROVED TRUCK ROUTES SHOWN IN THE 2000 GUP, AS DESIGNATED BY THE CITIES OF PALO ALTO AND MENLO PARK.

#### CONSTRUCTION STAKING

- 1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF
- 2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
- 3. PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE—ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.
- 4. PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

#### CONSTRUCTION INSPECTION

- 1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- 2. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
- 3. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299–6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT
- 5. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR COMMENCEMENT OF THE BUILDING FOUNDATION.

#### SITE PREPARATION (CLEARING AND GRUBBING)

- 1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
- A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
- B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

#### UTILITY LOCATION, TRENCHING & BACKFILL

- 1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
- 2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- 3. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- 4. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95%% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- 5. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- 6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

#### GRADINO

- EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
- 2. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.
- 3. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- 4. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- 5. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL 2 HORIZONTAL TO 1 VERTICAL.

ESTIMATED VOLUME OF	SITE GRADING	•	YARDS	
	NET		 YARDS YARDS	
MAXIMUM DEPTH OF	CUT 12 FFFT			

FILL 1.0 FOOT

SITE.

EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP

- 6. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
- 7. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
- 8. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF
- 9. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
- 10. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
- 11. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.

#### AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- 2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- 5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- 6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.

- 7. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
- 8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- 9. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
  - A. 15 MILES PER HOUR (MPH) SPEED LIMIT
    B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
  - C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY
    MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE
    PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT
    DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367.
- 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
- 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.
- 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8.
- 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP—RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
- 14. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- 15. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 16. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.
- 17. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY

#### ACCESS ROADS AND DRIVEWAYS

- 1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT).
- 2. ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15%% LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2—INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING
- 3. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.

#### <u>RETAINING WALLS</u>

- 1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL.
- 2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

#### STREET LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

#### STORM DRAINAGE

- 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY.
- 2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6%% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
- 3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.
- 4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL <u>TREE REMOVAL NOTES</u> PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
- 5. THE COUNTY ENGINEERING INSPECTOR SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS PRIOR TO BACKFILL.

#### SANITARY SEWER

1. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

#### PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN—DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

#### AS-BUILT PLANS STATEMENT

THIS IS A TRUE COPY OF THE AS—BUILT PLANS.

THERE (\_\_\_\_ WERE) (\_\_\_ WERE NOT) MINOR FIELD CHANGES — MARKED
WITH THE SYMBOL (^).

THERE (\_\_\_ WERE) (\_\_\_ WERE NOT) PLAN REVISIONS INDICATING
SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED
WITH THE SYMBOL .

DATE \_\_\_\_\_ SIGNATURE

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY
ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS—BUILT
PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER

CONSTRUCTION.

1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH

THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORTS SHALL BE

SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE

CONSTRUCTION / ENCROACHMENT / GRADING PERMIT	
PERMIT(S) NO.:	
TILE(S) NO.:	

DATE:

LAND DEVELOPMENT ENGINEERING & SURVEYING DEVELOPMENT SERVICES OFFICE COUNTY OF SANTA CLARA

#### GENERAL NOTES

- 1. THE WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE
- 2. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.

#### TREE PROTECTION NOTES

- 1. THE GENERAL CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO PRESERVE AND PROTECT ALL EXISTING TREES SHOWN TO REMAIN:
- A. PRIOR TO COMMENCEMENT OF DEMOLITION, GRADING AND CONSTRUCTION, TEMPORARY FENCING SHALL BE INSTALLED AT THE DRIP LINE OF EACH TREE TO BE PRESERVED. REFER TO DETAIL, FENCED AREAS SHALL NOT BE VIOLATED DURING CONSTRUCTION.
- B. ALL EXISTING ON SITE TREES INDICATED TO REMAIN SHALL BE TRIMMED BY A LICENSED ARBORIST FOUR WEEKS PRIOR TO COMMENCEMENT OF DEMOLITION OF GRADING OPERATIONS. ALL BROKEN OR BRUISED BRANCHES AND DEAD WOOD SHALL BE REMOVED. ALL CUTS OVER 3/4" DIAMETER SHALL BE PAINTED WITH "TREE SEAL" OR APPROVED EQUAL. IN NO CASE SHALL ANY TREE BE TOPPED.
- C. ALL EXISTING ON SITE TREES INDICATED TO REMAINS SHALL BE FERTILIZED BY ROOT INJECTION BY A LICENSED ARBORIST FOUR WEEKS PRIOR TO COMMENCEMENT OF GRADING OR DEMOLITION OPERATIONS.
- ALL EXISTING ON—SITE TREES INDICATED TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. NO GRADING IS PERMITTED WITHIN THE DRIP—LINE OF ANY TREE INDICATED TO REMAIN. NO DEBRIS OR MATERIALS SHALL BE STOCKPILED AROUND THE BASE OF THE TREES. NO TRADESMAN SHALL DUMP DEBRIS OR FLUIDS WITHIN THE DRIP—LINE OF ANY TREES (PLASTER, PAINT, THINNER, ETC.). ALL TREES SHALL BE FENCED BY THE GENERAL CONTRACTOR TO AVOID COMPACTION OF THE TREE'S ROOT SYSTEM AND DAMAGE TO THE BARK. THE FENCE SHALL BE SIX FEET HIGH, AND EXTEND OUT TO THE DRIP—LINE OF THE TREE.
- 3. ALL EXISTING ON—SITE TREES INDICATED TO REMAIN SHALL BE WATERED BY THE GENERAL CONTRACTOR CONTINUOUSLY DURING THE COURSE OF CONSTRUCTION. IF POTABLE WATER IS NOT AVAILABLE ON THE SITE, A WATERING TRUCK SHALL BE EMPLOYED TO ACCOMPLISH THE WATERING.
- DO NOT DISTURB SURFACE SOIL WITHIN TREE DRIP-LINE EXCEPT AS MANDATED BY CONSTRUCTION PLANS.
- 5. DURING PERIODS OF EXTENDED DROUGHT, SPRAY WOAK TREES TO REMOVE ACCUMULATED CONSTRUCTION.
- 6. GRADE IN LINES RADIAL TO THE EXISTING TREE RATHER THAN TANGENTIAL. IF ROOTS ARE ENCOUNTERED WHILE GRADING, CUT THEM CLEANLY WITH A SAW. <u>DO NOT RIP THEM WITH GRADING EQUIPMENT.</u>
- 7. DO NOT ATTEMPT DEMOLITION OF TREES WITH GRADING EQUIPMENT WHEN TREES THAT ARE TO BE PRESERVED ARE IN THE VICINITY.
  TREE REMOVAL NOTES
- 1. THE LOCATION OF ALL SERVICE RUNS SUCH AS WATER SUPPLY, SEWER, ELECTRICITY, TELEPHONES, CABLE, GAS, STORM DRAIN LINES, ETC. SHALL BE ASCERTAINED BEFORE TREE REMOVAL WORK IS STARTED. WHERE SUCH LINES WILL BE AFFECTED BY TREE REMOVAL, OR WHERE TREE REMOVAL MACHINERY WILL BE WORKING NEARBY, LINES SHOULD BE CAREFULLY SEALED OFF, PROTECTED OR DIVERTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE NECESSARY PRECAUTIONARY ACTIONS.
- 2. REMOVE ONLY THOSE TREES INDICATED ON THIS PLAN TO BE REMOVED. TREES INDICATED TO BE REMOVED SHALL HAVE ALL ROOTS AND STUMP REMOVED TO A DEPTH OF 24" BELOW GRADE.

# KSH ARCHITECTS

STANFORD UNIVERSITY

**Project Name: Varsity Tennis Center** 

Stanford CA. 94305

Quad/ Bldg. Number: 09-345

Project Address: 275 Sam McDonald Mall,



ISSUES AND REVISIONS

01.27.2023 ASA SUBMITTAL

DESCRIPTION

NO. DATE

PROJECT NUMBER

SHEET TITLE

CONSTRUCTION NOTES

SCALE

SHEET NUMBER

C-1.

# FIRE SAFETY NOTES:

PLAN SUBMITTAL REQUIREMENTS:
FIRE ALARMS AND DETECTION SYSTEMS
ATTACHMENT A
CODE, STANDARDS & GUIDES
LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

APPLICABLE CODES AS OF JANUARY 1, 2023:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE, VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR) (BASED ON THE 2012 INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (BASED ON 2011 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (BASED ON THE 2012 UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (BASED ON THE 2012 UNIFORM PLUMBING CODE)

2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) (BASED ON THE 2012 INTERNATIONAL FIRE CODE)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 — SPRINKLER SYSTEMS — 2019 EDITION

NFPA 14 - STANDPIPES AND HOSE SYSTEMS - 2019 EDITION

NFPA 17A — WET CHEMICAL EXTINGUISHING SYSTEMS — 2019 EDITION

NFPA 24 - PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES - 2019 EDITION

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE - 2019 EDITION

NFPA 253 — CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE — 2019 EDITION.

UNDERGROUND FIRE SERVICE TO FIRE HYDRANTS REQUIREMENTS:

NFPA 24 CHAPTER 10.1.3: WHERE EXTERNALLY COATED AND WRAPPED AND INTERNALLY GALVANIZED, STEEL PIPE SHALL BE PERMITTED TO BE USED BETWEEN THE CHECK VALVE AND THE OUTSIDE BASE COUPLING FOR THE FIRE DEPARTMENT CONNECTION.

NFPA 24 CHAPTER 10.1.6.1: UNLESS THE REQUIREMENTS OF 10.1.6.2 ARE MET, ALL FERROUS METAL PIPE SHALL BE LINED IN ACCORDANCE WITH THE APPLICABLE STANDARDS IN TABLE 10.1.1.

NFPA 24 CHAPTER 10.1.6.2: STEEL PIPE UTILIZED IN FIRE DEPARTMENT CONNECTIONS AND PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF 10.1.3 SHALL NOT BE ADDITIONALLY REQUIRED TO BE LINED.

NFPA 24 CHAPTER 10.3.5.2: ALL BOLTED JOINT ACCESSORIES SHALL B E CLEANED AND THOROUGHLY COATED

WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION.

NFPA 24 CHAPTER 10.8.3.5: AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH

BITUMINOUS OR OTHER ACCEPTABLE CORROSION—RETARDING MATERIAL.

NFPA 24 CHAPTER 10.8.2.2: THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE HALF PARTS SAND, AND FIVE PARTS STONE.

NFPA 24 CHAPTER 10.8.2.3: THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE OF SUCH BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THE THRUST TO BE ENCOUNTERED.

NFPA 24 CHAPTER 10.8.2.4: IN GENERAL THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.

NFPA 24 CHAPTER 10.10.2.1.1: UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD—IN CONNECTIONS TO THE SYSTEM RISER SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSTREAM FIRE PROTECTION SYSTEM PIPING.

NFPA 24 CHAPTER 10.10.2.1.3: THE MINIMUM RATE OF FLOW SHALL BE NO LESS THAN ONE OF THE FOLLOWING:

- (1) HYDRAULICALLY CALCULATED WATER DEMAND FLOW RATE OF THE SYSTEM, INCLUDING ANY HOSE REQUIREMENTS.
- (2) FLOW NECESSARY TO PROVIDE A VELOCITY OF 10 FT/SEC (3.1 M/SEC) IN ACCORDANCE WITH TABLE 10.10.2.1.3.
- (3) MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM UNDER THE CONDITIONS.

NFPA 24 CHAPTER 10.10.2.2.1\*: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (13.8 BAR) OR 50 PSI (3.5 BAR) IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT + 5 PSI (0.35 BAR) FOR 2 HOURS.

NFPA 24 CHAPTER 10.10.1: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

- (1) NOTIFYING THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED.
- (2) PERFORMING ALL REQUIRED ACCEPTANCE TESTS.
- (3) COMPLETING AND SIGNING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 10.10.1.

CHAPTER 10.4.3: IN THOSE LOCATIONS WHERE FROST IS NOT A FACTOR, THE DEPTH OF COVER SHALL NOT BE LESS THAN 2 ½ FEET (0.8 M) TO PREVENT MECHANICAL DAMAGE.

NFPA 24 CHAPTER 10.4.4: PIPE UNDER DRIVEWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 3 FT (0.9M).

NFPA 24 CHAPTER 10.6.1: PIPE SHALL NOT BE RUN UNDER BUILDINGS.

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





# SANDIS

ISSUES AND REVISIONS

01.27.2023 ASA SUBMITTAL

DESCRIPTION

NO. DATE

PROJECT NUMBER

SHEET TITLE

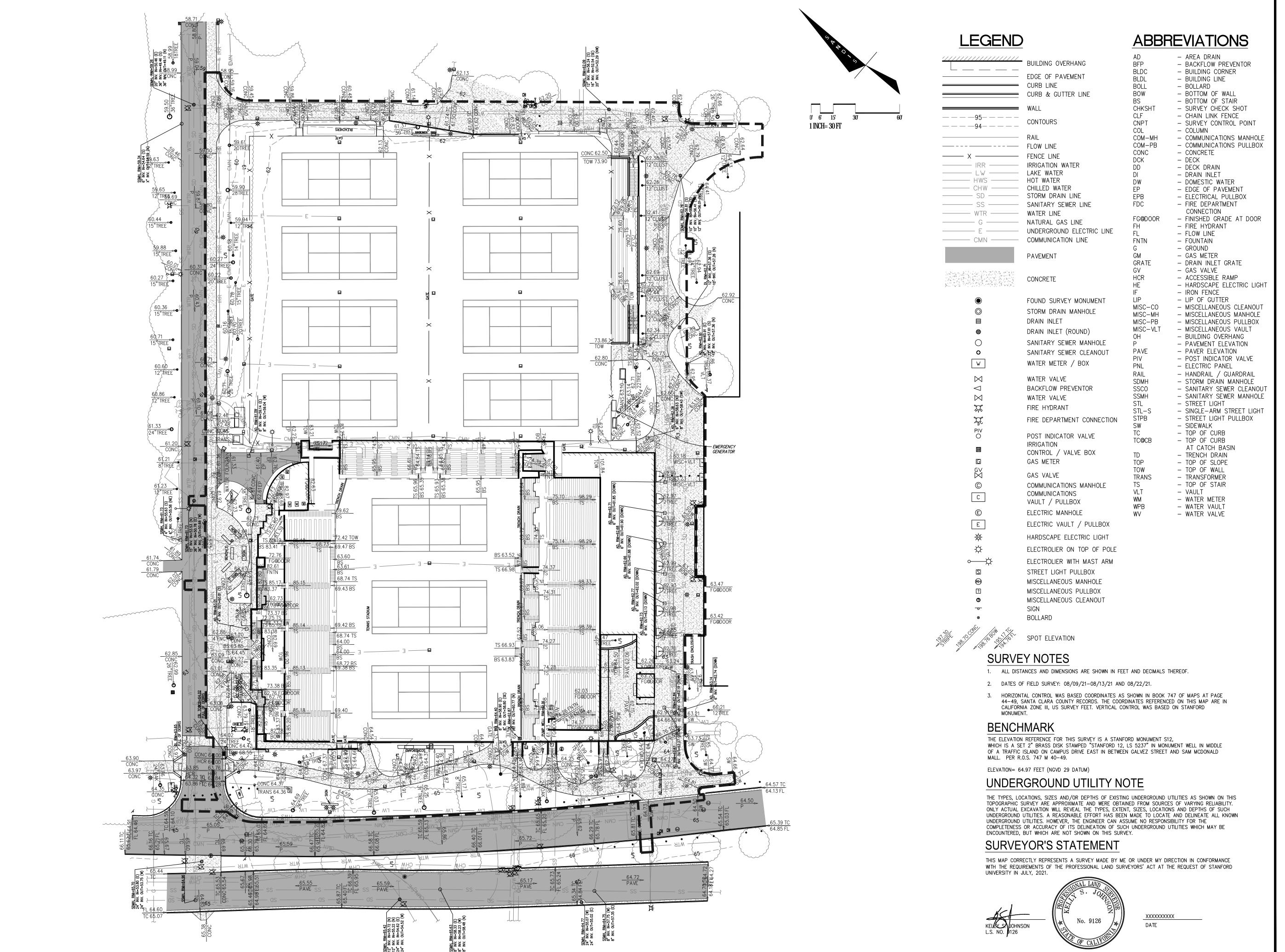
FIRE SAFETY NOTES

SCALE

SHEET NUMBER

NTS

C-1 2



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



**ARCHITECTS** 



ISSUES AND REVISIONS

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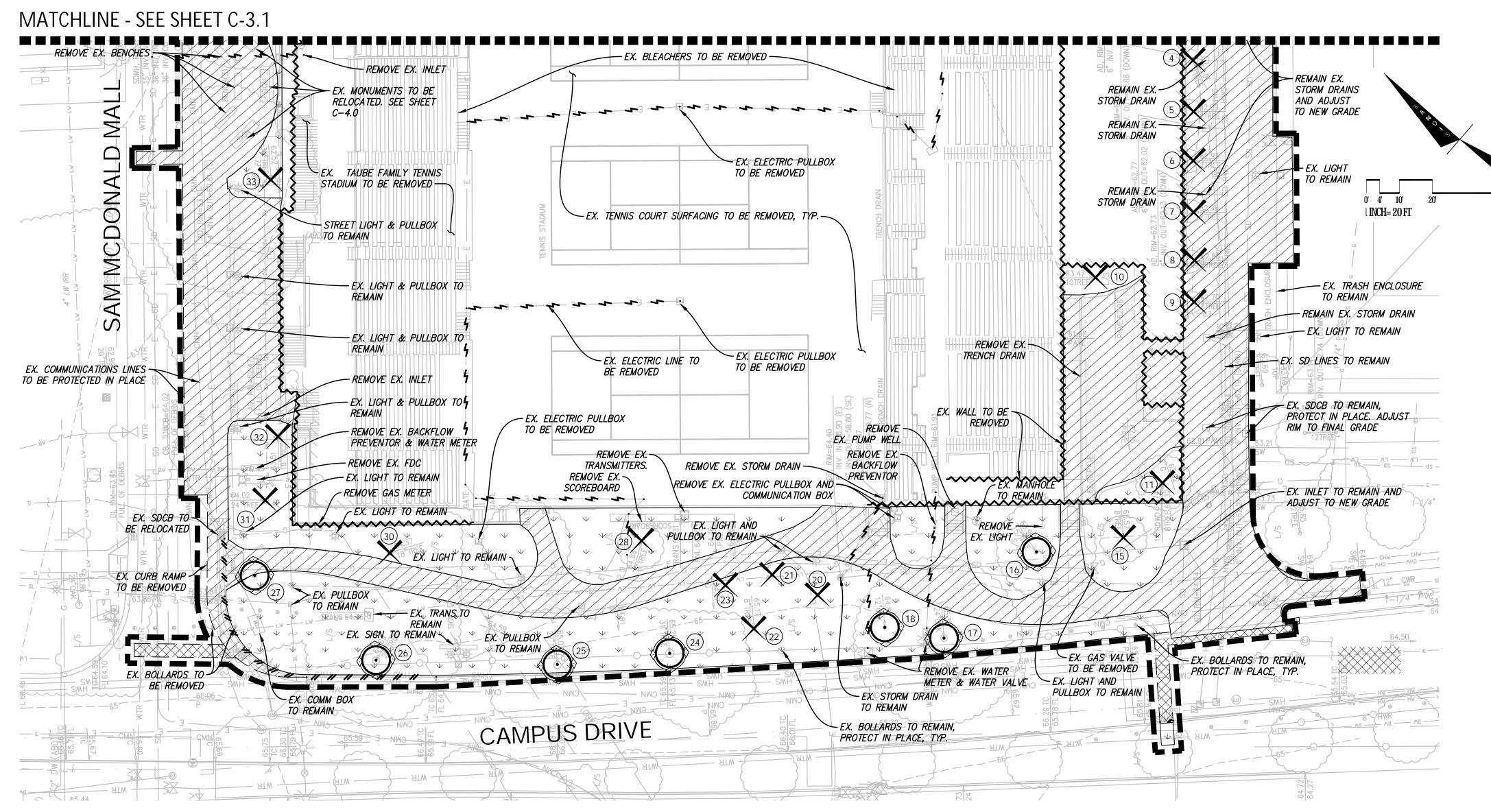
#### TOPOGRAPHIC SURVEY

SCALE

1"=30'

SHEET NUMBER

C-2.0



8' HEAVYWEIGHT

STEEL TEE FENCE

- WIRE CLIPS

— METAL CHAIN

LINK FENCING

- FINISHED GRADE

#### STANFORD UNIVERSITY TREE PROTECTION PROCEDURES SUMMARY

- WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 56 39 TREE AND PLANT PROTECTION.
- 2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS. AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS LISTED IN DEFINITIONS 1.3B.
- A STANFORD GROUNDS CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
- 4. ALL TREES TO REMAINS ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
- PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN
- OFFICE OR A STANFORD GROUNDS CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, AS PER TREE PROTECTION PLAN 1.7.A.3, AND WHEREVER POSSIBLE AS SHOWN ON THE TREE PROTECTION DRAWING. IF PROJECT CONSTRAINTS DO NOT ALLOW FOR FENCING AT THE OUTER EDGE OF THE ROOT ZONE, FENCING MUST BE PLACED AS CLOSE TO THIS AS POSSIBLE AND APPROVED AFTER IT IS IN PLACE BY A STANFORD
- LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO
- CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE
- PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A STANFORD GROUNDS CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES.
- 10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN
- THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES. 11. NO RINSING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE ROOT ZONE, OR IN AN AREA THAT DRAINS INTO THE ROOT ZONE. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE ROOT ZONES OF EXISTING TREES AND SHRUBS.
- 12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
- 13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS CERTIFIED ARBORIST.
- 14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.

UNIVERSITY GROUNDS CERTIFIED ARBORIST.

TREES WITHIN THE PROJECT LIMITS.

- A. STANFORD GROUNDS CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY 2. METAL CHAIN LINK FENCING ON SECURE FOOTINGS IMBEDDED WHERE KIND WITHIN A TREES' ROOT ZONE.
- B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
- C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
- D. DIGGING WITHIN A TREE'S ROOT ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE'S ROOT ZONE UNLESS OTHERWISE APPROVED BY A STANFORD GROUNDS CERTIFIED ARBORIST.
- E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PERPENDICULAR PRUNED CLEANLY, NOT TORN.

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

THE TRUNK BE ALLOWED. AND ONLY AS APPROVED BY AN SGCA.

1. THE DRIPLINE OF EACH TREE TO BE PROTECTED SHALL BE ENCLOSED WITH

A 6' HIGH TEMPORARY FENCE. FENCE FABRIC SHALL BE HEAVY DUTY

8' HEAVY WEIGHT STEEL TEE FENCE POSTS DRIVEN 22" INTO GRADE.

PERFORATATED, BRIGHT COLORED, PLASTIC MESH. FENCE STAKES SHALL BE

REQUIRED BY CAMPUS PLANNING AND DESIGN OFFICE OR SGCA SHALL BE

USED AT ALL TIMES TO PROTECT TREES EXCEPT IN AREAS WHERE IT WILL

NOT PHYSICALLY FIT. ONLY IN AREAS WHERE IT CANNOT PHYSICALLY BE

PLACED. WILL ORANGE PLASTIC SNOW FENCING WRAPPED 2" THICK AROUND

#### TREE DISPOSITION TABLE

	BOTANICAL & COMMON NAME	DIAMETER AT BREAST HEIGHT (IN.)	STATUS (REMOVE/ REMAINS)	PROTECTED STATUS
4	TUSCARORA CRAPE MYRTLE	3	REM□∨E	NOT PROTECTED, SEE CONDITION A BELOW
5	TUSCARORA CRAPE MYRTLE	3	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
6	TUSCARORA CRAPE MYRTLE	3	REM□∨E	NOT PROTECTED, SEE CONDITION A BELOW
7	TUSCARORA CRAPE MYRTLE	2	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
8	TUSCARORA CRAPE MYRTLE	3	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
9	TUSCARORA CRAPE MYRTLE	3	REM□∨E	NOT PROTECTED, SEE CONDITION A BELOW
10	JAPANESE MAPLE	5,5,4	REM□∨E	NOT PROTECTED, SEE CONDITION A BELOW
11	GIANT SEQUOIA	10	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
15	GIANT SEQUOIA	9	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
16	COAST LIVE DAK	15	REMAINS	PROTECTED
17	COAST LIVE OAK	24	REMAINS	PROTECTED
18	COAST LIVE DAK	12	REMAINS	PROTECTED
20	GLOSSY PRIVET	6,6,5	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
21	WATER GUM	3	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
22	COAST LIVE DAK	5	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
23	WATER GUM	3	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
24	COAST LIVE DAK	31	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
25	COAST LIVE DAK	27	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
26	COAST LIVE DAK	24	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
27	COAST LIVE DAK	17	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
28	COAST LIVE DAK	5	REM□VE	NOT PROTECTED, SEE CONDITION A BELOW
30	COAST LIVE DAK	16	REM□∨E	NOT PROTECTED, SEE CONDITION B BELOW
31	COAST LIVE OAK	20	REM□∨E	NOT PROTECTED, SEE CONDITION B BELOW
32	COAST LIVE OAK	14	REM□∨E	NOT PROTECTED, SEE CONDITION B BELOW
33	COAST LIVE OAK	36	REM□∨E	NOT PROTECTED, SEE CONDITION B BELOW
NDTES:				

CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12". CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS

TREE NUMBER SEE TABLE THIS SHEET EXISTING TREE TO REMAINS. PROTECT IN PLACE. SEE NOTES ON THIS SHEET.  $\sqrt{C-3.00}$ EXISTING TREE TO BE REMOVED

CLEAR & GRUB EXISTING LANDSCAPE REMOVE EXISTING CONCRETE INCLUDING ANY ASSOCIATED BASE ROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE, DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER. REMOVE EXISTING AC PAVEMENT AND ANY ASSOCIATED BASE ROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY GEOTECHNICAL ENGINEER. REMOVE EXISTING PAVERS

DEMOLISH AND REMOVE EXISTING CURB AND GUTTER, INCLUD ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT CLEAN EDGE.

DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT. CAP EXISTING UTILITY WHERE SHOWN PER STANFORD

DEMOLISH AND REMOVE EX. STREET LIGHT, ELECTRICAL PULL BOX AND FOUNDATION. PULL ELECTRICAL CABLE BACK TO NEAREST SPLICE POINT AND SAFE OFF SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT,

CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO

SAWCUT LINE SHOWN ON PLAN. REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.

SPECIFICATIONS AND REQUIREMENTS

#### SHEET NOTES

**LEGEND** 

- 1. REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE
- 2. COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO AL THEIR REQUIREMENTS.
- 3. DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND COMMUNICATION AND POWER SERVICES. CONTRACTOR SHAL Work by hand in all areas where these services might be harmed b LARGER LESS PRECISE EQUIPMENT.
- 4. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL UNDERGROUND UTILITIES, INCLUDING TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES, LOW TEMPERATURE HOT WATER AND CHILLED HOT WATER LINES THAT ARE IN OR NEAR THE AREA OF DEMOLITION.
- 5. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THI DEMOLITION WORK.
- 8. CONTRACTOR SHALL PAY DISPOSAL FEES.

UTILITIES WITH THE FCM.

- 9. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO EXISTING GRADE AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, AND/OR UNIVERSITY FIELD CONSTRUCTION MANAGER (FCM).
- 10. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THI
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
- 12. PRIOR TO BEGINNING DEMOLITION WORK. CONTRACTOR TO NOTIFY AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED
- 13. CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN. TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
- 14. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL UNIVERSITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE FCM IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.
- 15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- 16. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE AND STREETS IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, BARRICADES, SIGNAGE, AND PROVISIONS FOR ENSURING THE PROJECT'S SECURITY AND SAFE PASSAGEWAY AROUND IT.
- 17. CONTRACTOR SHALL GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
- 18. CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.
- 19. SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.
- 20. TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING UNDERGROUND UTILITY LINES TO REMAINS DURING DEMOLITION. CONTRACTOR TO HIRE AN INDEPENDENT UNDERGROUND UTILITY LOCATOR SERVICE TO LOCATE & PAINT UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES TO REMAINS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 21. CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.
- 22. CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF CONSTRUCTION.
- 23. CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





ISSUES AND REVISIONS

NO. DATE DESCRIPTION

01.27.2023 ASA SUBMITTAL

PROJECT NUMBER

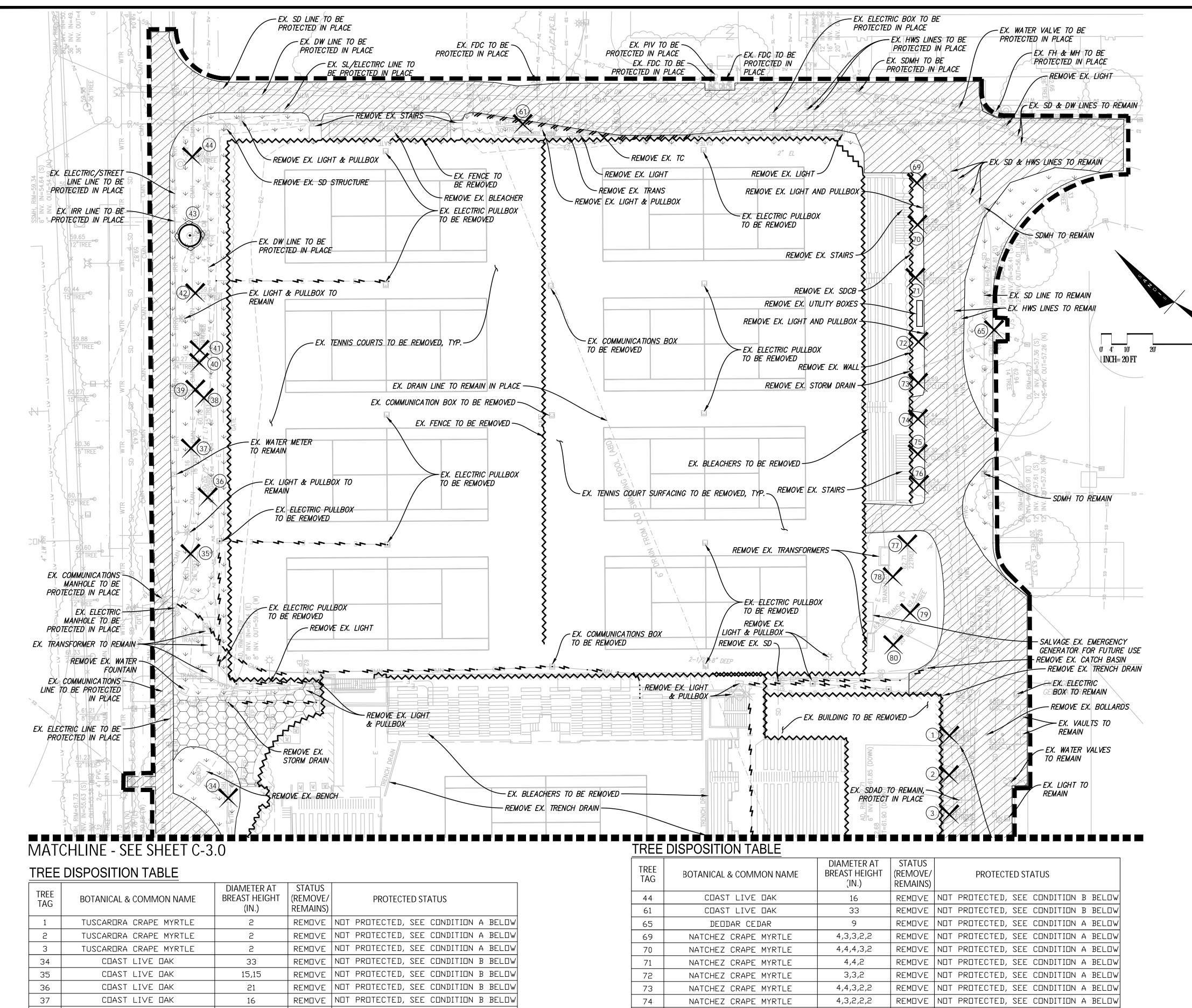
SHEET TITLE

**DEMOLITION PLAN** 

SCALE

SHEET NUMBER

1"=30'



75

76

77

78

79

80

NOTES:

NATCHEZ CRAPE MYRTLE

NATCHEZ CRAPE MYRTLE

DEDDAR CEDAR

DEODAR CEDAR

DEODAR CEDAR

DEDDAR CEDAR

38

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41

42

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NDTES:

COAST LIVE DAK

9

14

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11

8

23

CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12".

CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS

REMOVE NOT PROTECTED, SEE CONDITION A BELOW

REMOVE NOT PROTECTED, SEE CONDITION B BELOW

REMOVE NOT PROTECTED, SEE CONDITION B BELOW

REMOVE NOT PROTECTED, SEE CONDITION A BELOW

REMOVE NOT PROTECTED, SEE CONDITION A BELOW

REMAINS NOT PROTECTED, SEE CONDITION B BELOW

STANFORD UNIVERSITY

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**ARCHITECTS** 



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#### **DEMOLITION PLAN**

SCALE

1"=30'

SHEET NUMBER

15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION

REMOVE NOT PROTECTED, SEE CONDITION A BELOW

REMOVE NOT PROTECTED, SEE CONDITION A BELOW

REMOVE NOT PROTECTED, SEE CONDITION B BELOW

4,3,3,3

4,3,3,3,2,2

16

CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12".

CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS

16. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE AND STREETS IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, BARRICADES, SIGNAGE, AND PROVISIONS FOR

ENSURING THE PROJECT'S SECURITY AND SAFE PASSAGEWAY AROUND IT. 17. CONTRACTOR SHALL GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.

18. CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.

19. SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.

20. TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING UNDERGROUND UTILITY LINES TO REMAINS DURING DEMOLITION. CONTRACTOR TO HIRE AN INDEPENDENT UNDERGROUND UTILITY LOCATOR SERVICE TO LOCATE & PAINT UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES TO REMAINS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

21. CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.

22. CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF

23. CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.

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

**LEGEND** 

TREE NUMBER SEE TABLE THIS SHEET

EXISTING TREE TO BE REMOVED

CLEAR & GRUB EXISTING LANDSCAPE

PROTECT IN PLACE. SEE NOTES ON THIS SHEET.  $\sqrt{-3.0}$ 

REMOVE EXISTING CONCRETE INCLUDING ANY ASSOCIATED

SUBGRADE, DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.

DEMOLISH AND REMOVE EXISTING CURB AND GUTTER, INCLUD

ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT

DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY

DEMOLISH AND REMOVE EX. STREET LIGHT, ELECTRICAL PULL BOX AND FOUNDATION. PULL ELECTRICAL CABLE BACK TO

SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT,

CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO

TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.

CAP EXISTING UTILITY WHERE SHOWN PER STANFORD

SPECIFICATIONS AND REQUIREMENTS

NEAREST SPLICE POINT AND SAFE OFF

REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.

REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER

LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE

2. COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO AL

3. DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP

4. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE

HOT WATER LINES THAT ARE IN OR NEAR THE AREA OF DEMOLITION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY

DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE

JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE

FOUNDATIONS & UTILITIES TO EXISTING GRADE AND TO THE SATISFACTION OF

THE GEOTECHNICAL ENGINEER, AND/OR UNIVERSITY FIELD CONSTRUCTION

10. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE,

11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION

12. PRIOR TO BEGINNING DEMOLITION WORK. CONTRACTOR TO NOTIFY AND

13. CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN,

14. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR

SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL

TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE FCM IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.

REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.

TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER

PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON

UNIVERSITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF

COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED

TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THI

MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND

9. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF

THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL

5. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL

ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.

OF AND AROUND COMMUNICATION AND POWER SERVICES. CONTRACTOR SHAL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY

UNDERGROUND UTILITIES, INCLUDING TELEPHONE, DATA, STREET LIGHT, SIGNAL

SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE

LIGHT AND POWER FACILITIES, LOW TEMPERATURE HOT WATER AND CHILLED

SAWCUT LINE SHOWN ON PLAN.

REMOVE EXISTING AC PAVEMENT AND ANY ASSOCIATED

DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK

BASE ROCK AND REBAR. STABILIZE THE EXISTING

BASE ROCK. STABILIZE THE EXISTING SUBGRADE.

IF APPROVED BY GEOTECHNICAL ENGINEER.

REMOVE EXISTING PAVERS

CLEAN EDGE.

LIMIT OF WORK LINE

SHEET NOTES

THEIR REQUIREMENTS.

DEMOLITION WORK.

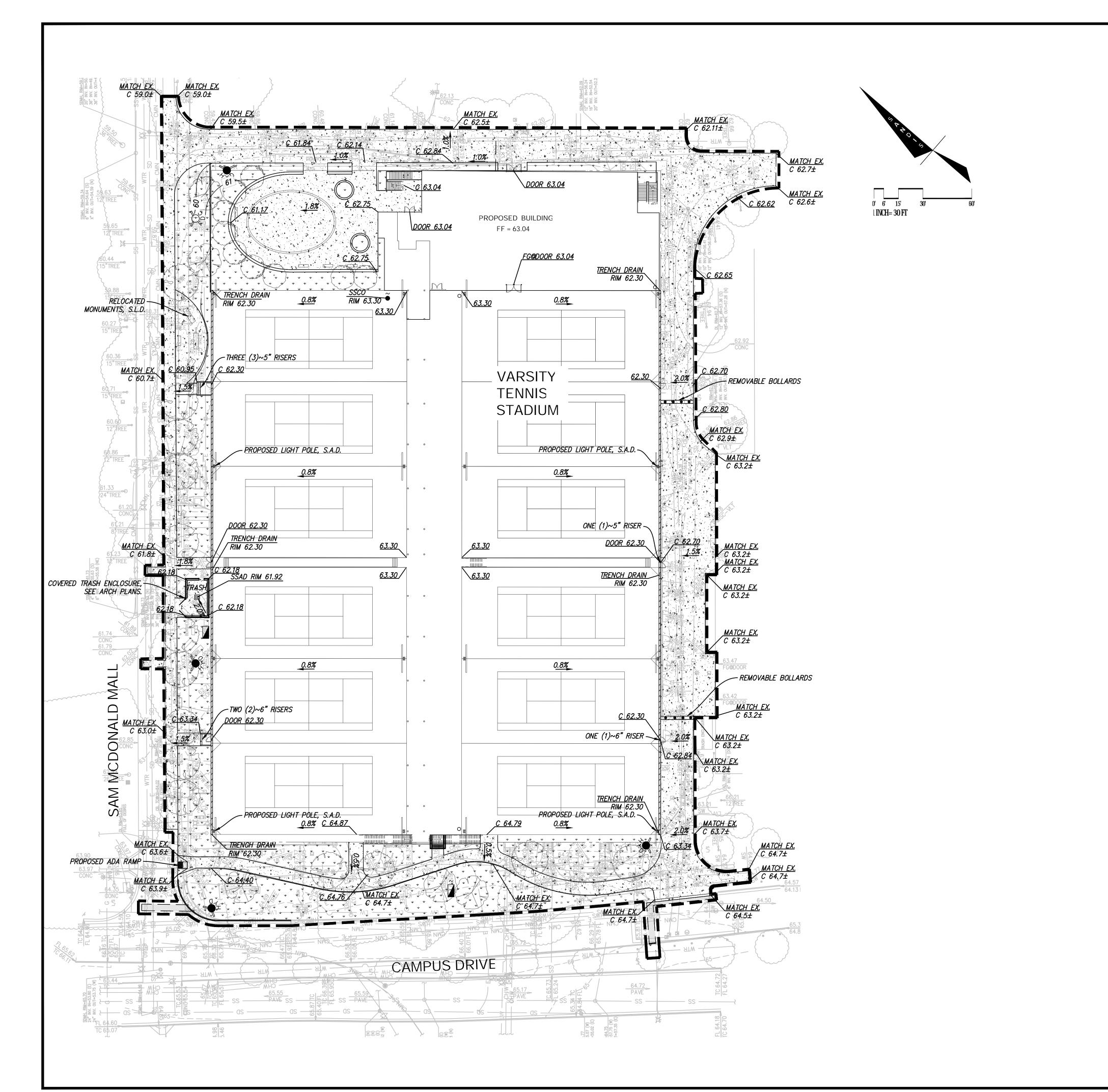
MANAGER (FCM).

AT DESIGNATED LOCATIONS.

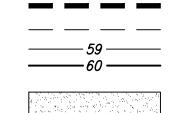
UTILITIES WITH THE FCM.

8. CONTRACTOR SHALL PAY DISPOSAL FEES.

LARGER LESS PRECISE EQUIPMENT.



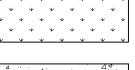
#### LEGEND



LIMIT OF WORK
SAWCUT LINE
CONTOURS



PROPOSED CONCRETE

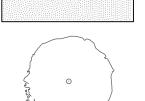


PROPOSED LANDSCAPE AREA, SEE LANDSCAPE PLANS FOR DETAILS



PROPOSED CONCRETE PAVERS

PROPOSED ASPHALT CONCRETE



PROPOSED TREES, SEE LANDSCAPE PLANS FOR DETAILS

#### **GRADING NOTES**

- 1. GRADE IMPERVIOUS AREAS AT 2% AWAY FROM THE BUILDING FOR MINIMUM 5' PER BUILDING CODE.
- 2. GRADE PERVIOUS AREAS AT 5% MINIMUM AWAY FROM BUILDING UNLESS OTHERWISE

#### GENERAL NOTES

 ADJUST ANY UTILITY RIM/STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.
 CONTRACTOR SHALL HOLD ¼" THRESHOLD BELOW FINISH FLOOR OF DOORWAYS.

#### ADA NOTES

- 1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
- 2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
- 3. RAMPS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).
- 4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
- 5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS—SLOPE OF 2%. RAMPS EXCEEDING 2'—6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP
- DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".

  6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS HANDICAPPED PARKING SHALL BE 2% IN ANY DIRECTION.
- 7. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.

#### **STANFORD UNIVERSITY**

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



**ARCHITECTS** 



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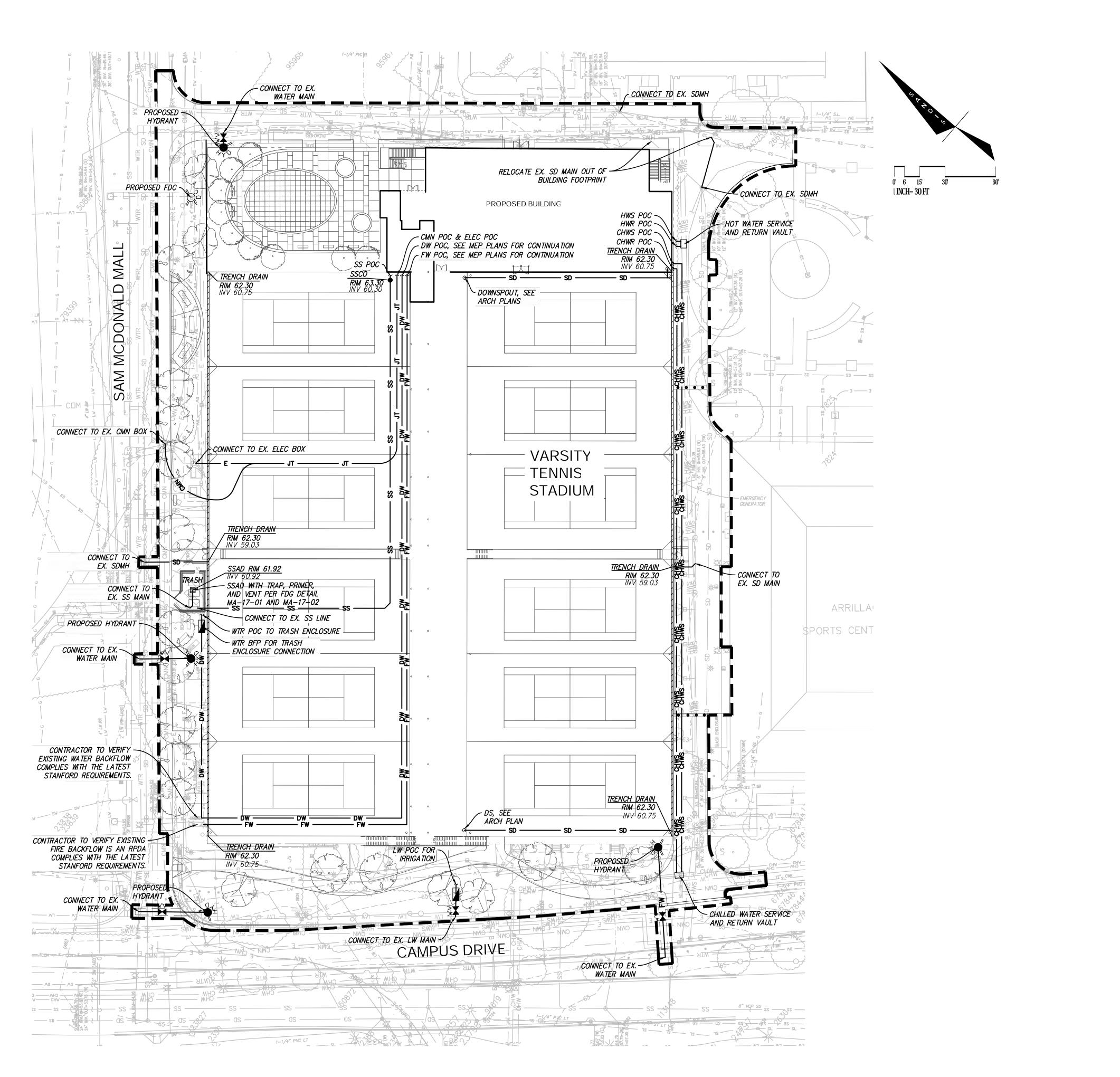
**GRADING & DRAINAGE PLAN** 

SCALE

1"=30'

SHEET NUMBER

C-4.0



#### LEGEND

PROPOSED
PROPOSED
PROPOSED
PROPOSED
PROPOSED
BACK FLOW
WATER VAL
PROPOSED

PROPOSED SD LINE
PROPOSED SS LINE
PROPOSED WTR LINE
PROPOSED FIRE HYDRANT

PROPOSED FIRE HYDRANT
PROPOSED FIRE DEPARTMENT CONNECTION
BACK FLOW PREVENTOR
WATER VALVE

PROPOSED DOWNSPOUT, SEE ARCH PLAN
LIMIT OF WORK

#### STORM DRAIN NOTES

- 1. PRIVATE STORM DRAIN LINE 4—INCH THROUGH 12—INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON—TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034—73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS, 45° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 2. PRIVATE STORM DRAIN LINE 6—INCH THROUGH 12—INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED FOR 150 PSI CLASS PIPE. PROVIDE AND INSTALL "STORM DRAIN" MARKER TAPE FOR THE ENTIRE LENGTH OF PIPE TRENCH. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
- 4. ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
- 5. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- 6. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 7. ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT PERVIOUS SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

#### SANITARY SEWER NOTES

- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE STANFOR UNIVERSITY STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH
  THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26
  GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS
  OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT
  CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE
  CONNECTIONS, 22.5° ELBOWS OR 45°. ELBOWS, 90° ELBOWS AND
  TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AT FACE OF BUILDING AND AS SHOWN ON PLANS.
- 4. IF (E) SEWER LATERAL IS TO BE USED, CONTRACTOR SHALL VIDEO INSPECT, PERFORM PRESSURE TEST ON (E) SEWER LATERAL, AND SHALL PERFORM ANY NEEDED REPAIRS.

#### WATER SYSTEM NOTES

- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- 2. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- 3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE STANFORD UNIVERSITY STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





ISSUES AND REVISIONS
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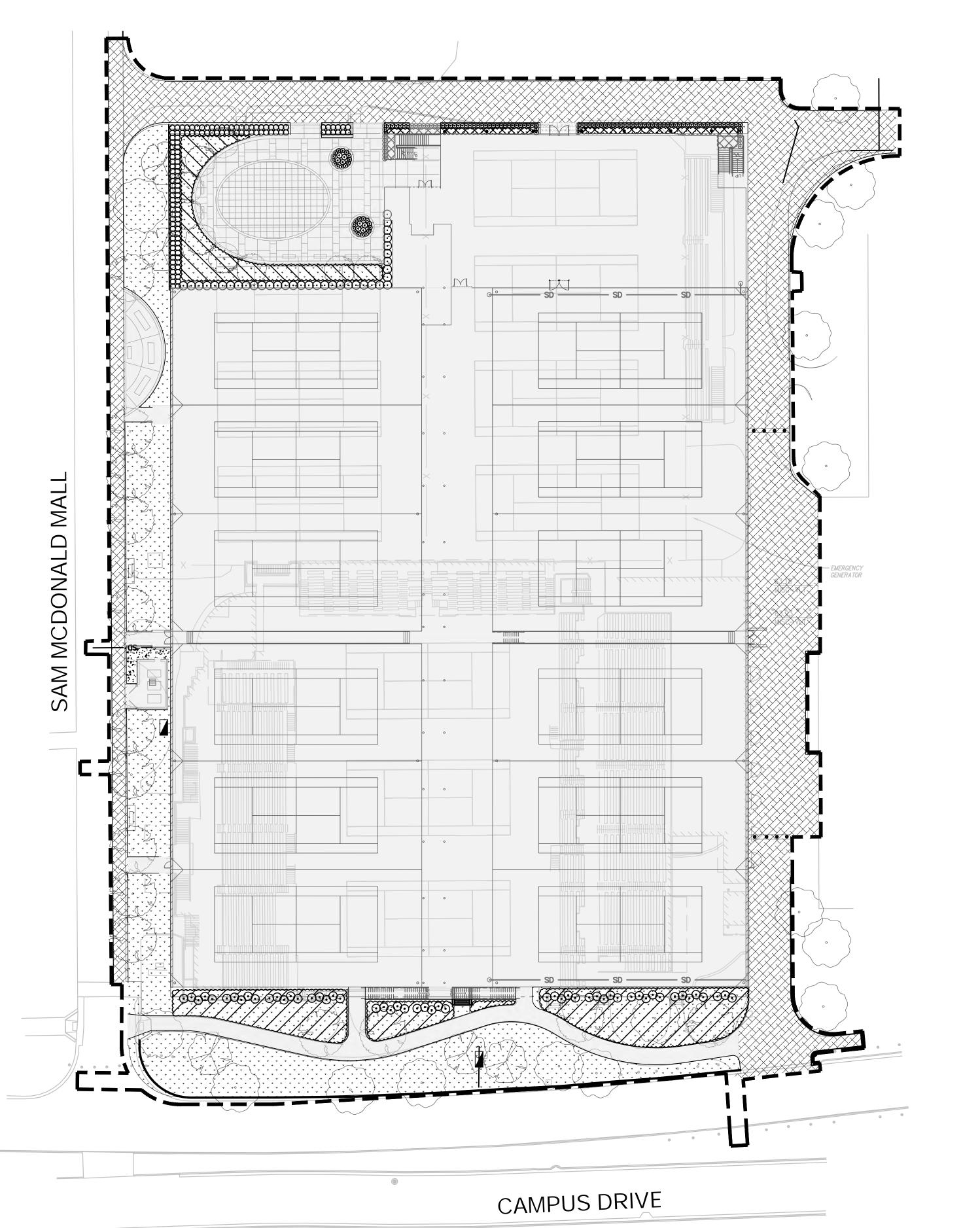
UTILITY PLAN

1"=30'

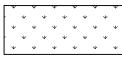
SCALE

SHEET NUMBER

C-5.0



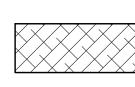




PROPOSED PERVIOUS AREA (21,857 SF)



PROPOSED IMPERVIOUS AREA (21,857 SF)



REPLACED VEHICULAR IMPERVIOUS AREA (22,815 SF)



| INCH= 30 FT



#### SITE TREATMENT AREA NOTE:

THIS PROJECT IS REPLACING MORE THAN 50% OF THE EXISTING IMPERVIOUS AREA WITHIN THE STANFORD VARSITY TENNIS PROJECT LIMITS, THEREFORE THE PROJECT WILL TREAT ALL THE IMPERVIOUS AREA WITHIN THE PROJECT LIMIT.

#### STORMWATER MANAGEMENT NOTES:

- 1. THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MUNICIPAL REGIONAL STORMWATER PERMIT IN ACCORDANCE WITH THE SANTA CLARA COUNTY PROGRAM AND THE STANFORD REQUIREMENTS.
- 2. C.3 TREATMENT REQUIREMENTS FOR THIS PROJECT WILL BE ADDRESSED UTILIZING IN-LIEU CAPACITY CREDITS PROVIDED BY THE FELT LAKE (EAST CAMPUS) STORM WATER CAPTURE SYSTEM (COUNTY FILE NO. 11044–17C3).

#### DRAINAGE AREA:

PROPOSED IMPERVIOUS 114,950 SF 21,857 SF PROPOSED PERVIOUS 22,815 SF REPLACED VEHICULAR IMPERVIOUS TOTAL 159,622 SF

#### EXISTING AND PROPOSED AREA QUANTITIES

	<u>EXISITNG</u>		<u>PROPOSED</u>
IMPERVIOUS	139,965	SF	137,765 SF
PERVIOUS	19,657	SF	21,857 SF
TOTAL	159,622	SF	159,622 SF

#### STANFORD UNIVERSITY

Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





ISSUES AND REVISIONS DESCRIPTION

01.27.2023 ASA SUBMITTAL

NO. DATE

SHEET TITLE

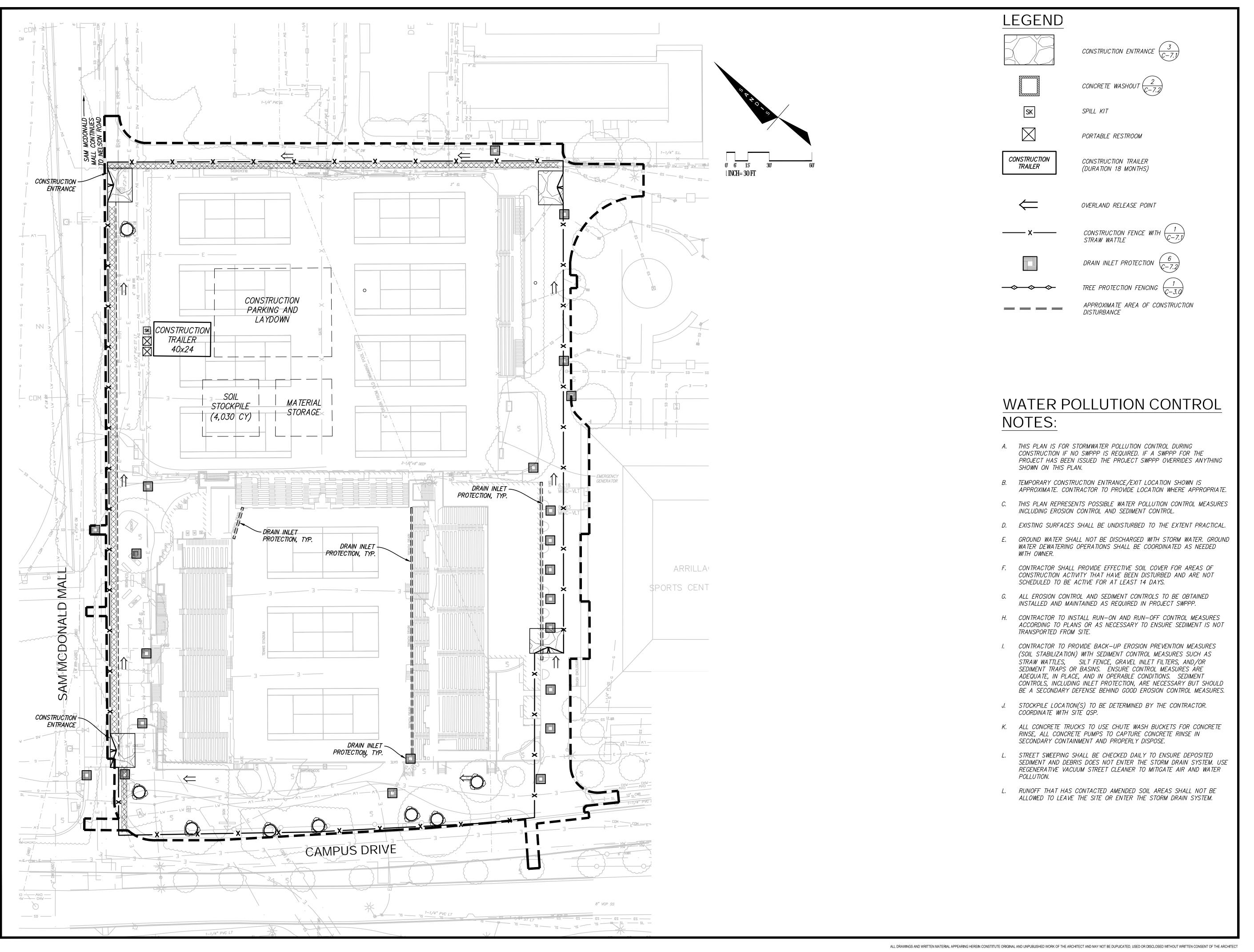
STORMWATER MANAGEMENT **PLAN** 

1"=30'

VARSITY TENNIS CENTER **PROJECT NAME:** WATERSHED: Matedero Creek\_ PROJECT IMPERVIOUS AREA SUMMARY VEHICULAR (SF) NON-VEHICULAR (SF) IN-LIEU CREDIT USED3 (SF)

1. THIS PROJECT IS **LOCATED OUTSIDE THE REGIONAL CAPTURETRIBUTARY AREA** 2. IN-LIEU CREDIT USED IS THE PORTION OF REGULATED IMPERVIOUS, **LOCATED OUTSIDE THE REGIONAL CAPTURETRIBUTARY AREA**, THAT

IS MEETING MRP SECTION C.3 USING IN-LIEU CREDITS FROM REGIONAL STORMWATER TREATMENT FACILITIES.



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





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SHEET TITLE

**EROSION CONTROL PLAN** 

SCALE

1"=30'

SHEET NUMBER

SECTION A-A

\* Length per ABAG Design Standards

Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

Source for Graphics: California Stormwater BMP Handbook, California

END STAKE DETAIL (TOP VEW)

END DETAIL

(SEE MOTE 9)

OPTIONAL MAINTENANCE OPENING DETAIL

(SEE NOTE 11)

Sovebage (2-legers High)

#### STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management: Provide designated waste collection areas and containers on site away from streets. gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or
- Harardons Waste Management: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material bauler. Hazardous wastes shall be stored and properly labeled in scaled containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Presention and Control: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, guiters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Frosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- 4. Vehicle and Construction Equipment Service and Storage: An area shall be designated for the maintenance, where onsite maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or
- 5. Material Delivery, Handling and Storage: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- 6. Handline and Disposal of Concrete and Cement: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion. & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or Intest.
- . Pavement Construction Management: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paying in the wet season and reschedule paying when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- 8. Contaminated Soil and Water Management: Impections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardosa waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or
- Sanitary/Septic Water Management: Temporary sanitary facilities should be located away from drainage paths. waterways, and traffic areas. Only licensed sanitary and septic waste harlers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or
- 10. Inspection & Maintenance: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

#### STANDARD EROSION CONTROL NOTES

shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. 4th Edition (pages B-31 to B-33) or latest.

Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to & Sediment Control Field Manual, 4th Edition (puges B-49 to B-51) or latest.

Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate crosses control measures/tarps, straw bales, selt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring WHETCHING.

- Erosion Control: During the rainy season, all disturbed areas must include an effective combination of crosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain. event. During the non-rainy season, crosson control measures must be applied sufficient to control wind crossion at the site.
- 3. Inspection & Maintenance: Disturbed areas of the Project's site, locations where vehicles enter or that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented
- 4. Project Completion: Prior to project completion and
- 5. It shall be the Owner's Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the consion control plan.
- 6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped

#### 1. Sediment Control Management

Tracking Prevention & Clean Up: Activities Refer to Erosion & Sediment Control Field Manual,

clogging and subsequent flooding. Refer to Erosion

Dust Control: The contractor shall provide dust

Stockpiling: Excavated soils shall not be placed in

- exit the site, and all erosion and sediment controls during, and after storm events, and at least weekly immediately, within 24 hours of the problem being
- signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for ensuion on the subject site.
- surfaces.

**STANFORD UNIVERSITY** 

Project Name: Varsity Tennis Center

Stanford CA. 94305

Quad/ Bldg. Number: 09-345

Project Address: 275 Sam McDonald Mall,

**ARCHITECTS** 



ISSUES AND REVISIONS

DESCRIPTION

01.27.2023 ASA SUBMITTAL

NO. DATE

PROJECT NUMBER

SHEET TITLE

**COUNTY BMP NOTES** 

SCALE

1"=30'

SHEET NUMBER

Best Management Practices and Erosion Control Details Sheet 1 County of Santa Clara



BMP-1

Informati



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





ISSUES AND REVISIONS NO. DATE DESCRIPTION

01.27.2023 ASA SUBMITTAL

PROJECT NUMBER 17007

SHEET TITLE

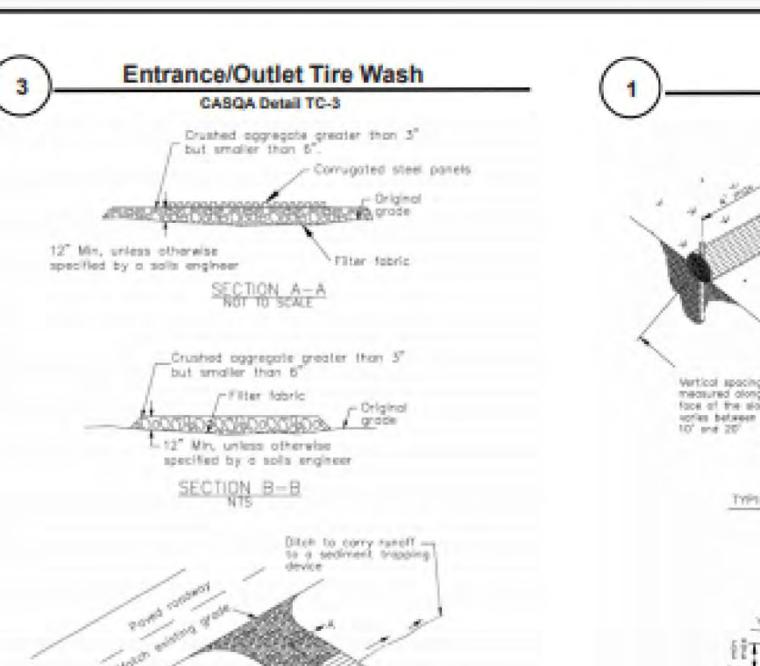
**COUNTY BMP NOTES** 

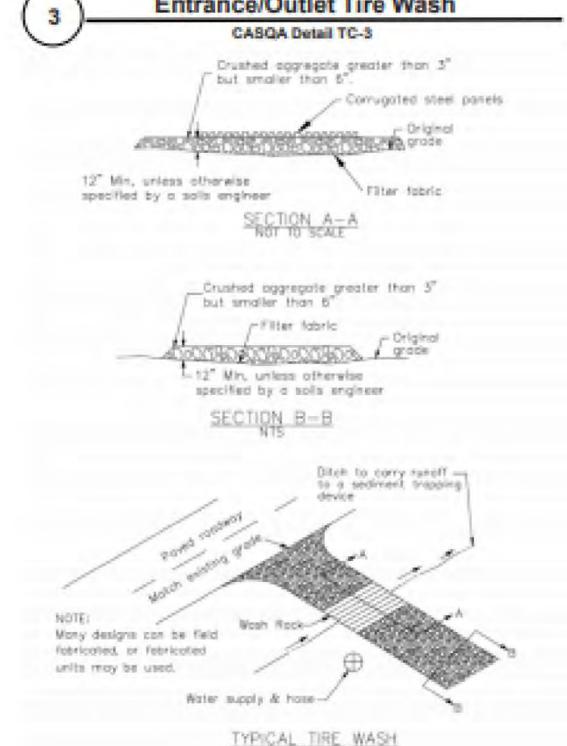
SCALE

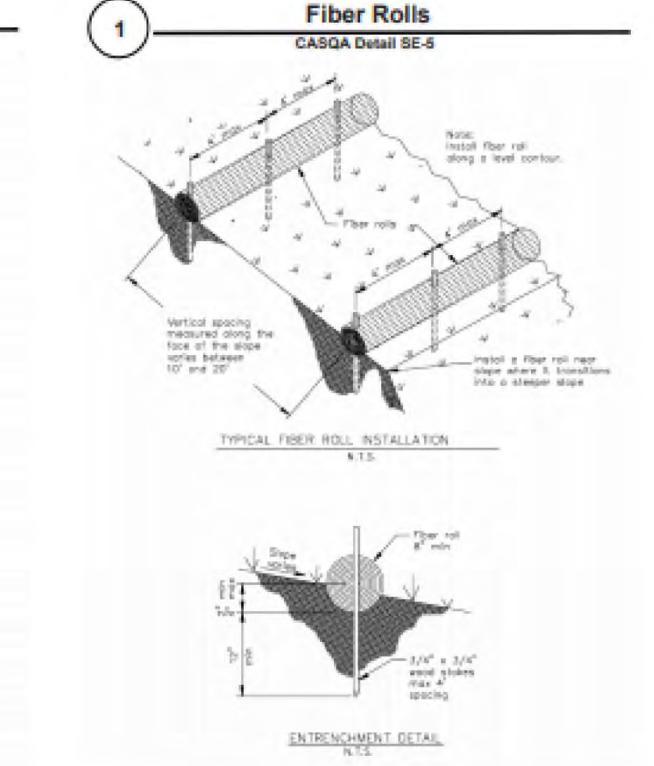
1"=30'

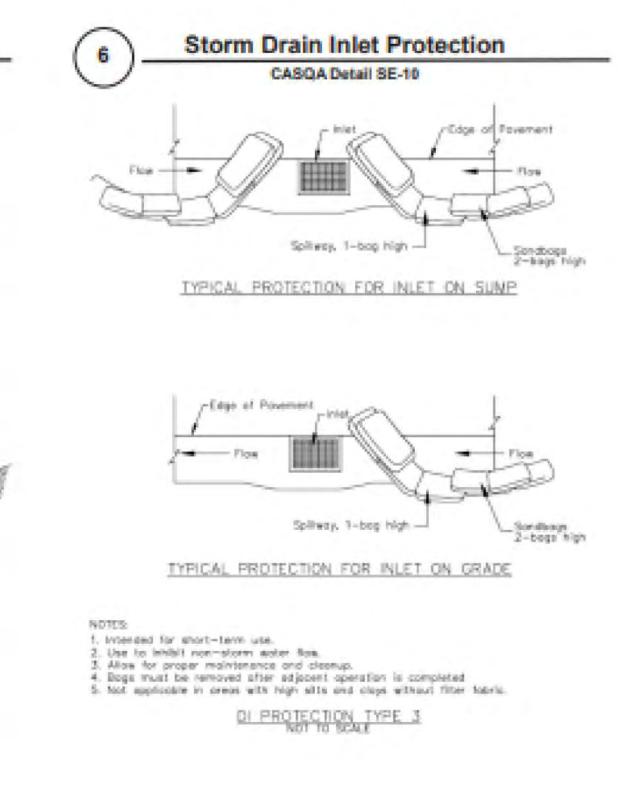
SHEET NUMBER

C-7.2









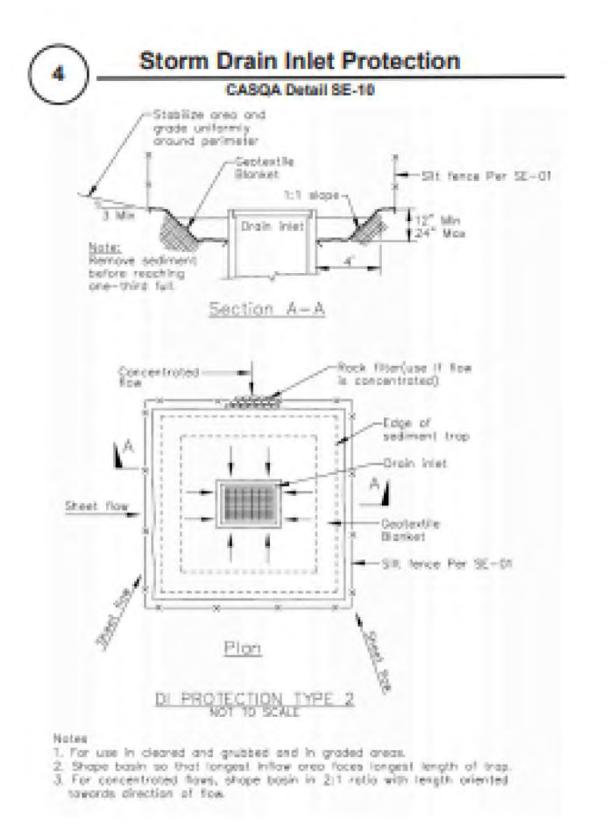
Ley blankets leasely and stoke or stople to resintain direct centect with the sail. Do not stretch.

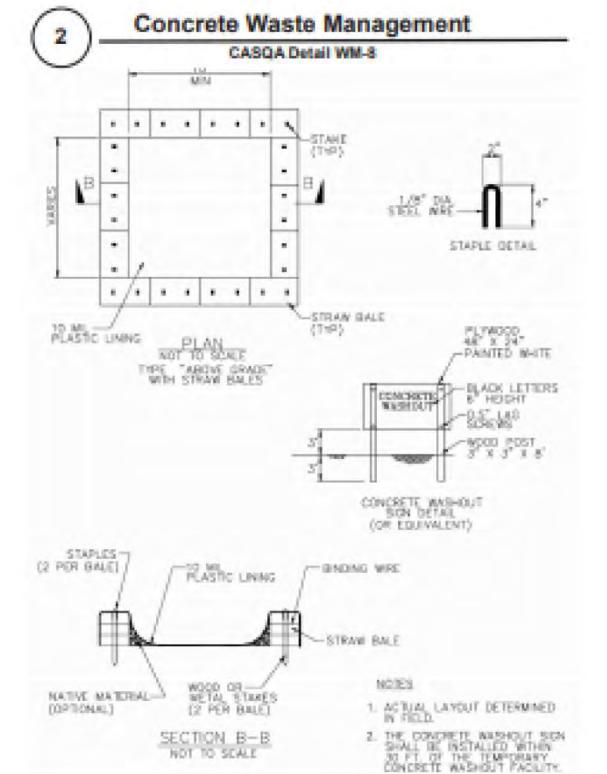
TYPICAL INSTALLATION DETAIL

3. Install per monufacturer's recommendations

Geotextiles and Mats

CASQA Detail EC-7



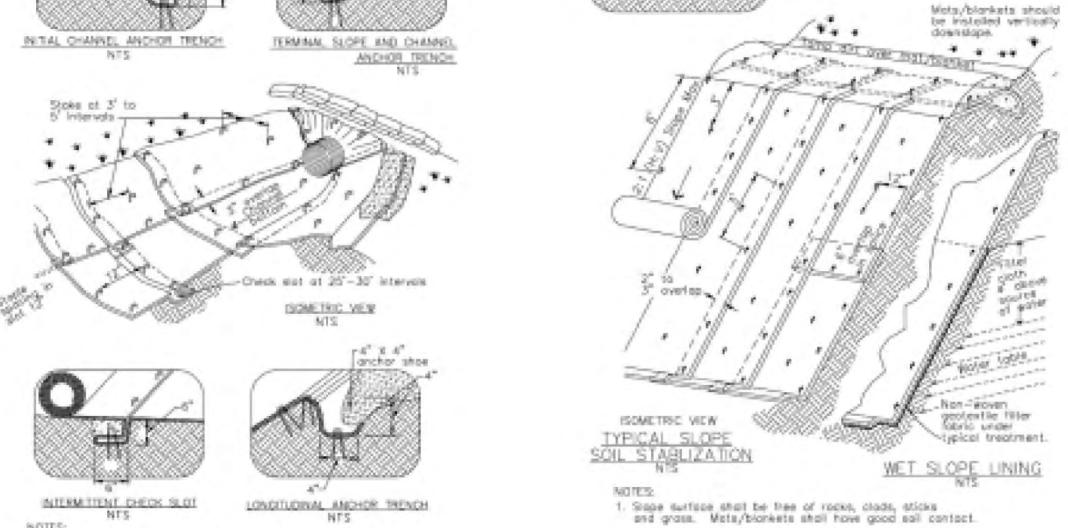


Best Management Practices and Erosion Control Details Sheet 2 County of Santa Clara



BMP-2

Information



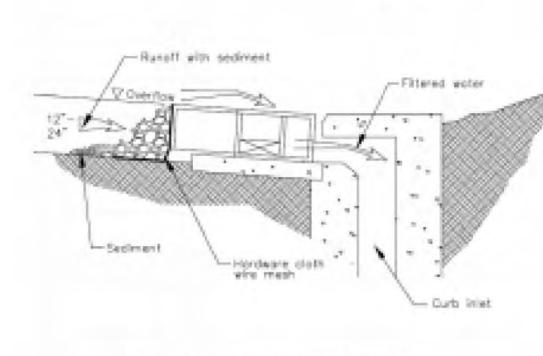
1. Check slots to be constructed per monufacturers specifications. Stoking or stapling tayeyt per monufacturers specifications. 3. Install per monufacturer's recommendations

Geotextiles and Mats

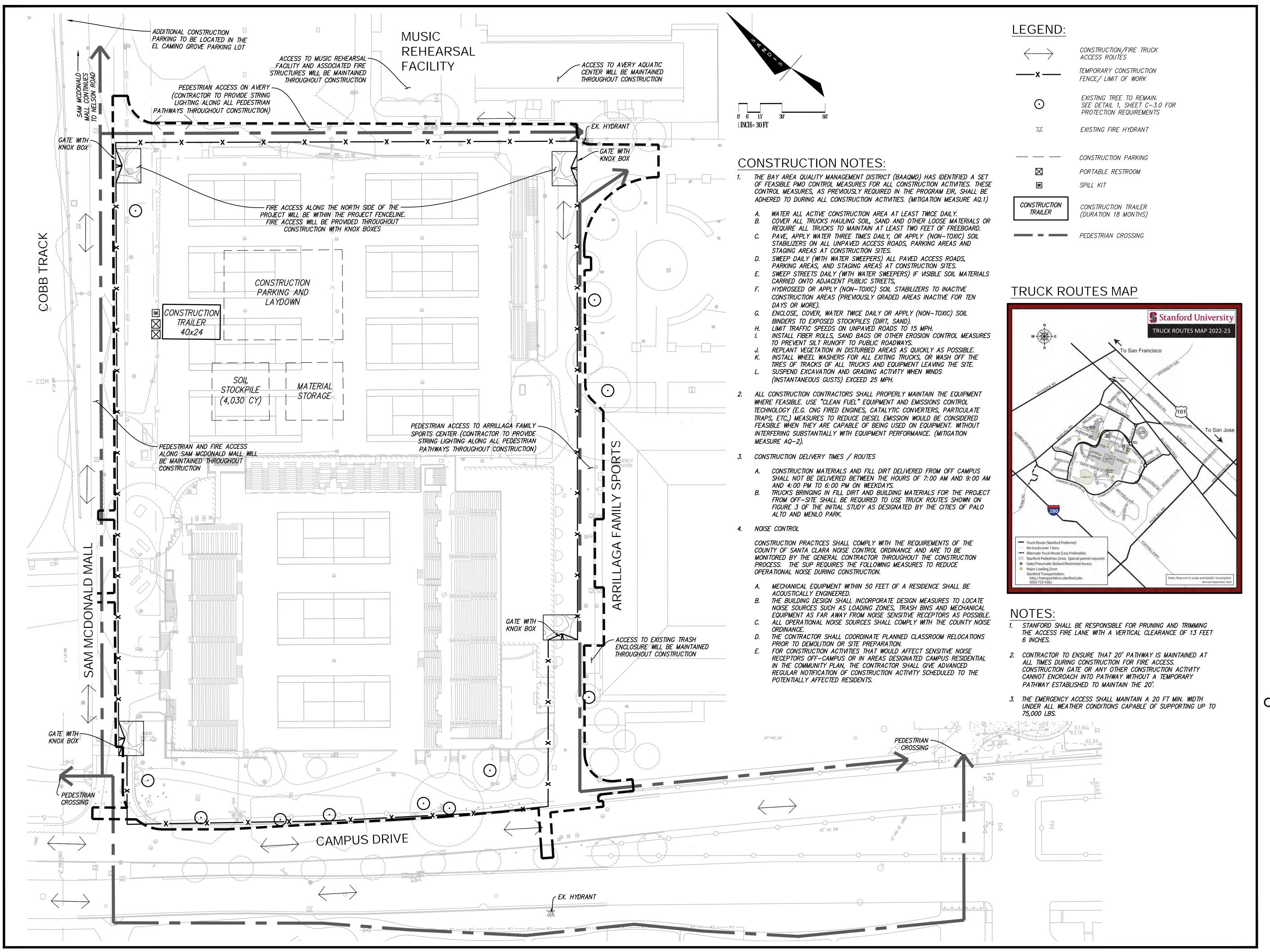
CASQA Detail EC-7

TYPICAL INSTALLATION DETAIL





Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345



**ARCHITECTS** 



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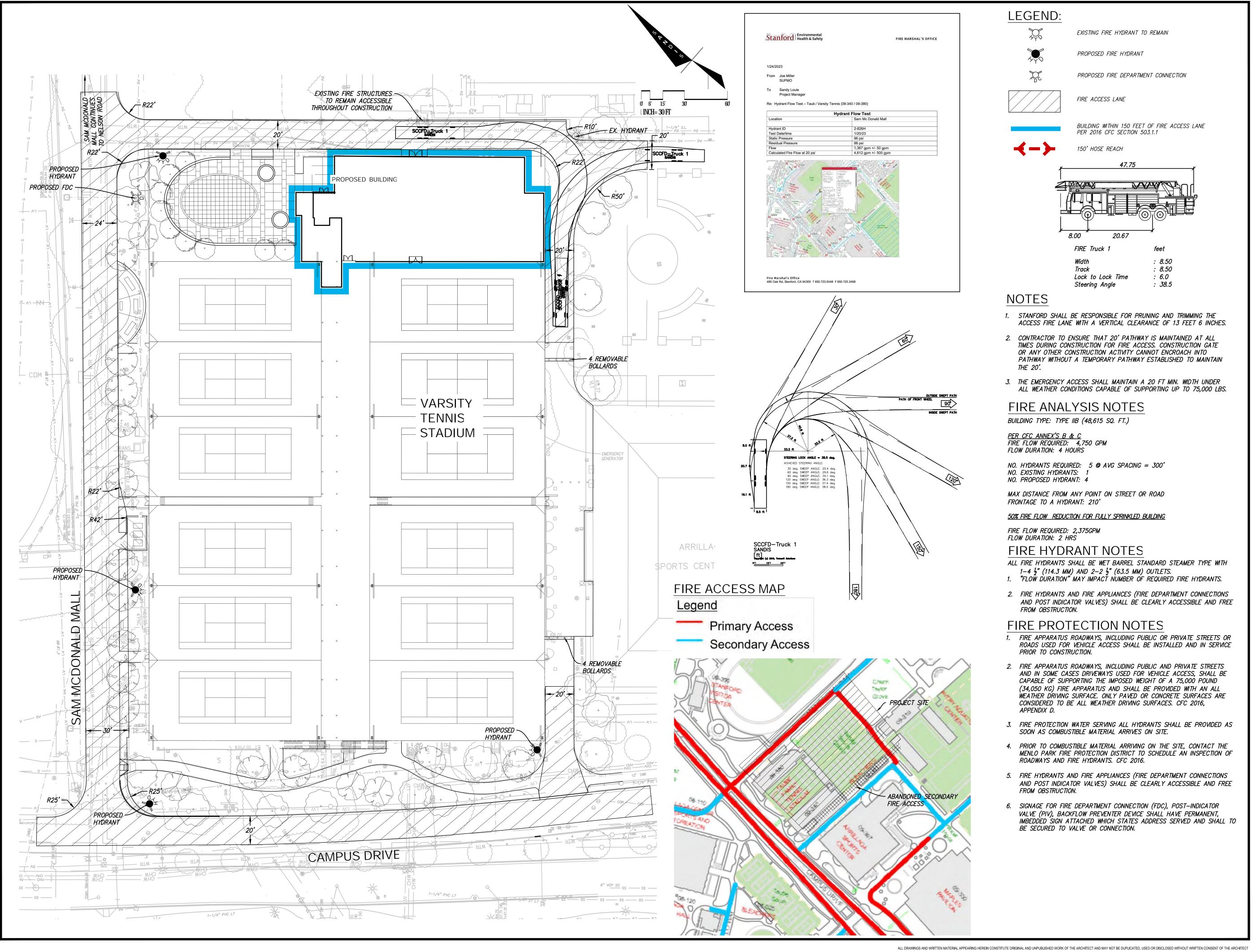
SHEET TITLE

# CONSTRUCTION SITE LOGISTICS AND SAFETY PLAN

1"=30'

SHEET NUMBER

0.8-0



Project Name: Varsity Tennis Center Project Address: 275 Sam McDonald Mall, Stanford CA. 94305 Quad/ Bldg. Number: 09-345





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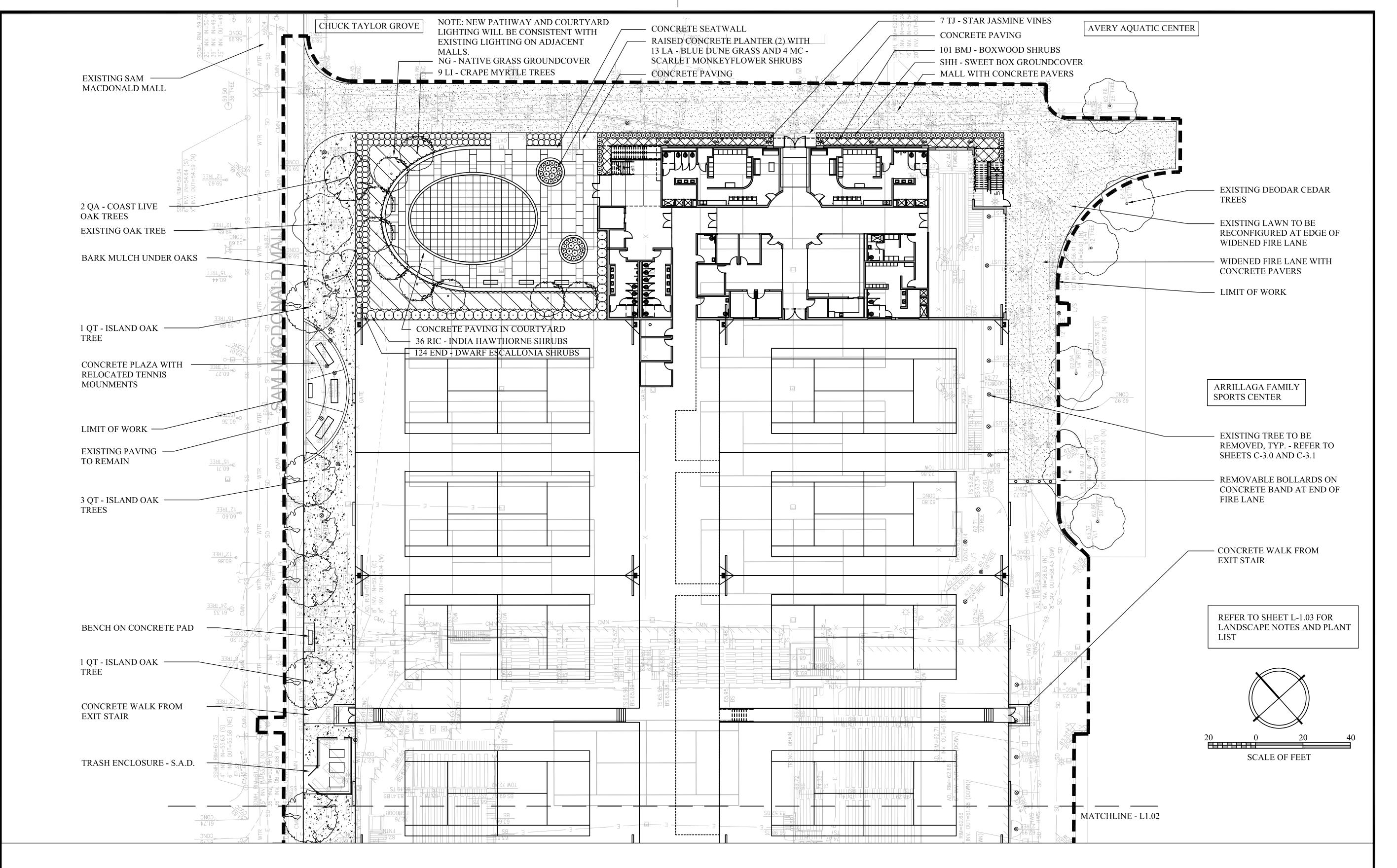
SHEET TITLE

FIRE ACCESS

SCALE

1"=30'

SHEET NUMBER



VARSITY TENNIS

STANFORD UNIVERSITY



Stephen Wheeler
Landscape Architects
99 Mississippi Street
Second Floor
San Francisco, CA 94107
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ISSUES AND REVISIONS

01.27.2023 ASA SUBMITTAL

PROJECT NUMBER

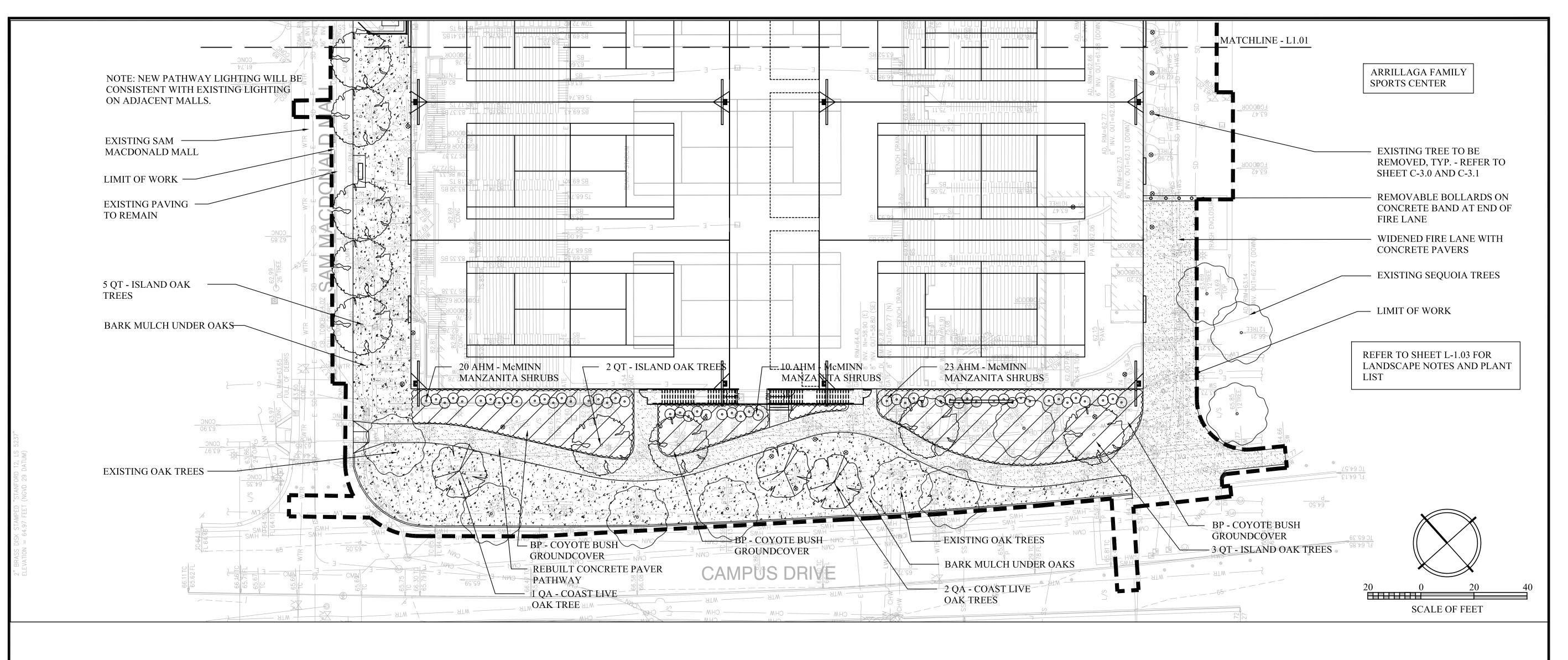
SHEET TITLE

LANDSCAPE PLAN

SCALE 1" = 20'-0"

SHEET NUMBER

L-1.01



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ISSUES AND REVISIONS

01.27.2023 ASA SUBMITTAL

PROJECT NUMBER

LANDSCAPE PLAN

SCALE 1" = 20'-0"

SHEET NUMBI

L-1.02

#### LANDSCAPE DESIGN CONCEPT

THE LANDSCAPE DESIGN FOR THE PROJECT CREATES A COURTYARD FOR THE NEW VARSITY TENNIS STADIUM AND PROVIDES STREETSCAPE CONNECTIONS FROM THE PROJECT SITE TO THE SURROUNDING ATHLETIC FACILITIES. THE COURTYARD IS ENCLOSED WITH A CONCRETE SEATWALL AND IS PAVED WITH CONCRETE. THE COURTYARD IS HIGHLIGHTED BY A ROW OF FLOWERING CRAPE MYRTLE TREES THAT ECHO THE SHAPE OF THE WALL. NEW BENCHES, LOCATED UNDER THE TREES, WILL PROVIDE SEATING FOR BOTH CASUAL USE AND FOR TOURNAMENT FANS. ORNAMENTAL PLANTING WITHIN THE COURTYARD AND AT THE BUILDING WILL PROVIDE SMALL-SCALE INTEREST FOR THE SPACE. THE PEDESTRIAN MALLS THAT EDGE THE SITE WILL BE PAVED WITH COLORED CONCRETE PAVERS AND MACDONALD MALL WILL BE PLANTED WITH ISLAND LIVE OAK TREES TO CONNECT TO THE EXISTING STREETSCAPE FABRIC. THE EXISTING LANDSCAPE AND ALONG CAMPUS DRIVE WILL BE RENOVATED WITH NEW TREES, SHRUBS AND GROUNDCOVER AND A REBUILT CONCRETE PAVER PATHWAY. PLANT MATERIALS HAVE BEEN SELECTED TO BE CLIMATE-ADAPTED, LOW WATER USE AND TO COMPLEMENT ADJACENT PLANTS AND THE STANFORD PLANT MATERIALS PALETTE.

#### TREE PRESERVATION NOTES

- 1. REFER TO THE TREE DISPOSITION TABLE ON SHEETS C-3.0 AND C-3.1 AND TO THE ARBORIST REPORT PREPARED BY DAVID BABBY, CONSULTING ARBORIST, FOR TREES TO BE SAVED AND REMOVED.
- 2. REFER TO TREE PROTECTION AND REMOVAL NOTES ON SHEET C-3.0 AND C-3.1.

#### PLANTING NOTES

- 1. PROJECT SHALL COMPLY WITH SANTA CLARA COUNTY AND STANFORD UNIVERSITY PLANTING REQUIREMENTS, INCLUDING:
- 1.1 SOIL SHALL BE CONDITIONED AND AMENDED AS PER THE RESULTS OF A SOILS TEST.
- 1.2 ALL SHRUB AND GROUNDCOVER AREAS SHALL BE MULCHED WITH 3" DEPTH OF BARK OR GRAVEL MULCH.
- 2. REFER TO CIVIL DRAWINGS FOR SITE DEMOLITION, PAVING, GRADING AND DRAINAGE AND STORMWATER MANAGEMENT.

#### IRRIGATION NOTES

- 1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A CERTIFIED IRRIGATION DESIGNER TO MEET SANTA CLARA COUNTY AND STANFORD UNIVERSITY REQUIREMENTS AND MAWA STANDARDS.
- 2. TREES WILL BE IRRIGATED WITH 2 PRESSURE COMPENSATING BUBBLER PER TREE.
- 3. SHRUBS WILL BE IRRIGATED WITH 1 PRESSURE COMPENSATING BUBBLER PER SHRUB.
- 4. GROUNDCOVER AREAS WILL BE WATERED WITH SUBSURFACE DRIPLINE.
- 5. NATIVE GRASS AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
- 6. DEPENDING ON SITE CONDITIONS AND AVAILABLE STATIONS, THE IRRIGATION SYSTEM WILL BE EITHER CONNECTED TO AN EXISTING CONTROLLER OR FURNISHED WITH A NEW CONTROLLER WITH A FLOW MONITOR, RAIN SENSOR AND SURGE PROTECTION.

#### HYDROZONES BASED UPON WCOLS PLANT WATER USEAGE

AREA	WCOLS WATER USEAGE			
+/- 8,290 SF	LOW - 85%	TREES, SHRUBS AND GROUNDCOVER		
+/- 1,493 SF	MEDIUM - 15%	SHRUBS		
+/- 9,783 SF	TOTAL AREA			



PLANT LIST KEY	QTY S	YMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USAGE
TREES							CSATGE
e state in the constant	9	LI	LAGERSTROEMIA INDICA	CRAPE MYRTLE	36" BOX		L
	5	QA	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX		VL
	14	QT	QUERCUS TOMENTELLA	ISLAND LIVE OAK	36" BOX		L
SHRUBS, GRASSES AND VINES							
0	53	AHM	ARCTOSTAPHYLOS 'HOWARD McMINN'	McMINN MANZANITA	5 GAL	48" O.C.	L
V	101	ВМЈ	BUXUS M. JAPONICA 'GREEN BEAUTY'	GREEN BEAUTY BOXWOOD	5 GAL	24" O.C.	M
	124	END	ESCALLONIA 'NEWPORT DWARF'	DWARF ESCALLONIA	5 GAL	30" O.C.	M
Þ	26	LA	LEYMUS ARENARIS 'BLUE DUNE'	BLUR DUNE WILD RYE	1 GAL	24" O.C.	L
4	8	MA	MIMULUS CARDINALIS	SCARLET MONKEYFLOWER	5 GAL	30" O.C.	M
$\overline{}$	36	RIC	RHAPHIOLEPIS INDICA 'CLARA'	WHITE INDIAN HAWTHORN	5 GAL	30" O.C.	L
<u>(</u> Δ)	7	TJ	TRACHELOSPERMUM JASMINIODIES	STAR JASMINE STAKED VINE	5 GAL		M
GROUNDCOVE	ER_						
	-	BP	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BUSH	1 GAL	48" O.C.	L
	-	NG	NATIVE NO MOW GRASS GI	ROUNDCOVER	SOD		L
	-	SHH	SARCOCOCCA HOOKERIANA HUMILIS	SWEET BOX	1 GAL	18" O.C.	L
<b>4</b>	-		BARK MULCH				

VARSITY TENNIS

STANFORD UNIVERSITY



Stephen Wheeler Landscape Architects 99 Mississippi Street Second Floor



ISSUES AND REVISIONS

O1.27.2023 ASA SUBMITTAL

PROJECT NUMBER

LANDSCAPE NOTES

SCALE

SHEET NUMBER

L-1.03