

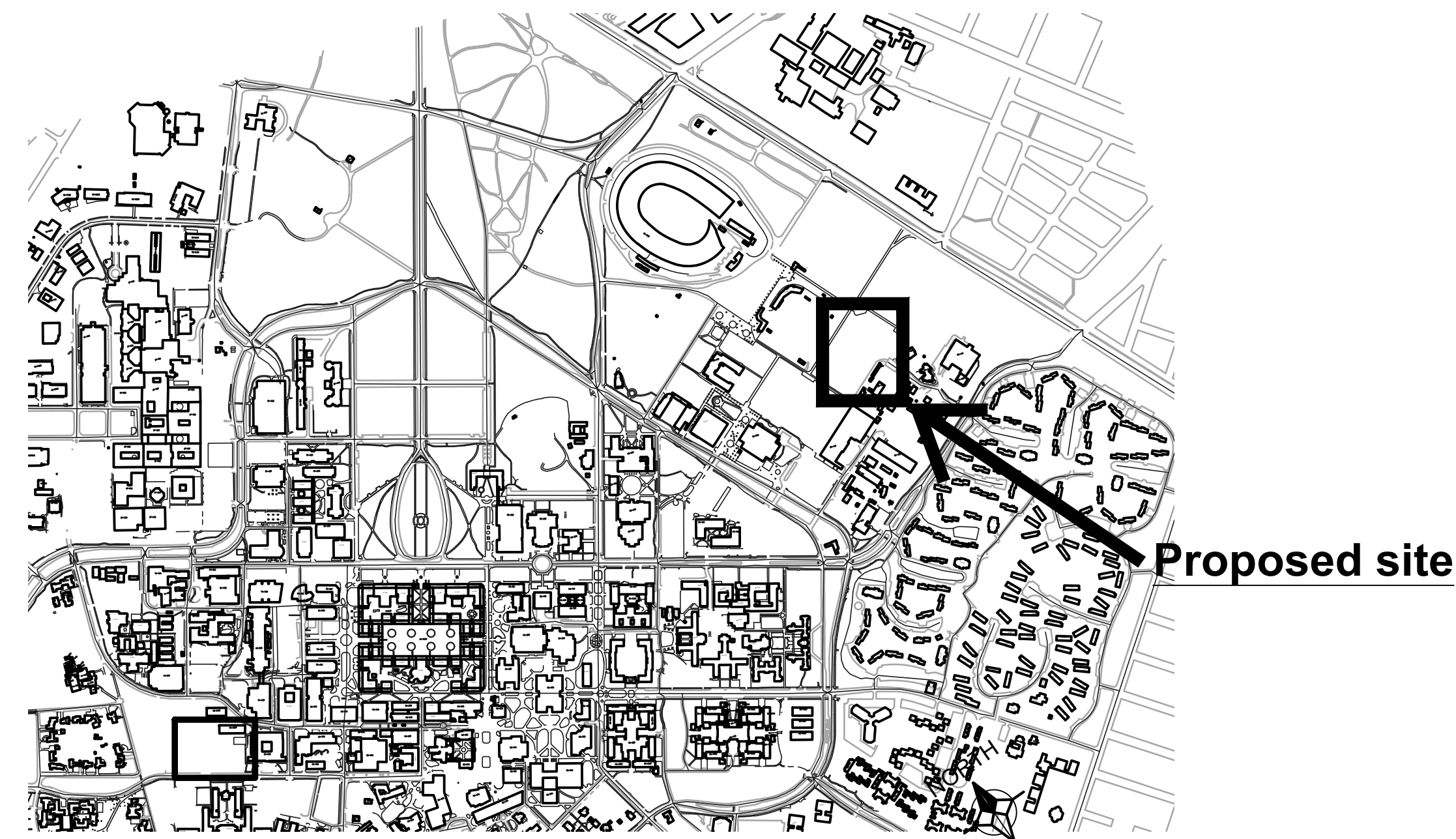
ASA SUBMITTAL SET

# STANFORD UNIVERSITY SMITH FAMILY SOFTBALL STADIUM

PROJECT 5662

161 CHURCHILL MALL Stanford, California

DRAWING STATUS: ASA SUBMITTAL  
 SUBMITTAL DATE: 12/5/2022  
 APPROVAL DATE:  
 ASA COMPLIANCE RE-SUBMITTAL  
 PERMIT APPLICATION  
 CONSTRUCTION PERMIT  
 RECORD DRAWINGS



VICINITY MAP

**DRAWING INDEX**

- PL0.0 TITLE SHEET
- PL1.2 GUP INFORMATION MAP
  
- A1-0 DEMO SITE PLAN
- A1.1 SITE PLAN
- A1-3A DEMO GUP CALCULATION
- A1-3B GUP CALCULATION
- A2-0 FIELD LEVEL PLAN
- A2-1 CONCOURSE LEVEL PLAN
- A2-2 PRESS LEVEL PLAN
- A2-3 ROOF LEVEL PLAN
- A3-1 CONTEXT ELEVATIONS
- A3-2 ELEVATIONS
- A3-3 ELEVATIONS
- A3-4 BUILDING ELEVATIONS
- A3-5 FENCE ELEVATIONS
- A3-6 FENCE ELEVATIONS
- A3-7 SECTION
- A4-1 RENDERING
- A4-2 RENDERING
- A5-0 POLE LIGHTING EXHIBIT & PHOTOMETRICS
- A5-1 POLE LIGHTING EXHIBIT & PHOTOMETRICS
- A5-2 POLE LIGHTING EXHIBIT & PHOTOMETRICS
- A5-3 POLE LIGHTING EXHIBIT & PHOTOMETRICS
- A5-4 POLE LIGHTING CUTSHEETS
- A5-5 POLE LIGHTING BEAM PATTERN DIAGRAMS
  
- C-1.0 COVER SHEET
- C-1.1 COUNTY CONSTRUCTION NOTES
- C-1.2 FIRE SAFETY NOTES
- C-2.0 TOPOGRAPHIC SURVEY
- C-3.0 DEMOLITION PLAN
- C-4.0 GRADING & DRAINAGE PLAN
- C-5.0 UTILITY PLAN
- C-6.0 STORMWATER MANAGEMENT PLAN
- C-7.0 EROSION CONTROL PLAN
- C-8.0 CONSTRUCTION SITE LOGISTICS/ SAFETY PLAN
- C-9.0 FIRE ACCESS PLAN
  
- L-1.01 LANDSCAPE PLAN
- L-1.02 LANDSCAPE NOTES
- L-1.03 LANDSCAPE NOTES

**SITE DATA INFORMATION**

**GENERAL**

APN: 142-04-036  
 PARCEL SIZE: 560.15 AC  
 DEVELOPMENT DISTRICT: DAPER AND ADMINISTRATIVE  
 BUILDING/QUAD: 09-375  
 LAND USE DESIGNATION: ACADEMIC CAMPUS  
 SITE AREA: 141,869 SF

**PERCENTAGE OF SITE AREA:**

LANDSCAPE: 64 %  
 CONCRETE PAVING: 36 %

**CBC BUILDING TYPE:**

II-B SPRINKLERED

NUMBER OF NET NEW PARKING SPACES: 0

ESTIMATED CUT AND FILL:  
 CUT: 6,370 CUBIC YARDS  
 FILL: 124 CUBIC YARDS  
 NET: 6,246 CUBIC YARDS (EXPORT)

**PROJECT DESCRIPTION:**

**DEMOLITION OF EXISTING SOFTBALL PRESS BOX AND CONSTRUCTION OF NEW SOFTBALL STADIUM WITH ASSOCIATED SITE IMPROVEMENTS. THE STADIUM PROVIDES 1,300 PROPOSED FIXED SEATING AND THE OUTFIELD PROVIDES INFORMAL SEATING CAPACITY FOR 35 SEATED AND 30 STANDING.**

PROJECT MANAGER:  
 Mark Bonino  
 340 Bonair Siding Road  
 Stanford, CA 94304  
 mbonino@stanford.edu

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

DEPARTMENT OF PROJECT MANAGEMENT  
 340 Bonair Siding Road  
 Stanford, CA 94304  
 TELEPHONE (650) 723-0022 FAX (650) 723-7444

TITLE SHEET

STANFORD UNIVERSITY  
 SMITH FAMILY SOFTBALL  
 STADIUM

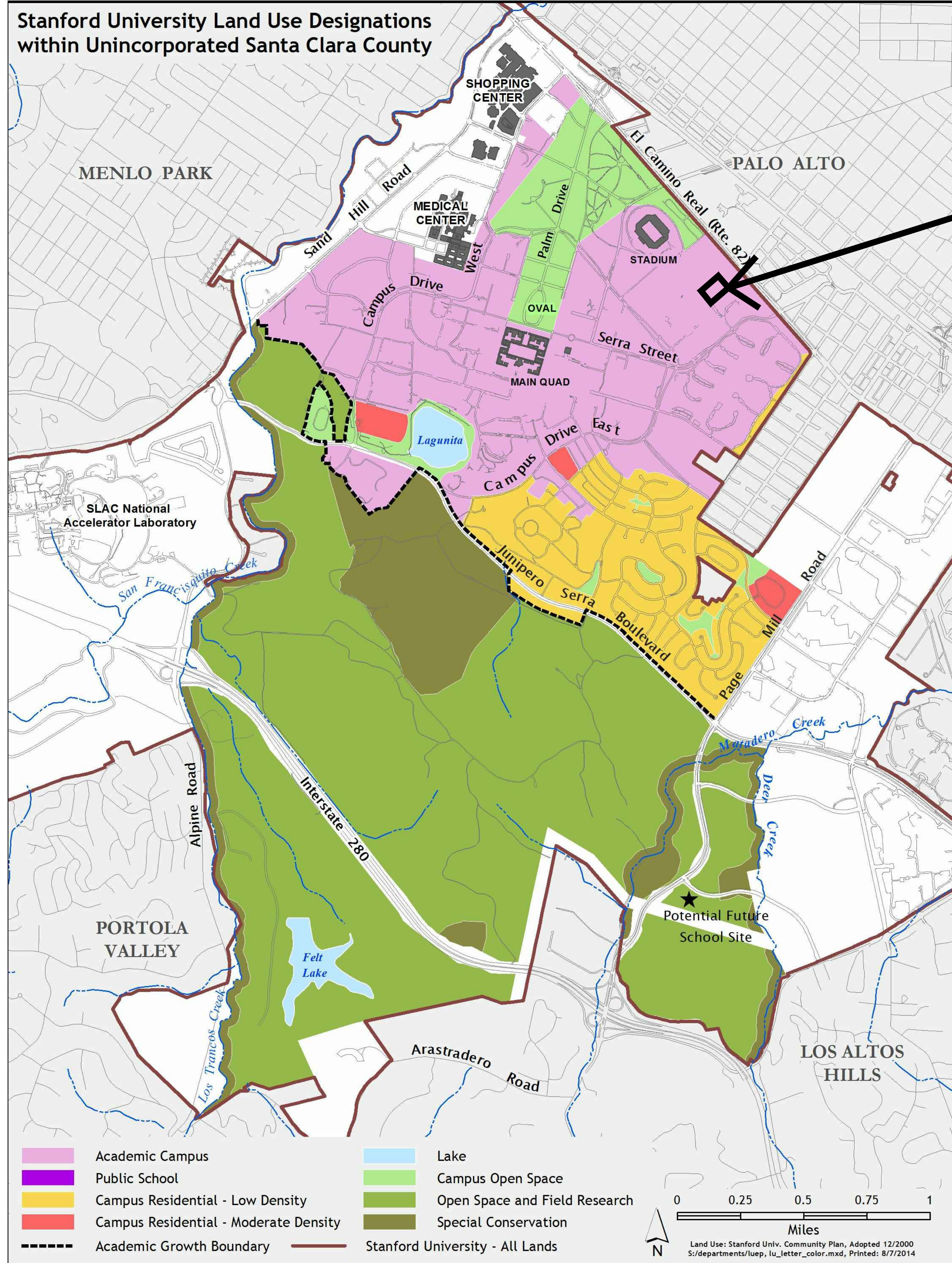
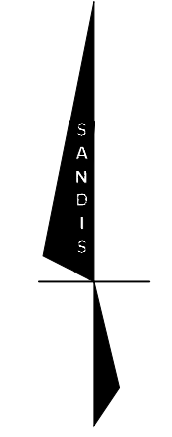
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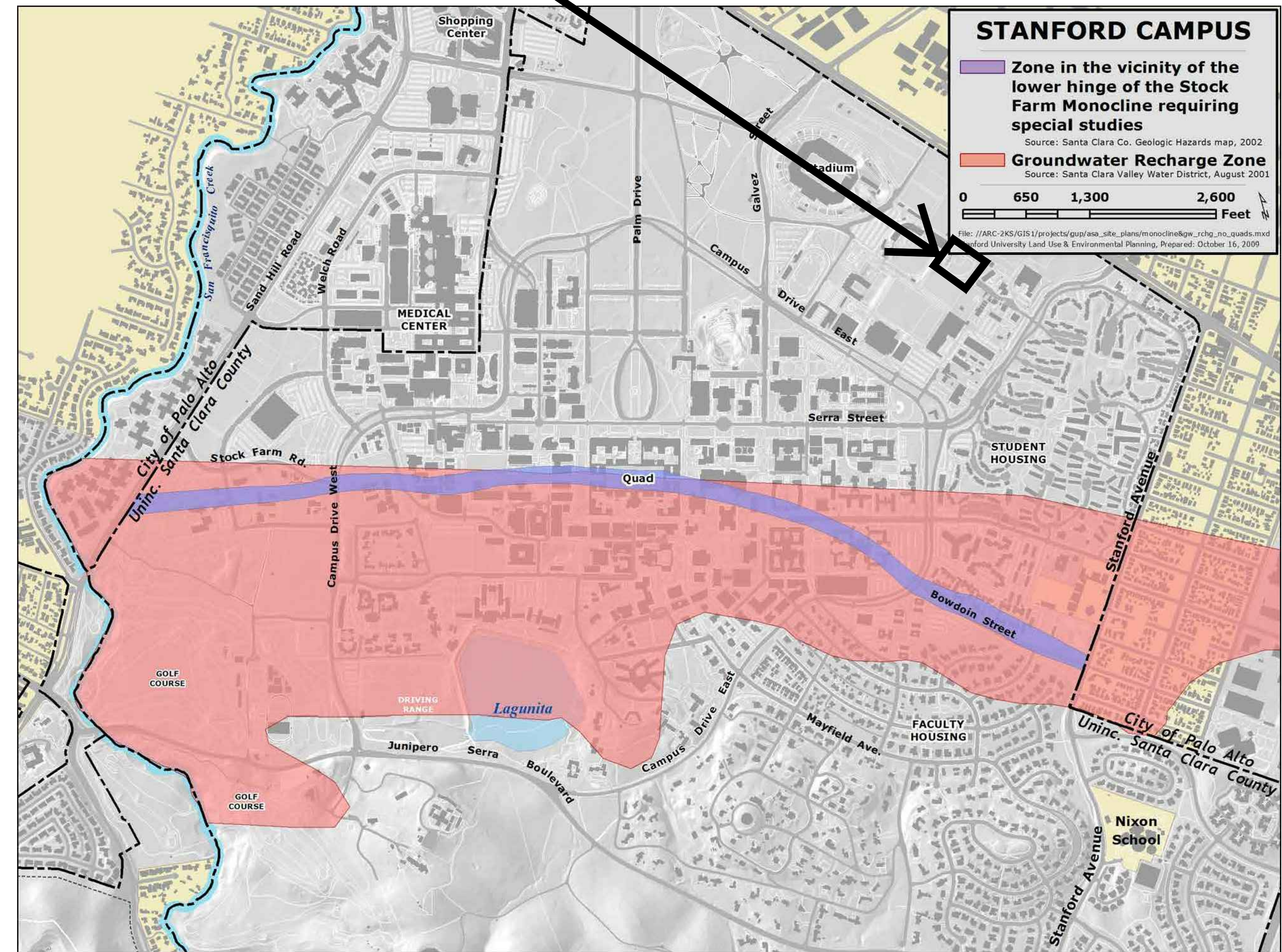
PL0.0



GUP INFORMATION MAP



PROPOSED SITE



REVISION

DEPARTMENT OF PROJECT MANAGEMENT  
340 Bonair Siding Road  
Stanford, CA 94304  
TELEPHONE (650) 723-0022 FAX (650) 723-7444

GUP INFORMATION  
MAP

STANFORD UNIVERSITY  
SMITH FAMILY SOFTBALL  
STADIUM

DATE: 09/09/22  
SCALE: N/A

PL12

File: S:\22057A14\_ENG\DRAWING\12\_PLAN\_SHEETS\12\_SHEET\_STF\ONSITE\PL12\_GUP\_INFO.dwg Date: May 03, 2023 - 11:32am, orange



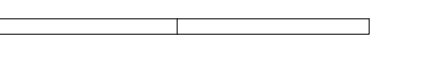


ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
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	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

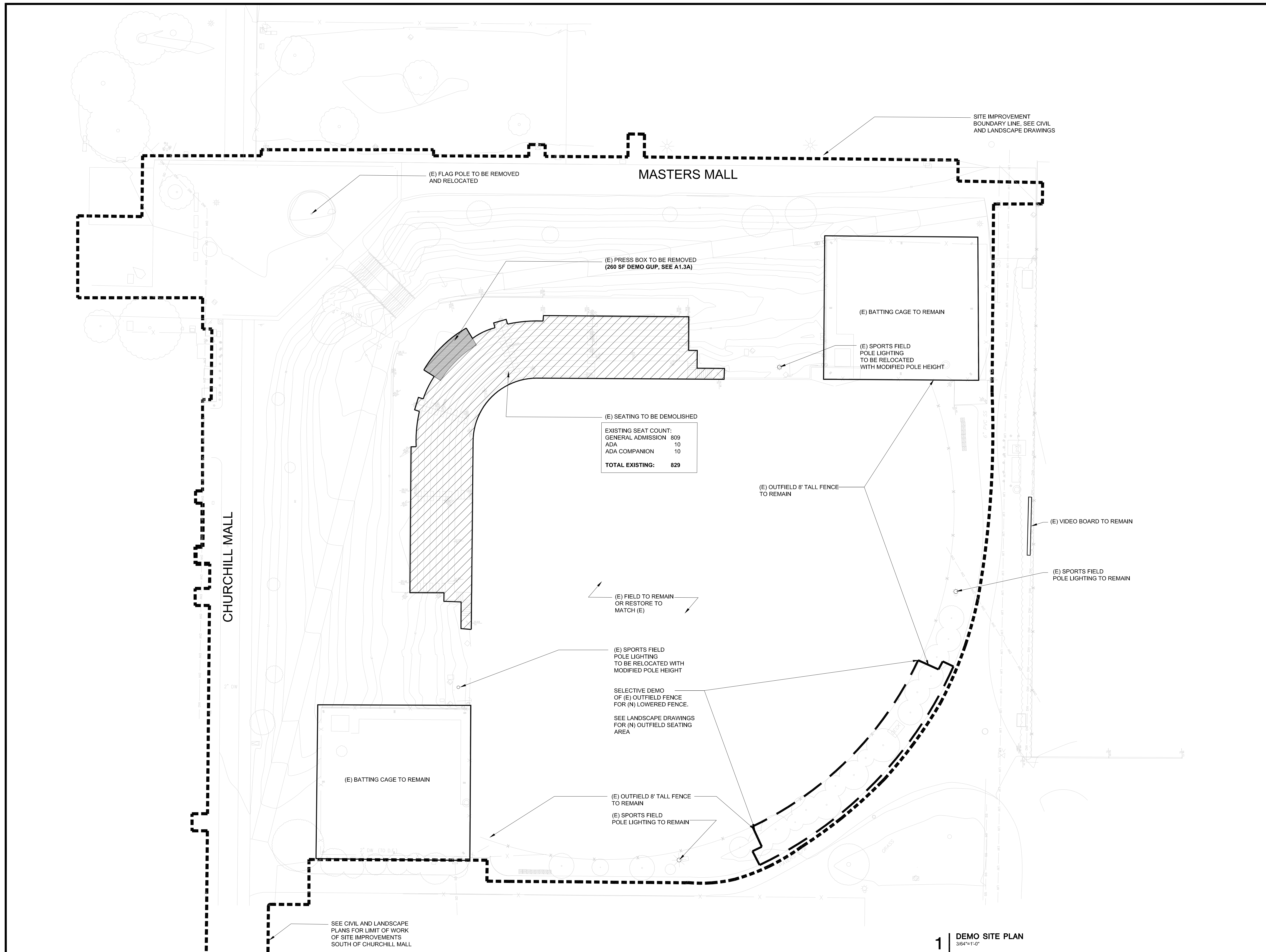
SHEET TITLE  
**SOFTBALL STADIUM  
SITE PLAN**

SCALE  
3/64" = 1'-0"



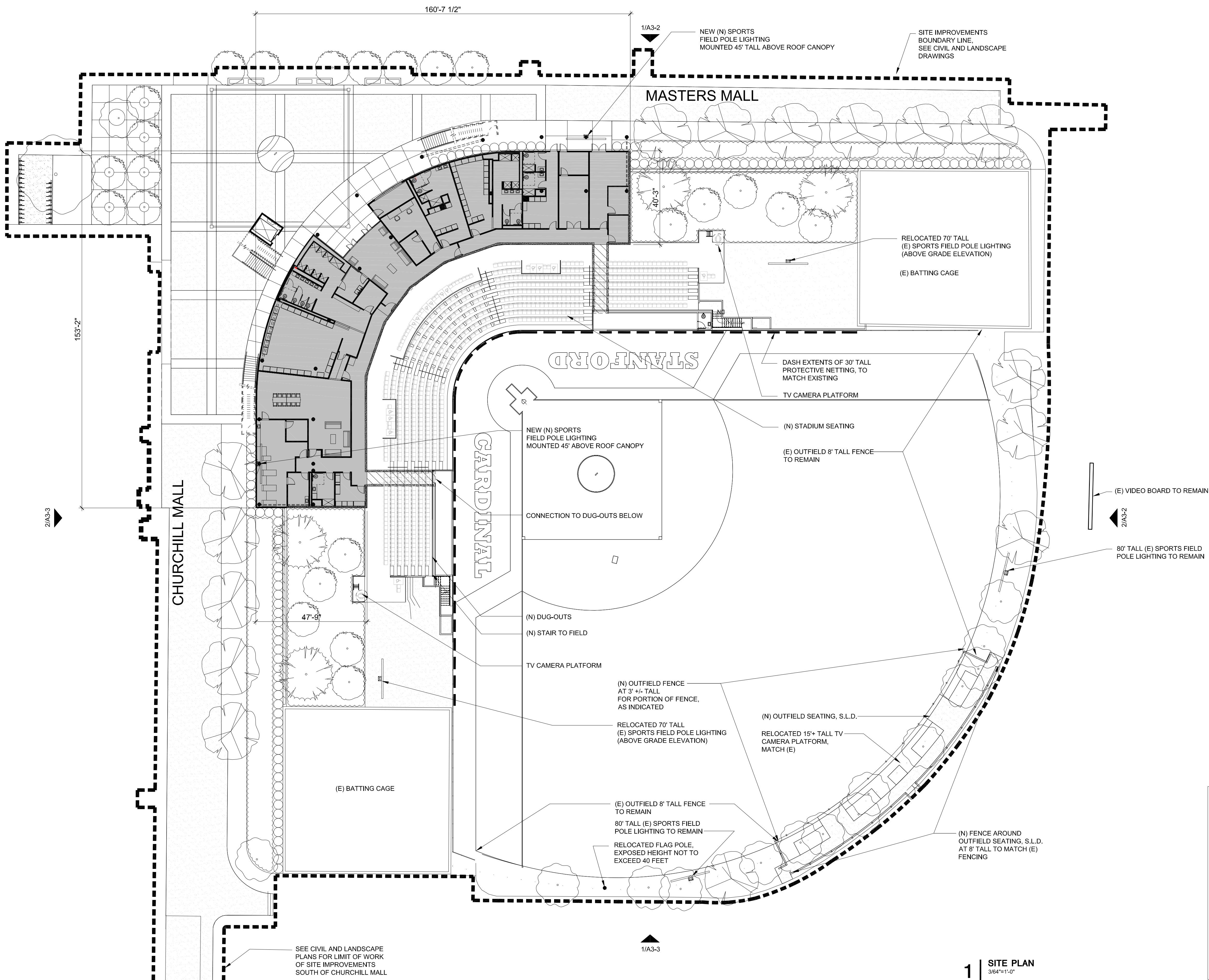
SHEET NUMBER

**A1.0**





Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



ISSUES AND REVISIONS

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22016

SHEET TITLE  
**SOFTBALL STADIUM  
SITE PLAN**

SCALE  
1/32" = 1'-0"



SHEET NUMBER

PROPOSED SEAT COUNT:	
CONCOURSE LEVEL	736
STANDARD	540
PREMIUM	94
ADA	14
ADA COMPANION	14
aisle SEATS	60
SEMI-AMBULATORY	14
PRESS LEVEL	
STANDARD	564
TERRACE DECK	462
ADA	56
ADA COMPANION	0
aisle SEATS	0
SEMI-AMBULATORY	46
	0
<b>TOTAL PROPOSED:</b>	<b>1,300</b>
OUTFIELD AREA	
SEATED	35
STANDING	30
<b>SUB-TOTAL PROPOSED:</b>	<b>1,365</b>

1 SITE PLAN  
3/64" = 1'-0"

A1.1

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HOOVER ASSOCIATES



Architecture  
Planning  
Interiors

1900 Embarcadero Road,  
Suite #200  
Palo Alto, California 94303  
650-327-7400  
Fax 650-858-4911

Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
02.03.2023	ASA SET	
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Issues and Revisions			
No.	Date	Issues and Revisions	By
3	12/3/00	DESIGN REVISION	
4	12/11/00	DESIGN REVISION	
9	4/05/01	DESIGN REVISION	

PROJECT NUMBER  
22016

SHEET TITLE  
SOFTBALL STADIUM  
DEMO GUP CALC

SCALE  
AS NOTED



SHEET NUMBER

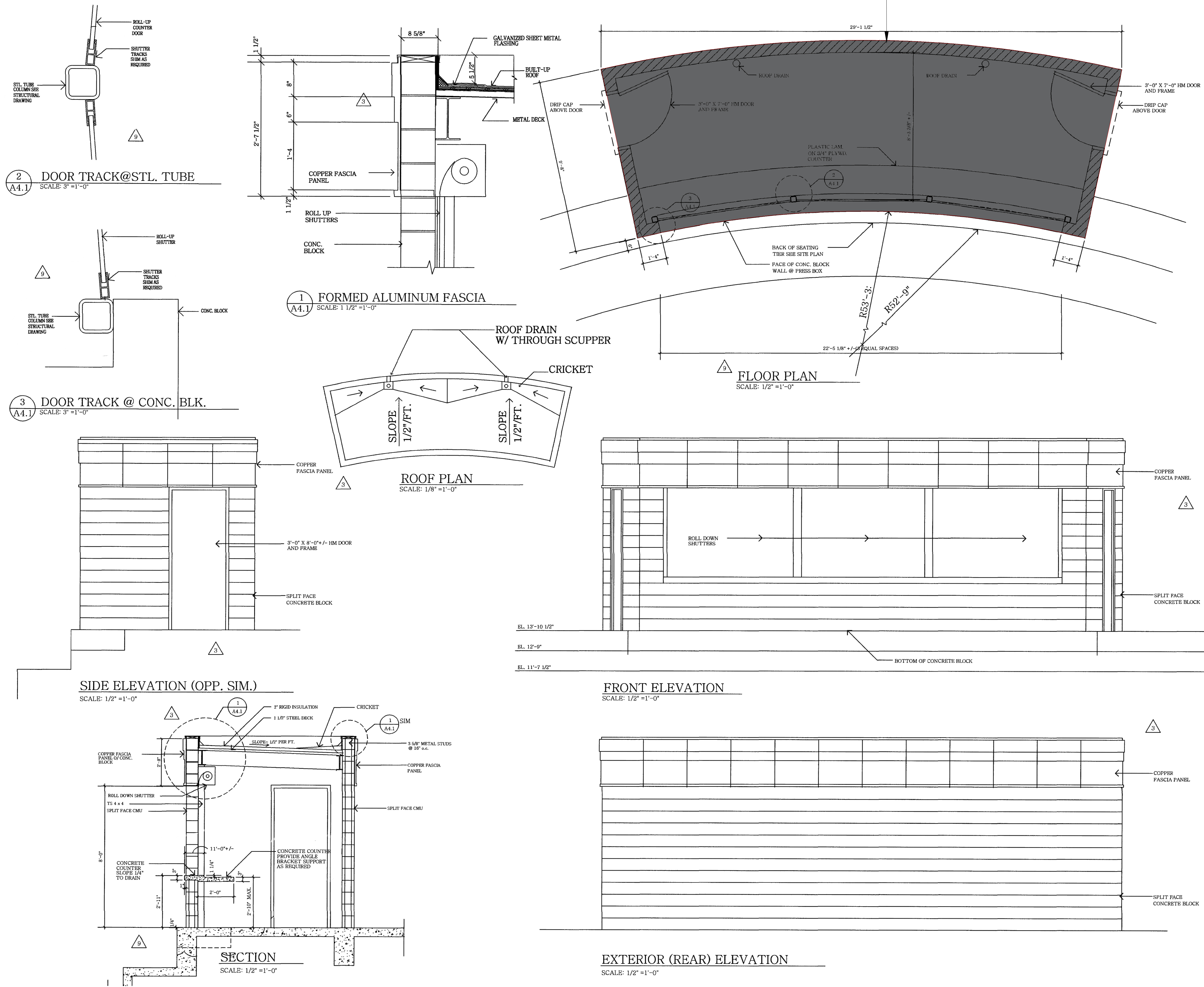
A1-3A

STANFORD  
SOFTBALL  
BLEACHERS  
STANFORD, CALIFORNIA

Project Number 1738  
Date 7/17/00  
Scale AS NOTED

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(E) PRESS BOX TO BE REMOVED  
260 SF DEMO GUP








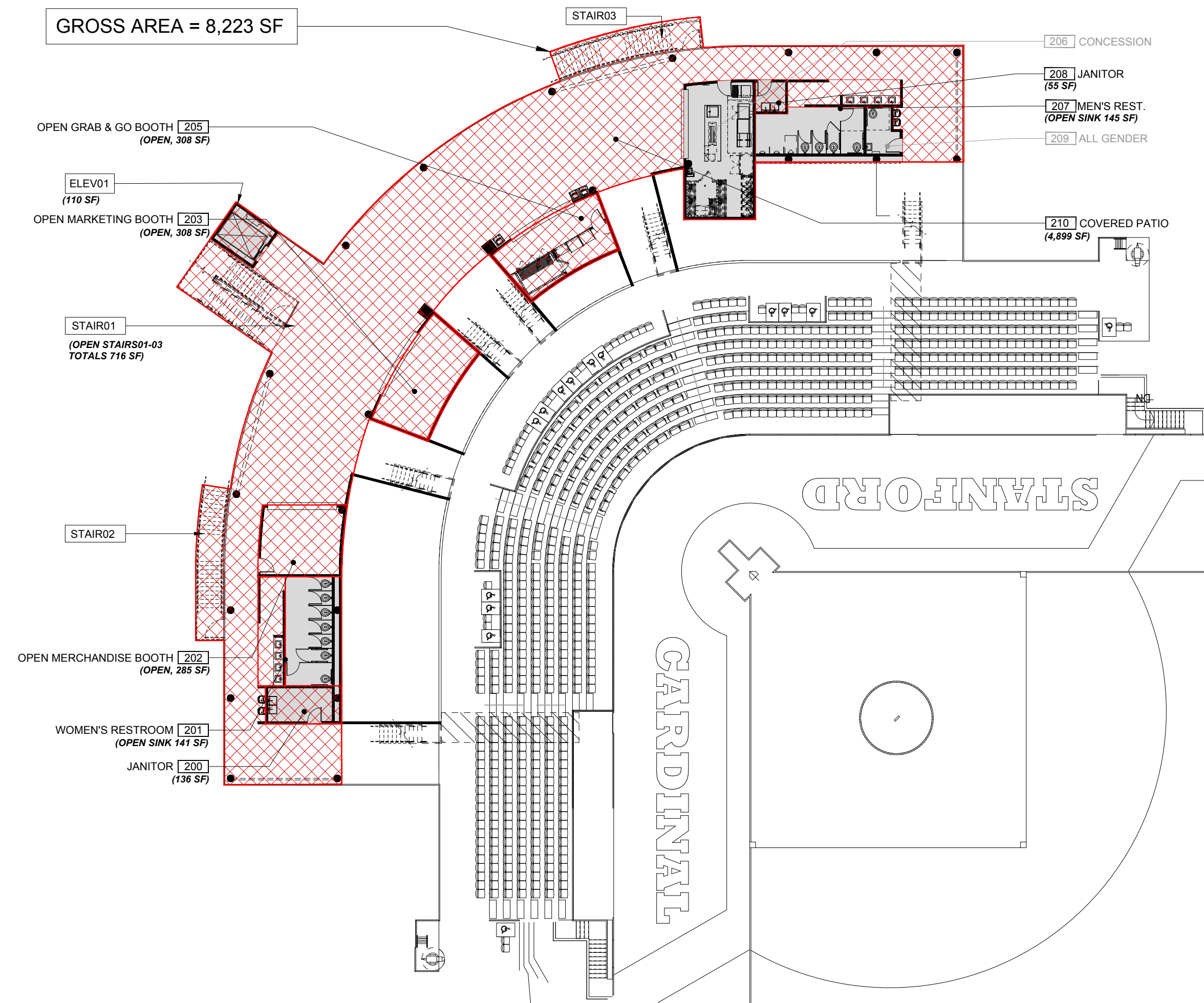
PROPOSED GUP CALC

	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
<b>SOFTBALL STADIUM</b>		
<b>FLOOR 1 (FIELD) GROSS AREA</b>	<b>12,188</b>	<b>12,188</b>
<b>EXEMPTIONS</b>		
109 Janitor's Closet		(138)
122 Mechanical Room		(396)
123A NPOE		(105)
123B MTR		(105)
Open Stairs	(890)	(890)
122 & 125 Dugouts	(736)	(736)
Open Circ01		(1,520)
124 & 126 Open Tarp Storage	(82)	(82)
<b>SUBTOTAL FLOOR 1</b>	<b>10,562</b>	<b>8,216</b>
<b>FLOOR 2 (CONCOURSE) GROSS AREA</b>	<b>8,223</b>	<b>8,223</b>
<b>EXEMPTIONS</b>		
Elevator	(110)	(110)
200 Janitor Room		(136)
201 Women's sink		(141)
202 Merchandise Booth		(285)
203 Marketing Booth		(308)
205 Grab and Go Booth		(308)
207 Men's sink		(145)
208 Janitor Room		(55)
Covered Patio		(4,899)
Open Stairs	(716)	(716)
<b>SUBTOTAL FLOOR 2</b>	<b>7,397</b>	<b>1,120</b>
<b>FLOOR 3 (PRESS) GROSS AREA</b>	<b>7,022</b>	<b>7,022</b>
<b>EXEMPTIONS</b>		
Elevator	(110)	(110)
300 Elevator Control room		(48)
302-306 Press Rooms		(1,032)
309 Janitor Closet		(56)
Hood Shaft	(7)	(7)
Covered Patio		(5,325)
Open Stair	(306)	(306)
<b>SUBTOTAL FLOOR 3</b>	<b>6,599</b>	<b>138</b>
<b>EXISTING DEMO (SEE DEMO PLAN ON A1.0)</b>	<b>(260)</b>	<b>(260)</b>
<b>TOTAL SOFTBALL STADIUM</b>	<b>24,298</b>	<b>9,214</b>

LEGEND

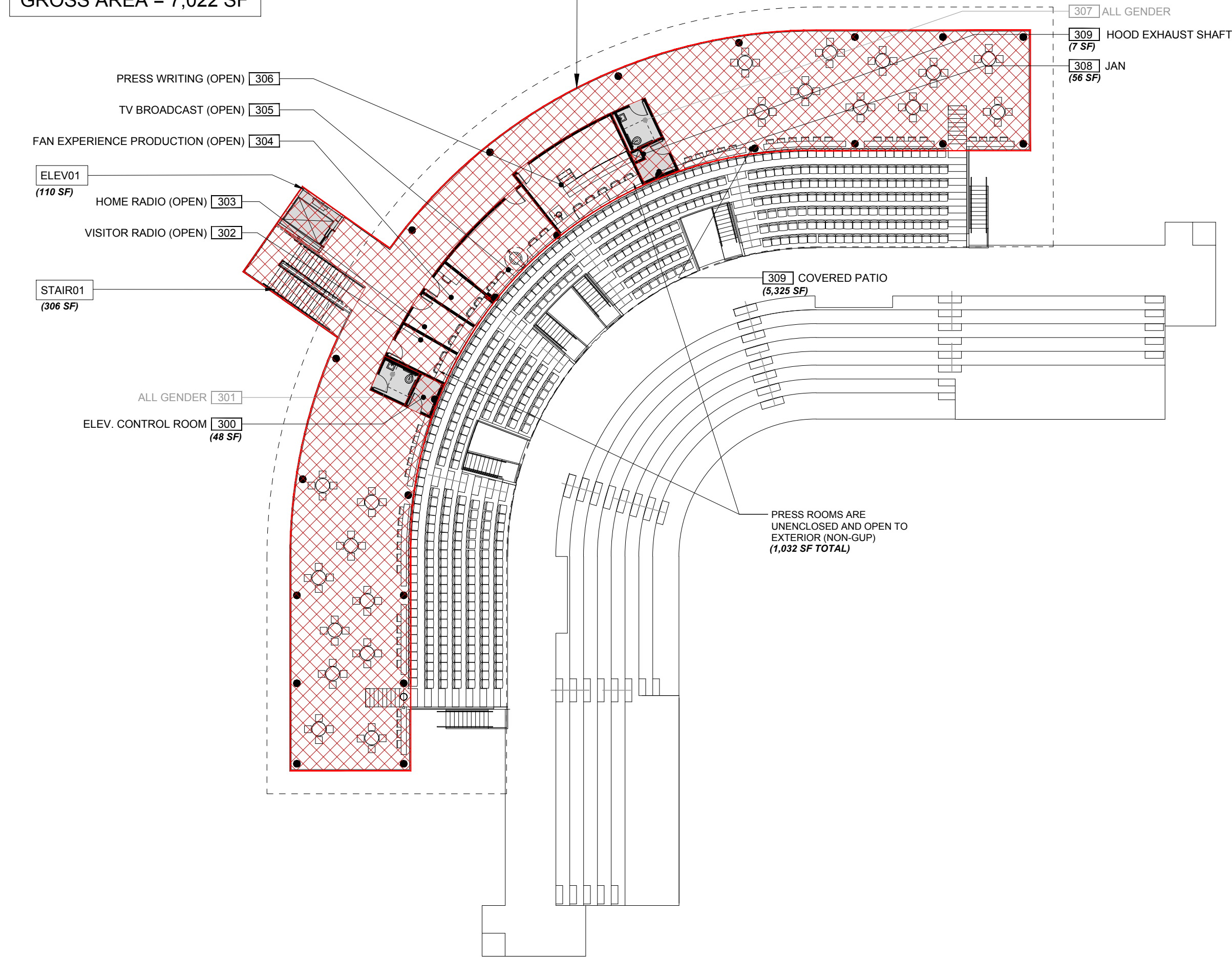
-  GUP AREA
-  EXEMPT (INTERIOR AREA)
-  EXEMPT COVERED (EXTERIOR) ARCADE AREA

GROSS AREA = 8,223 SF



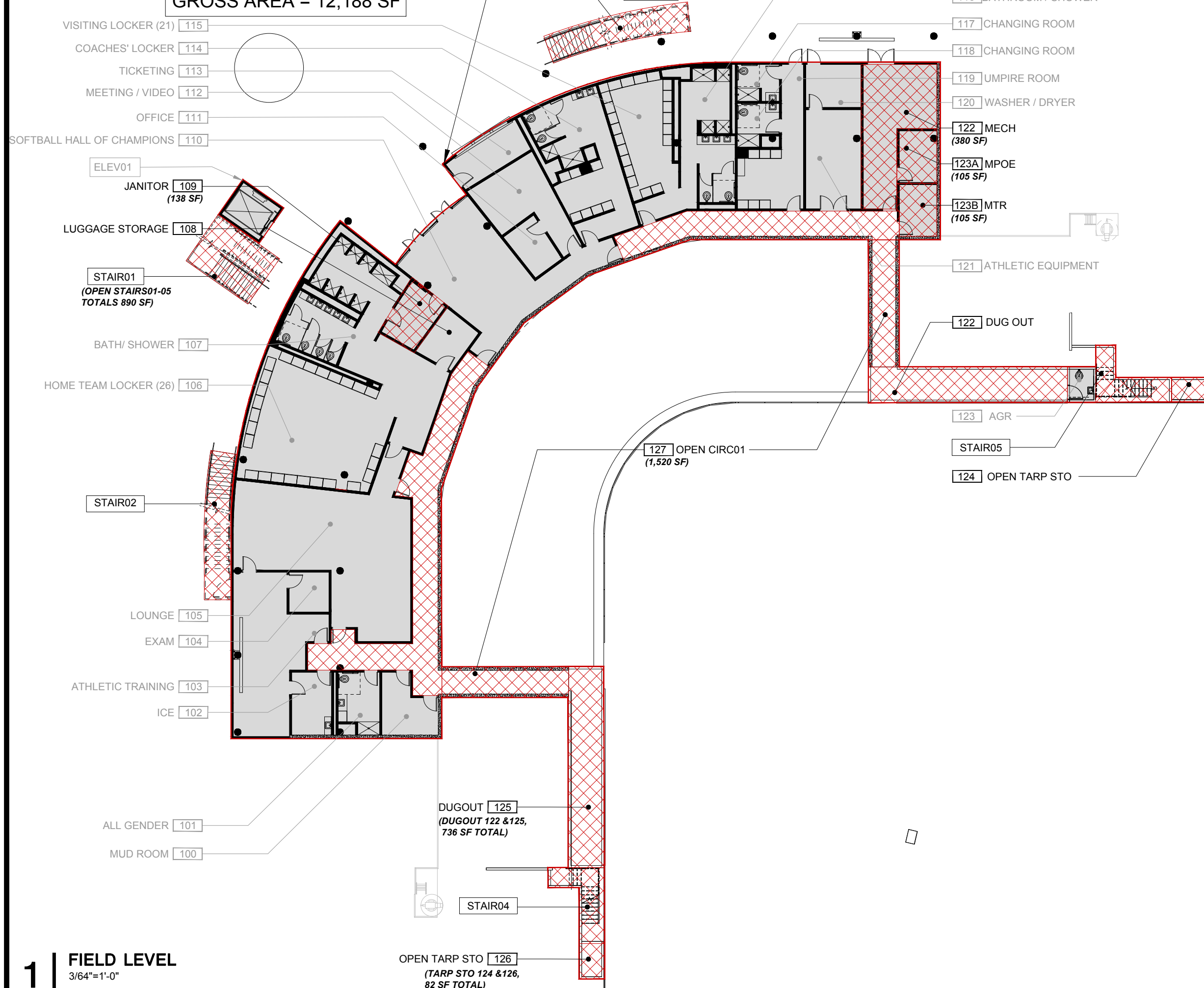
2 | CONCOURSE LEVEL  
3/64"=1'-0"

GROSS AREA = 7,022 SF



3 | PRESS LEVEL  
3/64"=1'-0"

GROSS AREA = 12,188 SF



1 | FIELD LEVEL  
3/64"=1'-0"

STANFORD UNIVERSITY

Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



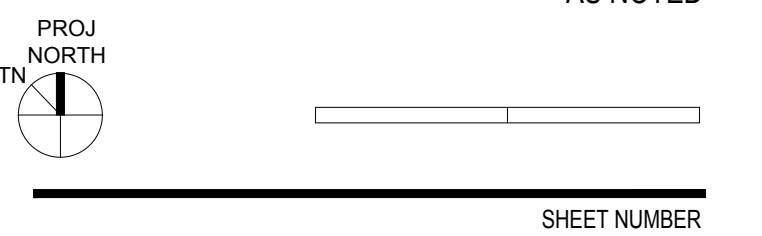
ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE  
SOFTBALL STADIUM  
GUP CALC

SCALE  
AS NOTED



SHEET NUMBER  
A1-3B

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22016

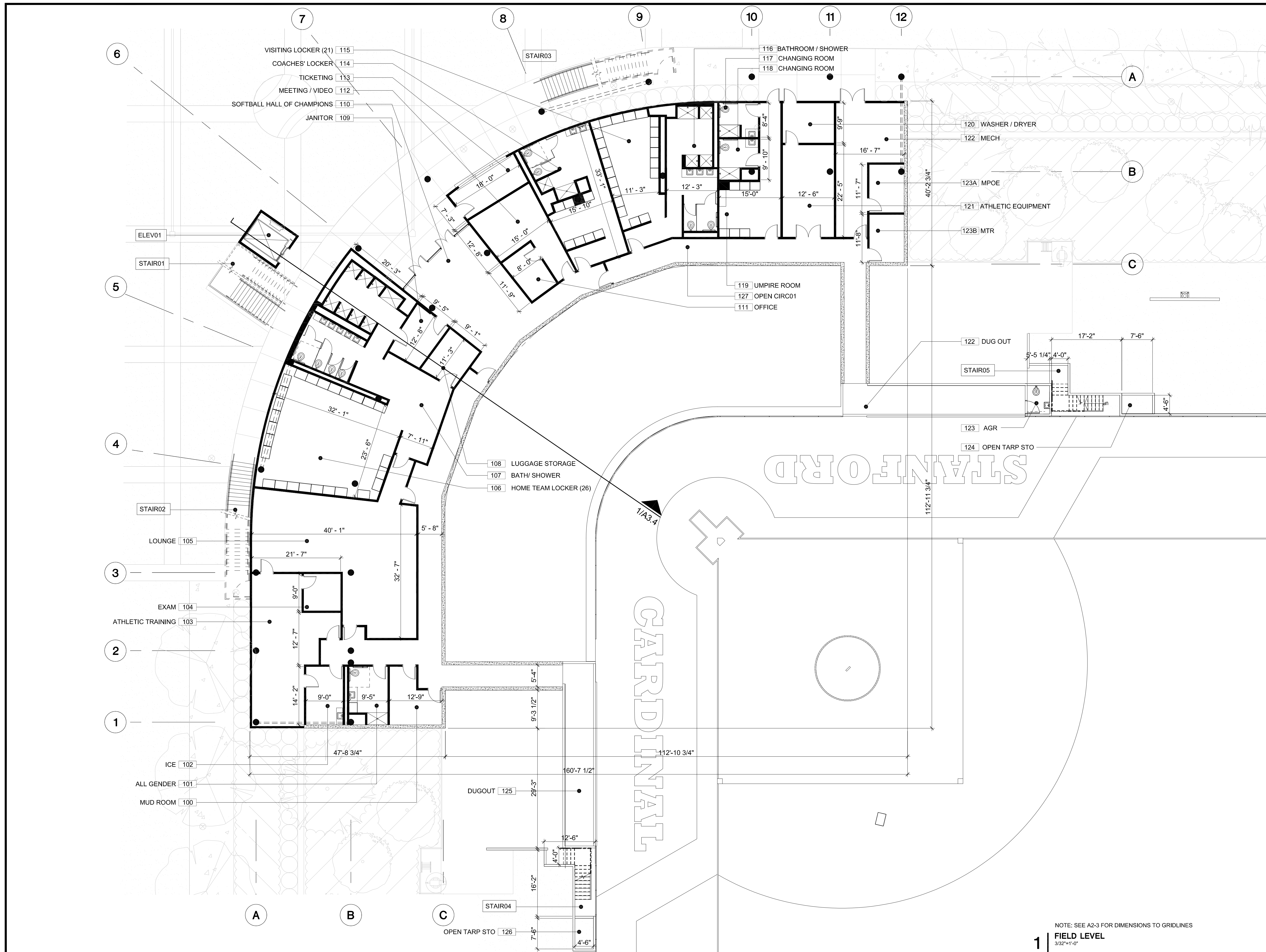
SHEET TITLE  
**SOFTBALL STADIUM  
FIELD LEVEL**

SCALE  
AS NOTED



SHEET NUMBER

**A2-0**



NOTE: SEE A2-3 FOR DIMENSIONS TO GRIDLINES  
**1** FIELD LEVEL  
 3/32"=1'-0"



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

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22016

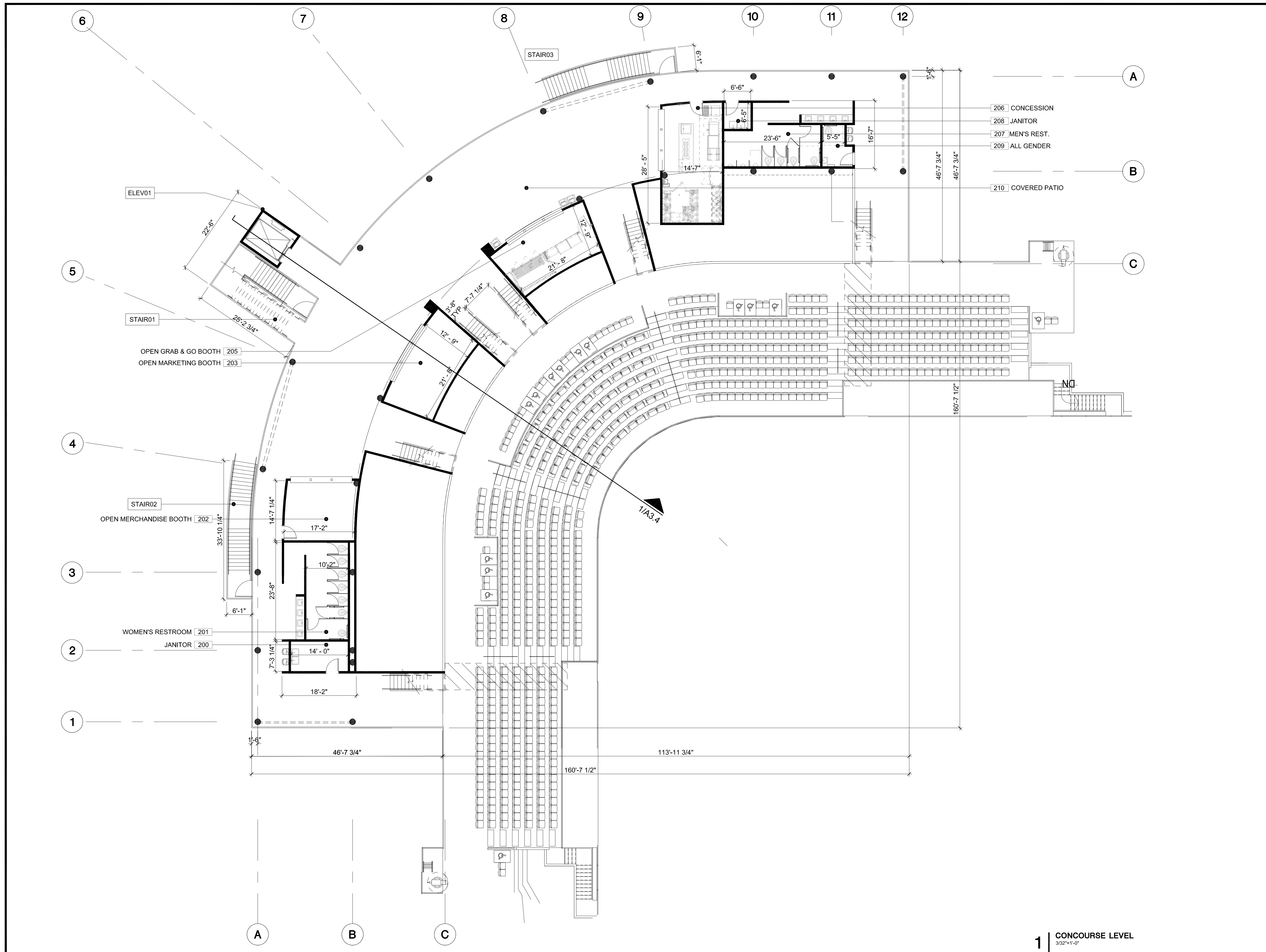
SHEET TITLE  
**SOFTBALL STADIUM  
CONCOURSE LEVEL**

SCALE  
AS NOTED



SHEET NUMBER

**A2-1**



**1** CONCOURSE LEVEL  
 3/32"=1'-0"



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

ISSUES AND REVISIONS		
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05.03.2023	ASA RESUBMITTAL #1	

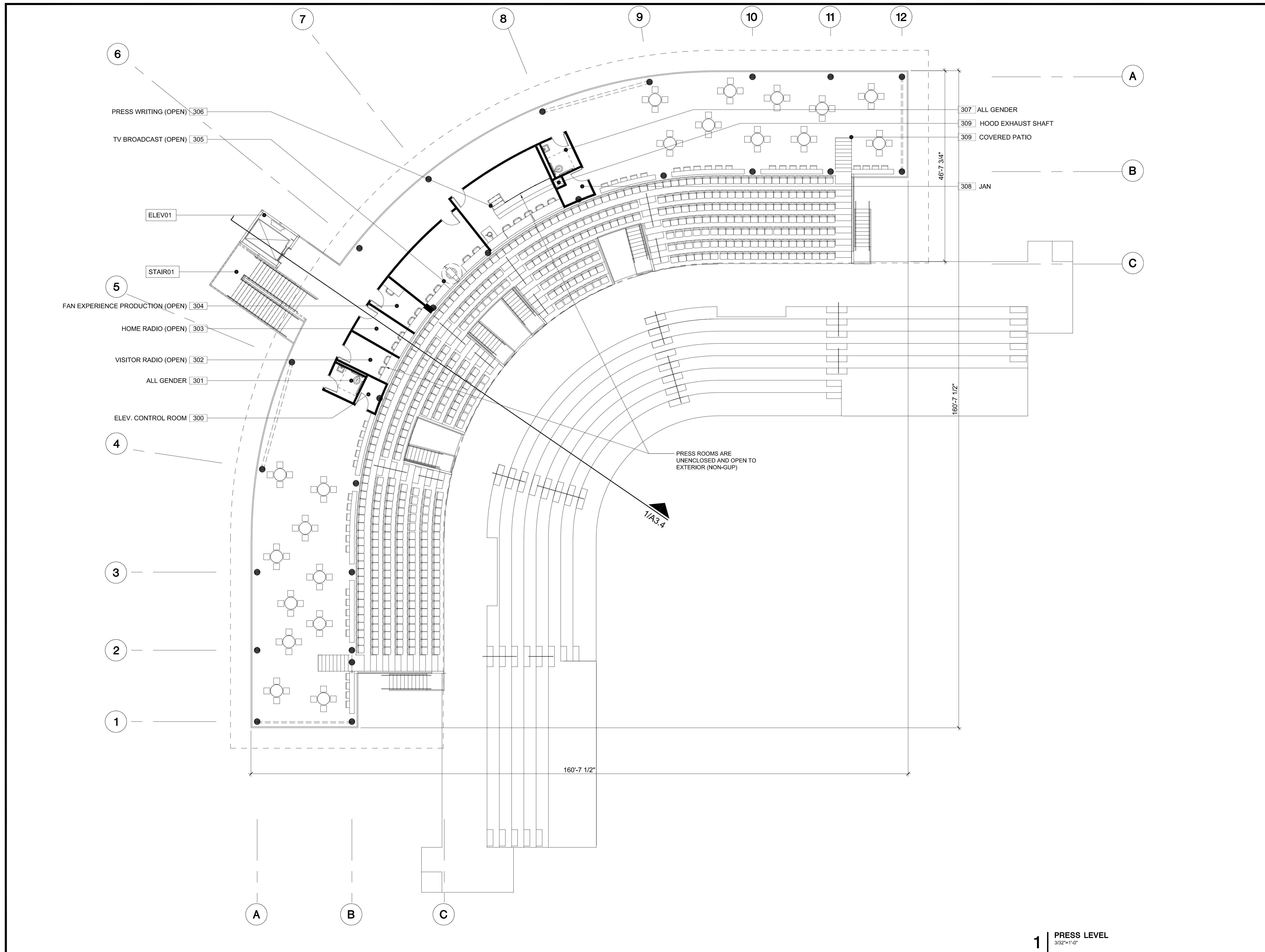
PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM  
 PRESS LEVEL**

SCALE  
 AS NOTED

SHEET NUMBER

**A2-2**

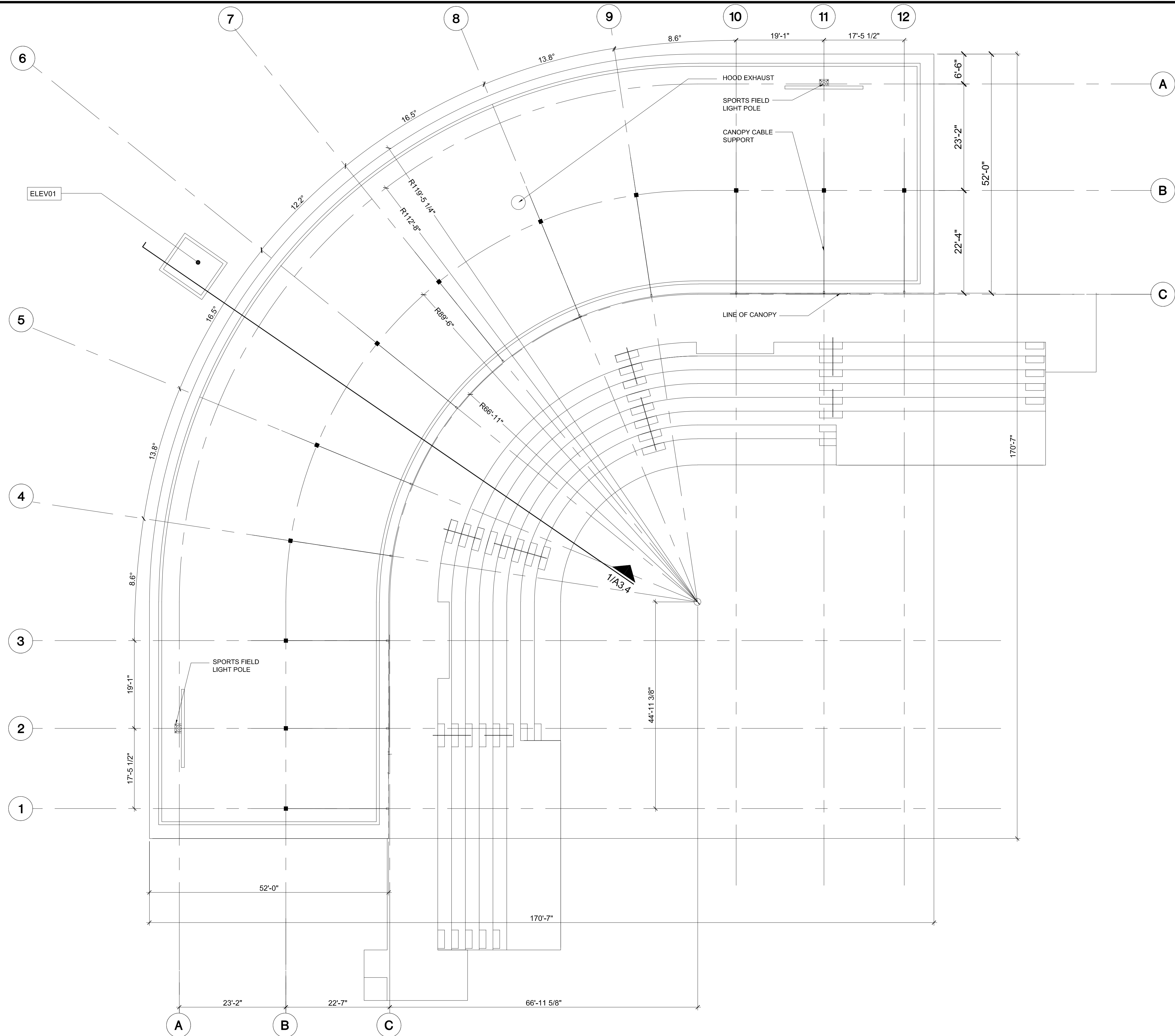


**1** | PRESS LEVEL  
 3/32"=1'-0"

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22016

SHEET TITLE  
**SOFTBALL STADIUM  
ROOF LEVEL**

SCALE  
AS NOTED

SHEET NUMBER

**1** ROOF LEVEL  
3/32"=1'-0"

**A2-3**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-375



**ARCHITECTS**  
 KORTH SUNSERI HAGEY



RUGBY CLUBHOUSE

MASTERS MALL

BATTING PRACTICE CAGE

FIELD HOCKEY STADIUM

**2** CONTEXT ELEVATION (CHURCHILL MALL)  
 1/16"=1'-0"

ISSUES AND REVISIONS

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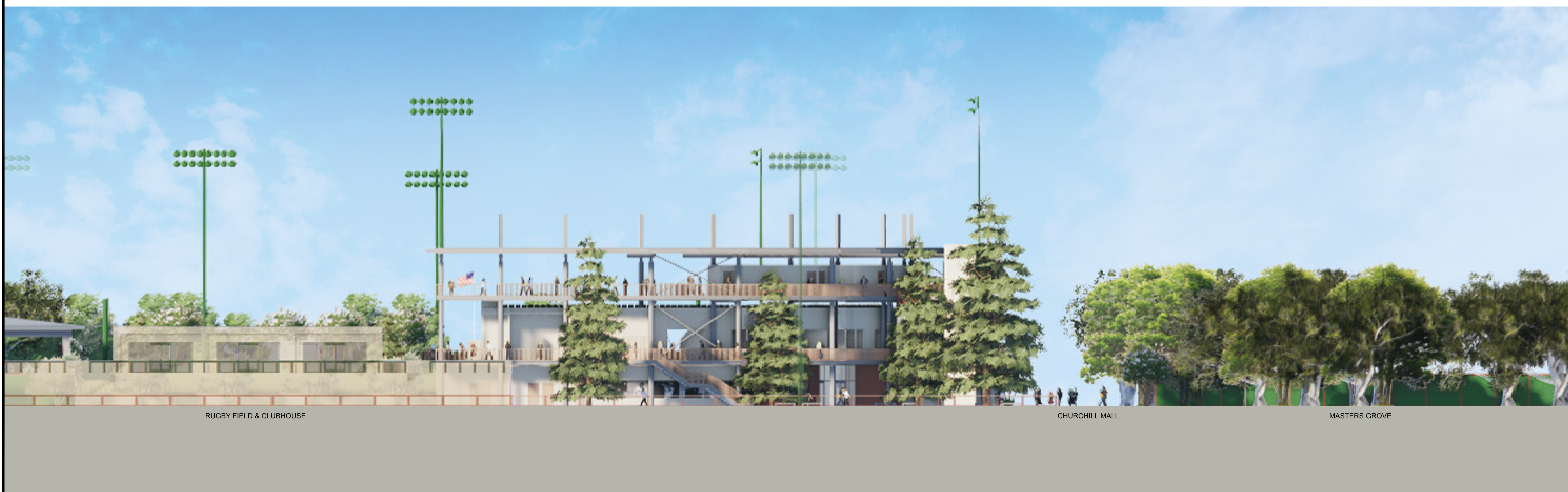
PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM  
CONTEXT ELEVATIONS**

SCALE  
AS NOTED



SHEET NUMBER



RUGBY FIELD & CLUBHOUSE

CHURCHILL MALL

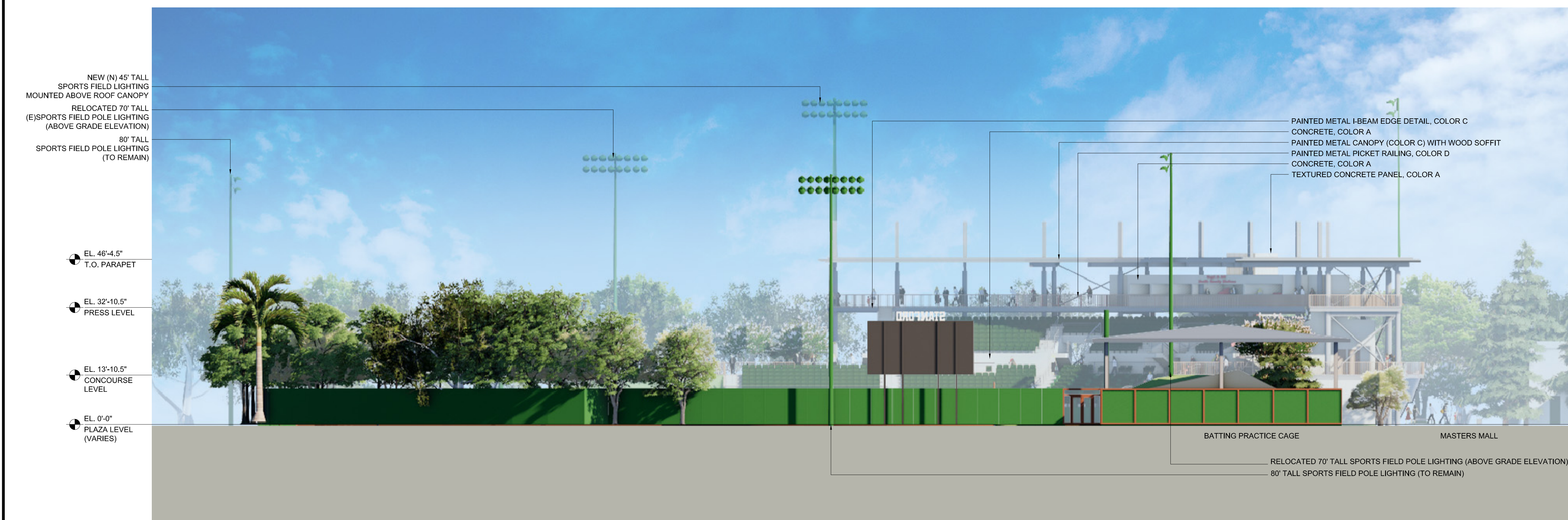
MASTERS GROVE

**1** CONTEXT ELEVATION (RUGBY FIELD)  
 1/16"=1'-0"

**A3-1**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



**2** EAST ELEVATION  
 1/16"=1'-0"

**ELEVATION LEGEND**

- COLOR 'A', LIGHT BEIGE
- COLOR 'B', WARM BROWN
- COLOR 'C', GRAY
- COLOR 'D', BEIGE



**1** NORTH ELEVATION (VIEW FROM MASTERS MALL)  
 1/16"=1'-0"

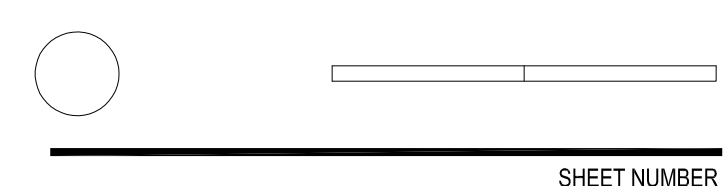
ISSUES AND REVISIONS

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PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM ELEVATIONS**

SCALE  
AS NOTED



SHEET NUMBER

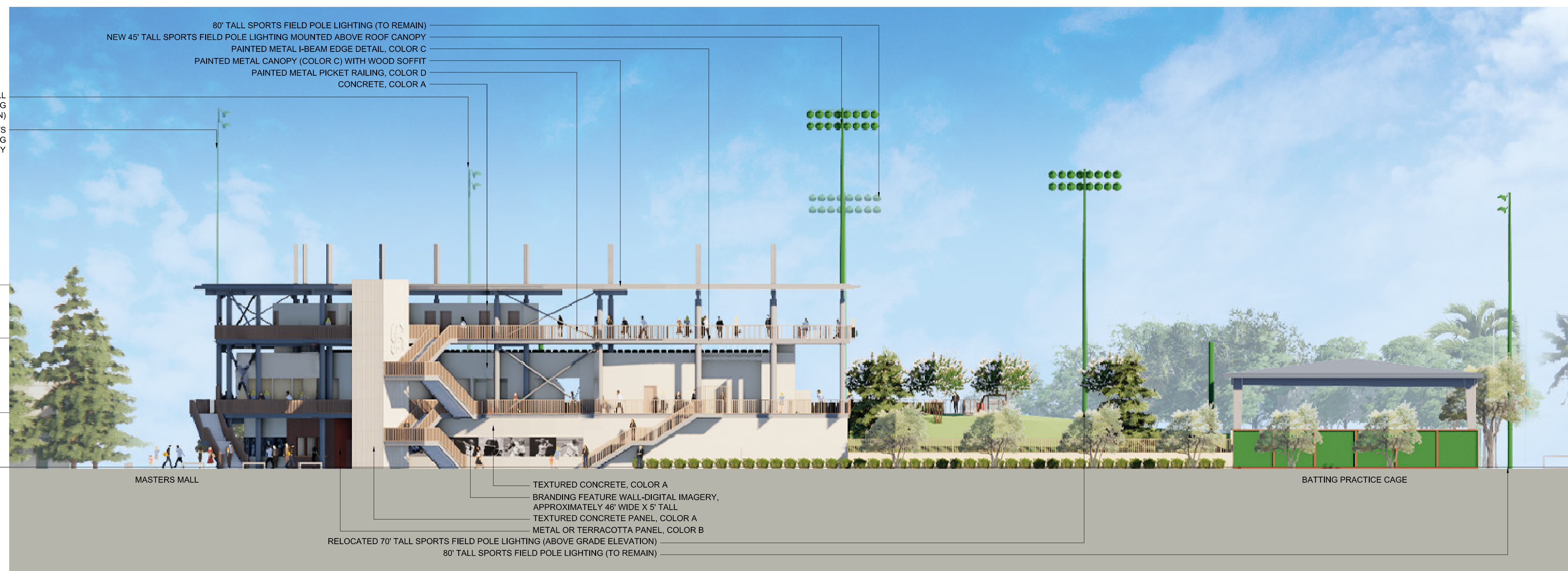
**A3-2**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-375



ARCHITECTS  
 KORTH SUNSERI HAGEY



**2** WEST ELEVATION (VIEW FROM CHURCHILL MALL)  
 1/16"=1'-0"



**1** SOUTH ELEVATION (VIEW FROM FIELD HOCKEY STADIUM)  
 1/16"=1'-0"

ISSUES AND REVISIONS

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 22016

SHEET TITLE  
**SOFTBALL STADIUM  
 ELEVATIONS**

SCALE  
 AS NOTED

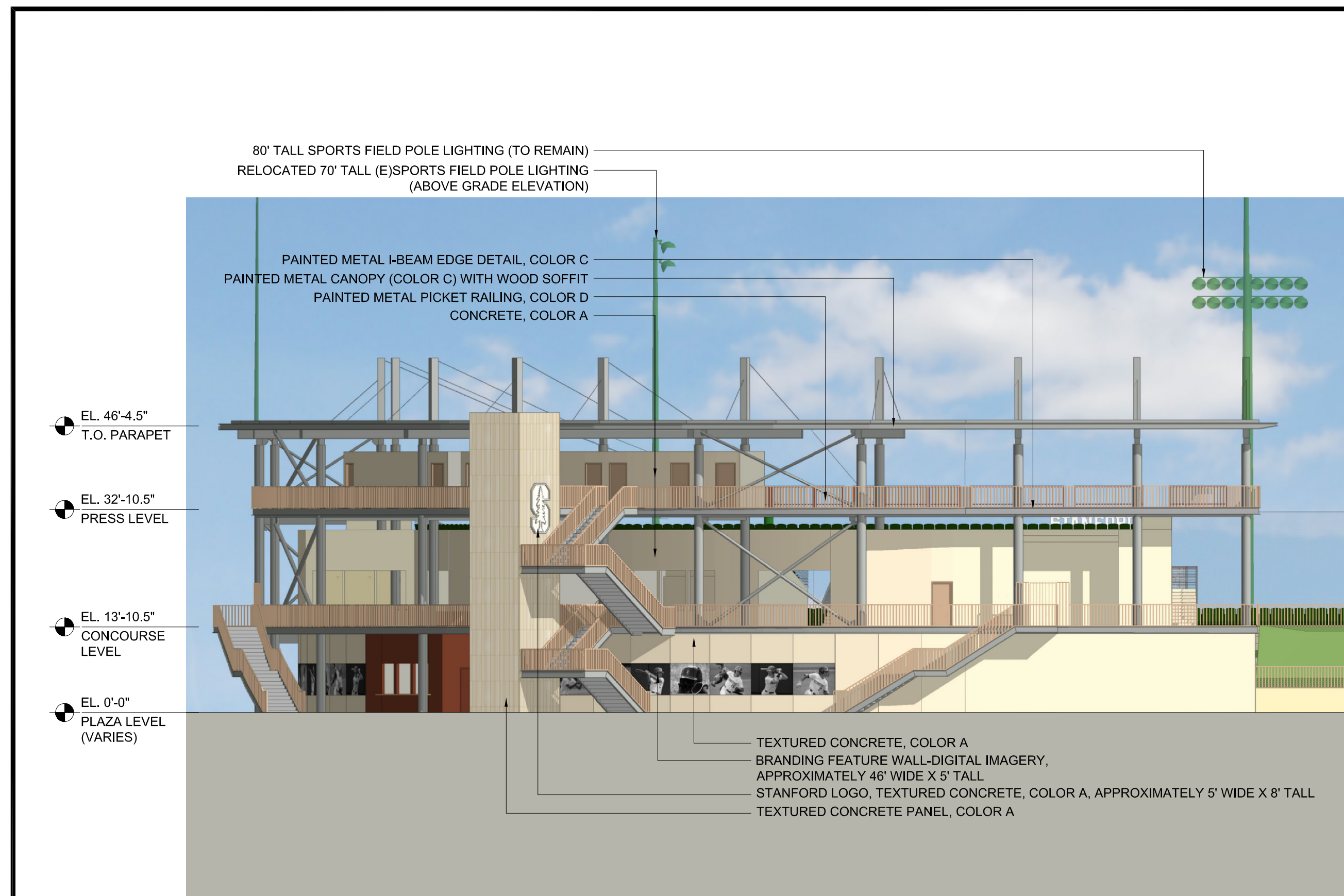


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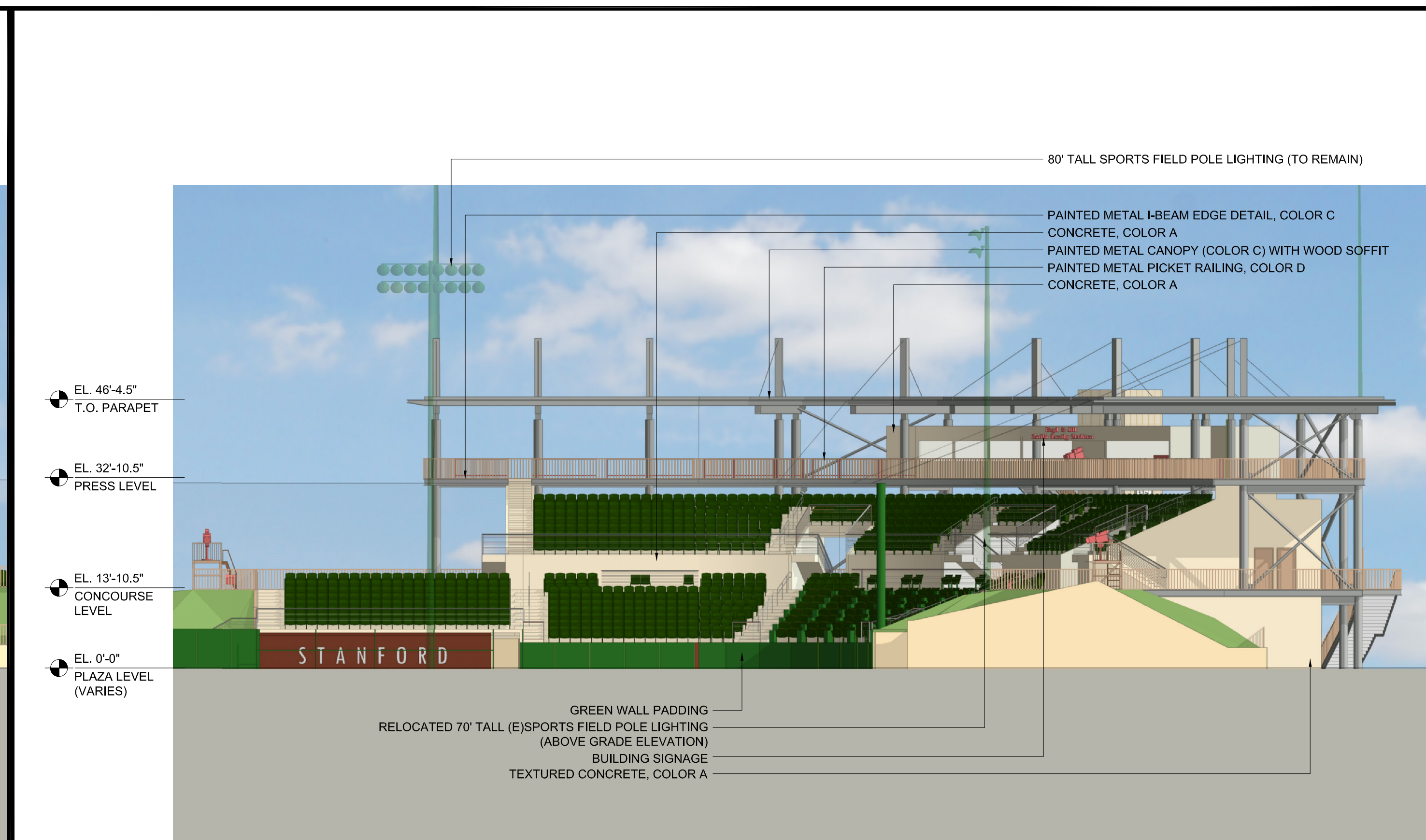
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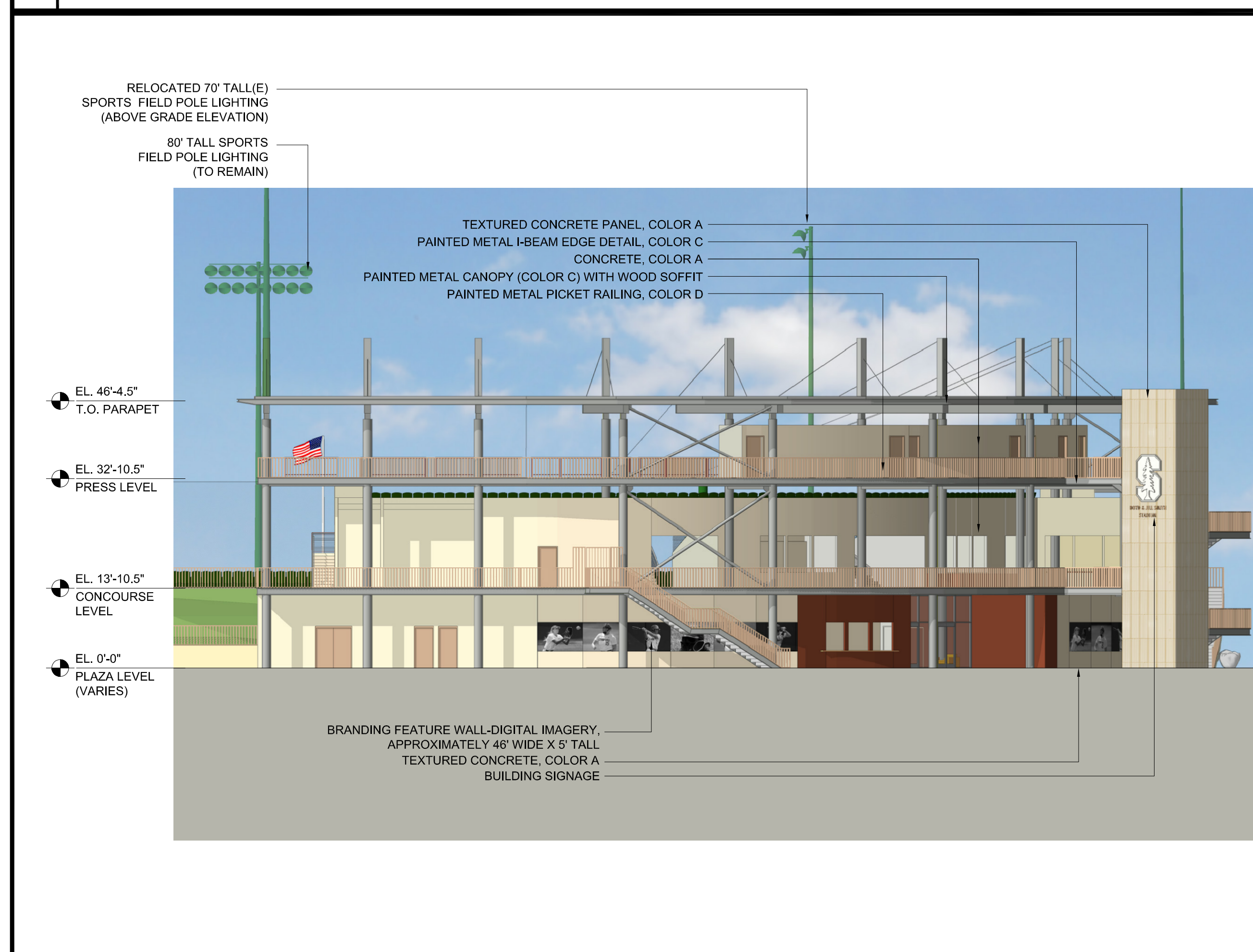
Project Name: Smith Family Softball Stadium  
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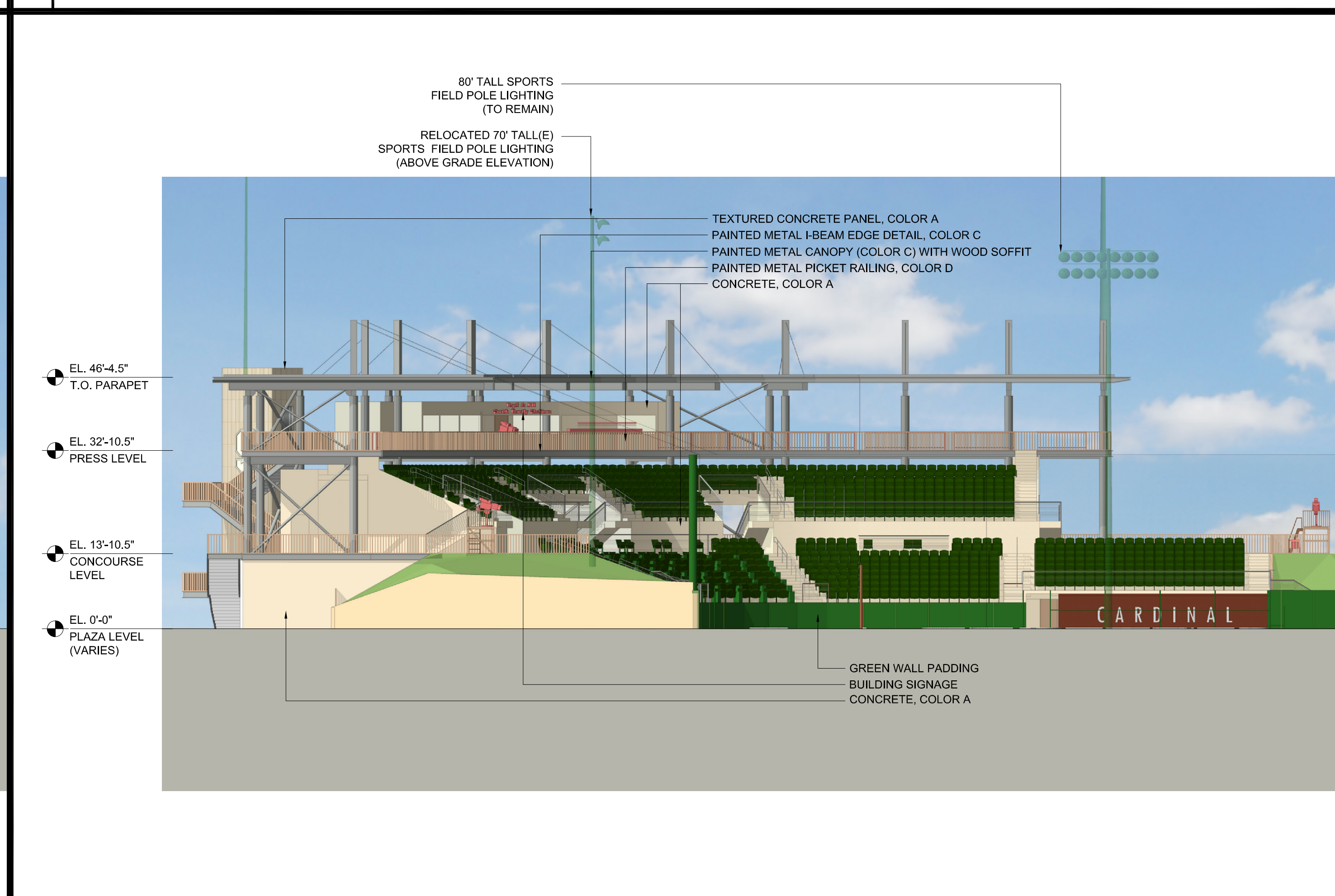
**4** WEST BUILDING ELEVATION  
 1/16"=1'-0"



**2** EAST BUILDING ELEVATION  
 1/16"=1'-0"



**3** NORTH BUILDING ELEVATION  
 1/16"=1'-0"



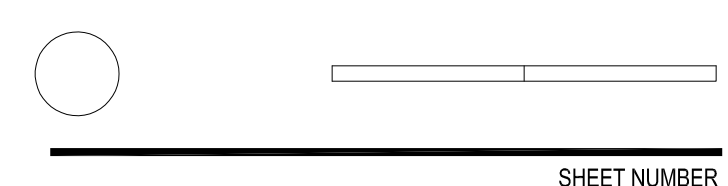
**1** SOUTH BUILDING ELEVATION  
 1/16"=1'-0"

ISSUES AND REVISIONS		
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22016

SHEET TITLE  
**SOFTBALL STADIUM  
BUILDING ELEVATIONS**

SCALE  
AS NOTED



SHEET NUMBER

A3-4



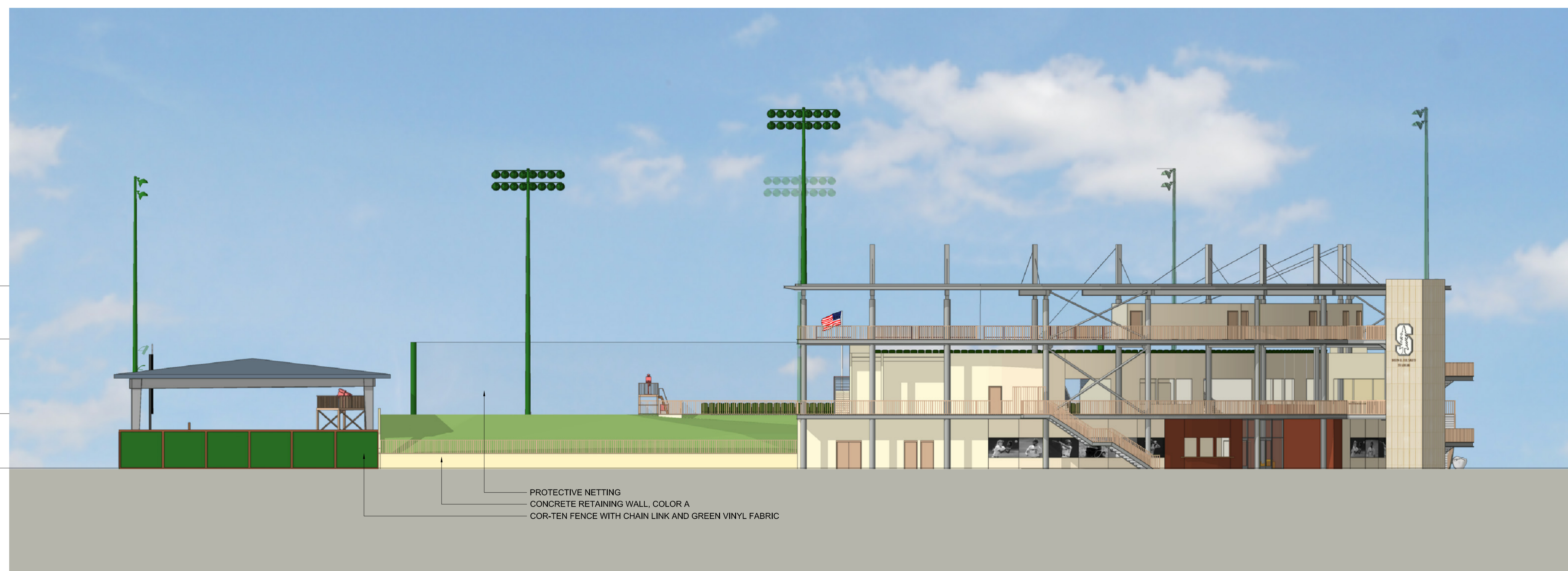
Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



ARCHITECTS  
 KORTH SUNSERI HAGEY



**2** EAST ELEVATION  
 1/16"=1'-0"



**1** NORTH ELEVATION (VIEW FROM MASTERS MALL)  
 1/16"=1'-0"

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
02.03.2023	ASA SET	
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 22016

SHEET TITLE  
**SOFTBALL STADIUM  
 FENCE ELEVATIONS**

SCALE  
 AS NOTED



SHEET NUMBER

**A3-5**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-375



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

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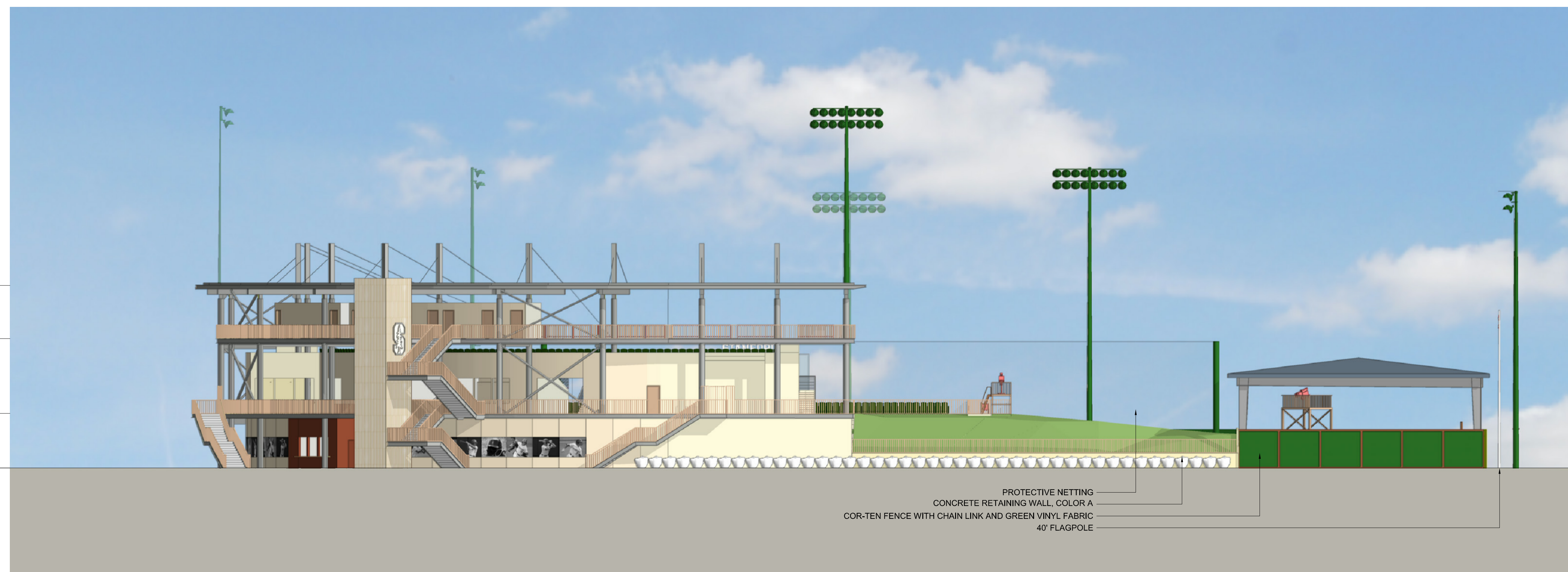
SHEET TITLE  
**SOFTBALL STADIUM  
 FENCE ELEVATIONS**

SCALE  
AS NOTED

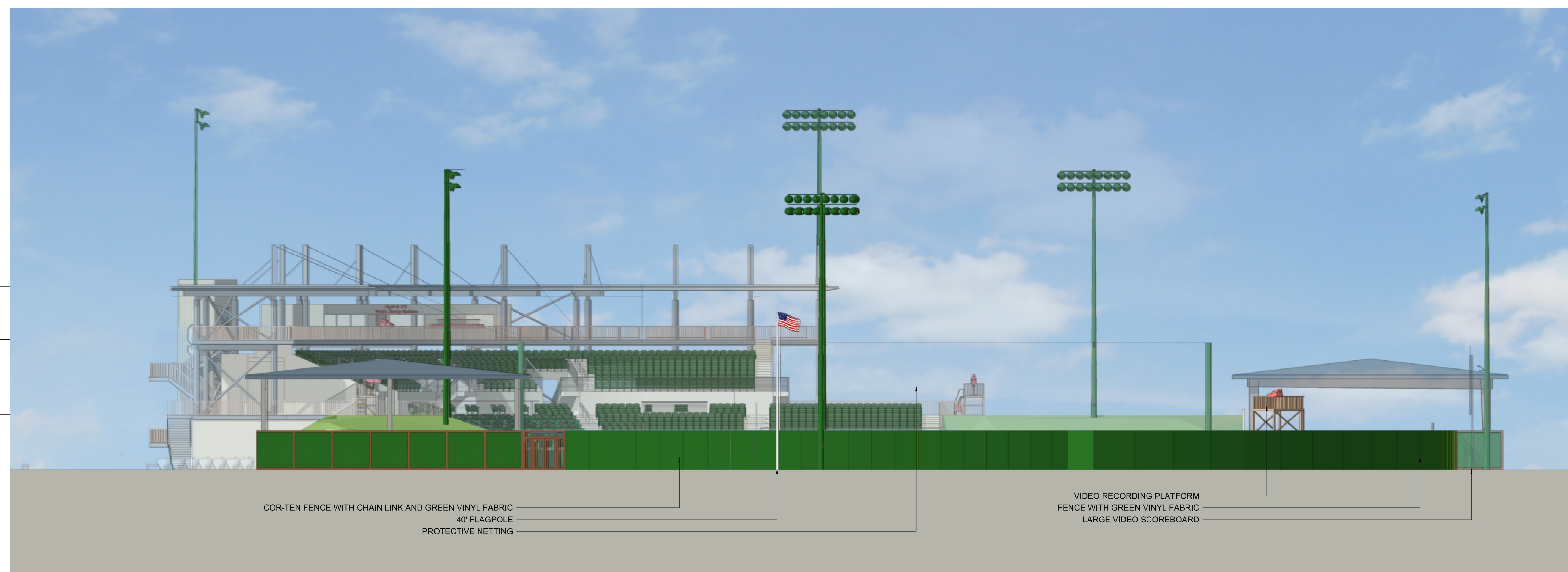


SHEET NUMBER

**A3-6**



**2** WEST ELEVATION (VIEW FROM CHURCHILL MALL)  
 1/16"=1'-0"



**1** SOUTH ELEVATION (VIEW FROM FIELD HOCKEY STADIUM)  
 1/16"=1'-0"





**ARCHITECTS**  
 KORTH SUNSERI HAGEY

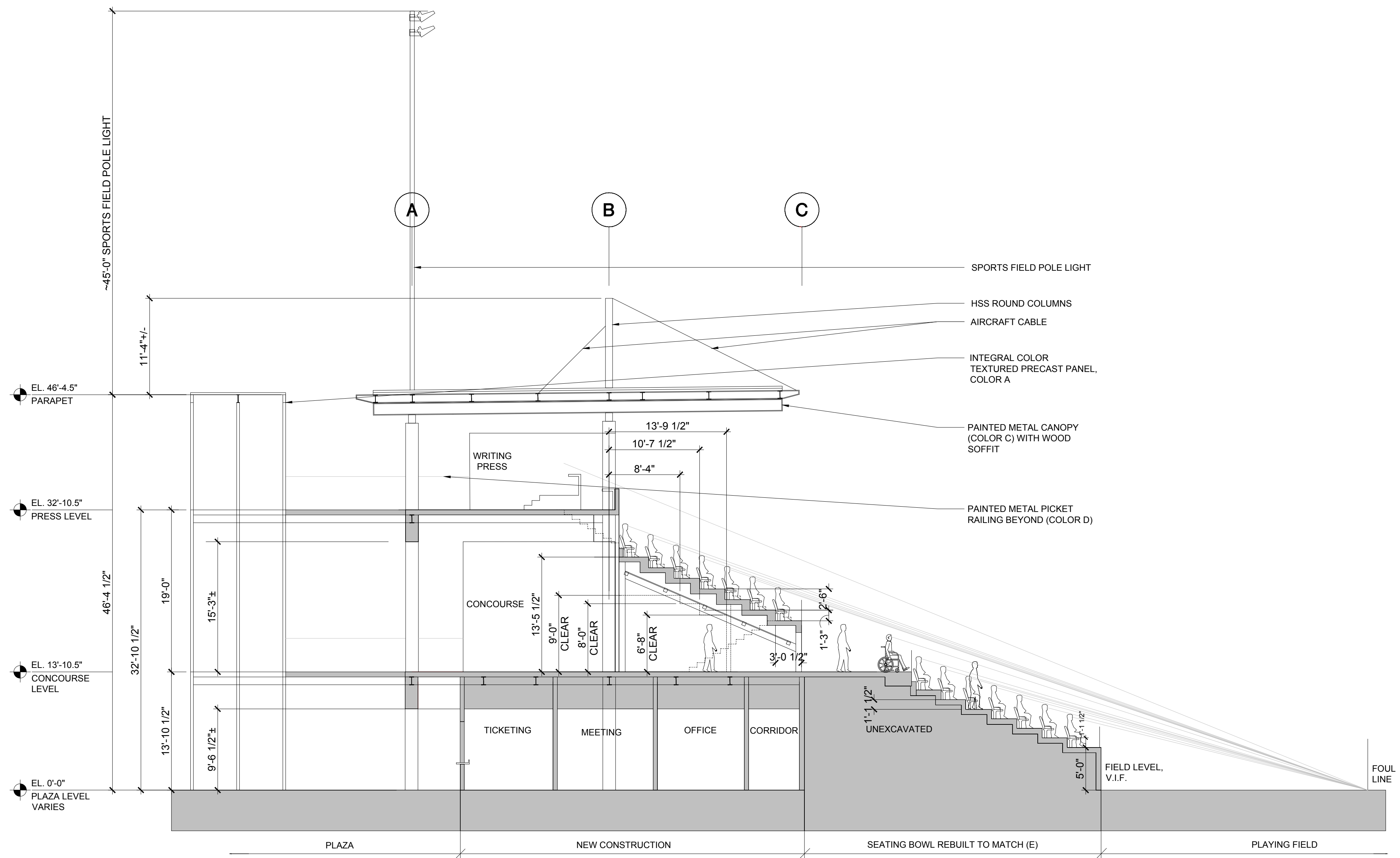
ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM SECTION**

SCALE  
AS NOTED

SHEET NUMBER



**1** SECTION AT SOFTBALL STADIUM  
 1/8"=1'-0"

**A3-7**

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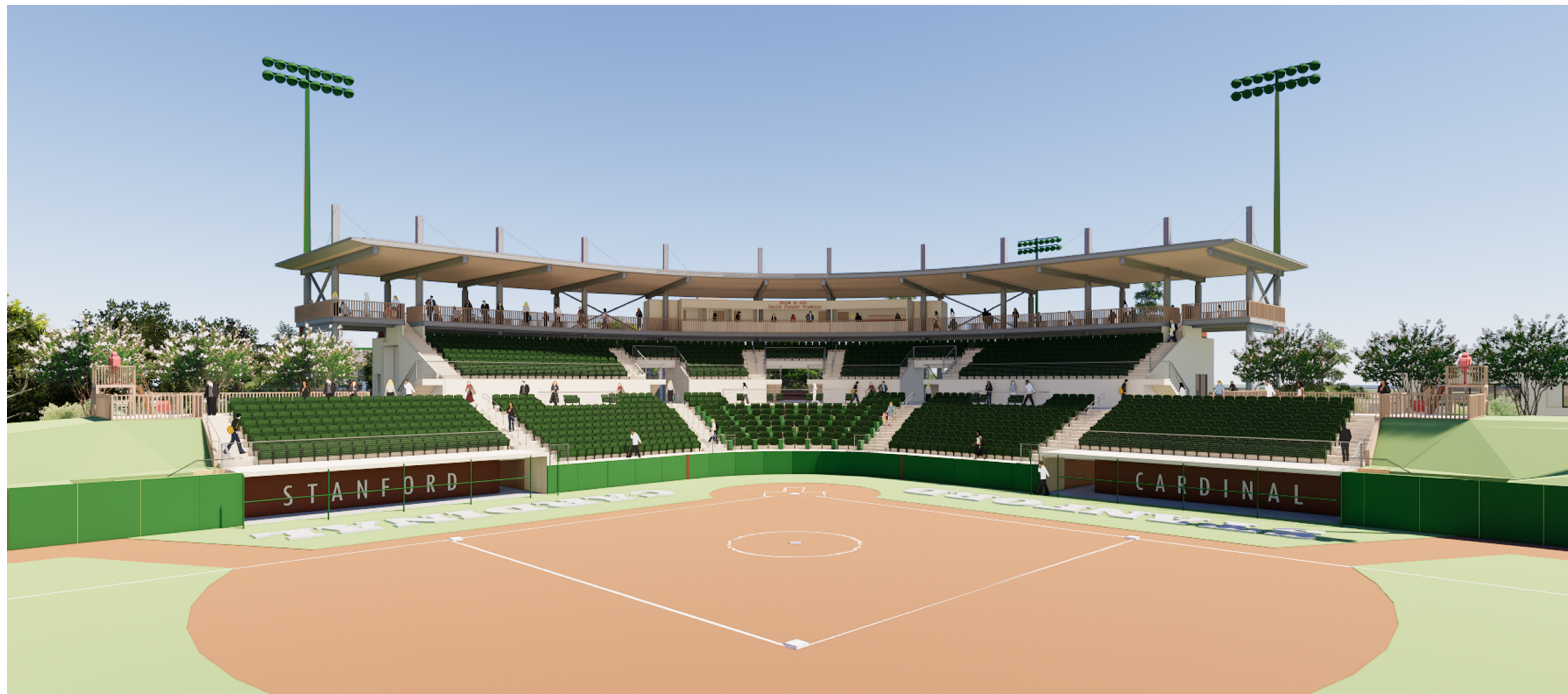


Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



VIEW FROM RUGBY STADIUM

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
02.03.2023	ASA SET	
05.03.2023	ASA RESUBMITTAL #1	

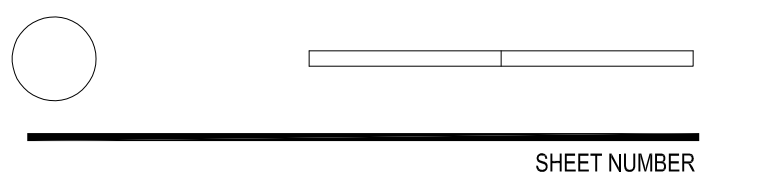


VIEW FROM OUTFIELD

PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM  
RENDERING**

SCALE



SHEET NUMBER

A4-1



Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



VIEW FROM CHURCHILL MALL

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1



VIEW OF OUTFIELD SEATING AREA

PROJECT NUMBER  
22016

SHEET TITLE  
**SOFTBALL STADIUM  
RENDERING**

SCALE



SHEET NUMBER

**A4-2**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



**Stanford Womens Fast Pitch SB**  
 Stanford, CA

NOTES: Camera locations shown are assumed. Actual camera locations will need confirmed.

**Lighting System**

Pole / Fixture Summary							
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit	
A1-A2	45'	45'	1	TLC-LED-1200	1.17 kW	A	
		45'	5	TLC-LED-1500	7.15 kW	A	
B1-B2	70'	70'	8	TLC-LED-1500	11.44 kW	A	
		15'	4	TLC-BT-575	2.30 kW	A	
		55'	2	TLC-RGBW	1.28 kW	B	
C1-C2	80'	80'	5	TLC-LED-1500	7.15 kW	A	
		15'	3	TLC-BT-575	1.73 kW	A	
<b>6</b>			<b>56</b>		<b>64.43 kW</b>		

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Softball	61.87 kW	52
B	Egress	2.56 kW	4

Fixture Type Summary								
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity	
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14	
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	36	
TLC-RGBW	LED 5700K - 75 CRI	640W	28,500	>120,000	>120,000	>120,000	4	
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	2	

Single Luminaire Amperage Draw Chart								
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-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5	
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7	
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	1.9	1.9	
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0	

**Light Level Summary**

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Softball (Infield)	1B Camera	75.7	36	104	2.87	2.10	A	52
Softball (Infield)	3B Camera	77.5	38	104	2.72	2.04	A	52
Softball (Infield)	Homeplate Camera	90.3	62	106	1.71	1.46	A	52
Softball (Infield)	Horizontal Illuminance	103	90	120	1.33	1.14	A	52
Softball (Outfield)	1B Camera	47.7	18	85	4.86	2.65	A	52
Softball (Outfield)	3B Camera	47.6	19	82	4.27	2.51	A	52
Softball (Outfield)	Homeplate Camera	58.4	42	92	2.22	1.39	A	52
Softball (Outfield)	Horizontal Illuminance	76.6	59	94	1.58	1.30	A	52

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE  
SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING EXHIBIT & PHOTOMETRICS

SCALE

SHEET NUMBER



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ENGINEERED DESIGN By: D. Lohman · File #222478B · 24-Apr-23

PROJECT SUMMARY

A5-0



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

**Stanford Womens Fast Pitch SB**  
 Stanford, CA

GRID SUMMARY	
Name:	Softball
Size:	200'/220'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
<b>Guaranteed Average:</b>	<b>100</b>	<b>70</b>
Scan Average:	103.0	76.6
Maximum:	120	94
Minimum:	90	59
Avg / Min:	1.15	1.29
<b>Guaranteed Max / Min:</b>	<b>1.5</b>	<b>2</b>
Max / Min:	1.33	1.58
UG (adjacent pts):	1.13	1.29
CU:	0.50	
No. of Points:	25	82

LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	52
Total Load:	61.87 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.

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

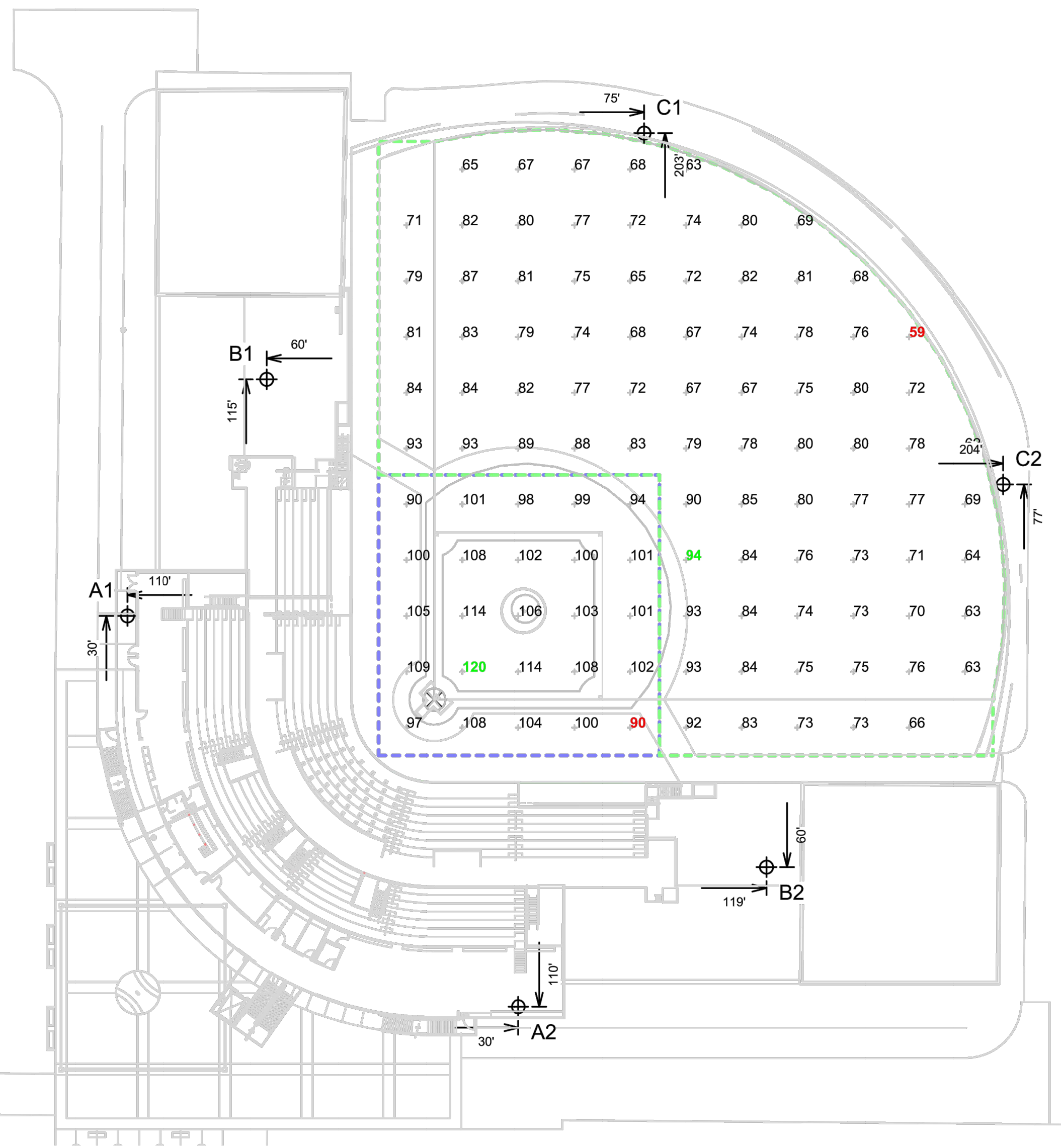
SHEET TITLE  
SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING EXHIBIT & PHOTOMETRICS

SCALE

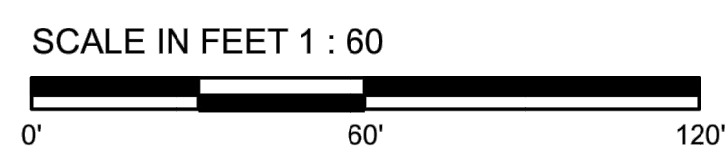
SCALE	
SHEET NUMBER	

A5-1

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	45'	46.4'	91.4'	TLC-LED-1200	1	1	0
				91.4'	TLC-LED-1500	5	5	0
2	B1-B2	70'	6'	21'	TLC-BT-575	4	4	0
				61'	TLC-RGBW	2	0	2
				76'	TLC-LED-1500	8	8	0
2	C1-C2	80'	-	15'	TLC-BT-575	3	3	0
				80'	TLC-LED-1500	5	5	0
6	TOTALS					56	52	4



NOTES: Camera locations shown are assumed.  
 Actual camera locations will need confirmed.



ENGINEERED DESIGN By: D. Lohman · File #222478B · 24-Apr-23

Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗



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**ILLUMINATION SUMMARY**



Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	45'	46.4'	91.4'	TLC-LED-1200	1	1	0	
				91.4'	TLC-LED-1500	5	5	0	
2	B1-B2	70'	6'	21'	TLC-BT-575	4	4	0	
				61'	TLC-RGBW	2	2	0	
				76'	TLC-LED-1500	8	8	0	
2	C1-C2	80'	-	15'	TLC-BT-575	3	3	0	
				80'	TLC-LED-1500	5	5	0	
6	TOTALS					56	56	0	

**Stanford Womens Fast Pitch SB**  
 Stanford, CA

GRID SUMMARY	
Name:	Bleachers All Fixtures
Size:	200'/220'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	16.5' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	37.1
Maximum:	107
Minimum:	2
Avg / Min:	15.04
Max / Min:	43.16
UG (adjacent pts):	0.00
CU:	0.04
No. of Points:	87
LUMINAIRE INFORMATION	
Applied Circuits:	A, B
No. of Luminaires:	56
Total Load:	64.43 kW

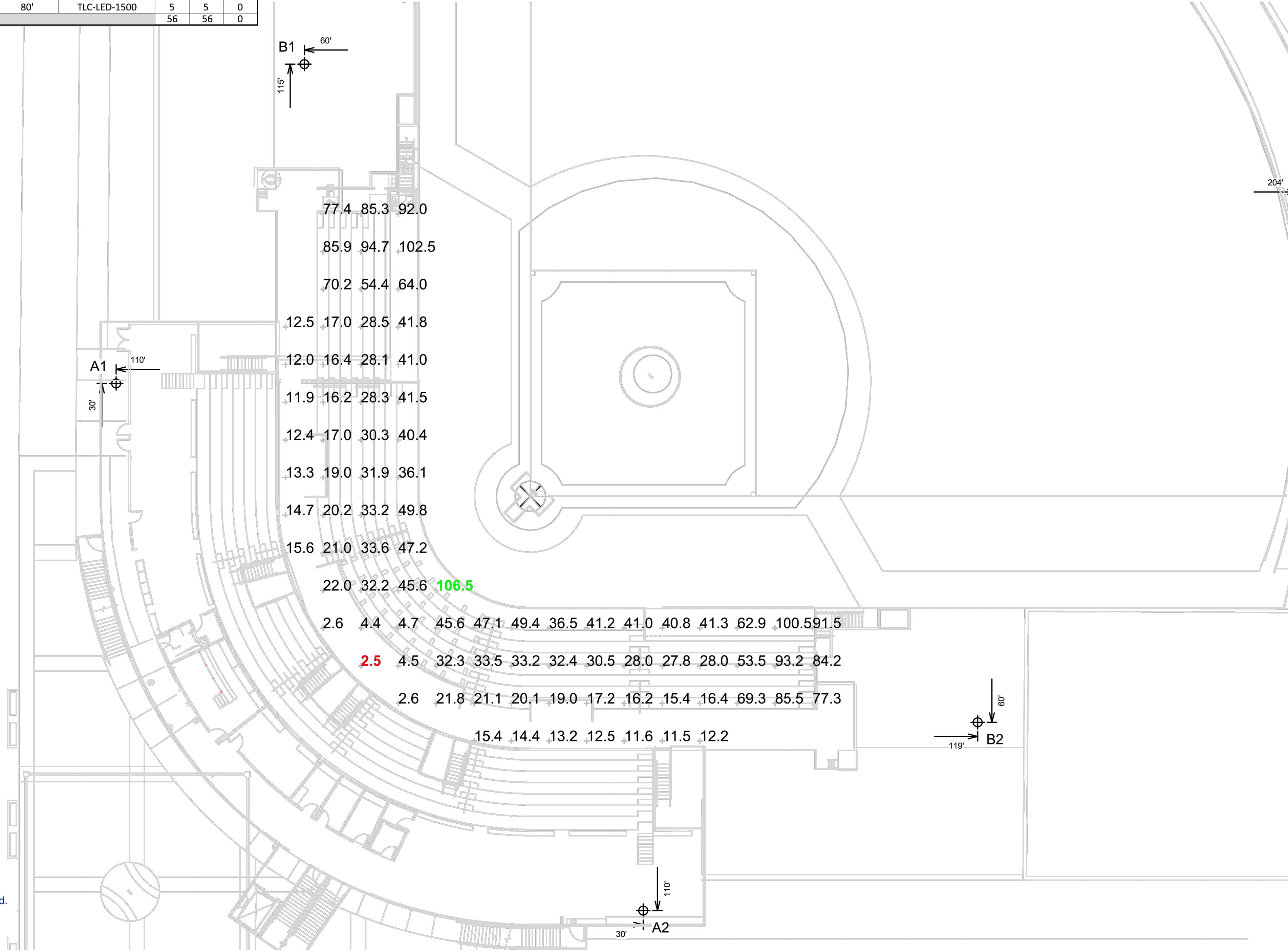
**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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

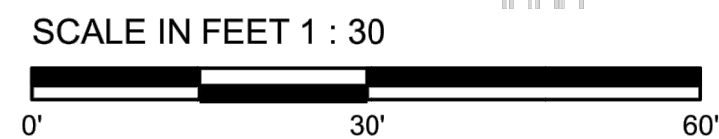
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1



NOTES: Camera locations shown are assumed. Actual camera locations will need confirmed.



Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗



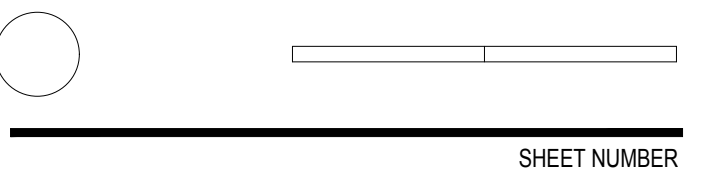
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**ILLUMINATION SUMMARY**

PROJECT NUMBER  
22016

SHEET TITLE  
SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING EXHIBIT & PHOTOMETRICS

SCALE



A5-2

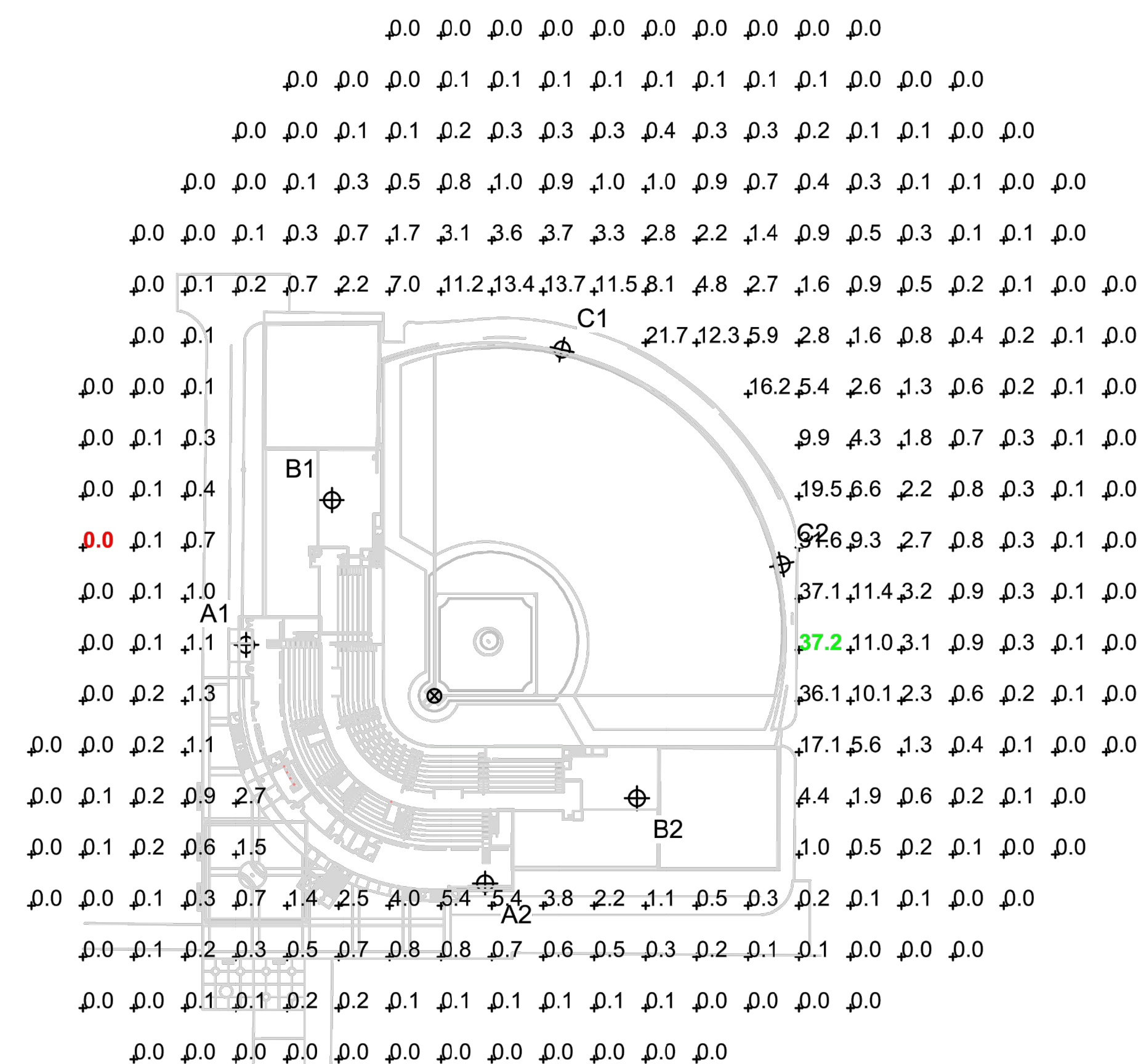


Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



ARCHITECTS  
 KORTH SUNSERI HAGEY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	45'	46.4'	91.4'	TLC-LED-1200	1	1	0	
				91.4'	TLC-LED-1500	5	5	0	
2	B1-B2	70'	6'	21'	TLC-BT-575	4	4	0	
				61'	TLC-RGBW	2	2	0	
				76'	TLC-LED-1500	8	8	0	
2	C1-C2	80'	-	15'	TLC-BT-575	3	3	0	
				80'	TLC-LED-1500	5	5	0	
6	TOTALS					56	56	0	



**Stanford Womens Fast Pitch SB**  
 Stanford, CA

GRID SUMMARY	
Name:	Horizontal Blanket Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	1.9
Maximum:	37
Minimum:	0
Avg / Min:	335.35
Max / Min:	6726.89
UG (adjacent pts):	13.44
CU:	0.07
No. of Points:	279
LUMINAIRE INFORMATION	
Applied Circuits:	A, B
No. of Luminaires:	56
Total Load:	64.43 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.

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE  
SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING EXHIBIT & PHOTOMETRICS

SCALE

SCALE	
0'	240'

SHEET NUMBER

NOTES: Camera locations shown are assumed.  
 Actual camera locations will need confirmed.



ENGINEERED DESIGN By: D. Lohman · File #222478B · 24-Apr-23

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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**ILLUMINATION SUMMARY**

A5-3



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

**Driver Data**

**Electrical Data**

Rated wattage <sup>1</sup>	1410 W
Per driver	1410 W
Per luminaire	1410 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	10 – 100%
Range, light output	15 – 100%
Flicker	<2%
Total harmonic distortion (THD) at full output	<20% (pending)

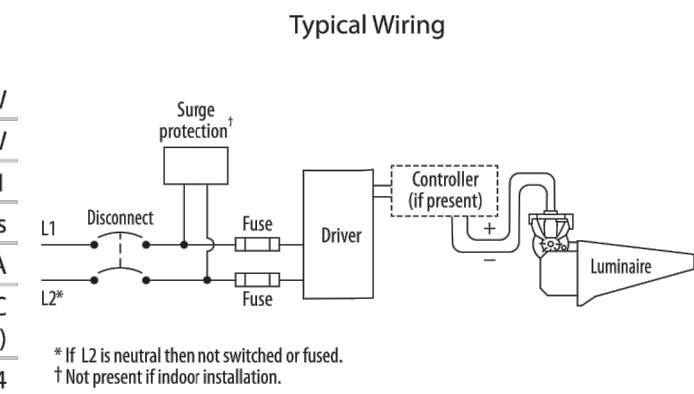
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Max operating current per luminaire <sup>2</sup>	8.71 A	8.37 A	7.92 A	7.57 A	7.26 A	6.29 A	5.02 A	4.59 A	4.36 A	4.20 A	3.63 A

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

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



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

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

**Luminaire Data**

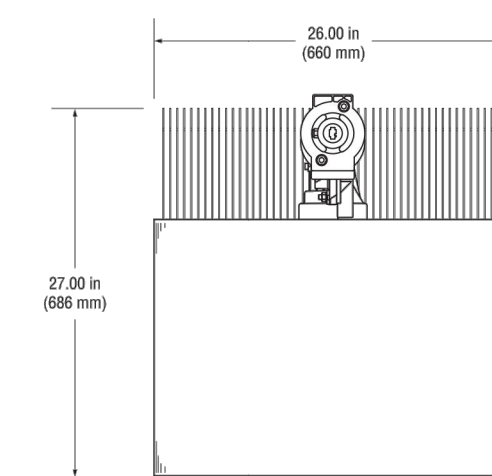
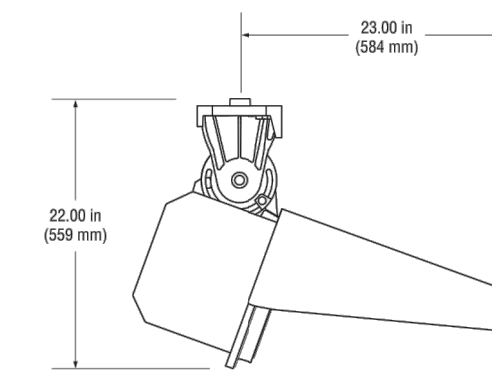
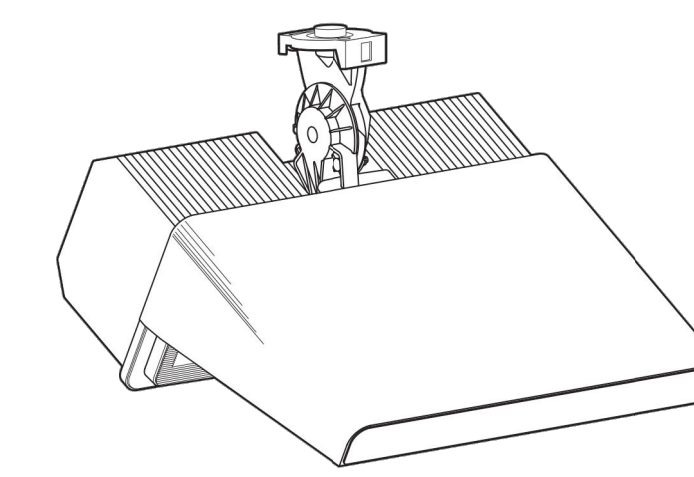
Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094 (pending)
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0 (pending)
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F) (pending)

**Photometric Characteristics**

Projected lumen maintenance per IES 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.



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1

Datasheet: **Light-Structure System™**

**Luminaire and Driver – TLC-BT-575**

**Driver Data**

Rated wattage <sup>1</sup>	575 W
Per driver	575 W
Per luminaire	575 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)
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Total harmonic distortion (THD) at full output	<20%

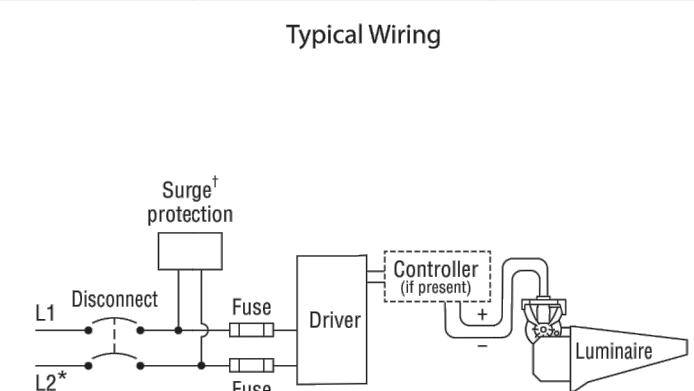
	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire <sup>2</sup>	3.48 A	3.35 A	3.16 A	3.03 A	2.90 A	2.51 A	2.01 A	1.83 A	1.74 A	1.68 A	1.45 A

Footnotes:

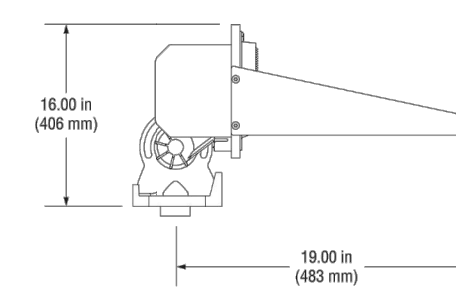
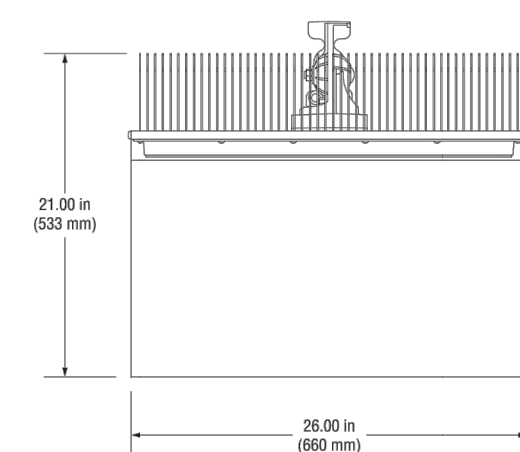
- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

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



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



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2

Datasheet: **Light-Structure System™**

**Luminaire and Driver – TLC-BT-575**

**Luminaire Data**

Weight (luminaire)	34 lb (15 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
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)

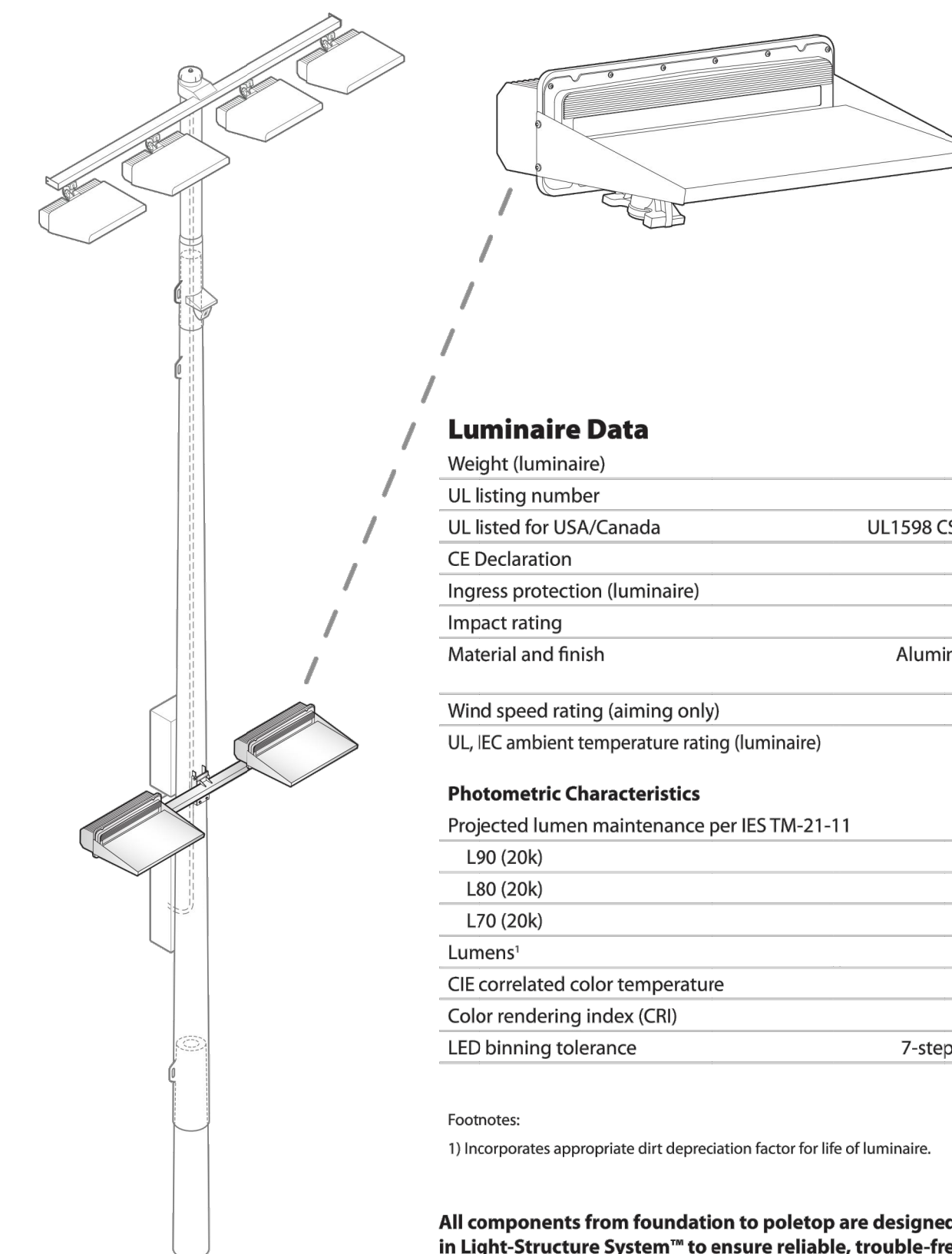
**Photometric Characteristics**

Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	52,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:

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

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.



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1

STANFORD UNIVERSITY

Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



ARCHITECTS  
KORTH SUNSERI HAGEY

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
02.03.2023	ASA SET	
05.03.2023	ASA RESUBMITTAL #1	

PROJECT NUMBER  
22016

SHEET TITLE

SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING CUTSHEETS

SCALE

SHEET NUMBER

A5-4





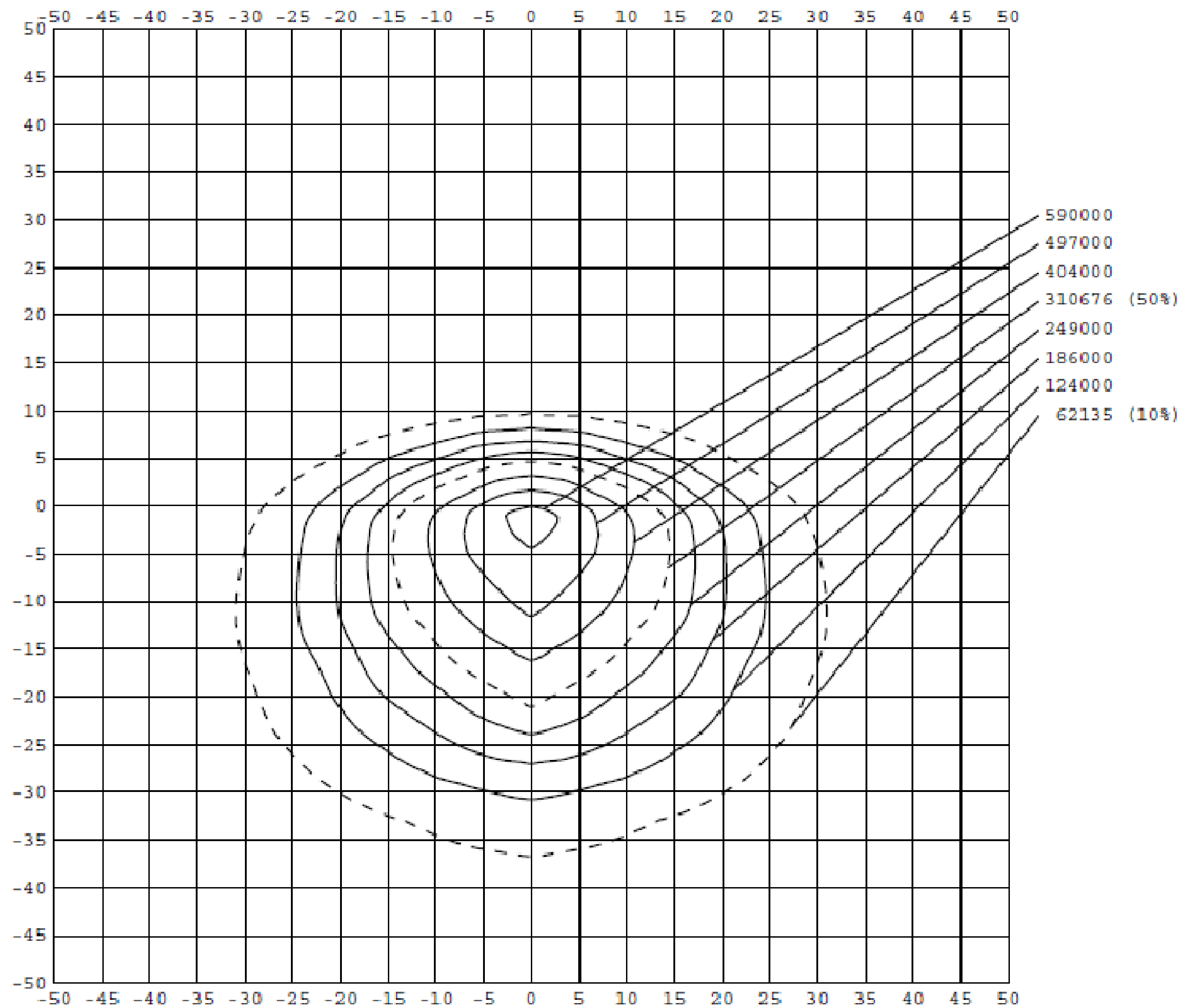
Musco Lighting Photometry Laboratory  
Oskaloosa, Iowa



NVLAP Lab Code 200702-0  
PAGE: 11 OF 11

REPORT NUMBER: MPL03031  
ISSUE DATE: 07/06/21  
CATALOG NUMBER: L352N\_4WYX\_ANBCB\_30

ISOCANDELA CURVES



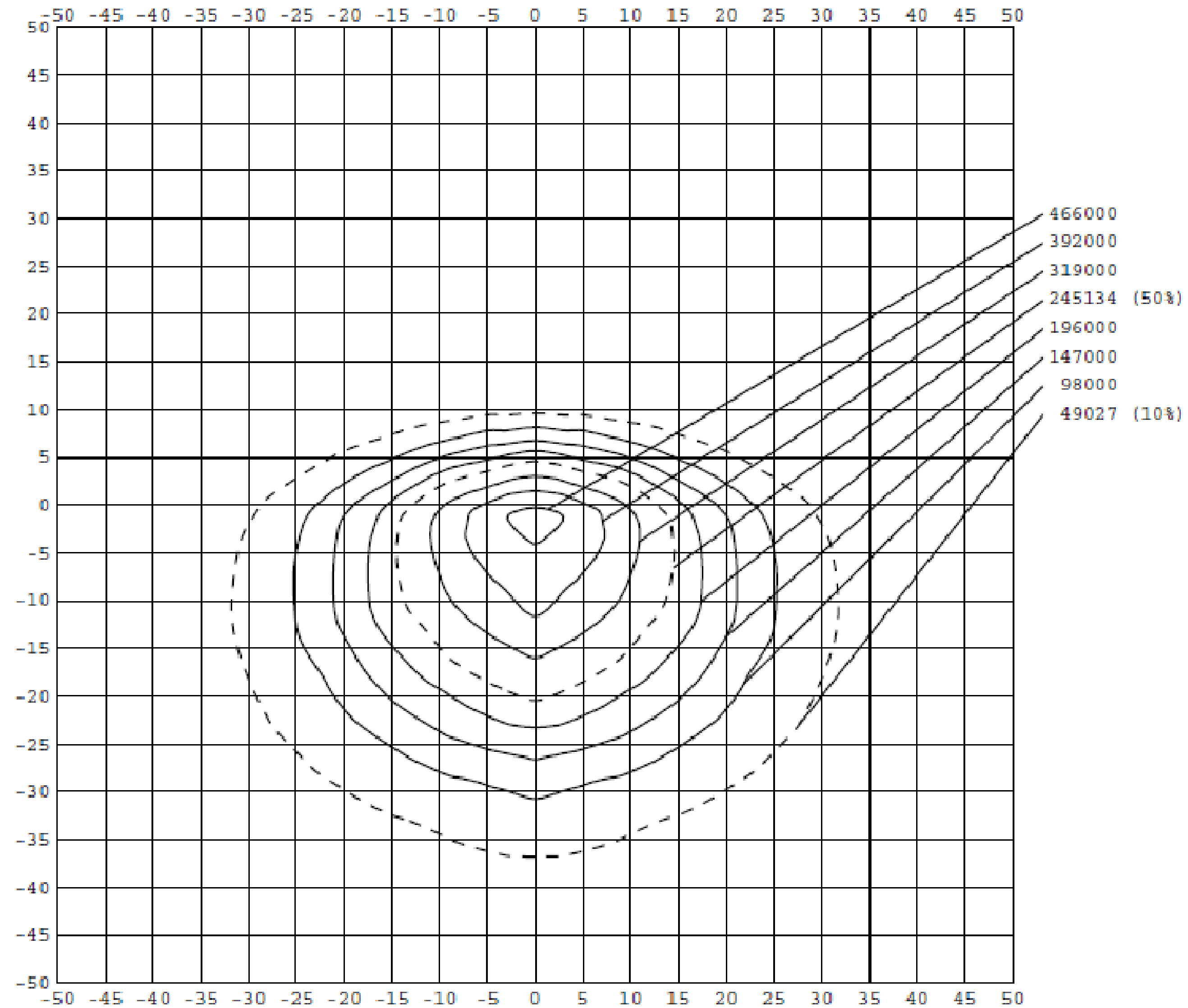
Musco Lighting Photometry Laboratory  
Oskaloosa, Iowa



NVLAP Lab Code 200702-0  
PAGE: 11 OF 11

REPORT NUMBER: MPL02950  
ISSUE DATE: 02/03/21  
CATALOG NUMBER: L352X\_4WYX\_BAJCB\_30

ISOCANDELA CURVES



Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA, 94305  
Quad/ Bldg. Number: 09-375



ARCHITECTS  
KORTH SUNSERI HAGEY

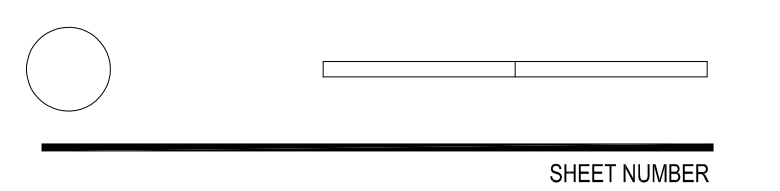
ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	02.03.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

SOFTBALL STADIUM SPORTS FIELD  
POLE LIGHTING BEAM PATTERN DIAGRAMS

SCALE



SHEET NUMBER

1 | TLC-LED-1500 FIXTURE

2 | TCL-LED-1200 FIXTURE

A5-5



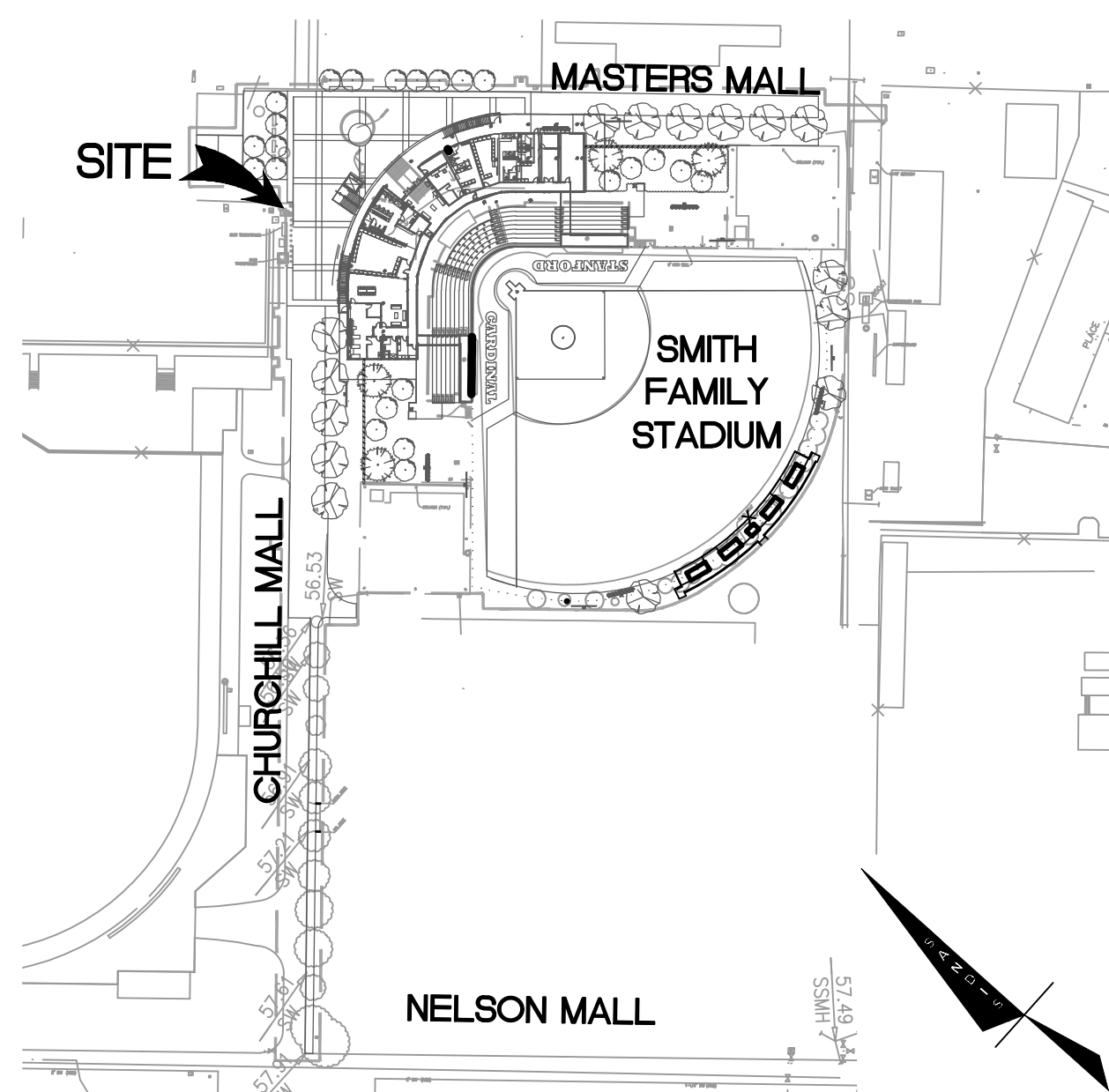
**ABBREVIATIONS**

AB	-	AGGREGATE BASE
AC	-	ASPHALTIC CONCRETE
AD	-	AREA DRAIN
APT	-	ANGLE POINT
AS	-	AGGREGATE SUBBASE
BC	-	BEGINNING OF CURVE
BFP	-	BACK FLOW PREVENTOR
BOW	-	BOTTOM OF WALL
BVC	-	BEGIN VERTICAL CURVE
BW	-	BACK OF WALK
C	-	CONCRETE
COL	-	COLUMN
CY	-	CURB YARD
CB	-	CATCH BASIN
C&G	-	CURB AND GUTTER
CI	-	CURB INLET
CIP	-	CAST IRON PIPE
CL	-	CENTER LINE OR CLASS
CLF	-	CHAIN LINK FENCE
CO	-	CLEANOUT
CMP	-	CORRUGATED METAL PIPE
CONC	-	CONCRETE
CONST	-	CONSTRUCTION OR CONSTRUCT
CFAU	-	CITY OF PALO ALTO UTILITIES
D	-	DOOR
DI	-	DROP INLET
DIP	-	DUCTILE IRON PIPE
DOM	-	DOMESTIC
DW	-	DOMESTIC WATER
DWG	-	DRAWING
E	-	EAST
EC	-	END OF CURVE
EP	-	EDGE OF PAVEMENT
ER	-	END OF RETURN
EVC	-	END VERTICAL CURVE
ELEV	-	ELEVATION
EX-EXIST	-	EXISTING
FDC	-	FIRE DEPARTMENT CONNECTION
FC	-	FACE OF CURB
FF	-	FINISHED FLOOR
FG	-	FINISHED GRADE
FH	-	FIRE HYDRANT
FL	-	FLOW LINE
FOUND	-	FOUNDATION
FS	-	FINISHED SURFACE
FT	-	FOOT
FW	-	FIRE WATER
GB	-	GRADE BREAK
GV	-	GATE VALVE
HC	-	HANDICAP
HP	-	HIGH POINT
INV	-	INVERT ELEVATION
JP	-	JOINT POLE
MAX	-	MAXIMUM
MIN	-	MINIMUM
MPVC	-	MIDPOINT OF VERTICAL CURVE
MH	-	MANHOLE
N	-	NORTH
NO	-	NUMBER
OH	-	OVERHANG
OHE	-	OVERHEAD ELECTRIC
NTS	-	NOT TO SCALE
P	-	PAVEMENT ELEVATION
PCC	-	PORTLAND CEMENT CONCRETE
PIV	-	POST INDICATOR VALVE
PL	-	PROPERTY LINE
PMH	-	POWER MANHOLE
PP	-	POWER POLE
PVC	-	POLYVINYL CHLORIDE PIPE
R	-	RADIUS
RC	-	RELATIVE COMPACTION
RCP	-	REINFORCED CONCRETE PIPE
R/W	-	RIGHT OF WAY
SW	-	SIDEWALK
S	-	SLOPE OR SOUTH
SB	-	SEDIMENT BASIN
SD	-	STORM DRAIN
SDDI	-	STORM DRAIN DROP INLET
SF	-	SILT FENCE
S.L.D.	-	SEE LANDSCAPE DRAWINGS
SMH	-	SIGNAL MANHOLE
SS	-	SANITARY SEWER
STA	-	STATION
STD	-	STANDARD
SU	-	STANFORD UNIVERSITY
TYP	-	TYPICAL
TC	-	TOP OF CURB
TS	-	TOP OF SLAB
TOW	-	TOP OF WALL
U/G	-	UNDERGROUND
UON	-	UNLESS OTHERWISE NOTED
VC	-	VERTICAL CURVE
W	-	WEST
WELL T	-	TREE WELL
WGW	-	WATER, GAS, WASTEWATER
WM	-	WATER METER
WV	-	WATER VALVE
WWF	-	WELDED WIRE FABRIC
W/	-	WITH

# STANFORD UNIVERSITY SMITH FAMILY SOFTBALL STADIUM STANFORD CALIFORNIA



VICINITY MAP  
NOT TO SCALE



SITE 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 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.
- 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.
- CONTRACTOR SHALL MAINTAIN THE EXISTING SITE LIGHTING SYSTEM UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH THE OWNER'S REPRESENTATIVE.
- ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED CAREFULLY, CLEANED AND DELIVERED TO THE OWNER. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

**SCOPE OF WORK**

DEMOLITION OF EXISTING SOFTBALL PRESS BOX AND CONSTRUCTION OF NEW SOFTBALL STADIUM WITH ASSOCIATED SITE IMPROVEMENTS. THE STADIUM PROVIDES 1,300 PROPOSED FIXED SEATING AND THE OUTFIELD PROVIDES INFORMAL SEATING CAPACITY FOR 35 SEATED AND 30 STANDING.

**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.

**FLOODZONE**

SITE IS LOCATED WITHIN ZONE D BASED ON FIRM MAP PANEL NUMBER 06085 C00164, DATED MAY 18 2008. 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.

**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 \_\_\_\_\_

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ R.C.E. NO. \_\_\_\_\_  
EXPIRATION DATE \_\_\_\_\_

**COUNTY ENGINEER'S NOTE**

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.

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ R.C.E. NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

COUNTY OF SANTA CLARA  
LAND DEVELOPMENT ENGINEERING & SURVEYING  
CONSTRUCTION PERMIT NO. \_\_\_\_\_  
GRADING PERMIT NO. \_\_\_\_\_  
ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**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 BY THE PREPARER OF THE PLANS.

**LEGEND**

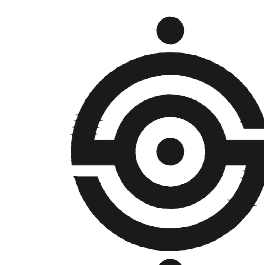
EXISTING	PROPOSED
SAWCUT AND CONFORM LINE	---
RETAINING WALL	=====
A.C. PAVEMENT	=====
CONC. VALLEY GUTTER	=====
CONC. SIDEWALK OR PAD	=====
6" CURB & GUTTER	=====
EDGE OF A.C. PAVEMENT	EP
6" VERTICAL CURB	=====
CENTER LINE	-----
SANITARY SEWER MAIN	8" SS
STORM DRAIN MAIN	12" SD
PERFORATED PIPE	6" SD
WATER MAIN	6" W
FIRE WATER MAIN	6" FW
DOMESTIC WATER MAIN	6" DW
CHILLED WATER MAIN	6" CHW
IRRIGATION LINE	2" IRR
HOT WATER SUPPLY & RETURN	HWS-HWR
STEAM LINE	ST
TRENCH DRAIN	=====
CONDENSATE RETURN	CR
FLOW LINE	-----
CHAIN LINK FENCE	x x x x
GAS MAIN	G
ELECTRIC AND SIGNAL DUCT BANK	E
OVERHEAD ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC LINE	UGE
STREET LIGHT CONDUIT	SL
CONTOUR ELEVATION LINE	85
SPOT ELEVATION	x 95.94
DIRECTION OF SLOPE	2:1 1%
GAS METER	GM
GAS VALVE	GV
WATER METER	WM
WATER VALVE	WV
FIRE HYDRANT	FH
BACK FLOW PREVENTOR	BFP
POST INDICATOR VALVE	PIV
FIRE DEPARTMENT CONNECTION	FDC
WATER LINE TEE	WT
CAP AND PLUG END	CP
AIR RELEASE VALVE	ARV
SIGN	S
ACCESSIBLE RAMP	AR
CONCRETE THRUST BLOCK	CTB
REDUCER	R
SANITARY SEWER MANHOLE	SSMH
SANITARY SEWER CLEANOUT	SSCO
STORM DRAIN MANHOLE	SDMH
STORM DRAIN AREA DRAIN	SDAD
STORM DRAIN CATCH BASIN	SDCB
STORM DRAIN CURB INLET	SDCI
STORM DRAIN CLEANOUT	SDCO
ELECTROLIER	EL
JOINT POLE	JP
OVERLAND RELEASE	OR
CONSTRUCTION DETAIL REFERENCE	CS.2
DETAIL REFERENCE SHEET REFERENCE	15 CS.2



**C-1.0**

**STANFORD UNIVERSITY**

Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
12.05.22		ASA SET
05.03.23		ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE  
**COUNTY COVER SHEET**

SCALE  
N.T.S.

SHEET NUMBER



**COUNTY OF SANTA CLARA  
GENERAL CONSTRUCTION SPECIFICATIONS**

**GENERAL CONDITIONS**

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY CORNERSTONE EARTH GROUP, DATED JULY 2, 2014. 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 CORNER 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 86-18).

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.
- I. 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. ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT EQUIPMENT AND EMISSIONS CONTROL. "CLEAN FUEL" WHERE FEASIBLE USE TECHNOLOGY (E.G. ONS 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 ARCHAEOLOGICAL 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 ARCHAEOLOGICAL 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 DELAY.

16. IN THE EVENT THAT HUMAN SKELETAL REMAINS ARE ENCOUNTERED, THE APPLICANT IS REQUIRED BY COUNTY ORDINANCE NO. 86-18 TO IMMEDIATELY NOTIFY THE COUNTY CORNER UPON DETERMINATION BY THE COUNTY CORNER THAT THE REMAINS ARE NATIVE AMERICAN. THE CORNER 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.

21. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLIOT DISCHARGES ON A YEAR ROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES AND A STOPPAGE OF WORK.

22. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLANS. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ANY ILLIOT DISCHARGES FROM THE SITE DURING CONSTRUCTION.

23. THE CONSTRUCTION INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND AN UPDATED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON THE SITE.

24. GRADING WORK BETWEEN OCTOBER 15 AND APRIL 15 IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.

**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 CURB.

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.

4. 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 FORM.

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 90% 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.

**GRADING**

1. 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 KEVED 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	6,370 CUBIC YARDS CUT
NET		124 CUBIC YARDS FILL
		6,246 CUBIC YARDS EXPORT

MAXIMUM DEPTH OF CUT 16.9 FEET  
FILL 2.7 FEET

6. EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE (EG, OUTSIDE OF THE COUNTY, TO A LANDFILL OR OTHER APPROVED DISPOSAL SITE OR TO A PERMITTED SITE REQUIRING FILL).

7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.

8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.

9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%

10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.

11. 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 SDB.

13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATORS 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 RESEDED 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 YEAR.

**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.

**RETAINING WALLS**

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 OULET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.

4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL 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**

5. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF SANITARY SEWER WORK 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" (8 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 BOND.

**CONSTRUCTION / ENCROACHMENT / GRADING PERMIT**

PERMIT(S) NO.: \_\_\_\_\_

FILE(S) NO.: \_\_\_\_\_

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

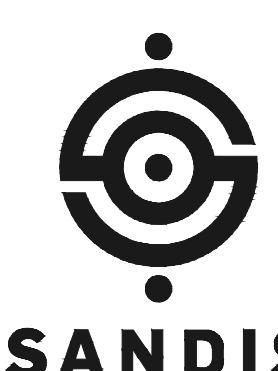
LAND DEVELOPMENT ENGINEERING & SURVEYING DEVELOPMENT SERVICES OFFICE COUNTY OF SANTA CLARA

**GENERAL NOTES**

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

**STANFORD UNIVERSITY**

Project Name: Smith Family Softball Stadium  
Project Address: 161 Churchill Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-375



NO.	DATE	DESCRIPTION
	12.05.22	ASA SET
	05.03.23	ASA RESUBMITTAL #1

**ISSUES AND REVISIONS**

PROJECT NUMBER 22016

SHEET TITLE

**COUNTY CONSTRUCTION NOTES**

SCALE

N.T.S

SHEET NUMBER

**C-1.1**



## 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, 2022:

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 – 2013 EDITION

NFPA 14 – STANDPIPES AND HOSE SYSTEMS – 2013 EDITION

NFPA 17A – WET CHEMICAL EXTINGUISHING SYSTEMS – 2013 EDITION

NFPA 24 – PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES – 2013 EDITION

NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE – 2013 EDITION

NFPA 253 – CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE – 2013 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 BE 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 1/8 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

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ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	12.05.22	ASA SET
	05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

FIRE SAFETY  
NOTES

SCALE

N.T.S

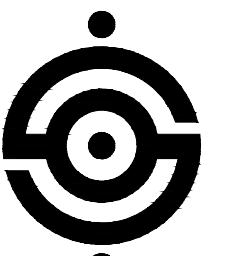
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C-1.2









SANDIS

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	12.05.22	ASA SET
	05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

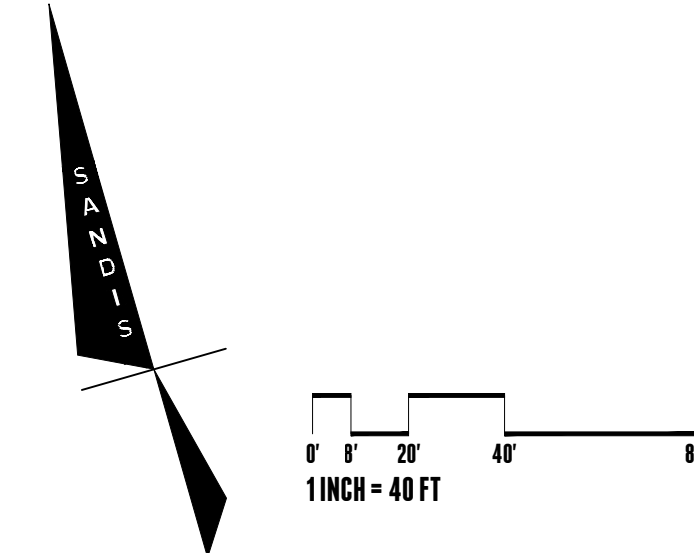
DEMOLITION/TREE REMOVAL  
PLAN

SCALE

AS NOTED

SHEET NUMBER

C-3.0



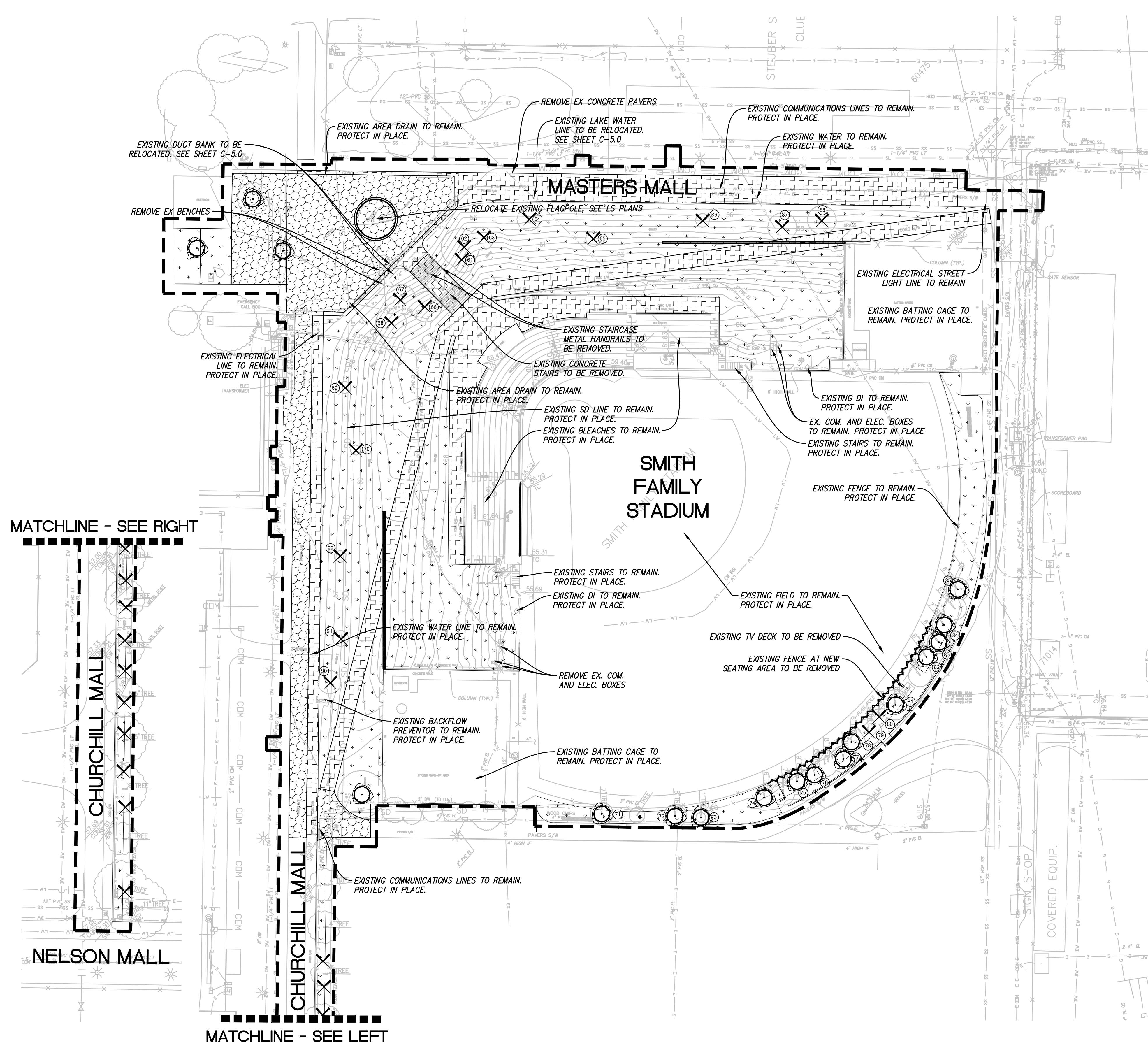
LEGEND

- TREE NUMBER SEE TABLE THIS SHEET
- EXISTING TREE TO REMAIN. PROTECT IN PLACE. SEE NOTES ON THIS SHEET. 1  
C-3.1
- EXISTING TREE TO BE REMOVED
- CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT.
- 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
- LIMIT OF WORK LINE
- SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.

TREE DISPOSITION TABLE

TREE NO.	SPECIES	DBH (IN.)	REMOVE/REMAIN	PROTECTED STATUS
61	DEODAR CEDAR	15.7	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
62	DEODAR CEDAR	20	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
63	DEODAR CEDAR	12.7	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
64	DEODAR CEDAR	18	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
65	DEODAR CEDAR	11.8	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
66	DEODAR CEDAR	20.7	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
67	DEODAR CEDAR	19	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
68	DEODAR CEDAR	18.9	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
69	DEODAR CEDAR	10.2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
70	DEODAR CEDAR	5.5	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
71	LIVE OAK	11.6	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
72	LIVE OAK	9.4	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
73	LIVE OAK	3.6	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
74	LIVE OAK	9.3	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
75	LIVE OAK	10.1	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
76	LIVE OAK	8.0	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
77	LIVE OAK	11.1	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
78	LIVE OAK	12.3	REMAIN	NOT PROTECTED, SEE CONDITION B BELOW
79	LIVE OAK	11.7	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
80	LIVE OAK	10.5	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
81	LIVE OAK	12.3	REMAIN	NOT PROTECTED, SEE CONDITION B BELOW
82	LIVE OAK	12.0	REMAIN	NOT PROTECTED, SEE CONDITION B BELOW
83	LIVE OAK	8.3	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
84	LIVE OAK	9.3	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
85	LIVE OAK	9.4	REMAIN	NOT PROTECTED, SEE CONDITION A BELOW
86	PINE	9.6	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
87	PINE	17.9	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
88	DEODAR CEDAR	17.9	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
89	CANARY ISLAND PALM	24.4	REMAIN	NOT PROTECTED, SEE CONDITION B BELOW
90	DEODAR CEDAR	18.2	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
91	DEODAR CEDAR	11.1	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
92	DEODAR CEDAR	10.0	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW

NOTES:  
 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 ASA.







ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	12.05.22	ASA SET
	05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

DEMOLITION/TREE REMOVAL NOTES

SCALE

AS NOTED

SHEET NUMBER

C-3.1

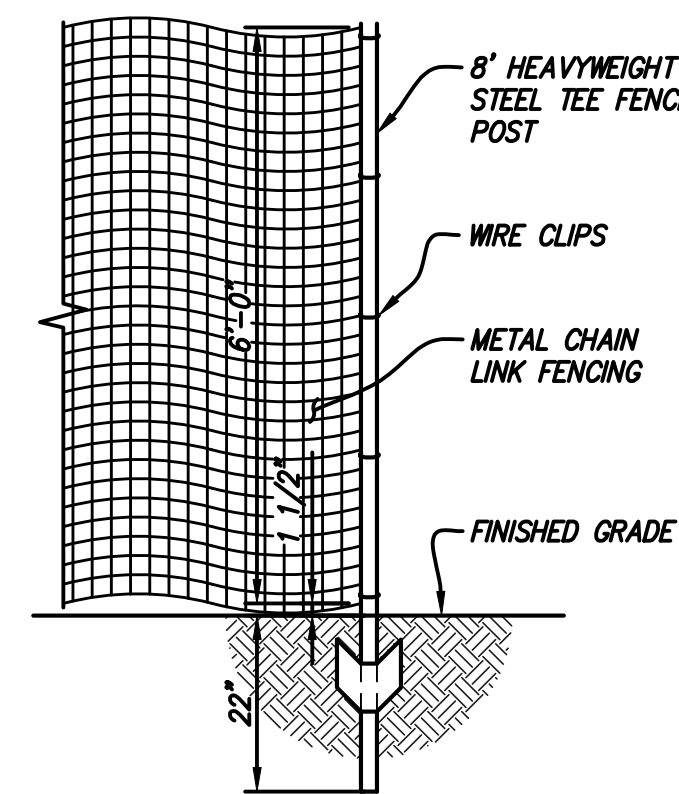
STANFORD UNIVERSITY TREE PROTECTION PROCEDURES SUMMARY

- WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 58 39 TREE AND PLANT PROTECTION.
- 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 1.30.
- A STANFORD GROUNDS CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREE'S ROOT ZONES.
- ALL TREES TO REMAIN 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 UNIVERSITY GROUNDS CERTIFIED ARBORIST.
- LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO TREES WITHIN THE PROJECT LIMITS.
- CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
- 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.
- 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.
- 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.
- EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
- NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS CERTIFIED ARBORIST.
- ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
  - STANFORD GROUNDS CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREE'S ROOT ZONE.
  - ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
  - TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
  - 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.
  - 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.

TREE REMOVAL NOTES

- 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.
- REMOVE ONLY THOSE TREES INDICATED ON THIS PLAN TO BE REMOVED. TREE TRUNK DIAMETERS ARE NOTED ON SHEET L-2. TREES INDICATED TO BE REMOVED SHALL HAVE ALL ROOTS AND STUMP REMOVED TO A DEPTH OF 24" BELOW GRADE.



NOTES:

- THE DRIPLINE OF EACH TREE TO BE PROTECTED SHALL BE ENCLOSED WITH A 6' HIGH TEMPORARY FENCE. FENCE FABRIC SHALL BE HEAVY DUTY PERFORATED, BRIGHT COLORED, PLASTIC MESH. FENCE STAKES SHALL BE 8' HEAVY WEIGHT STEEL TEE FENCE POSTS DRIVEN 22" INTO GRADE.
- METAL CHAIN LINK FENCING ON SECURE FOOTINGS IMBEDDED WHERE 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 THE TRUNK BE ALLOWED, AND ONLY AS APPROVED BY AN SGCA.

TREE PROTECTION DETAIL

N.T.S.

1

SHEET NOTES

- REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE GRADING PERMIT.
- COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO ALL THEIR REQUIREMENTS.
- DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND COMMUNICATION AND POWER SERVICES. CONTRACTOR SHALL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY LARGER LESS PRECISE EQUIPMENT.
- 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.
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 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 THE DEMOLITION WORK.
- CONTRACTOR SHALL PAY DISPOSAL FEES.
- 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).
- WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
- PRIOR TO BEGINNING DEMOLITION WORK, CONTRACTOR TO NOTIFY AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED UTILITIES WITH THE FCM.
- CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN, TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
- 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.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- 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.
- 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.
- CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.
- SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.
- TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING UNDERGROUND UTILITY LINES TO REMAIN 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 REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.
- CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.

NOTES

- ALL UNDERGROUND UTILITIES, LANDSCAPE FEATURES, AND HARDSCAPE FEATURES IMPACTED OR DAMAGED BY THE CONTRACTOR OR THEIR SUB-CONTRACTORS SHALL BE REMOVED AND REPLACED IN KIND. ITEMS MAY INCLUDE, BUT NOT LIMITED TO, UNDERGROUND UTILITY AND IRRIGATION LINES, CURB, GUTTER, SIDEWALK, PAVEMENT, FENCING, STRIPING AND OTHER PAVEMENT MARKINGS, PLANTING, LANDSCAPING, AND BOLLARDS.
- PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.





ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
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	05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

**GRADING & DRAINAGE PLAN**

SCALE

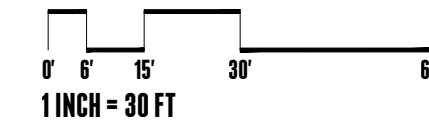
AS NOTED

SHEET NUMBER

**C-4.0**

**LEGEND**

- LIMIT OF WORK
- CONCRETE PAVERS, SEE LS PLANS
- LANDSCAPE AREA, SEE LS PLANS



**SHEET NOTES**

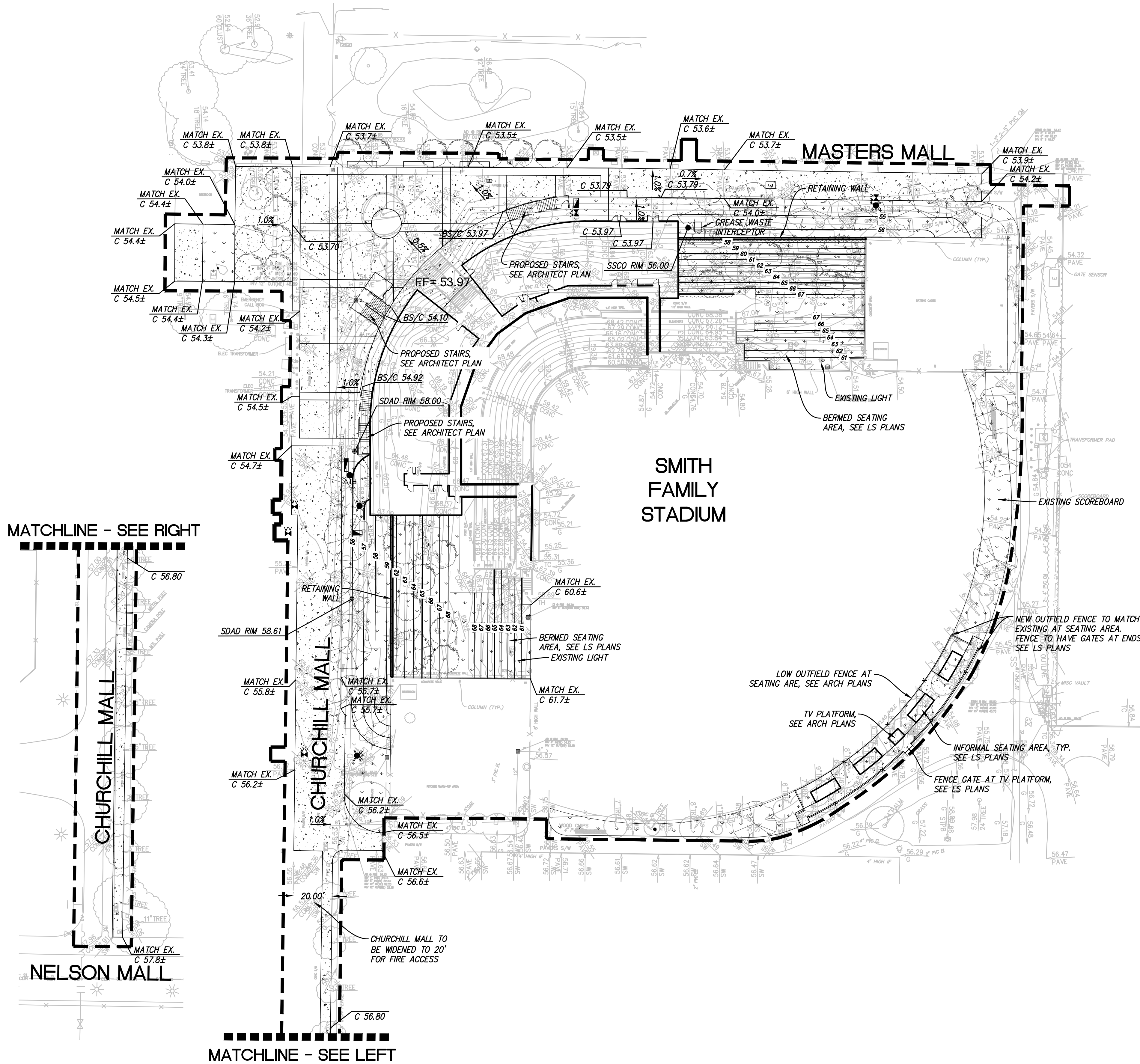
- ① ADJUST RIM TO GRADE.

**GRADING NOTES**

1. PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND VEGETATED SURFACES AT 5% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
2. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05', HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OR THE ADA REQUIREMENTS BELOW. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
5. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
8. AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT CONFORMS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.
9. ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.
10. ALL EXPOSED DISTURBED AREAS SHALL HAVE 2" OF SALVAGED TOPSOIL SPREAD ACROSS TOP SURFACE TO REESTABLISH LOCAL VEGETATION. THIS PROJECT DOES NOT USE ANY PLANTING OR IRRIGATION.
11. SITE IS KNOWN TO HAVE NATURALLY OCCURRING ASBESTOS. CONTRACTOR TO COMPLY WITH BAAQMD REQUIREMENTS AND THE REQUIREMENTS OF THE ASBESTOS MITIGATION PLAN. CONTRACTOR SHALL ALSO INCLUDE EMPLOYEE SAFETY MITIGATION MEASURES IN BID.

**ADA NOTES**

1. ALL HARDSCAPE ALONG THE ADA PATH OF TRAVEL SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE.
2. SLOPED WALKS ALONG THE DESIGNATED ADA PATH OF TRAVEL SHALL NOT EXCEED A SLOPE OF 1:20 (5%) WITHOUT HANDRAILS. THE MAXIMUM SLOPE WITH HANDRAILS OR FOR CURB RAMPS IS 1:12 (8.33%). LEVEL LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL SLOPED WALKWAYS AND RAMPS.
3. WALKWAYS ON ANY PATH OF TRAVEL SHALL HAVE A MINIMUM WIDTH OF 48". WALKWAYS AND ADA PARKING STALLS OR LOADING ZONES SHALL HAVE A 2% MAXIMUM CROSS SLOPE.
4. A LEVEL LANDING (2% MAX SLOPE) SHALL BE PROVIDED AT ALL ACCESSIBLE 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 OPENS ONTO THE LANDING.
5. RAMPS GREATER THAN 1:20 SLOPE AND EXCEEDING 30" IN VERTICAL ELEVATION CHANGE SHALL HAVE INTERMEDIATE LEVEL LANDINGS.
6. PROVIDE 22"x17" UNAUTHORIZED ADA PARKING SIGN STATING, "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE."
7. REFER TO ARCH SITE PLAN FOR THE ACCESSIBLE ROUTE WITHIN THE SITE.

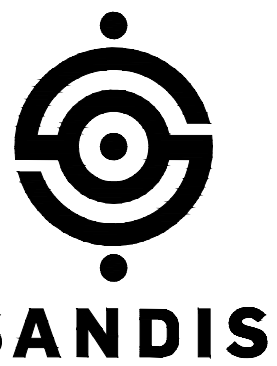


MATCHLINE - SEE RIGHT

MATCHLINE - SEE LEFT

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





ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
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PROJECT NUMBER  
22016

SHEET TITLE  
**UTILITY PLAN**

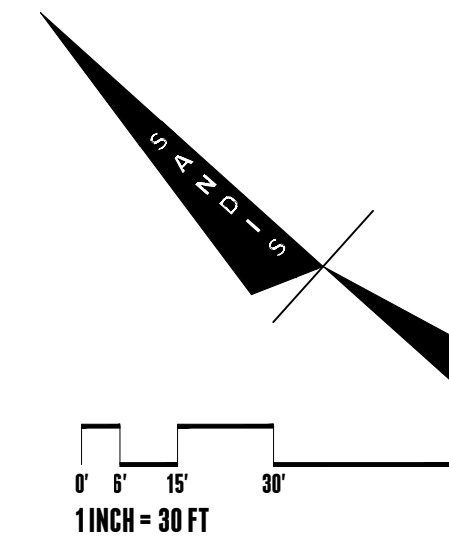
SCALE  
AS NOTED

SHEET NUMBER

**C-5.0**

**LEGEND**

- SD PROPOSED SD LINE
- SS PROPOSED SS LINE
- DW PROPOSED DW LINE
- CMN PROPOSED COM LINE
- E PROPOSED E LINE
- LW PROPOSED LW LINE
- JT PROPOSED JT LINE
- FW PROPOSED FW LINE
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED FIRE HYDRANT
- PROPOSED BACKFLOW PREVENTER
- PROPOSED ELECTRICAL PULLBOX
- PROPOSED POST INDICATOR VALVE



**STORM DRAIN NOTES**

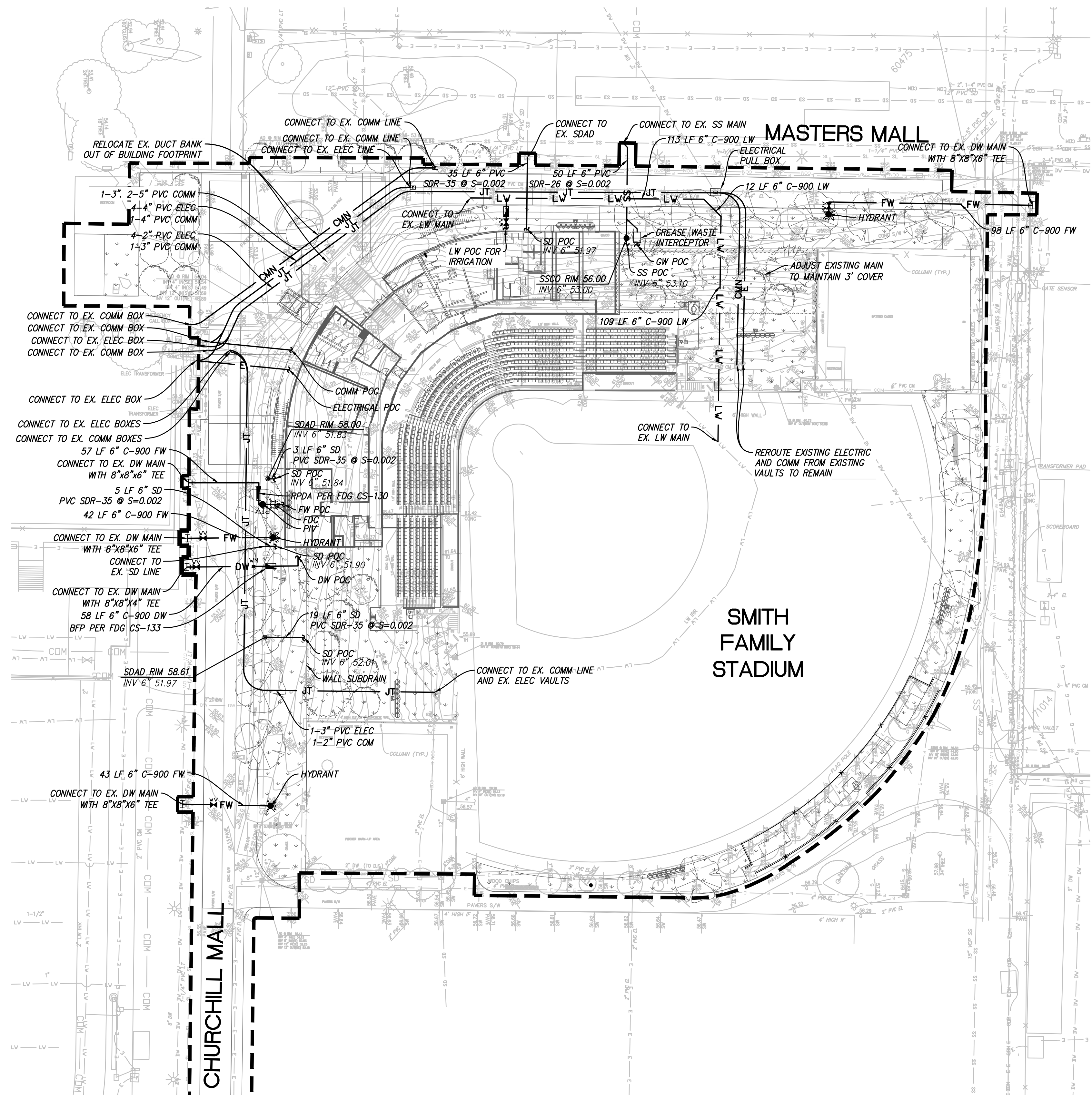
- PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS, 45° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 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.
- ALL AREA DRAINS AND CATCH BASINS GRATES WITH PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
- ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
- 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.
- 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.
- INSTALL SEPARATE SUB-DRAIN SYSTEM BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT AND CONNECT TO STORM DRAIN SYSTEM AS SHOWN ON PLANS.
- 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**

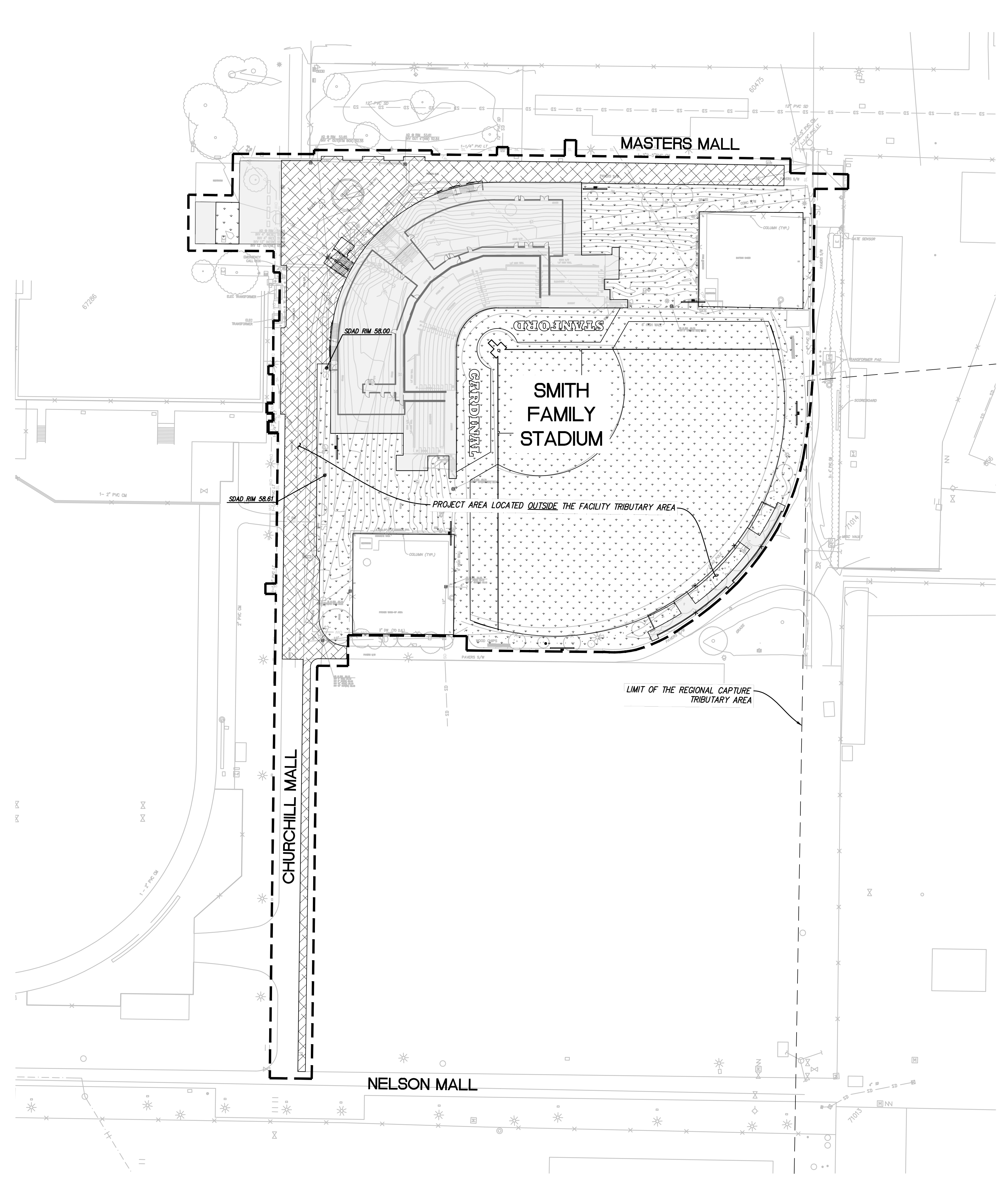
- ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH 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.
- ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AT FACE OF BUILDING AND AS SHOWN ON PLANS.
- 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**

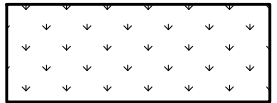




- MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- ALL WATER SERVICE CONNECTIONS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







### STORMWATER MANAGEMENT PLAN LEGEND

-  PROPOSED PERVIOUS AREA
-  PROPOSED IMPERVIOUS AREA
-  REPLACED VEHICULAR IMPERVIOUS AREA
-  LIMIT OF WORK
-  LIMIT OF THE REGIONAL CAPTURE TRIBUTARY AREA

### SITE TREATMENT AREA NOTE:

THIS PROJECT IS REPLACING MORE THAN 50% OF THE EXISTING IMPERVIOUS AREA WITHIN THE STANFORD SOFTBALL STADIUM 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	26,353 SF
PROPOSED PERVIOUS	70,633 SF
REPLACED VEHICULAR IMPERVIOUS	20,029 SF
<b>TOTAL</b>	<b>117,015 SF</b>

### EXISTING AND PROPOSED AREA QUANTITIES

	<b>EXISTING</b>	<b>PROPOSED</b>
IMPERVIOUS	32,334 SF	46,382 SF
PERVIOUS	84,681 SF	70,633 SF
<b>TOTAL</b>	<b>117,015 SF</b>	<b>117,015 SF</b>

PROJECT NAME:	SMITH FAMILY SOFTBALL STADIUM	WATERSHED:	Matedero
PROJECT IMPERVIOUS AREA SUMMARY			
VEHICULAR (SF)	20,029	NON-VEHICULAR (SF)	26,353

IN-LIEU CREDIT USED3 (SF)  
 NOTE:  
 1. THIS PROJECT IS LOCATED OUTSIDE THE REGIONAL CAPTURE TRIBUTARY AREA  
 2. IN-LIEU CREDIT USED IS THE PORTION OF REGULATED IMPERVIOUS, LOCATED OUTSIDE THE REGIONAL CAPTURE TRIBUTARY AREA, THAT IS MEETING MRP SECTION C.3 USING IN-LIEU CREDITS FROM REGIONAL STORMWATER TREATMENT FACILITIES.

Project Name: Smith Family Softball Stadium  
 Project Address: 161 Churchill Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-375



ISSUES AND REVISIONS	
NO.	DESCRIPTION
12.05.22	ASA SET
05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

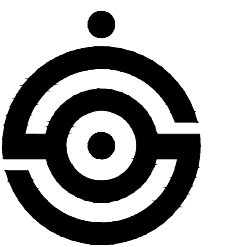
SHEET TITLE  
**STORMWATER MANAGEMENT PLAN**  
SCALE

AS NOTED

SHEET NUMBER

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





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NO.	DATE	DESCRIPTION
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	05.03.23	ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

**EROSION CONTROL PLAN**

SCALE

AS NOTED

SHEET NUMBER

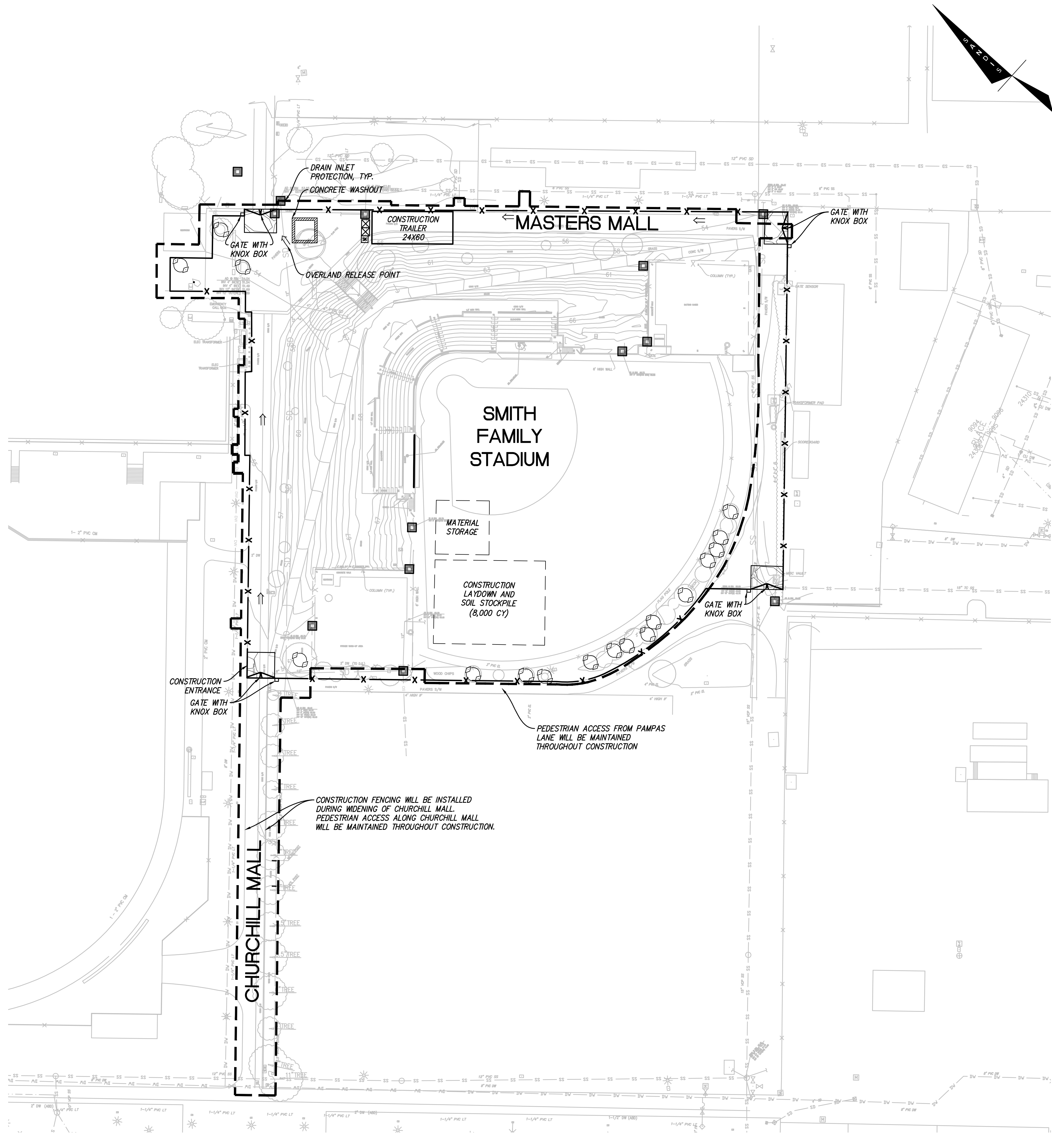
**C-7.0**

**LEGEND**

- CONSTRUCTION ENTRANCE  $\frac{3}{C-7.1}$
- CONCRETE WASHOUT  $\frac{2}{C-7.2}$
- SPILL KIT
- PORTABLE RESTROOM
- CONSTRUCTION TRAILER  $\frac{1}{C-7.2}$   
(DURATION 18 MONTHS)
- OVERLAND RELEASE POINT
- CONSTRUCTION FENCE WITH STRAW WATTLE  $\frac{1}{C-7.1}$
- DRAIN INLET PROTECTION  $\frac{6}{C-7.2}$
- TREE PROTECTION FENCING  $\frac{1}{C-3.0}$
- APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE

**WATER POLLUTION CONTROL NOTES:**

- A. THIS PLAN IS FOR STORMWATER POLLUTION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
- B. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- C. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- D. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- E. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- F. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
- G. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- H. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
- I. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
- J. STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH SITE QSP.
- K. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- L. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- L. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.







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SHEET TITLE

COUNTY BMP NOTES

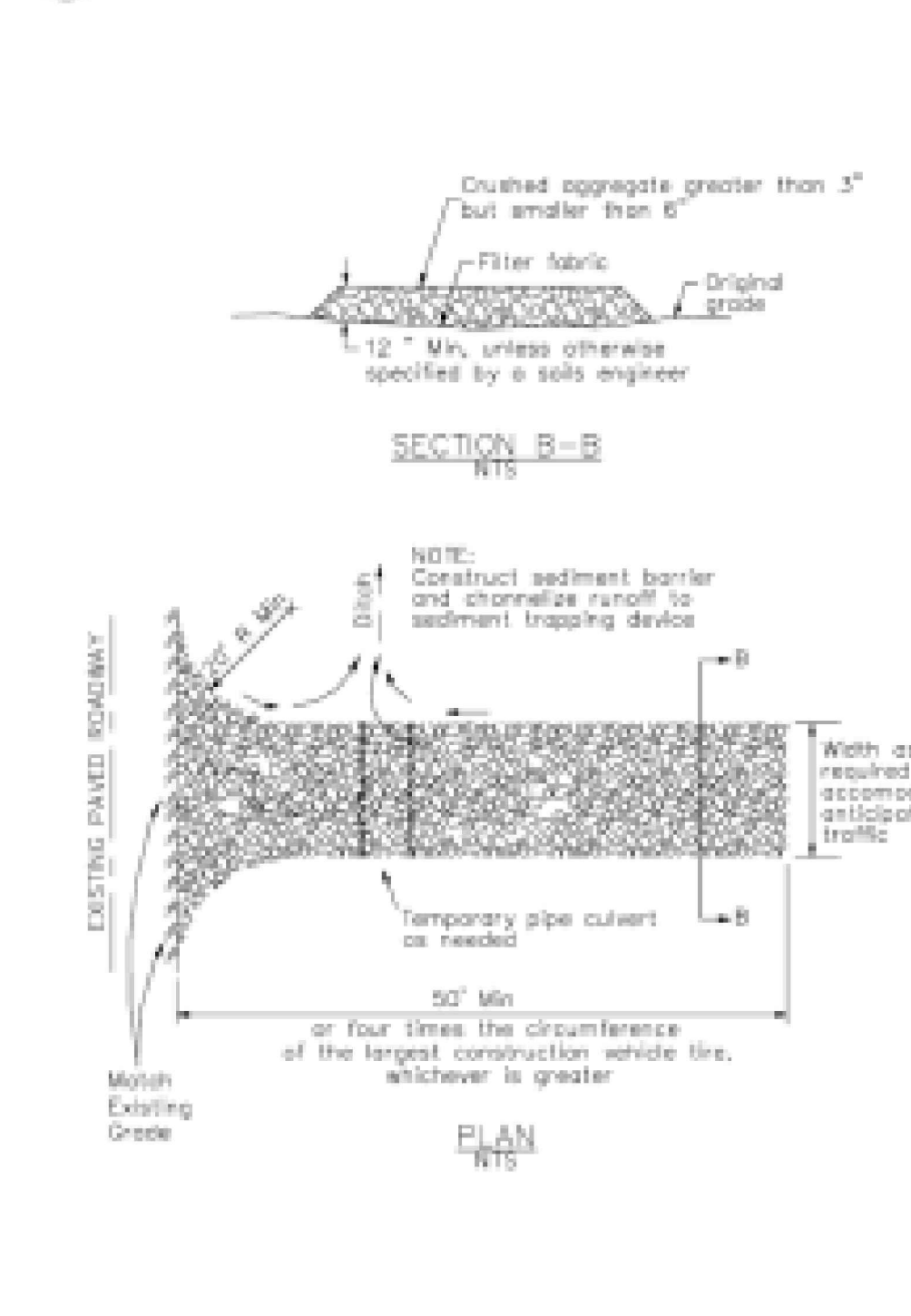
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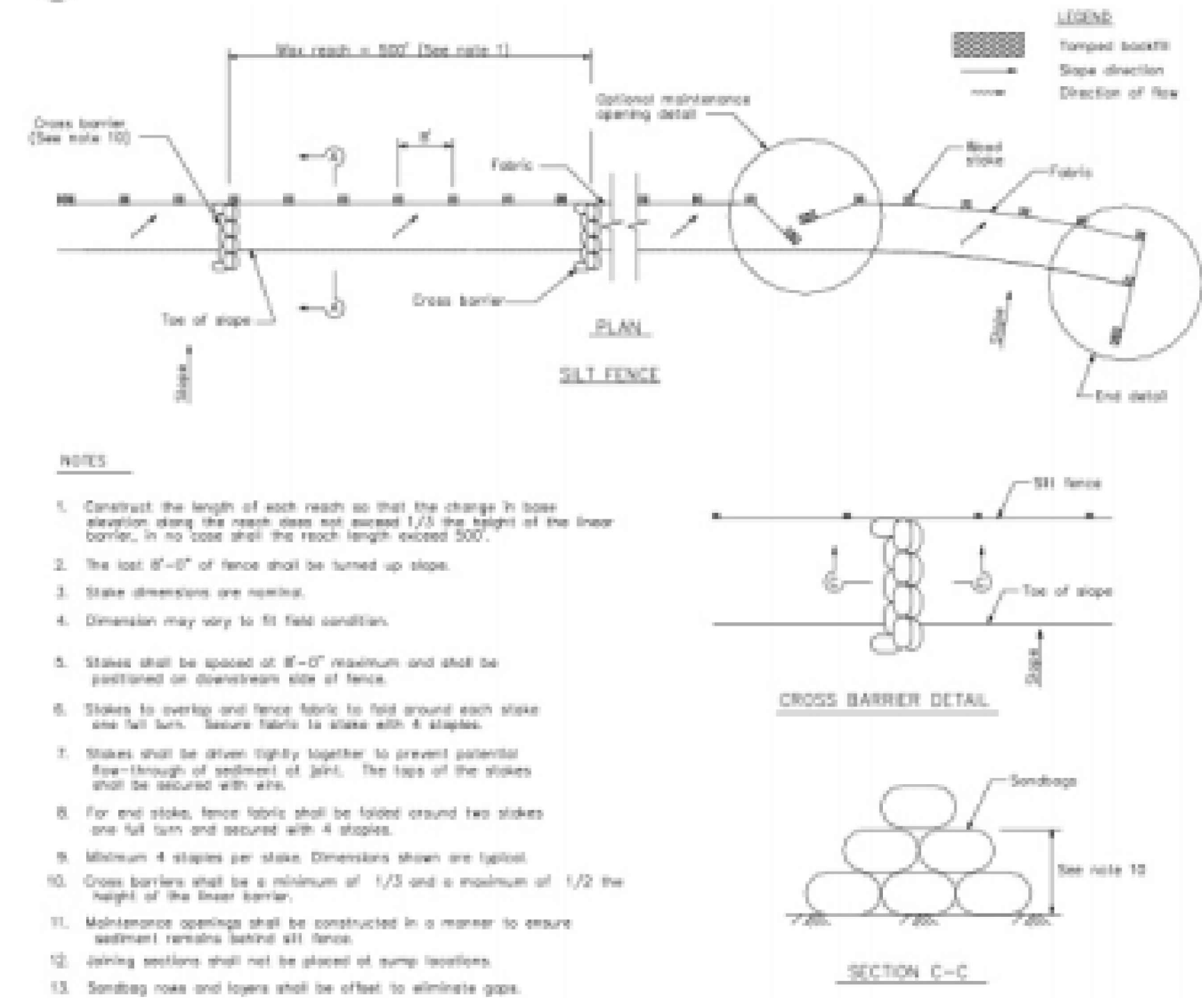
SHEET NUMBER

Project Information

**3 Stabilized Construction Entrance/Exit**  
 CASQA Detail TC-1

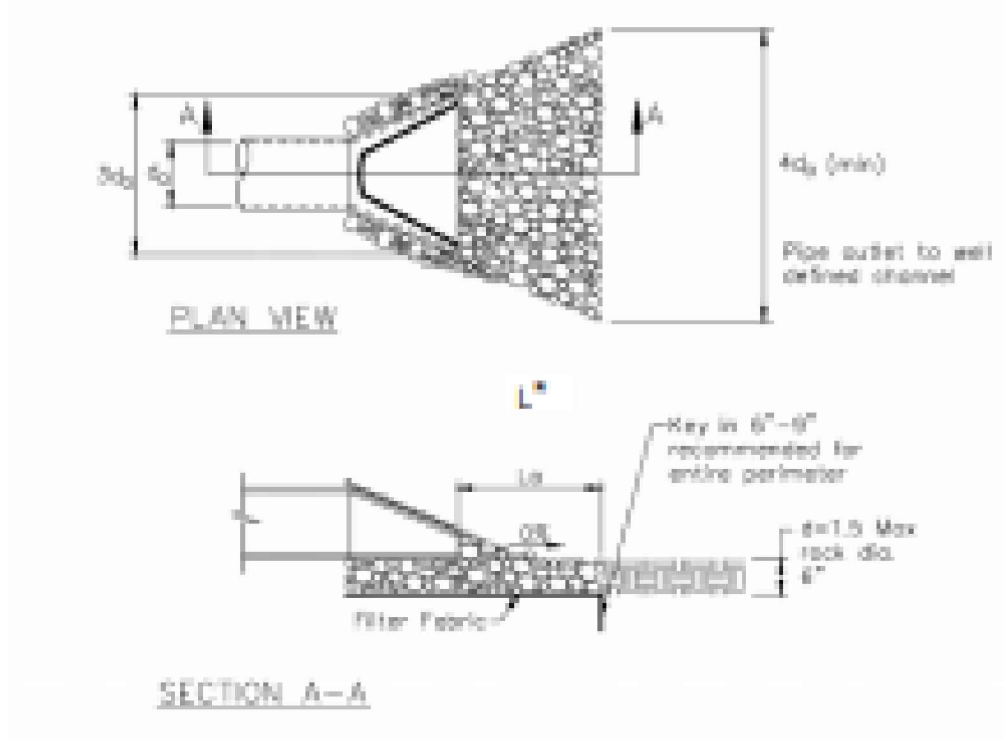


**1 Silt Fence**  
 CASQA Detail SE-1



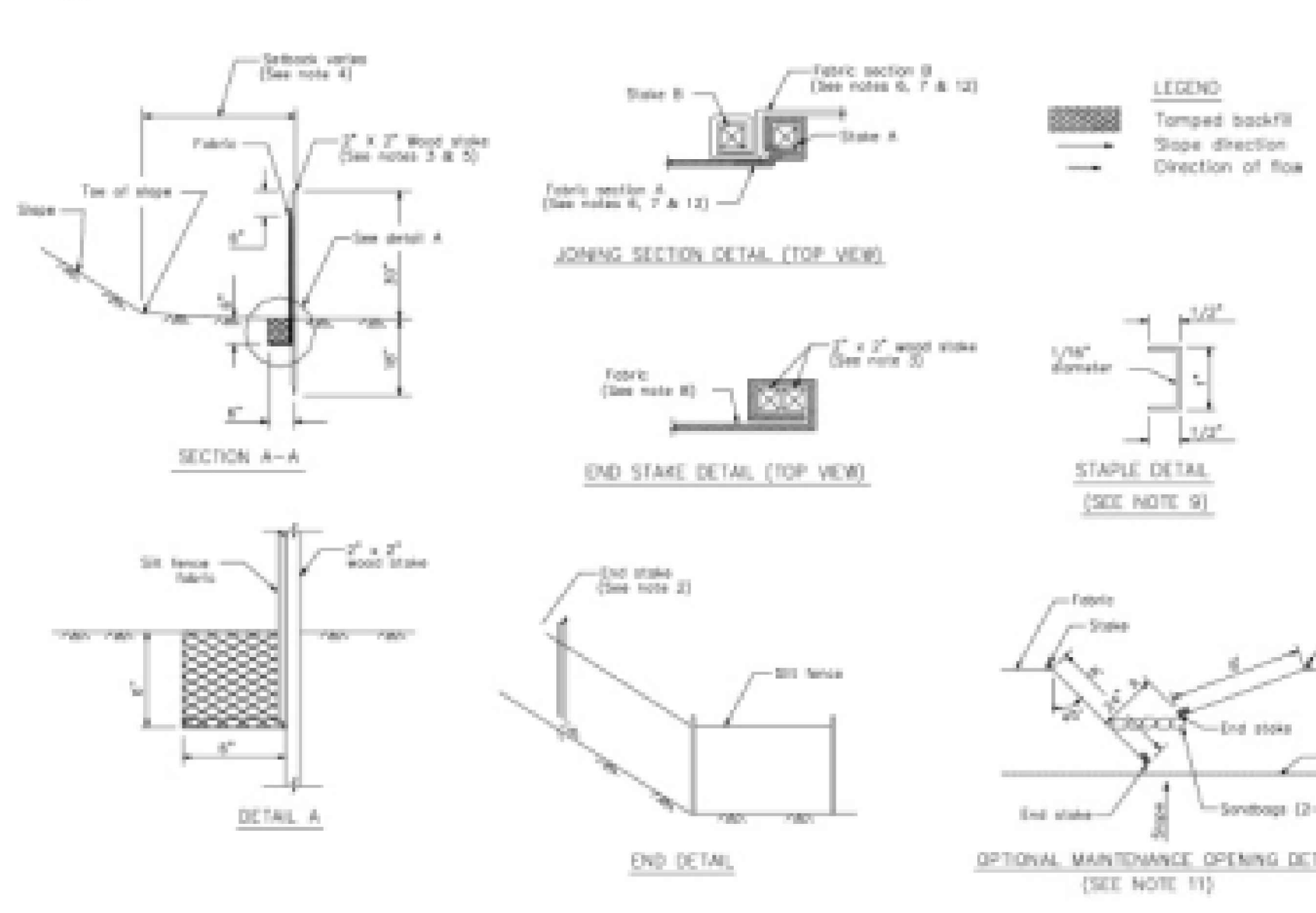
- NOTES**
- Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier. In no case shall the reach length exceed 500'.
  - The last 8'-0" of fence shall be turned up slope.
  - Stake dimensions are typical.
  - Dimension may vary to fit field condition.
  - Stakes shall be spaced at 8'-0" maximum and shall be positioned on downstream side of fence.
  - Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stakes with 4 staples.
  - Stakes shall be driven tightly together to prevent potential free-through of sediment at joints. The tops of the stakes shall be secured with wire.
  - For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
  - Minimum 4 staples per stake. Dimensions shown are typical.
  - Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
  - Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
  - Working sections shall not be placed at pump locations.
  - Sandbag rows and layers shall be offset to eliminate gaps.

**4 Velocity Dissipation Devices**  
 CASQA Detail EC-10



\* Length per ABAG Design Standards

**2 Silt Fence**  
 CASQA Detail SE-1



**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 latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material handler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, 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 Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site 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 latest.
- 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.
- Handling 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 harden for later removal. If possible have concrete contractor 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 latest.
- Prevent 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 paving in the wet season and reachable paving 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.
- Contaminated Soil and Water Management:** Inspections 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 hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Waste Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste handlers 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 latest.
- 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**

- Sediment Control Management:**
  - Tracking Prevention & Clean Up:** Activities 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. Refer to Erosion & Sediment Control Field Manual, 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 rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages 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.
  - Dust Control:** The contractor shall provide dust 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.
  - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (taps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion 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, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 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 erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

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







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ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
12.05.22		ASA SET
05.03.23		ASA RESUBMITTAL #1

PROJECT NUMBER  
22016

SHEET TITLE

COUNTY BMP NOTES

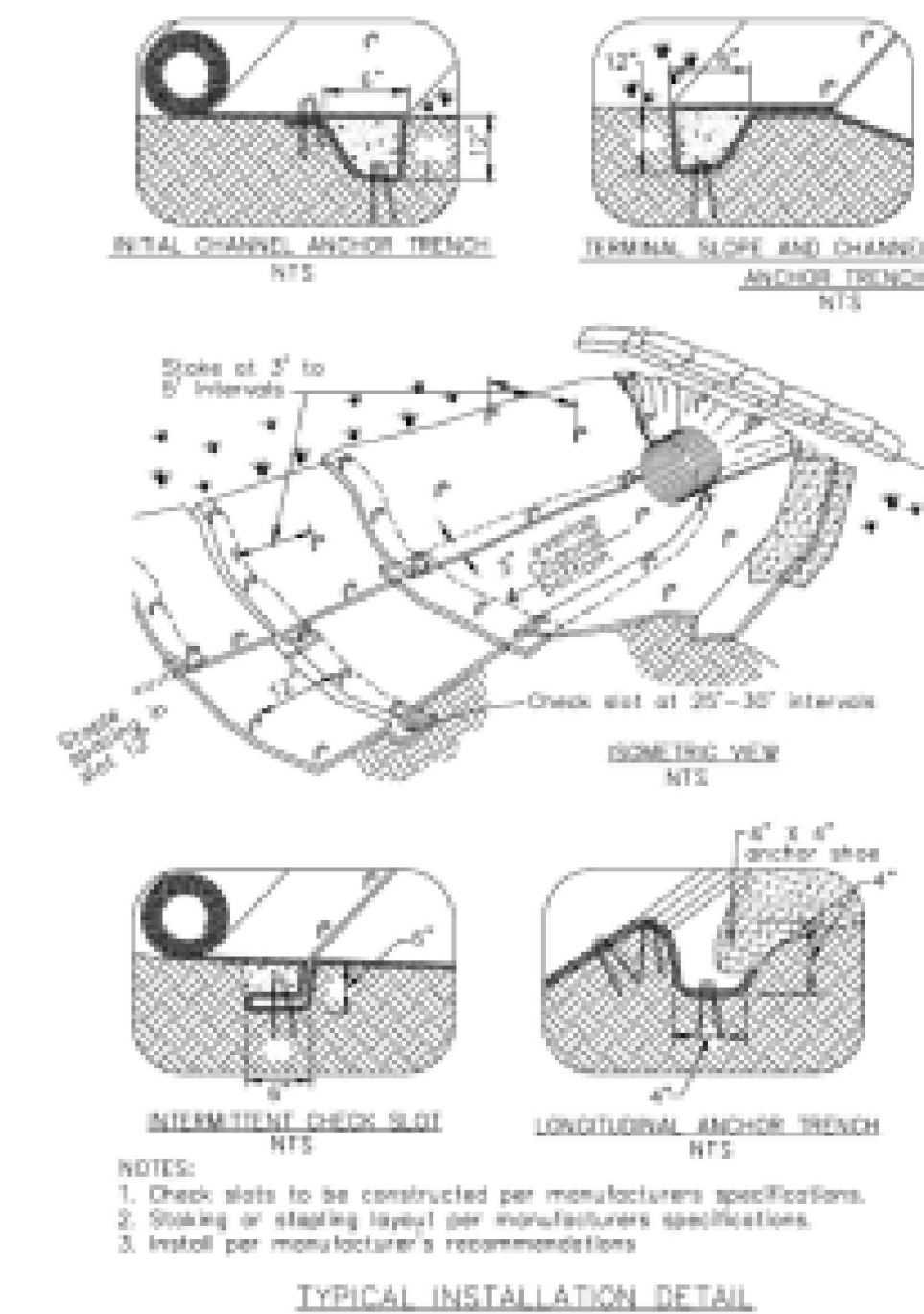
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SHEET NUMBER

Project Information

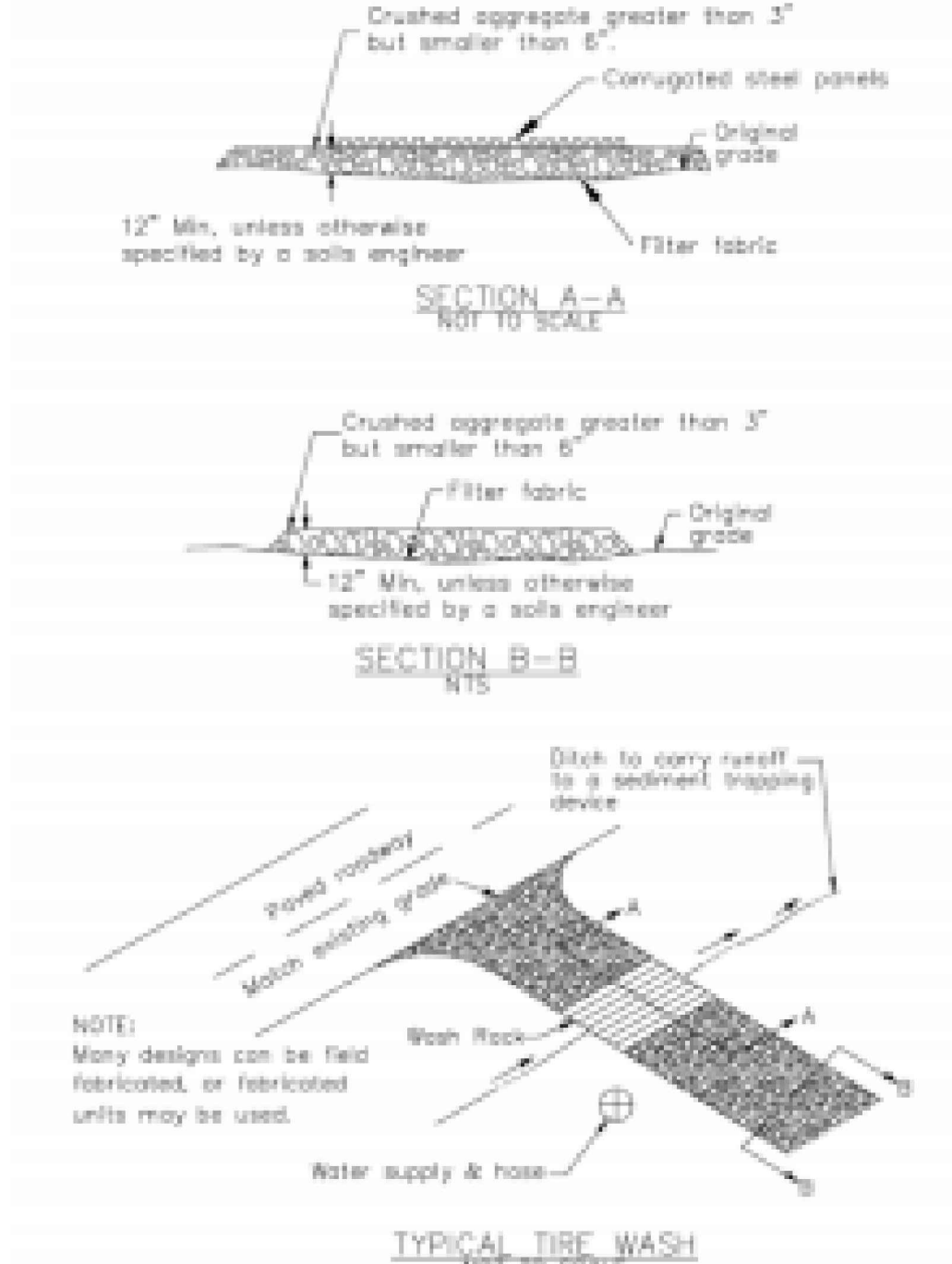
**7 Geotextiles and Mats**  
CASQA Detail EC-7



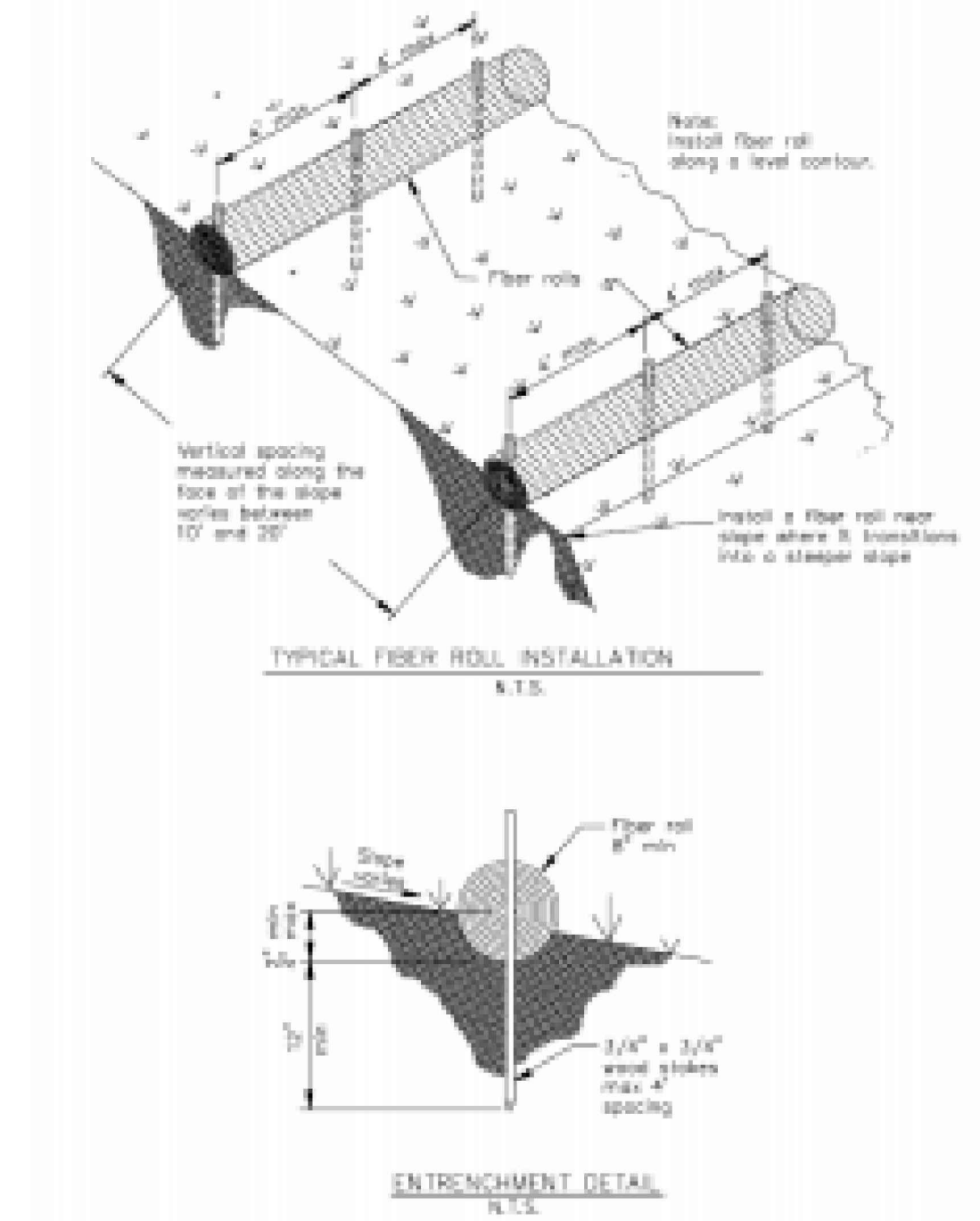
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CASQA Detail EC-7



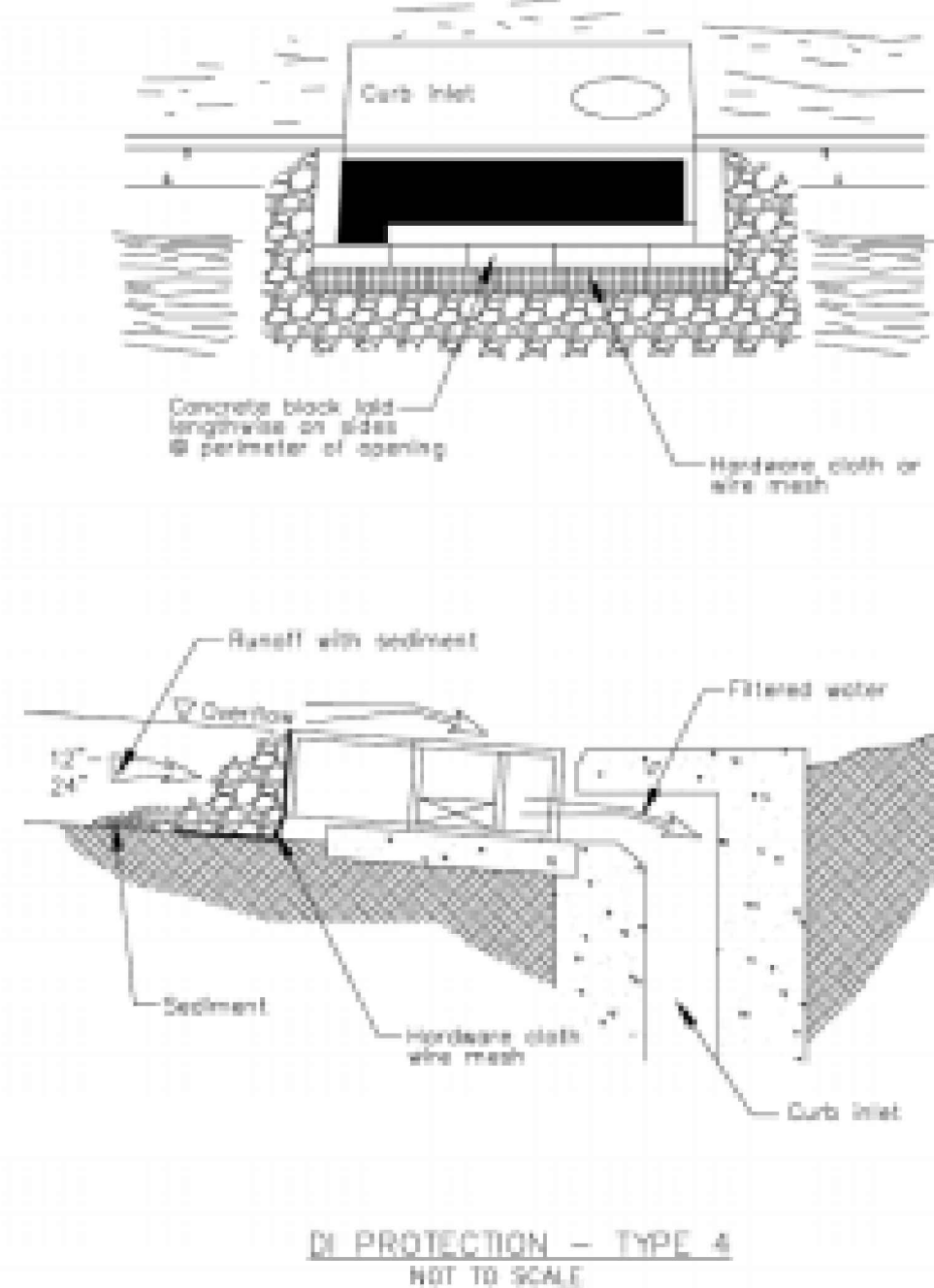
**3 Entrance/Outlet Tire Wash**  
CASQA Detail TC-3



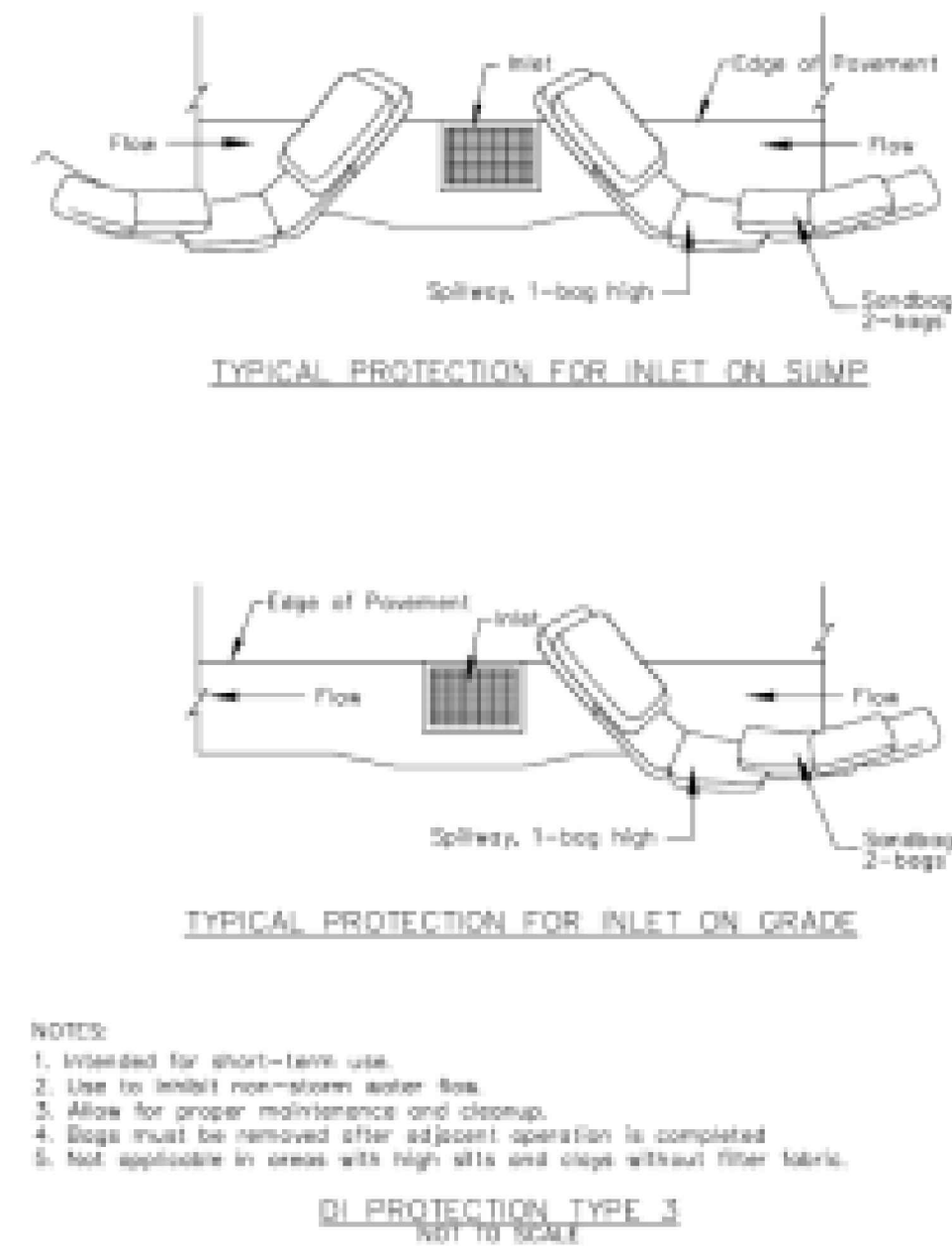
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CASQA Detail SE-8



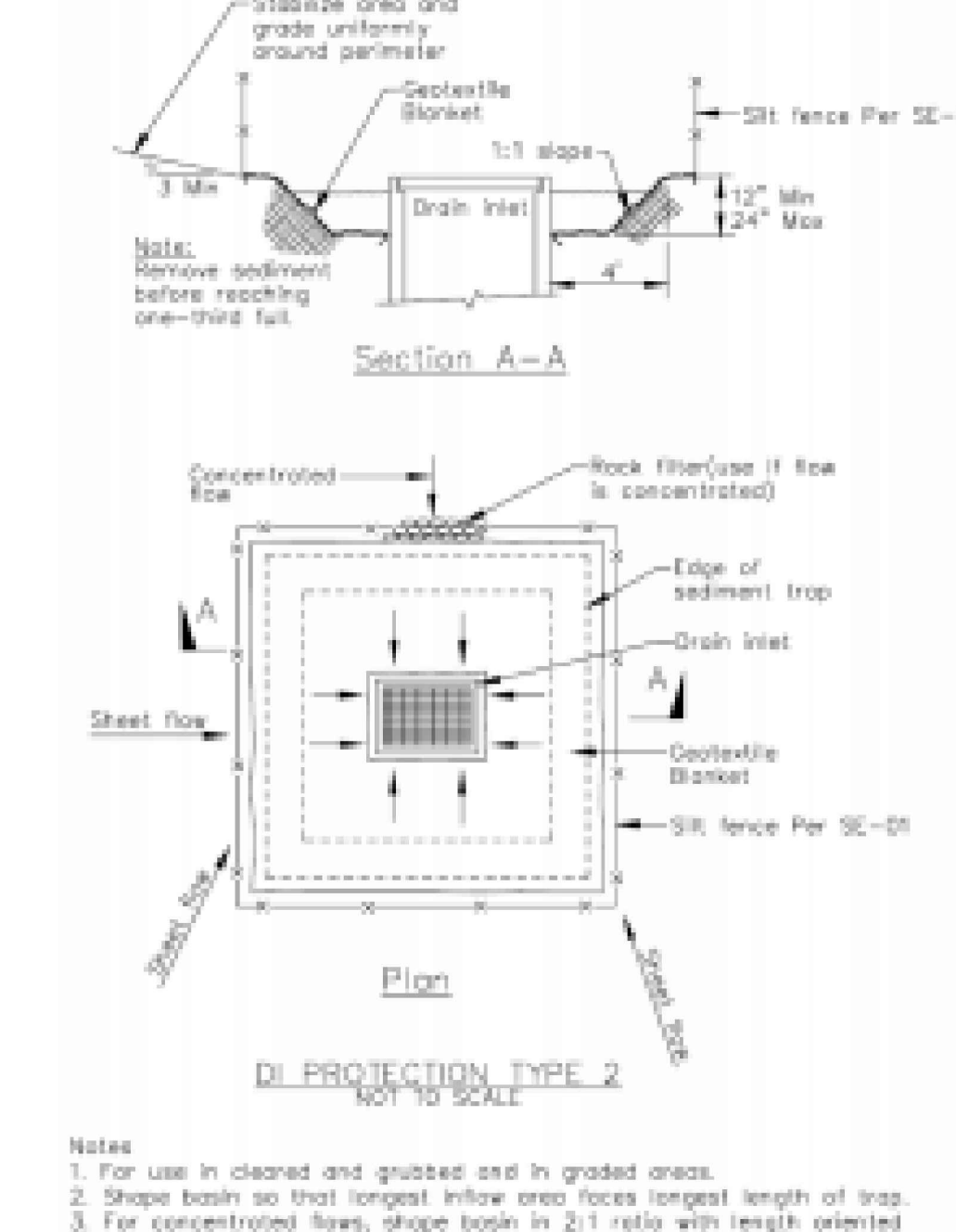
**8 Storm Drain Inlet Protection**  
CASQA Detail SE-10



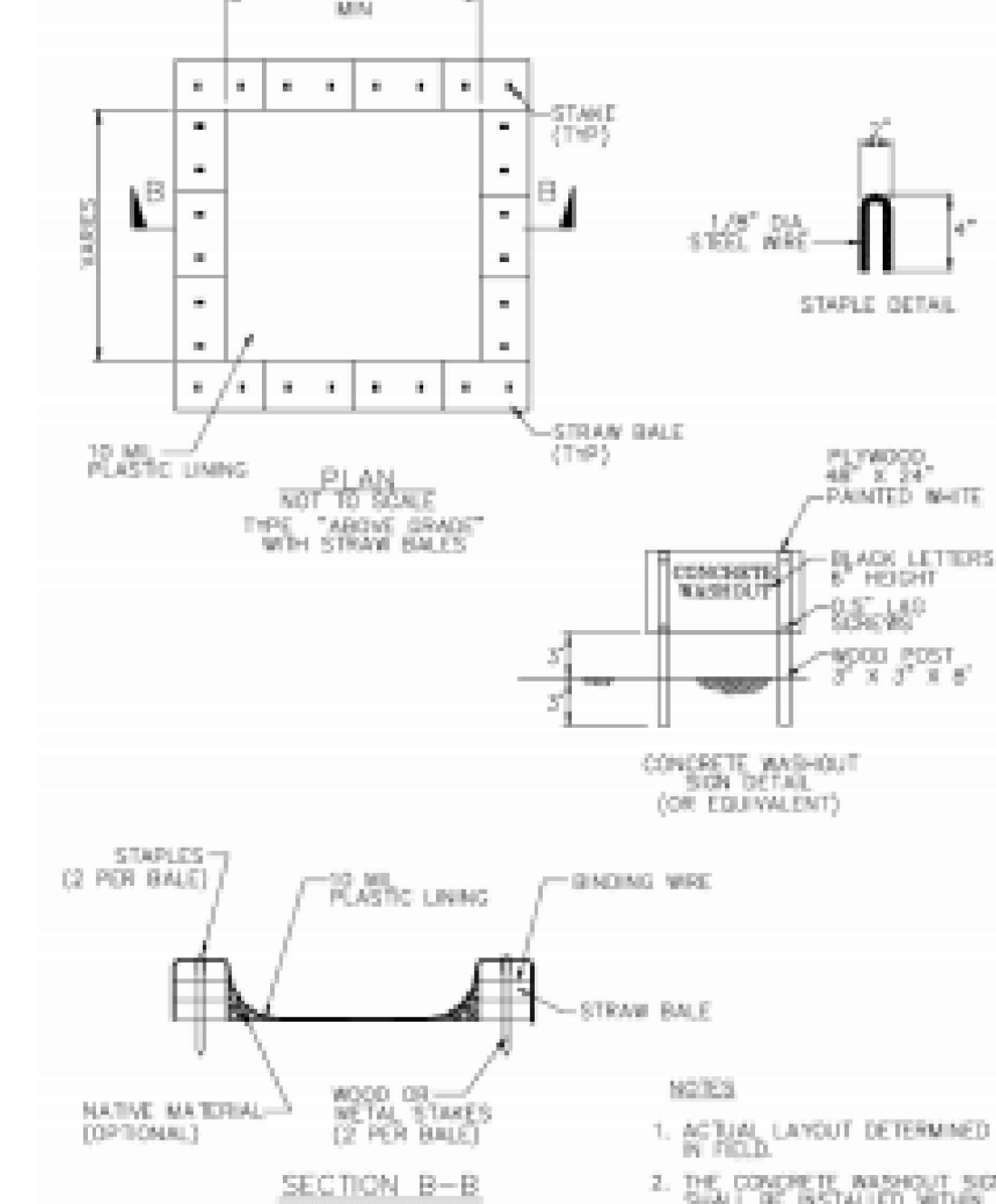
**6 Storm Drain Inlet Protection**  
CASQA Detail SE-10



**4 Storm Drain Inlet Protection**  
CASQA Detail SE-10



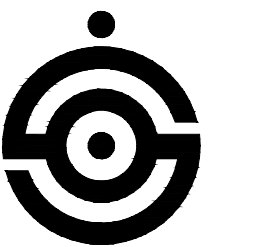
**2 Concrete Waste Management**  
CASQA Detail WM-8



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







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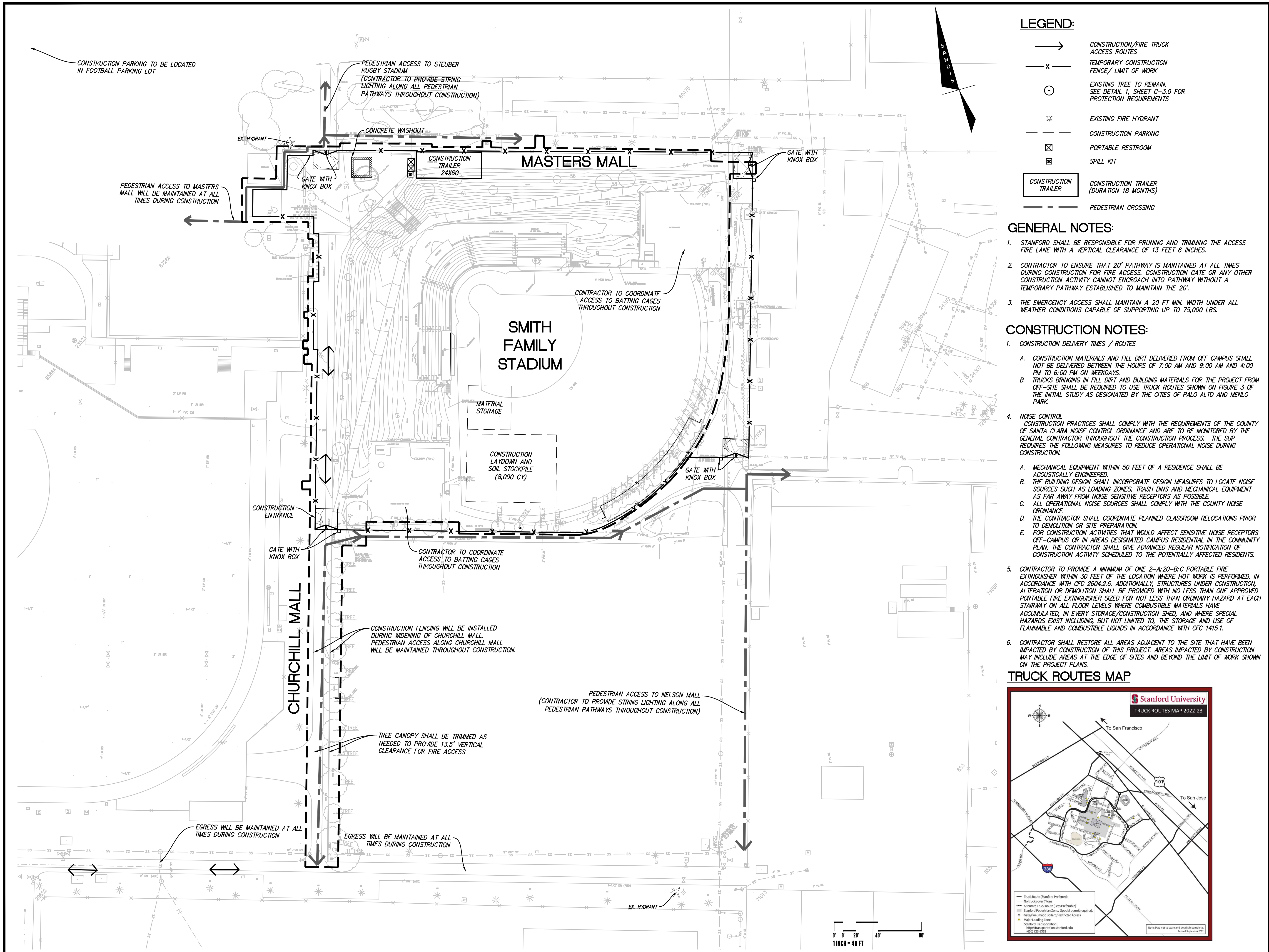
**CONSTRUCTION SITE LOGISTICS/SAFETY PLAN**

SCALE

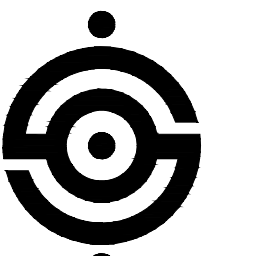
AS NOTED

SHEET NUMBER

**C-8.0**







ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
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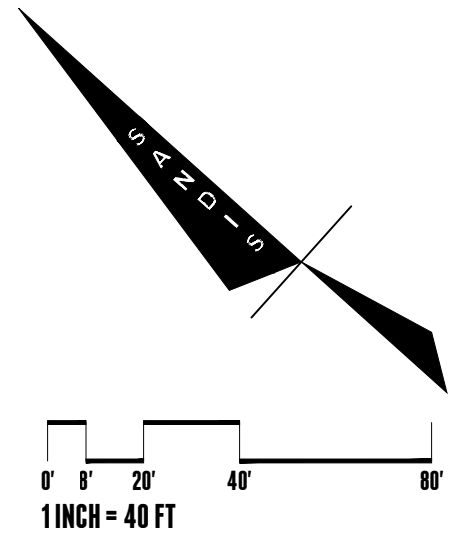
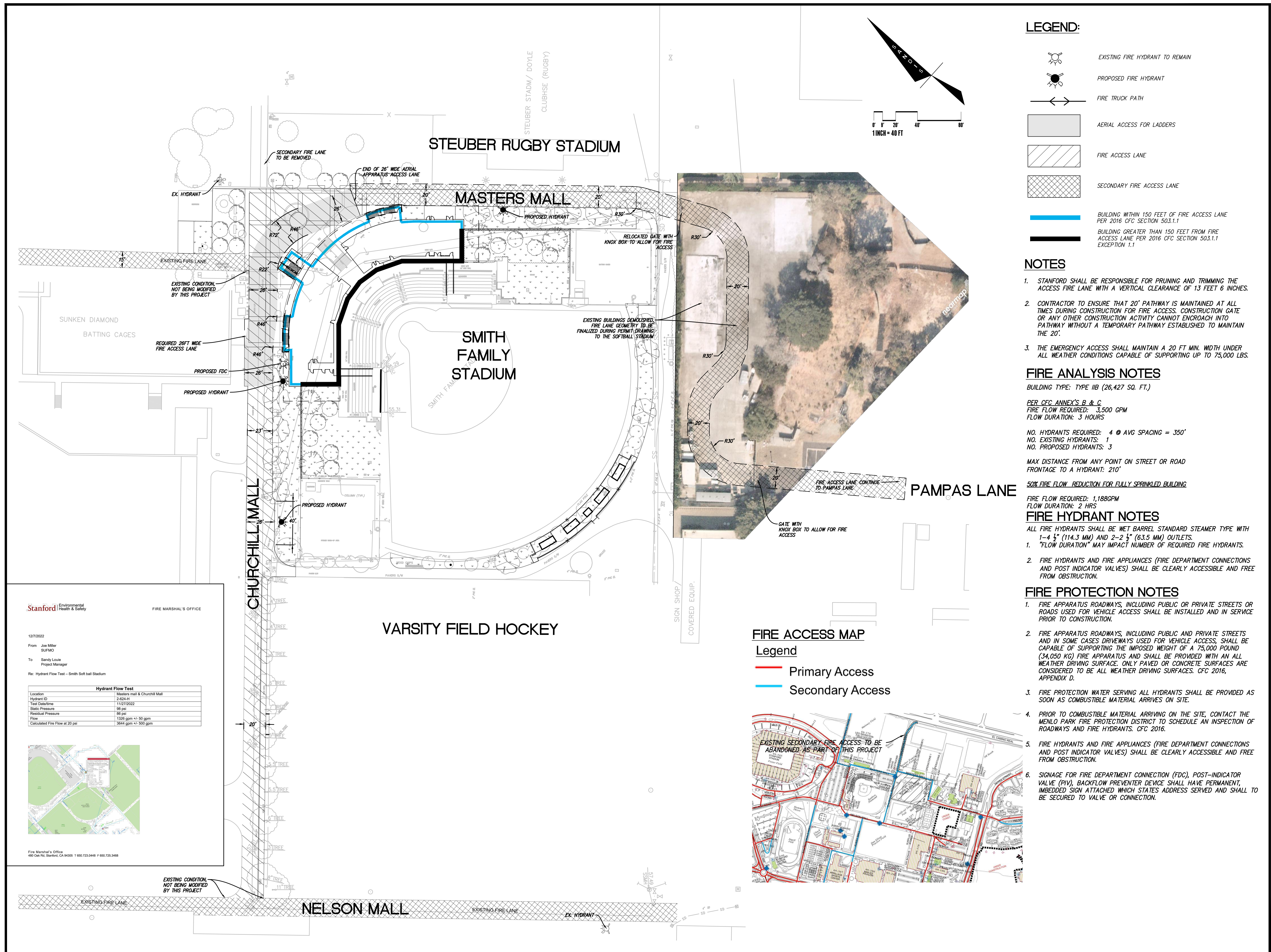
SHEET TITLE

**FIRE ACCESS PLAN**

SCALE

SHEET NUMBER

**C-9.0**



**LEGEND:**

- EXISTING FIRE HYDRANT TO REMAIN
- PROPOSED FIRE HYDRANT
- FIRE TRUCK PATH
- AERIAL ACCESS FOR LADDERS
- FIRE ACCESS LANE
- SECONDARY FIRE ACCESS LANE
- BUILDING WITHIN 150 FEET OF FIRE ACCESS LANE PER 2016 CFC SECTION 503.1.1
- BUILDING GREATER THAN 150 FEET FROM FIRE ACCESS LANE PER 2016 CFC SECTION 503.1.1 EXCEPTION 1.1

**NOTES**

1. STANFORD SHALL BE RESPONSIBLE FOR PRUNING AND TRIMMING THE ACCESS FIRE LANE WITH A VERTICAL CLEARANCE OF 13 FEET 6 INCHES.
2. CONTRACTOR TO ENSURE THAT 20' PATHWAY IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION FOR FIRE ACCESS. CONSTRUCTION GATE OR ANY OTHER CONSTRUCTION ACTIVITY CANNOT ENCROACH INTO PATHWAY WITHOUT A TEMPORARY PATHWAY ESTABLISHED TO MAINTAIN THE 20'.
3. THE EMERGENCY ACCESS SHALL MAINTAIN A 20 FT MIN. WIDTH UNDER ALL WEATHER CONDITIONS CAPABLE OF SUPPORTING UP TO 75,000 LBS.

**FIRE ANALYSIS NOTES**

BUILDING TYPE: TYPE IIB (26,427 SQ. FT.)  
 PER CFC ANNEX'S B & C  
 FIRE FLOW REQUIRED: 3,500 GPM  
 FLOW DURATION: 3 HOURS  
 NO. HYDRANTS REQUIRED: 4 @ AVG SPACING = 350'  
 NO. EXISTING HYDRANTS: 1  
 NO. PROPOSED HYDRANTS: 3  
 MAX DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT: 210'  
 50% FIRE FLOW REDUCTION FOR FULLY SPRINKLED BUILDING

**FIRE HYDRANT NOTES**

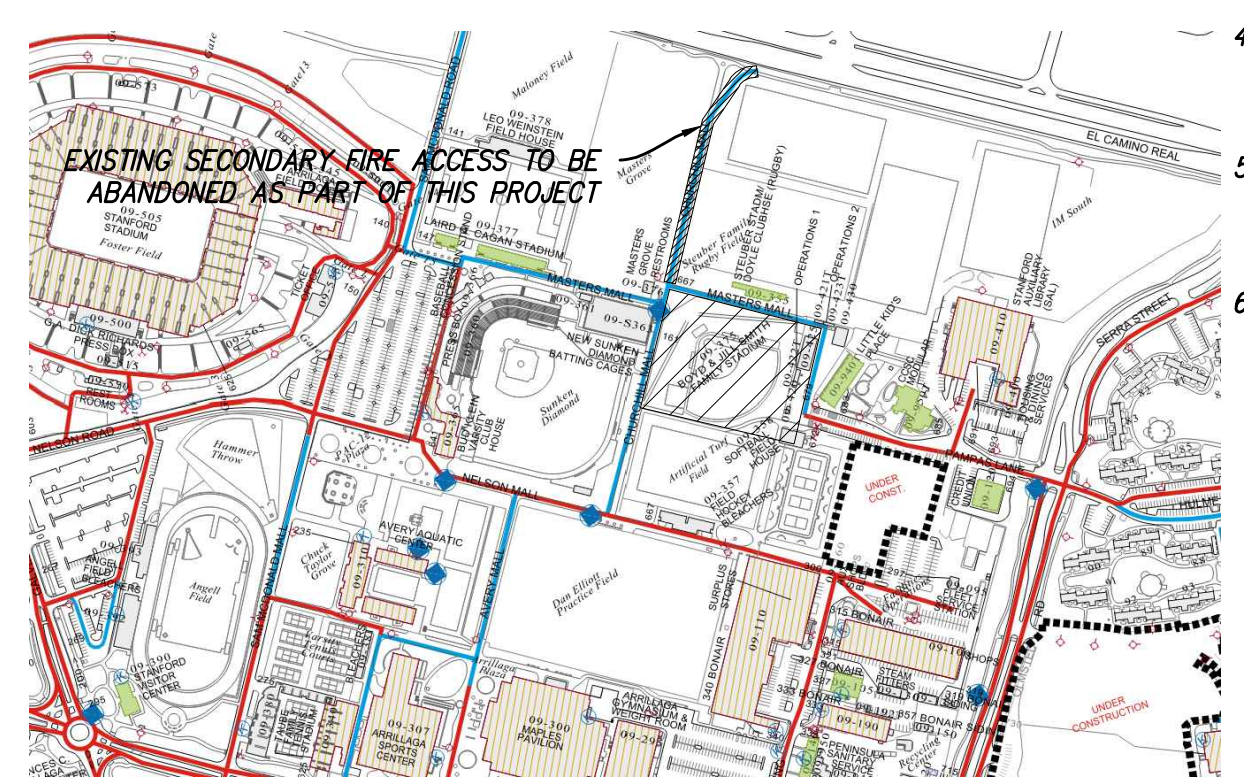
- FIRE FLOW REQUIRED: 1,188GPM  
 FLOW DURATION: 2 HRS
- ALL FIRE HYDRANTS SHALL BE WET BARREL STANDARD STEAMER TYPE WITH 1-4 1/2" (114.3 MM) AND 2-2 1/2" (63.5 MM) OUTLETS.
1. "FLOW DURATION" MAY IMPACT NUMBER OF REQUIRED FIRE HYDRANTS.
  2. FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.

**FIRE PROTECTION NOTES**

1. FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION.
2. FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC AND PRIVATE STREETS AND IN SOME CASES DRIVEWAYS USED FOR VEHICLE ACCESS, SHALL BE CAPABLE OF SUPPORTING THE IMPOSED WEIGHT OF A 75,000 POUND (34,050 KG) FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL WEATHER DRIVING SURFACE. ONLY PAVED OR CONCRETE SURFACES ARE CONSIDERED TO BE ALL WEATHER DRIVING SURFACES. CFC 2016, APPENDIX D.
3. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
4. PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE PROTECTION DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2016.
5. FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.
6. SIGNAGE FOR FIRE DEPARTMENT CONNECTION (FDC), POST-INDICATOR VALVE (PIV), BACKFLOW PREVENTER DEVICE SHALL HAVE PERMANENT, IMBEDDED SIGN ATTACHED WHICH STATES ADDRESS SERVED AND SHALL TO BE SECURED TO VALVE OR CONNECTION.

**FIRE ACCESS MAP Legend**

- Primary Access
- Secondary Access



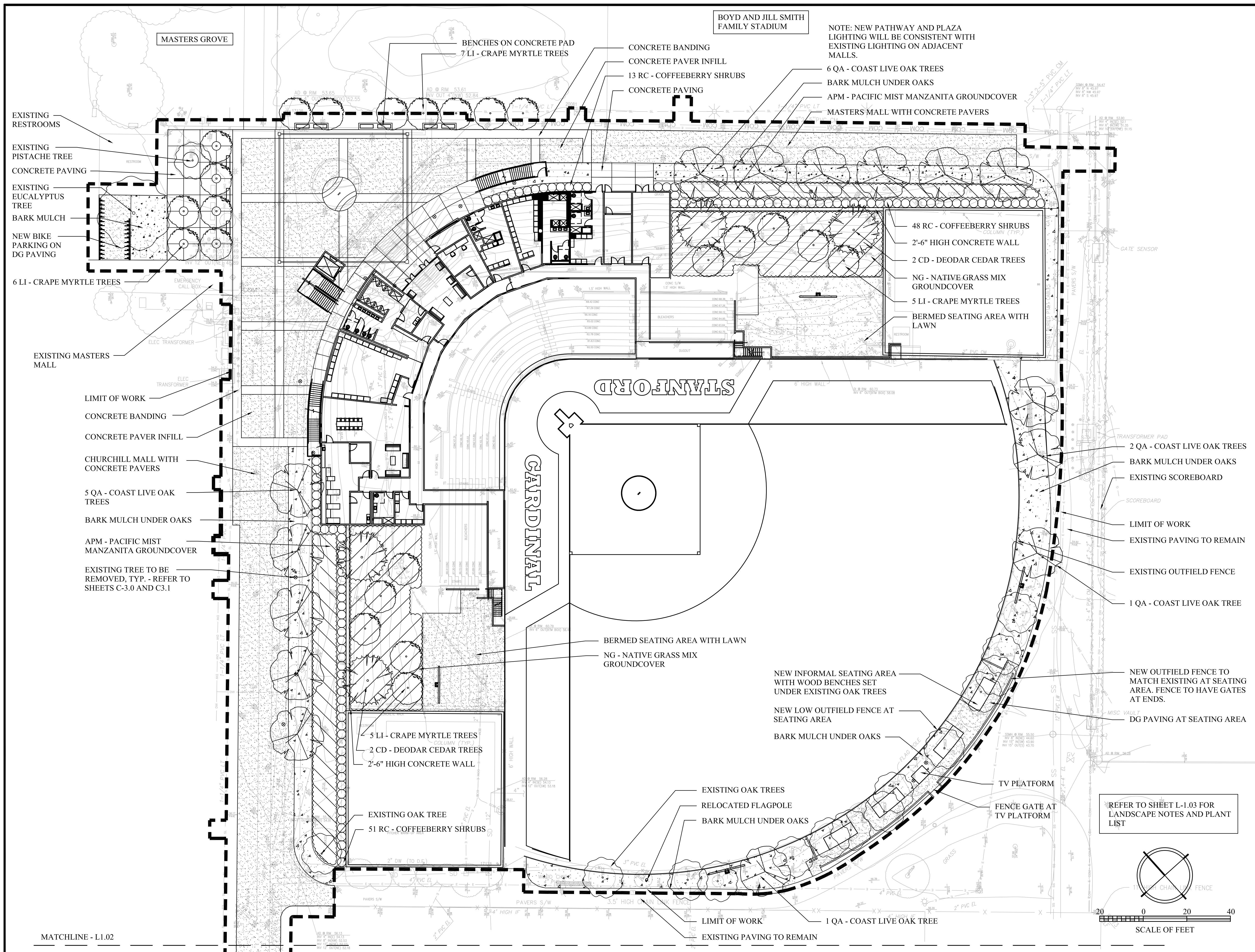
**Stanford Environmental Health & Safety** FIRE MARSHAL'S OFFICE

12/7/2022  
 From: Joe Miller, SUFMO  
 To: Sandy Louie, Project Manager  
 Re: Hydrant Flow Test - Smith Soft ball Stadium

Hydrant Flow Test	
Location	Masters Mall & Churchill Mall
Hydrant ID	2-424-H
Test Date/Time	11/27/2022
Static Pressure	98 psi
Residual Pressure	86 psi
Flow	1258 gpm +/- 50 gpm
Calculated Fire Flow at 20 psi	3644 gpm +/- 500 gpm

Fire Marshal's Office  
 480 Oak Hill, Stanford, CA 94305 T: 650.723.0448 F: 650.725.3468





BOYD AND JILL SMITH  
FAMILY STADIUM

NOTE: NEW PATHWAY AND PLAZA  
LIGHTING WILL BE CONSISTENT WITH  
EXISTING LIGHTING ON ADJACENT  
MALLS.

MASTERS GROVE

BENCHES ON CONCRETE PAD  
7 LI - CRAPE MYRTLE TREES

CONCRETE BANDING  
CONCRETE PAVER INFILL  
13 RC - COFFEEBERRY SHRUBS  
CONCRETE PAVING

6 QA - COAST LIVE OAK TREES  
BARK MULCH UNDER OAKS  
APM - PACIFIC MIST MANZANITA GROUNDCOVER  
MASTERS MALL WITH CONCRETE PAVERS

48 RC - COFFEEBERRY SHRUBS  
COLUMN (TYP.)  
2-6" HIGH CONCRETE WALL  
2 CD - DEODAR CEDAR TREES  
NG - NATIVE GRASS MIX  
GROUNDCOVER  
5 LI - CRAPE MYRTLE TREES  
BERMED SEATING AREA WITH  
LAWN

EXISTING RESTROOMS  
EXISTING PISTACHE TREE  
CONCRETE PAVING  
EXISTING EUCALYPTUS TREE  
BARK MULCH  
NEW BIKE PARKING ON DG PAVING  
6 LI - CRAPE MYRTLE TREES

EXISTING MASTERS MALL

LIMIT OF WORK  
CONCRETE BANDING  
CONCRETE PAVER INFILL  
CHURCHILL MALL WITH CONCRETE PAVERS  
5 QA - COAST LIVE OAK TREES  
BARK MULCH UNDER OAKS  
APM - PACIFIC MIST MANZANITA GROUNDCOVER  
EXISTING TREE TO BE REMOVED, TYP. - REFER TO SHEETS C-3.0 AND C3.1

5 LI - CRAPE MYRTLE TREES  
2 CD - DEODAR CEDAR TREES  
2-6" HIGH CONCRETE WALL

EXISTING OAK TREE  
51 RC - COFFEEBERRY SHRUBS

BERMED SEATING AREA WITH LAWN  
NG - NATIVE GRASS MIX GROUNDCOVER

NEW INFORMAL SEATING AREA WITH WOOD BENCHES SET UNDER EXISTING OAK TREES  
NEW LOW OUTFIELD FENCE AT SEATING AREA  
BARK MULCH UNDER OAKS

EXISTING OAK TREES  
RELOCATED FLAGPOLE  
BARK MULCH UNDER OAKS

TV PLATFORM  
FENCE GATE AT TV PLATFORM

REFER TO SHEET L-1.03 FOR LANDSCAPE NOTES AND PLANT LIST

LIMIT OF WORK  
EXISTING PAVING TO REMAIN  
1 QA - COAST LIVE OAK TREE



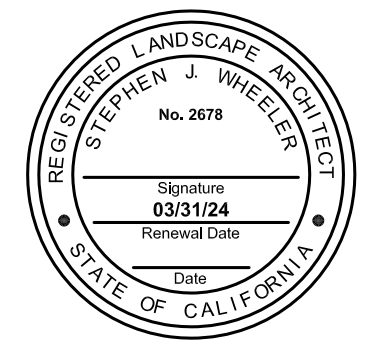
MATCHLINE - L1.02

SOFTBALL STADIUM

STANFORD UNIVERSITY



Stephen Wheeler  
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99 Mississippi Street  
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ISSUES AND REVISIONS	
NO.	DESCRIPTION
02.03.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
XXXX

SHEET TITLE  
LANDSCAPE PLAN

SCALE  
1" = 20'-0"

SHEET NUMBER

L-1.01

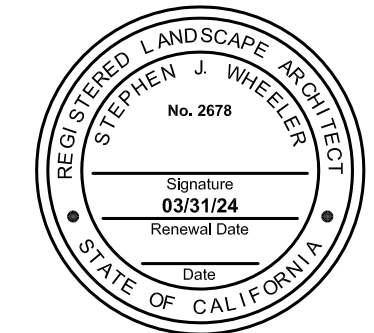


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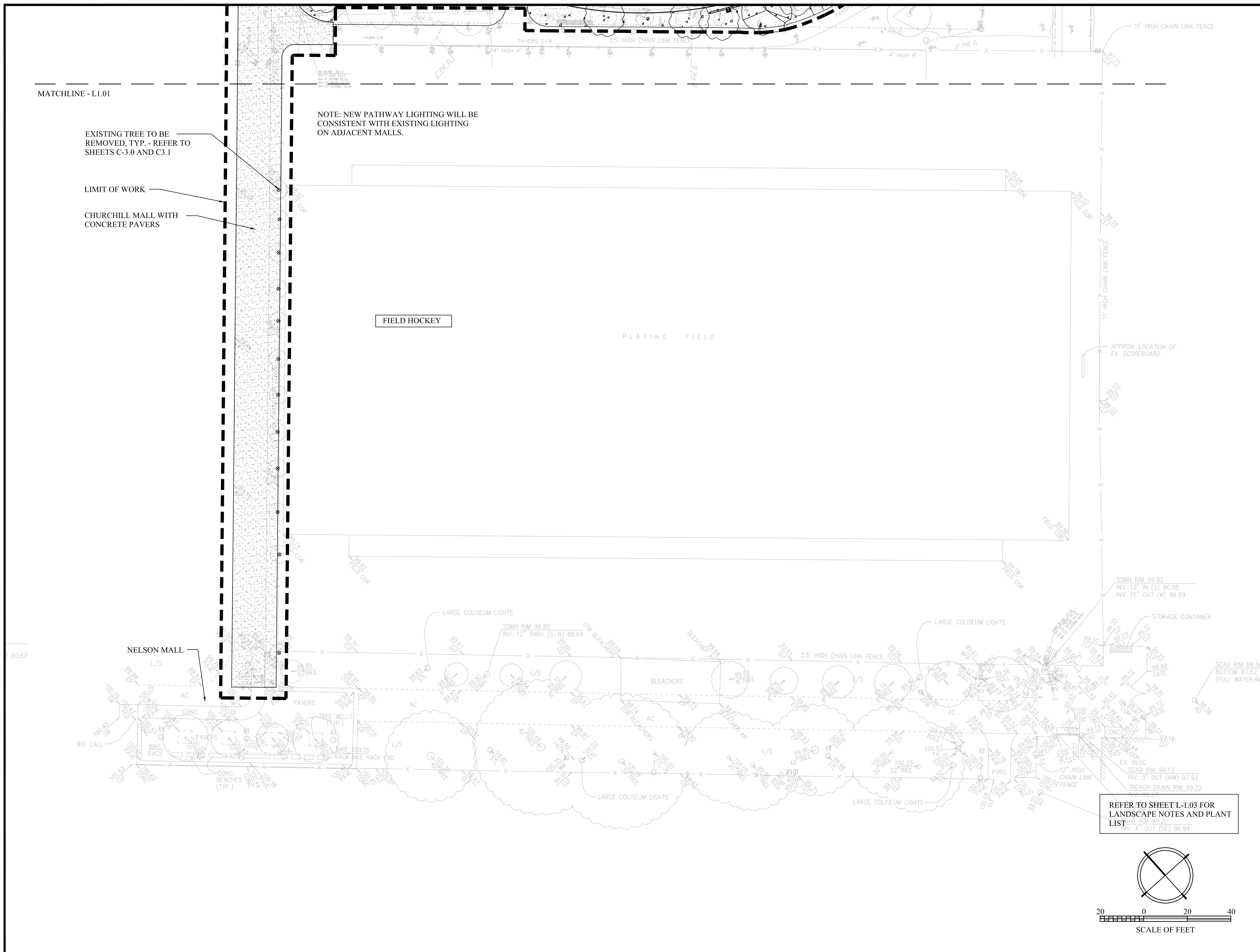
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SHEET TITLE  
LANDSCAPE PLAN

SCALE  
1" = 20'-0"

SHEET NUMBER

L-1.02





LANDSCAPE DESIGN CONCEPT

THE LANDSCAPE DESIGN FOR THE PROJECT CREATES A ENTRY PLAZA FOR THE NEW SOFTBALL STADIUM AND PROVIDES STREETSCAPE CONNECTIONS FROM THE PROJECT SITE TO THE SURROUNDING ATHLETIC FACILITIES. THE NEW ENTRY PLAZA IS DEFINED BY A GRID OF CONCRETE BANDS THAT ARE INFILLED WITH THE COLORED CONCRETE PAVERS THAT ARE USED THROUGHOUT THE ATHLETIC PRECINCT ON CAMPUS. THE PLAZA IS FLANKED BY ROWS OF FLOWERING CRAPE MYRTLE TREES TO CREATE A SENSE OF ENTRY TO THE SPACE FROM THE ADJACENT PEDESTRIAN MALLS. NEW BENCHES, LOCATED UNDER THE TREES AND OUT OF PLAZA FIRE ACCESS ROUTES, WILL PROVIDE SEATING FOR BOTH CASUAL USE AND AT GAME DAY. THE PEDESTRIAN MALLS THAT EDGE THE SITE WILL BE PAVED WITH COLORED CONCRETE PAVERS AND PLANTED WITH COAST LIVE OAK TREES TO CONNECT TO THE EXISTING STREETSCAPE FABRIC. EXISTING LARGE LAWN AREAS WITHIN THE STADIUM WILL BE REPLACED WITH A NATIVE GRASS MIX AND PLANTED WITH CRAPE MYRTLES AND DEODAR CEDARS. SMALL, INFORMAL, BERMED SEATING AREAS BETWEEN THE STADIUM SEATING AND THE BATTING CAGES WILL BE PLANTED WITH LAWN TO FACILITATE USE. A NEW SEATING AREA ALONG THE OUTFIELD FENCE WILL OFFER CASUAL SEATING ON WOOD BENCHES SET UNDER THE EXISTING OAK TREES DURING GAME DAYS. 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 WALTER LEVISON, CONSULTING ARBORIST, FOR TREES TO BE SAVED AND REMOVED.
2. REFER TO TREE PROTECTION AND REMOVAL NOTES ON SHEETS C-3.0 AND 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 GROUND COVER 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

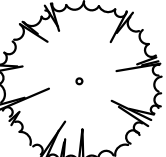
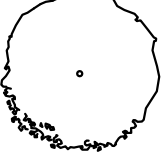

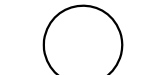

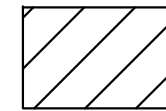
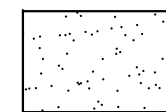
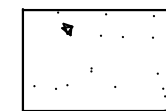
1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A CERTIFIED IRRIGATION DESIGNER TO MEET SANTA CLARA COUNTY AND STANFORD UNIVERSITY REQUIREMENTS AND MAWA STANDARDS.
2. TREES WILL BE IRRIGATED WITH 2 PRESSURE COMPENSATING BUBBLER PER TREE.
3. SHRUBS WILL BE IRRIGATED WITH 1 PRESSURE COMPENSATING BUBBLER PER SHRUB.
4. GROUND COVER AREAS WILL BE WATERED WITH SUBSURFACE DRIPLINE.
5. NATIVE GRASS AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
6. LAWN AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
7. 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	
+/- 11,115 SF	LOW - 75%	TREES, SHRUBS AND GROUND COVER
+/- 3,956 SF	HIGH - 25%	SPECIAL USE LAWN AREA
+/- 15,106 SF	TOTAL AREA	

**BROOKWATER**  
 IRRIGATION CONSULTANTS  
 480 ST. JOHN STREET, SUITE 220  
 PLEASANTON, CALIFORNIA 94566  
 TEL 925.855.0417 FAX 925.855.0357  
 E-MAIL JANET@BROOKWATER.COM

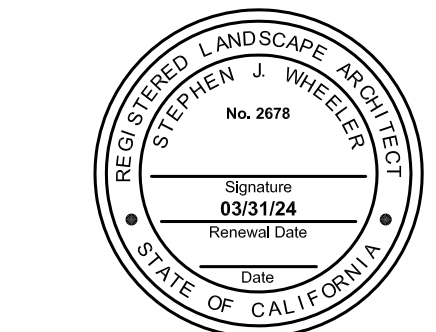
PLANT LIST

KEY	QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USAGE
<u>TREES</u>							
	4	CD	CEDRUS DEODORA	DEODAR CEDAR	36" BOX		L
	23	LI	LAGERSTROEMIA INDICA	CRAPE MYRTLE	36" BOX		L
	15	QA	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX		VL
<u>SHRUBS AND GRASSES</u>							
	99	RC	RHAMNUS CALIFORNICA 'MOUND SAN BRUNO'	COFFEEBERRY	5 GAL	48" O.C.	L
<u>GROUND COVER</u>							
	-	APM	ARCTOSTAPHYLOS 'PACIFIC MIST'	PACIFIC MIST MANZANITA	5 GAL	48" O.C.	L
	-	NG	NATIVE NO MOW GRASS MIX GROUND COVER	SOD			L
	-		LAWN	SOD TO MATCH STANFORD STANDARD			H
	-		BARK MULCH				

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LANDSCAPE NOTES

SCALE

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L-1.03