



Riverland Irrigation Services

Independent Water Experts

DESIGN | SUPPLY | INSTALLATION | MAINTENANCE

1. THIS DRAWING IS INTENDED FOR HYDRAULIC PRESENTATION PURPOSES ONLY. IT IS NOT TO BE USED AS A SURVEY DRAWING.
2. VACUUM BREAKERS ON COLLECTION MANIFOLDS ARE TO BE INSTALLED ON ALL SUBSURFACE SYSTEMS.

John Andrew

Virgo Rd

2022 Drip Irrigation

TH02-Andrew_J-Virgo_Rd_RevA

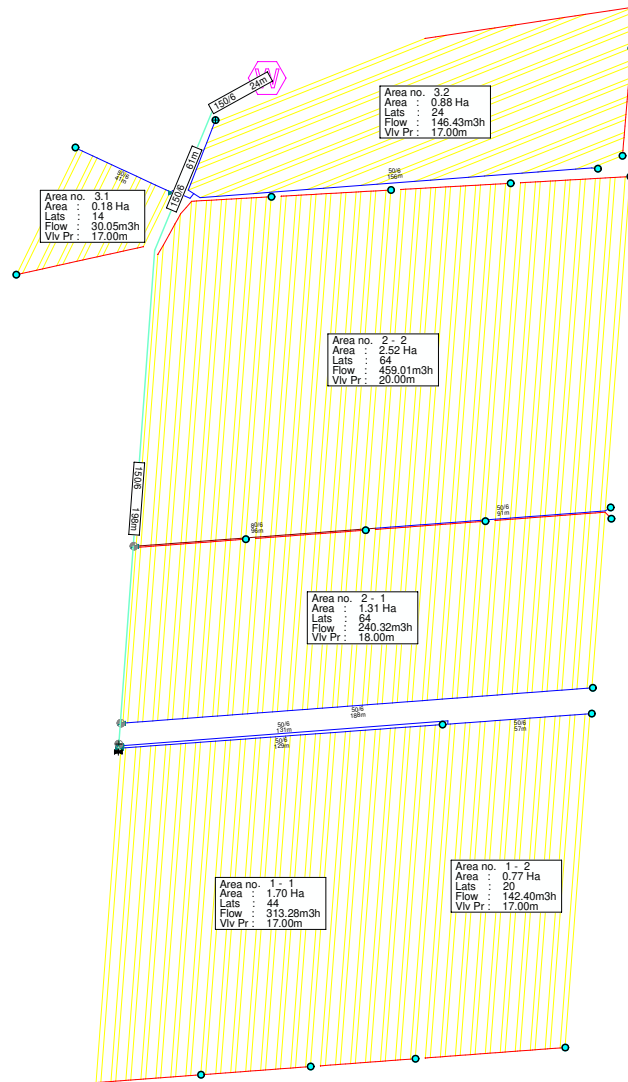
Date: 16/08/2022 Designer: TH Scale: 1 : 1000

Pipe key

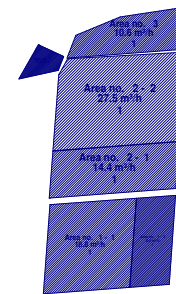
- Uniram 20012 AS 1.6 lph @ 0.5m
- 50mm PVC Class 6
- Flushing Manifold - 50mm PVC Class 6
- 80mm PVC Class 9
- 80mm PVC Class 6
- 150mm PVC Class 6

Sprinkler / Valve key

- 50mm Dorot PR 3/Way 75 Series BSP
- 50mm Ball/Flush Valve
- Filter
- 100mm Wafer Butterfly Valve c/w Lever
- Water Supply



Valve Table						
Zone Name	Area (Ha)	Valve	Flow (m3/h)	Reg Pressure (m)	Min Pressure (m)	Max Pressure (m)
Area no. 1- 1	1.70	50mm D	18.8	17.0	12.3	17.0
Area no. 1- 2	0.77	50mm D	8.5	17.0	12.8	14.0
Area no. 2- 1	1.31	50mm D	14.4	18.0	12.8	18.0
Area no. 2- 2	2.52	50mm D	27.5	20.0	12.8	20.0
Area no. 3	1.06	50mm D	10.6	17.0	12.8	18.1
Total Area:	7.37					2022 Drip Irrigation



IRRIGATION DATA TABLE		
Description	Units	
Crop		Citrus
Irrigation Area (Net)	Ha	7.37
Row Beds Spacing	Mt.	5.90
Plant Spacing	Mt.	-
Irrigation System		Drip
Emitter Type		Uniram AS
Minimum Emitter Pressure	Mt.	12.50
Emitter Discharge	L/h	1.60
Emitter Spacing	Mt.	0.50
Laterals Average Spacing	Mt.	5.90
No. of Laterals per RowBed	No.	2
Application Rate	mm/h	1.58
Max. Daily Consumption	mm/day	20.00
Irrigation Cycle	Days	1
Duration of one Operation	Hrs.	18.44
Number of Operations	No.	1
Max. Daily Operation Duration	Hrs.	18.44
Available Daily Duration	Hrs.	24
Max. Flow Variation	%	-
Mainline Flexibility		High
Capacity (Including Backflow Requirements)		
Maximum Discharge Required	m3/h	79.28
Maximum Discharge Required	lps	22.02
Required Pressure at Water Source	Mt.	39.28
Required Pressure after Filtration	Mt.	34.28
Assumed Water RL:	Mt.	0.00

** A maximum of 26 mm can be applied in 24 hours.