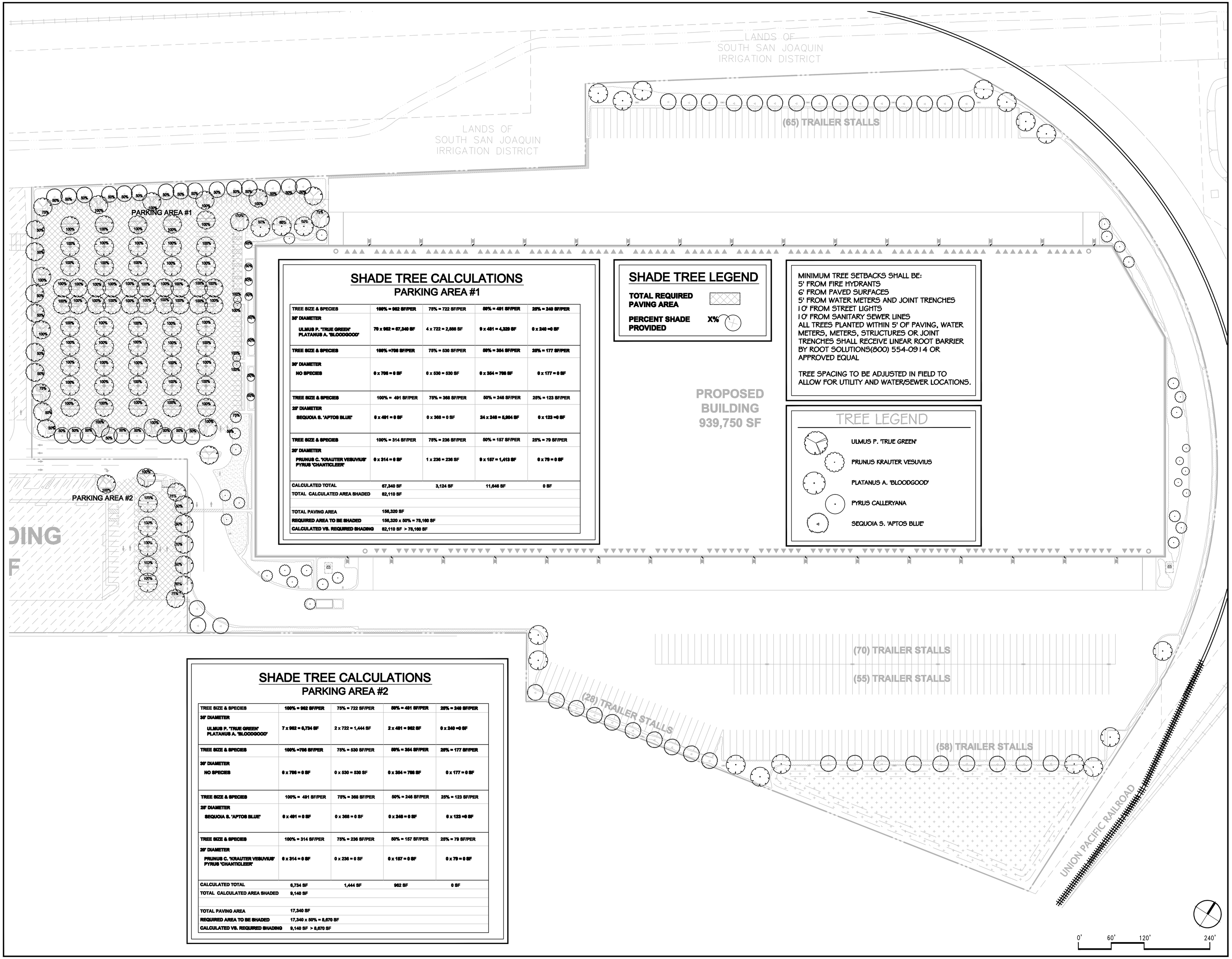
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT



SHADE TREE CALCULATIONS
PARKING AREA #1

TREE SIZE & SPECIES	100% = 962 SF/PER	75% = 722 SF/PER	50% = 481 SF/PER	25% = 240 SF/PER
30' DIAMETER ULMUS P. 'TRUE GREEN' PLATANUS A. 'BLOODGOOD'	70 x 962 = 67,340 SF	4 x 722 = 2,888 SF	9 x 481 = 4,329 SF	0 x 240 =0 SF
TREE SIZE & SPECIES	100% =706 SF/PER	75% = 530 SF/PER	50% = 354 SF/PER	25% = 177 SF/PER
30' DIAMETER NO SPECIES	0 x 706 = 0 SF	0 x 530 = 530 SF	0 x 354 = 706 SF	0 x 177 = 0 SF
TREE SIZE & SPECIES	100% = 491 SF/PER	75% = 368 SF/PER	50% = 246 SF/PER	25% = 123 SF/PER
25' DIAMETER SEQUOIA S. 'APTOS BLUE'	0 x 491 = 0 SF	0 x 368 = 0 SF	24 x 246 = 5,904 SF	0 x 123 =0 SF
TREE SIZE & SPECIES	100% = 314 SF/PER	75% = 236 SF/PER	50% = 157 SF/PER	25% = 79 SF/PER
20' DIAMETER PRUNUS C. 'KRAUTER VESUVIUS' PYRUS 'CHANTICLEER'	0 x 314 = 0 SF	1 x 236 = 236 SF	9 x 157 = 1,413 SF	0 x 79 = 0 SF
CALCULATED TOTAL	67,340 SF	3,124 SF	11,646 SF	0 SF
TOTAL CALCULATED AREA SHADED	82,110 SF			
TOTAL PAVING AREA	156,320 SF			
REQUIRED AREA TO BE SHADED	156,320 x 50% = 78,160 SF			
CALCULATED VS. REQUIRED SHADING	82,110 SF > 78,160 SF			

SHADE TREE LEGEND

TOTAL REQUIRED PAVING AREA

PERCENT SHADE PROVIDED X%

MINIMUM TREE SETBACKS SHALL BE:
5' FROM FIRE HYDRANTS
6' FROM PAVED SURFACES
5' FROM WATER METERS AND JOINT TRENCHES
10' FROM STREET LIGHTS
10' FROM SANITARY SEWER LINES
ALL TREES PLANTED WITHIN 5' OF PAVING, WATER METERS, METERS, STRUCTURES OR JOINT TRENCHES SHALL RECEIVE LINEAR ROOT BARRIER BY ROOT SOLUTIONS(800) 554-0914 OR APPROVED EQUAL

TREE SPACING TO BE ADJUSTED IN FIELD TO ALLOW FOR UTILITY AND WATER/SEWER LOCATIONS.

TREE LEGEND

- ULMUS P. 'TRUE GREEN'
- PRUNUS KRAUTER VESUVIUS
- PLATANUS A. 'BLOODGOOD'
- PYRUS CALLERYANA
- SEQUOIA S. 'APTOS BLUE'

SHADE TREE CALCULATIONS
PARKING AREA #2

TREE SIZE & SPECIES	100% = 962 SF/PER	75% = 722 SF/PER	50% = 481 SF/PER	25% = 240 SF/PER
30' DIAMETER ULMUS P. 'TRUE GREEN' PLATANUS A. 'BLOODGOOD'	7 x 962 = 6,734 SF	2 x 722 = 1,444 SF	2 x 481 = 962 SF	0 x 240 =0 SF
TREE SIZE & SPECIES	100% =706 SF/PER	75% = 530 SF/PER	50% = 354 SF/PER	25% = 177 SF/PER
30' DIAMETER NO SPECIES	0 x 706 = 0 SF	0 x 530 = 530 SF	0 x 354 = 706 SF	0 x 177 = 0 SF
TREE SIZE & SPECIES	100% = 491 SF/PER	75% = 368 SF/PER	50% = 246 SF/PER	25% = 123 SF/PER
25' DIAMETER SEQUOIA S. 'APTOS BLUE'	0 x 491 = 0 SF	0 x 368 = 0 SF	0 x 246 = 0 SF	0 x 123 =0 SF
TREE SIZE & SPECIES	100% = 314 SF/PER	75% = 236 SF/PER	50% = 157 SF/PER	25% = 79 SF/PER
20' DIAMETER PRUNUS C. 'KRAUTER VESUVIUS' PYRUS 'CHANTICLEER'	0 x 314 = 0 SF	0 x 236 = 0 SF	0 x 157 = 0 SF	0 x 79 = 0 SF
CALCULATED TOTAL	6,734 SF	1,444 SF	962 SF	0 SF
TOTAL CALCULATED AREA SHADED	9,140 SF			
TOTAL PAVING AREA	17,340 SF			
REQUIRED AREA TO BE SHADED	17,340 x 50% = 8,670 SF			
CALCULATED VS. REQUIRED SHADING	9,140 SF > 8,670 SF			

architecture
planning
landscape
graphics

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LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA — Craig A. Calla — No. 2167 — Signature — Registration Date — Seal

PACIFIC BUSINESS CENTER
LOUISE AVENUE
MANTECA, CALIFORNIA

SHADE CALCULATIONS

DATE	REMARKS
02-03-12	SUBMITTAL

DATE	REMARKS

PA / PM:	PN
DRAWN BY:	AL
JOB NO.:	SNR-0027-00

SHEET
L-2

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