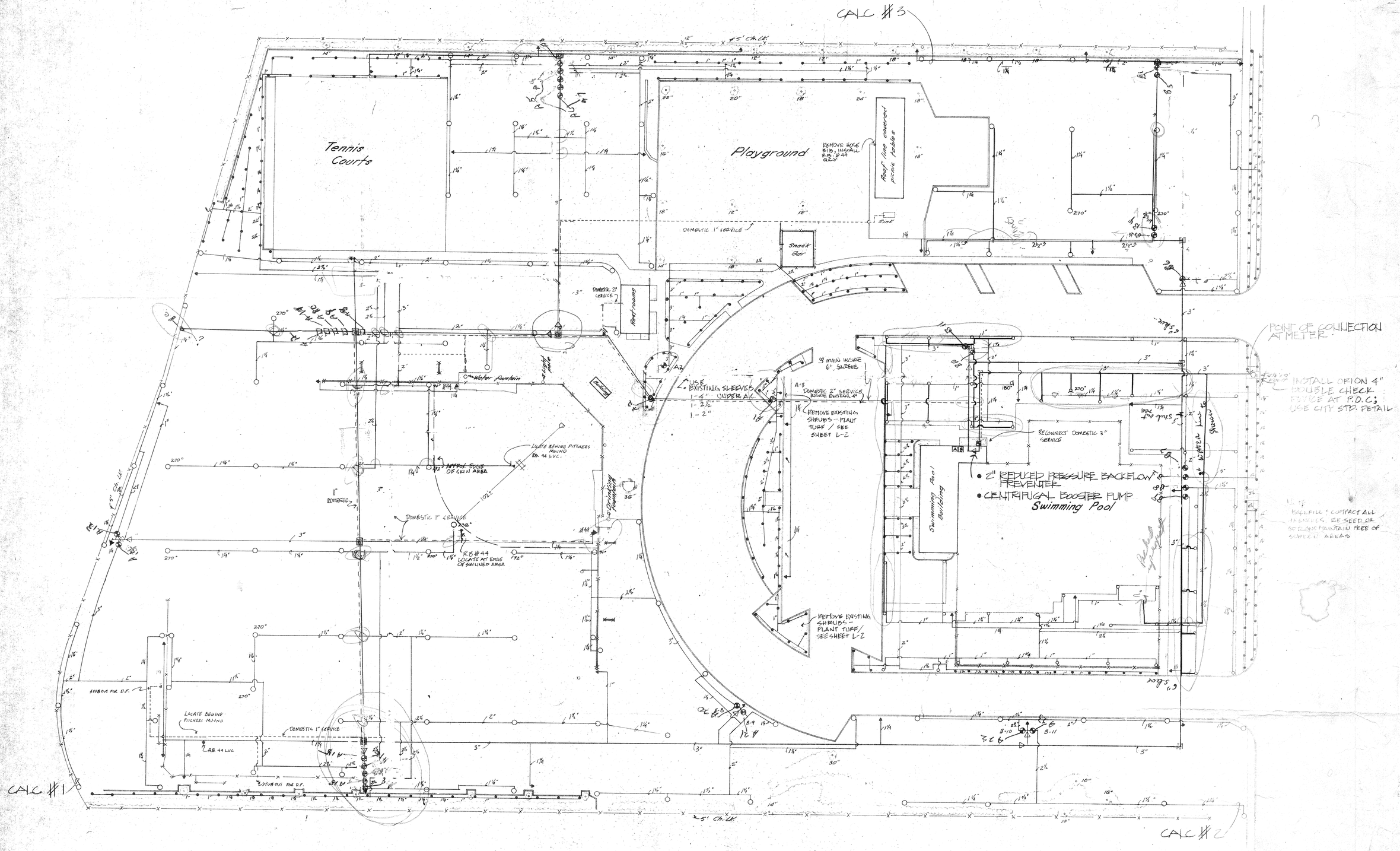


CALC #1

GPM = 105 STATIC = 65.0

METER		3.0
RP		12.0
MAIN		< 4.2
VALVE		5.5
LATERALS	3"	3.69
	2½"	—
	2"	.24
	1½"	.89
	1¼"	1.0
		30.52
65 − 30.52 =		34.48
PUMP DEMAND 105 GPM AT		25 PSI
PRESSURE AT HEAD		59.48 PSI

CALC #2

GPM = 87.5 STATIC = 65.0

METER			2.0
RP			11.0
MAIN			< 4.2
VALVE			3.75
LATERALS	3"		
	2½"	50'	.74
	2"		—
	1½"	75'	2.07
	1¼"	60'	.74
			24.5
65 − 24.5 =			40.5
PUMP DEMAND 88 GPM AT			20 PSI
PRESSURE AT HEAD			60.5 PSI

CALC #3

GPM = 87.5 STATIC = 65.0

METER		2.0
RP		11.0
MAIN		< 4.2
VALVE		3.75
LATERALS	3"	.54
	2½"	4.29
	2"	1.44
	1½"	1.48
	1¼"	1.0
		29.7
65 − 29.7 =		35.3
PUMP DEMAND 88 GPM AT		25 PSI
PRESSURE AT HEAD		60.3 PSI

SYM.	TYPE	MFGR.	MODEL NO.	NOZZLE	ARC	GPM	PSI	NOTES
●	SPRAY	RAINBIRD	171E-HP	14'	90°-360°	1.6-3.8	30	2 3/16" POP UPS
○	ROTOR	TORO	62X-00-XX	24-25-26	90°-360°	3.0-9.0	50	90° = 24 NOZ., 180° = 25 NOZ., 360° = 26 NOZ.
◯	"	THOMPSON	186-S-X-RCFC	# S	90°-360°	16.0	50	USE SPECIAL ANGLES AS NOTED, SEE SPEC'S.
◐	VALVE	"	216-06-08	ELECTRIC - 24 VAC				2" BRASS GLOBE VALVE
◑	QC VALVE	RAINBIRD	R.B. 33 LVC	QUICK COUPLING VALVE				LOCKING W/VINYL COVER
⊣⊢	MAN. VALVE	—	GATE OR BALL VALVE - ISOLATION VALVE					USE SAME SIZE AS LINE, BRASS
⊣⊢	PUMP		CLOSE COUPLED CENTRIFUGAL PUMP/PERFORMANCE = 105 GPM AT 25 PSI					
⊣⊢	BACKFLOW	ORION	#9-2929	2" REDUCED PRESSURE BACKFLOW PREVENTER				
⊣⊢	THRUST BLK		THRUST BLOCKS TO BE INSTALLED AT SPECIFIED LOCATIONS					
A B	CONTROLLER	TORO	A = 179-56-01 B = 176-06-01 (INSTALL 23 STATION IN WALL TYPE CONTROLLER BOX)					

ALL LATERALS SHALL BE P.V.C. CLASS 200/UNMARKED. LATERALS SHALL BE SIZED 3/4"
ALL MAINS SHALL BE: P.V.C. SCH. 40 FOR LINES 1" THROUGH 2"
P.V.C. CLASS 315 FOR LINES 2½" THROUGH 3"
ALL VALVE BOXES SHALL BE INSTALLED AT MIN. 3' APART
NOTE EXISTING TREES ON SHEET R-3
ALL PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL

north

PLAN # P-0003

Revisions: 10/19/81 DJM

Design, plans and specifications in this drawing shall not be used or reproduced in whole or in part for any other project.

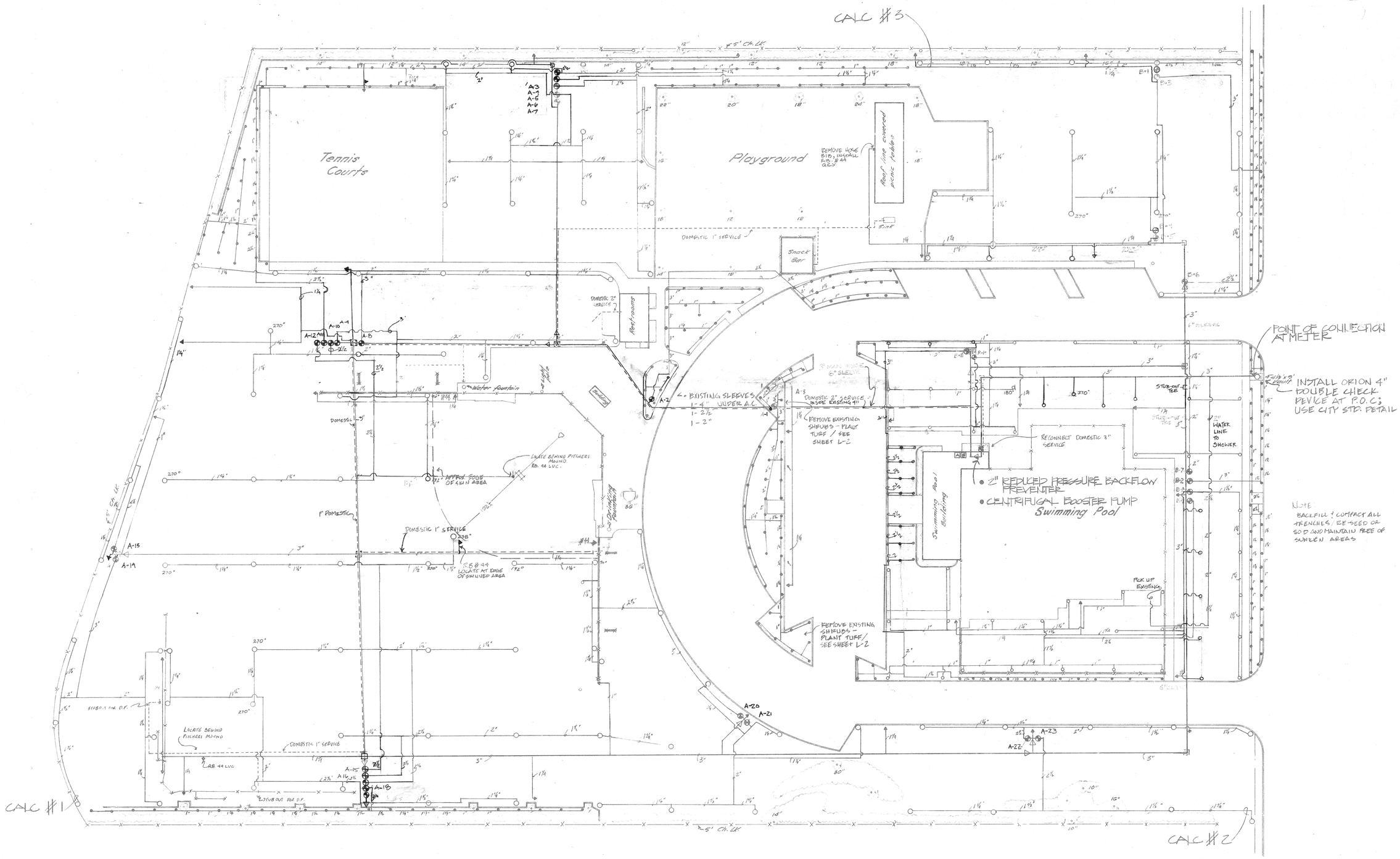
Copyright © 1981 All Rights Reserved A. James Montgomery, Landscape Architect

A. James Montgomery
LANDSCAPE ARCHITECT
2817 Ronald St. Riverside, Ca. 92506 (714)686-6645

SHAMEL PARK
RIVERSIDE, CA.

Irrigation

Drn. by: DJM
Date: 6-24-81
Scale: 1=30
Page: I-5



CALC #1

GPM = 105 STATIC = 65.0

METER		3.0
RP		12.0
MAIN		< 4.2
VALVE		5.5
LATERALS	3"	3.69
	2½"	—
	2"	.24
	1½"	.89
	1¼"	1.0
		30.52
65 - 30.52 =		34.48

PUMP DEMAND 105 GPM AT 25 PSI
PRESSURE AT HEAD 59.48 PSI

CALC #2

GPM = 87.5 STATIC = 65.0

METER			2.0
RP			11.0
MAIN			< 4.2
VALVE			3.75
LATERALS	3"		
	2½"	50'	.74
	2"		
	1½"	75'	2.07
	1¼"	60'	.74
			24.5
65 - 24.5 =			40.5

PUMP DEMAND 88 GPM AT 20 PSI
PRESSURE AT HEAD 60.5 PSI

CALC #3

GPM = 87.3 STATIC = 65.0

METER		2.0
RP		11.0
MAIN		< 4.2
VALVE		5.75
LATERALS	3"	.54
	2½"	4.29
	2"	1.44
	1½"	1.48
	1¼"	1.0
		29.7
65 - 29.7 =		35.3

PUMP DEMAND 88 GPM AT 25 PSI
PRESSURE AT HEAD 60.3 PSI

SYM.	TYPE	MFGR.	MODEL NO.	NOZZLE	ARC	GPM	PSI	NOTES	DETAIL	PG
●	SPRAY	RAINBIRD	171E-HP	14'	90-360	1.6-3.8	30	2½" POP UPS	#1	1.6
○	ROTOR	TORO	6ZX-00-XX	24-28-26	90-360	3.0-9.0	50	90°-2# NOZ., 180°=2# NOZ., 360°=2.6 NOZ.	#2	
◇	"	THOMPSON	186-S-V-RCP	# 5	90-360	1.6 0	50	USE SPECIAL ANGLES AS NOTED, SEE SPEC'S.	#3	
◆	VALVE		216-06-08	R.B. 33 LVC	ELECTRIC - 24 VAC.			2" BRASS GLOBE VALVE	#4	
◆	2" VALVE	RAINBIRD		QUICK COUPLING VALVE				LOCKING W/VINYL COVER	#5	
◆	MAN. VALVE			GATE OR BALL VALVE - ISOLATION VALVE				LIKE SAME SIZE AS LINE, BRASS	#6	
◆	PUMP			CLOSE COUPLED CENTRIFUGAL PUMP/PERFORMANCE = 105 GPM AT 25 PSI						
◆	BACKFLOW PREVENTER	ORION	#19-2929	2" REDUCED PRESSURE BACKFLOW PREVENTER					#7	
◆	THRUST BLK.			THRUST BLOCKS TO BE INSTALLED AT SPECIFIED LOCATIONS					#8	
◆	CONTROLLER	TORO		① = 179-56-01 ② = 176-06-01 (INSTALL 23 STATION IN WALL TYPE CONTROLLER BOX)					#9	
				ALL LATERALS SHALL BE P.V.C. CLASS 200/UNMARKED LATERALS SHALL BE SIZED 3/4"					#3	
				ALL MAINS SHALL BE: P.V.C. SCH. 40 FOR LINES 1" THROUGH 2"						
				P.V.C. CLASS 315 FOR LINES 2½" THROUGH 3"						
				ALL VALVE BOXES SHALL BE INSTALLED AT MIN. 3' APART						
				NOTE EXISTING TREES ON SHEET L-3						
				ALL PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL						

north

NOTE ON AS-BUILT:
1) INFORMATION ON CHANGES IN SYSTEM DESIGN & DIFFERENCES BETWEEN ORIGINAL PLAN & AS-BUILTS WERE RECEIVED IN ROUGH FORM FROM CONTRACTOR HIRED BY CITY

2) TO RESOLVE CONFLICTS BETWEEN ORIGINAL DESIGN & SYSTEM AS INSTALLED & HERE NOTED CONTACT IRRIGATION CONTRACTOR - J.D. BURKSON (714) 788-1226 PLANT P-0003

REGISTERED LANDSCAPE ARCHITECT James Montgomery 6-28-81 STATE OF CALIFORNIA

Revisions / Updates

Design plans and specifications are instruments of service and shall not be used in part or whole on any other project.

A. James Montgomery
LANDSCAPE ARCHITECT
2817 Ronald St. Riverside, Ca. 92506 (714) 686-6645

SHAMEL PARK
RIVERSIDE, CA.

As-Built Irrigation

Drn. by: PJM
Date: 6-24-81
Scale: 1=30
Page: L-7