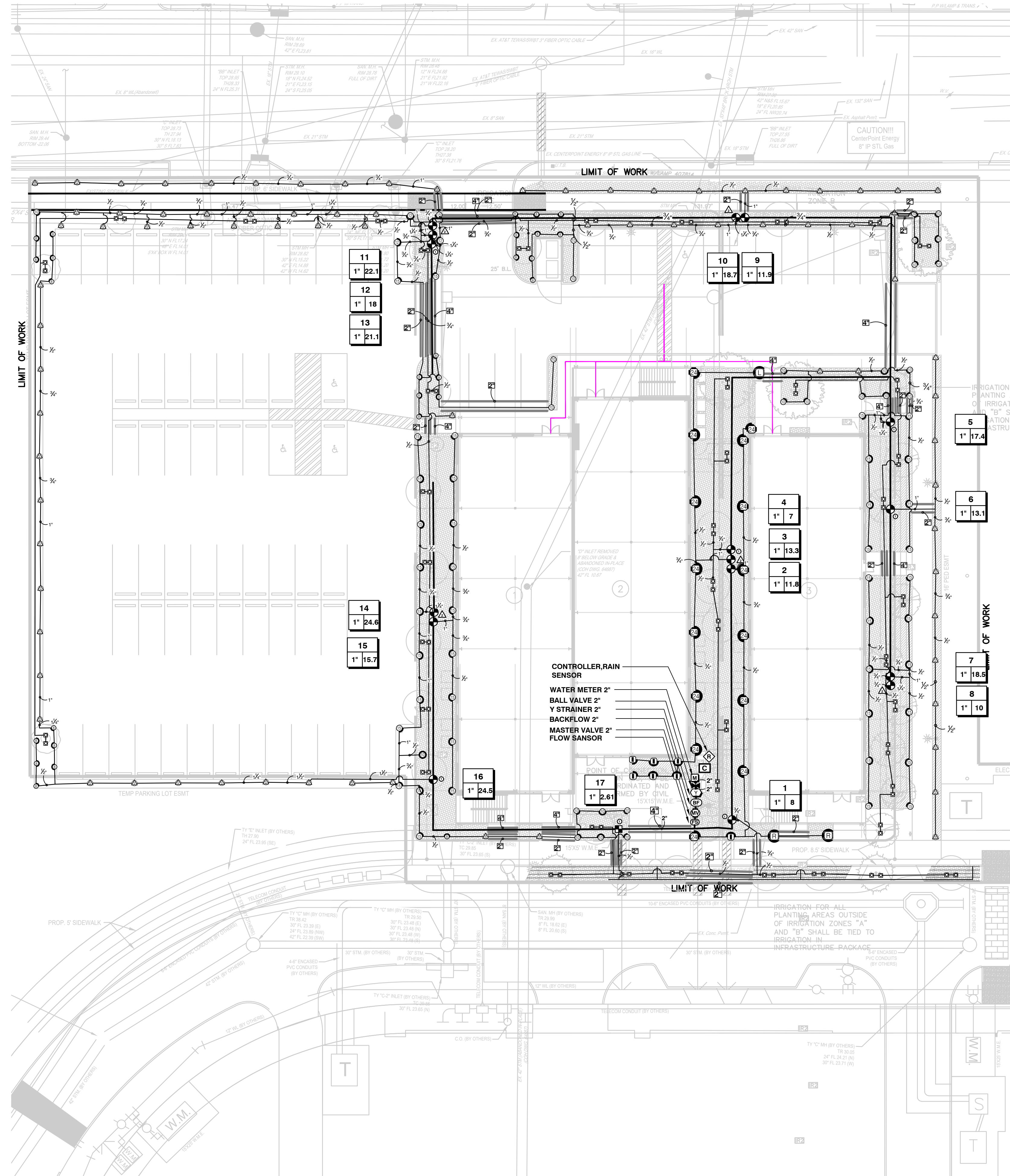




IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	Rain Bird 1804 15 Strip Series	82
	Rain Bird 1804 8 Series MPR	27
	Rain Bird 1804 10 Series MPR	26
	Rain Bird 1804 12 Series MPR	3
	Rain Bird 1804 15 Series MPR	43
	Rain Bird R-VAN-STRIP 1804-SAM-P45	3
	Rain Bird R-VAN14 1804-SAM-P45	7
	Rain Bird R-VAN24 1804-SAM-P45	15
	Rain Bird 1804-1400 Flood -1400	86
	Rain Bird XCZ-100-PRF 1"	1
	Area to Receive Dripline	390.0 l.f.
	Rain Bird XFD-06-18	1
	Rain Bird PGA Globe 1"	16
	Shut Off Valve 2"	1
	Febco 825Y 2"	1
	Rain Bird ESP-LXD-LXMMSS-LXMMSPED	1
	Rain Bird FD-101TURF	7
	Rain Bird FD-202TURF	5
	Rain Bird WR2-RFS	1
	Rain Bird UFS-100	1
	Y-Strainer 2"	1
	Water Meter 2"	1
	Irrigation Lateral Line: PVC Class 200 SDR 21 1/2"	3,170 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	565.1 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	280.6 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	176.4 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	57.7 l.f.
	Irrigation Mainline: PVC Schedule 40 2"	862.2 l.f.
	Pipe Sleeve: PVC Schedule 40 2"	289.5 l.f.
	Pipe Sleeve: PVC Schedule 40 4"	145.9 l.f.
	Valve Callout	
	Valve Number	
	Valve Flow	
	Valve Size	

VALVE_SCHEDULE

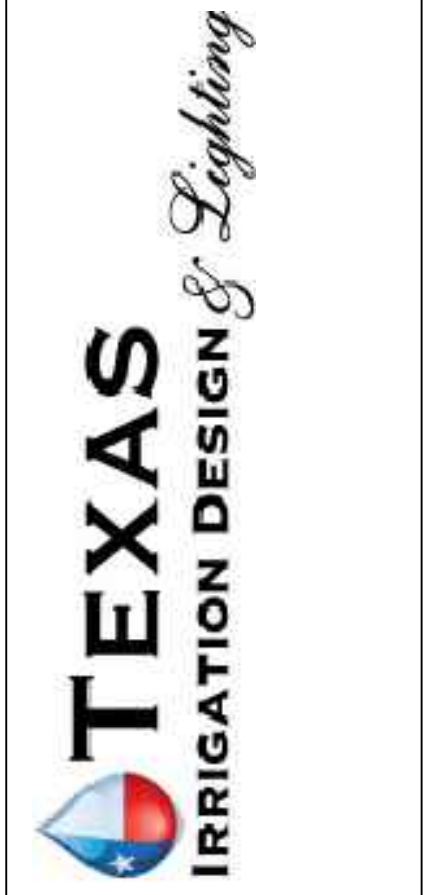
NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	WIRE	DESIGN PSI	FRICTION LOSS	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	Rain Bird PGA Globe	1"	Bubbler	8	16	187.5	39.2	30	2.31	5.74	38.0		2.1 in/h
2	Rain Bird PGA Globe	1"	Turf Rotary	11.83	11	201.1	125.9	40	2.69	5.92	48.6		0.32 in/h
3	Rain Bird PGA Globe	1"	Turf Rotary	13.3	14	219.9	129.1	40	2.79	5.93	48.7		0.38 in/h
4	Rain Bird PGA Globe	1"	Bubbler	7	14	168.7	132.5	30	1.3	5.66	37.0		2.14 in/h
5	Rain Bird PGA Globe	1"	Turf Spray	17.42	18	220.1	262.0	30	1.92	5.97	37.9		1.39 in/h
6	Rain Bird PGA Globe	1"	Turf Spray	13.08	12	183.2	292.1	30	3.46	5.93	39.4		1.74 in/h
7	Rain Bird PGA Globe	1"	Turf Spray	18.48	12	182.9	349.9	30	1.9	5.98	37.9		1.37 in/h
8	Rain Bird PGA Globe	1"	Bubbler	10	20	222.6	353.0	30	3.45	5.98	39.4		2.13 in/h
9	Rain Bird PGA Globe	1"	Turf Spray	11.87	11	153.5	352.0	30	2.14	5.92	38.1		1.86 in/h
10	Rain Bird PGA Globe	1"	Turf Spray	18.72	26	282.8	355.1	30	2.58	5.99	38.6		1.26 in/h
11	Rain Bird PGA Globe	1"	Turf Spray	22.09	20	202.8	322.1	30	3.72	6.08	39.8		1.82 in/h
12	Rain Bird PGA Globe	1"	Bubbler	18	36	731.5	318.9	30	4.85	5.98	40.8		2.19 in/h
13	Rain Bird PGA Globe	1"	Turf Spray	21.08	24	359.5	315.8	30	4.19	6.04	40.2		1.22 in/h
14	Rain Bird PGA Globe	1"	Turf Spray	24.55	23	292.1	188.7	30	5.74	6.18	41.9		0.92 in/h
15	Rain Bird PGA Globe	1"	Turf Spray	15.72	9	130.4	185.3	30	2.2	5.96	38.2		0.78 in/h
16	Rain Bird PGA Globe	1"	Turf Spray	24.47	26	356.0	130.9	30	5.47	6.18	41.6		1.82 in/h
17	Rain Bird XCZ-100-PRF Common Wire	1"	Area for Dripline	2.61	390.0 l.f.	155.2	49.4	20	0.64	2.9	23.5		0.43 in/h

WATERING_SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird PGA Globe	Bubbler	2.1 in/h	18 min				18 min			1.25	36	288	144
2	Rain Bird PGA Globe	Turf Rotary	0.32 in/h											
3	Rain Bird PGA Globe	Turf Rotary	0.38 in/h											
4	Rain Bird PGA Globe	Bubbler	2.14 in/h	18 min				18 min			1.25	35	245	122.5
5	Rain Bird PGA Globe	Turf Spray	1.39 in/h			27 min				27 min	1.25	54	940.7	470.3
6	Rain Bird PGA Globe	Turf Spray	1.74 in/h			22 min				22 min	1.25	44	575.5	287.8
7	Rain Bird PGA Globe	Turf Spray	1.37 in/h			28 min				28 min	1.25	55	1,016	508.2
8	Rain Bird PGA Globe	Bubbler	2.13 in/h	18 min				18 min			1.25	36	360	180
9	Rain Bird PGA Globe	Turf Spray	1.86 in/h			21 min				21 min	1.25	41	486.7	243.3
10	Rain Bird PGA Globe	Turf Spray	1.26 in/h			30 min				30 min	1.25	60	1,123	561.6
11	Rain Bird PGA Globe	Turf Spray	1.82 in/h			21 min				21 min	1.25	42	927.8	463.9
12	Rain Bird PGA Globe	Bubbler	2.19 in/h	18 min				18 min			1.25	35	630	315
13	Rain Bird PGA Globe	Turf Spray	1.22 in/h			31 min				31 min	1.25	62	1,307	653.5
14	Rain Bird PGA Globe	Turf Spray	0.92 in/h			41 min				41 min	1.25	82	2,013	1,007
15	Rain Bird PGA Globe	Turf Spray	0.78 in/h			49 min				49 min	1.25	97	1,525	762.4
16	Rain Bird PGA Globe	Turf Spray	1.62 in/h			24 min				24 min	1.25	47	1,150	575.0
17	Rain Bird XCZ-100-PRF	Area for Dripline	0.43 in/h		70 min		70 min				1	140	365.4	182.7
TOTALS:				72	70	294	70	72	294			866	12,954	6,477

CRITICAL_ANALYSIS

P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	70 PSI
Elevation Change:	5.00 ft
Service Line Size:	4"
Length of Service Line:	20 ft
Pressure Available:	67 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	24.55 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	95.45 GPM
Critical Station:	3
Design Pressure:	40 PSI
Friction Loss:	2.54 PSI
Fittings Loss:	0.25 PSI
Elevation Loss:	0 PSI
Loss through Valve:	5.93 PSI
Pressure Req. at Critical Station:	48.7 PSI
Loss for Fittings:	0.01 PSI
Loss for Main Line:	0.15 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.3 PSI
Loss for Master Valve:	0.8 PSI
Loss for Water Meter:	0.4 PSI
Critical Station Pressure at POC:	61.4 PSI
Pressure Available:	67 PSI
Residual Pressure Available:	5.61 PSI



PROJECT:
WARE HOUSE OFFICES
AT EAST RIVER-CORE SHELL
2850 CLINTON DRIVE
Houston, TX 77020

REVISIONS:
None
Rev 01-05/18/2023

DATE:
04/25/2023

JOB NUMBER:
D1-04252023

DRAWN BY:

CHECKED BY:
CLR

SCALE:
1" = 20'

SHEET:
LI.00