

Irrigation

Qty	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
1	●	Rain Bird 10F - PROS-04	10F	30 psi	1.58 gpm	10 ft
11	●	Rain Bird 10H - PROS-04	10H	30 psi	0.79 gpm	10 ft
2	●	Rain Bird 10Q - PROS-04	10Q	30 psi	0.39 gpm	10 ft
16	●	Rain Bird 12F - PROS-04	12F	30 psi	2.6 gpm	12 ft
43	●	Rain Bird 12H - PROS-04	12H	30 psi	1.3 gpm	12 ft
4	●	Rain Bird 12Q - PROS-04	12Q	30 psi	0.65 gpm	12 ft
3	●	Rain Bird 12T - PROS-04	12T	30 psi	0.87 gpm	12 ft
4	●	Rain Bird 15EST - PROS-04	15EST	30 psi	0.61 gpm	15 x 4 ft
2	●	Rain Bird 15F - PROS-04	15F	30 psi	3.7 gpm	15 ft
30	●	Rain Bird 15H - PROS-04	15H	30 psi	1.85 gpm	15 ft
8	●	Rain Bird 15Q - PROS-04	15Q	30 psi	0.92 gpm	15 ft
30	●	Rain Bird 15SST - PROS-04	15SST	30 psi	1.21 gpm	30 x 4 ft
1	●	Rain Bird 15TQ - PROS-04	15TQ	30 psi	2.78 gpm	15 ft
9	●	Rain Bird 4-VAN 180 - PROS-04	4-VAN	30 psi	0.45 gpm	4 ft
5	●	Rain Bird 5000 Series 1.5 - 5004-PL-PC-2.0	1.5	45 psi	1.54 gpm	35 ft
4	●	Rain Bird 5000 Series 2.0 - 5004-PL-PC-2.0	2.0	45 psi	2.07 gpm	37 ft
1	●	Rain Bird 5000 Series 3.0 - 5004-PL-FC	3.0	45 psi	3.09 gpm	40 ft
7	●	Rain Bird 5H - PROS-04	5H	30 psi	0.2 gpm	5 ft
3	●	Rain Bird 5Q - PROS-04	5Q	30 psi	0.1 gpm	5 ft
1	●	Rain Bird 6-VAN 90 - PROS-04	6-VAN	30 psi	0.37 gpm	6 ft
18	●	Rain Bird 8H - PROS-04	8H	30 psi	0.52 gpm	8 ft
13	●	Rain Bird 8Q - PROS-04	8Q	30 psi	0.26 gpm	8 ft
1	●	Rain Bird 8T - PROS-04	8T	30 psi	0.35 gpm	8 ft

Water Source	
1	1 1/2 inch meter

Backflow Devices	
1	Febco 765 - 1 1/2"

Control Valves	
4	Rain Bird 100-DVF-SS
6	Rain Bird 150-PGA Angle

Irrigation Accessories	
1	Hunter MINI-CLIK
1	Hunter PC-1200

Lateral Line Pipe	
1862.86 ft	Class 315 1/2"
526.25 ft	Class 200 3/4"
358.85 ft	Class 200 1"
227.75 ft	Class 200 1 1/4"
36.43 ft	Class 200 1 1/2"
21.75 ft	Class 200 2"

Mainline Pipe	
489.59 ft	Schedule 40 2"

Sleeving	
168.14 ft	Schedule 40 4"

Run Set: 1	
Water Source #1	
Type	Meter
Static Pressure	65 psi
Service Line	0.089 psi
Meter Loss	2.352 psi

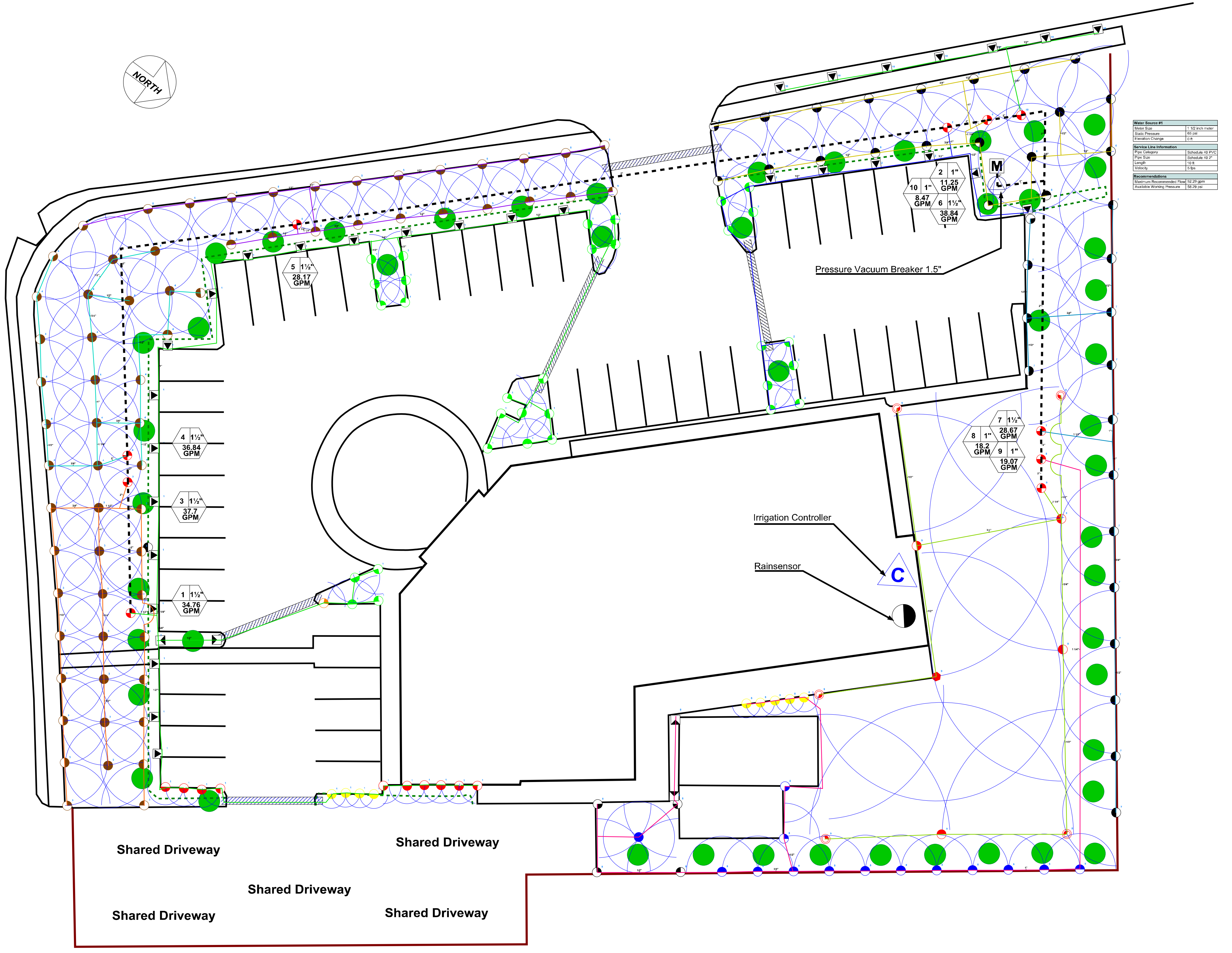
Mainline Components	
Backflow Loss	2.5 psi
Master Valve Loss	0 psi
Filter Loss	0 psi

Zone 1 @ 34.76 gpm	
Mainline Loss	3.58 psi
Valve Loss	1.633 psi
Lateral Loss	6.785 psi
Fittings Loss	1.037 psi
Elevation	0 psi
Sprinkler Requirement	30 psi
Total Design Pressure	46.943 psi
Residual Pressure	18.057 psi

Run Set: 9	
Water Source #1	
Type	Meter
Static Pressure	65 psi
Service Line	0.029 psi
Meter Loss	0.834 psi

Mainline Components	
Backflow Loss	2.5 psi
Master Valve Loss	0 psi
Filter Loss	0 psi

Zone 9 @ 19.07 gpm	
Mainline Loss	0.31 psi
Valve Loss	4.06 psi
Lateral Loss	4.319 psi
Fittings Loss	0.463 psi
Elevation	0 psi
Sprinkler Requirement	45 psi
Total Design Pressure	57.051 psi
Residual Pressure	7.949 psi



Water Source #1	
Meter Size	1 1/2 inch meter
Static Pressure	65 psi
Elevation Change	0 ft
Service Line Information	
Pipe Category	Schedule 40 PC
Pipe Size	Schedule 40 2"
Length	15.8 ft
Velocity	8.5 ft/s
Recommendations	
Minimum Recommended Flow	12.25 gpm
Available Working Pressure	58.29 psi

REVISIONS: None
DATE: 8 July 10
JOB NUMBER: 4
DRAWN BY: Daniel Todd
CHECKED BY: Alex
SCALE: 1" = 16'
SHEET: 1 of 1

PROJECT:
 Discovery School House
 Cinco Ranch
 Katy, Texas

SHEET DESCRIPTION:
 Irrigation Design

Creative Landscape & Irr
 Alex Argueta
 281-734-3161