

NO.	DATE:	BY:	TYPE:	DESCRIPTION:
1.	10/24/2025	BG	FILE CREATION	FILE NAME WES-TECH SAMPLE IRRIGATION DESIGN 2.DWG
2.	10/24/2025	BG	FOR REVIEW	PAPER ARCH D (24.00 X 36.00 INCHES)
---	---	---	---	FILE #
---	---	---	---	SCALE AS SHOWN
---	---	---	---	POC SIZE 1 1/2" PUMP
---	---	---	---	POC PSI 45 PSI
---	---	---	---	POC #2 SIZE N/A
---	---	---	---	POC #2 PSI N/A

(PRINT IN COLOUR)

NOTES:
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WES-TECH
 irrigation.ca
 WES-TECH IRRIGATION SYSTEMS LTD.
 893 Van Isle Way
 Victoria, BC V9B 5R8
 250-361-1573

PROJECT NAME:
 WES-TECH
 SAMPLE IRRIGATION
 DESIGN 2

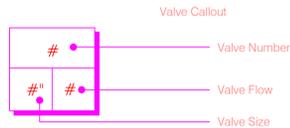


CLIENT:

IRR01
 SHEET 1 OF 3

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	GPM	RADIUS
	Hunter MP1000 C/W I-PRO400 M	13	90-210		3.7 m
	Hunter MP2000 C/W I-PRO400 K	3	90-210		5.2 m
	Hunter MP2000 C/W I-PRO400 R	1	360	1.28	5.2 m
	Hunter MP3000 C/W I-PRO400 A	5	360	3.15	8.2 m
	Hunter MP3000 C/W I-PRO400 B	23	90-210		8.2 m
	Hunter MP3000 C/W I-PRO400 Y	2	210-270		8.2 m
	Hunter MP3500 C/W I-PRO400 LB	7	90-210		10.4 m
SYMBOL	MANUFACTURER/MODEL	QTY		GPM	RADIUS
	Rain Bird 5004-PC-SAM 1.5	5		1.35	10.4 m
	Rain Bird 5004-PC-SAM 2.0	24		1.81	11.0 m
	Rain Bird 5004-PC-SAM 3.0	1		2.71	11.6 m
SYMBOL	MANUFACTURER/MODEL	QTY			
	Drip Tree Ring- NDS SFPC-BR-7412 PC	11			
SYMBOL	MANUFACTURER/MODEL	QTY			
	Irritrol 2500TF 25mm	13			
	3/4" Hose Bibb	1			
	1 1/2" PVC Ball Valve	2			
	Swing Check Valve (NDS 1520 or equivalent)	2			
	Hydro Rain HRC-400-WF-16	1			
	(Existing) Simer 3415P 1-1/2 HP Pump	1			
	Irrigation Lateral Line: HR-Blu-Lock 1"	950 m			
	Irrigation Mainline: PVC Schedule 40 1 1/2"	168 m			



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM
1	Irritrol 2500TF	25mm	Turf Rotary	7.3
2	Irritrol 2500TF	25mm	Turf Rotor	12.67
3	Irritrol 2500TF	25mm	Turf Rotor	8.13
4	Irritrol 2500TF	25mm	Turf Rotor	10.4
5	Irritrol 2500TF	25mm	Turf Rotor	10.86
6	Irritrol 2500TF	25mm	Turf Rotor	10.84
7	Irritrol 2500TF	25mm	Turf Rotary	10.19
8	Irritrol 2500TF	25mm	Turf Rotary	11.59
9	Irritrol 2500TF	25mm	Turf Rotary	11.55
10	Irritrol 2500TF	25mm	Turf Rotary	12.11
11	Irritrol 2500TF	25mm	Turf Rotary	8.28
12	Irritrol 2500TF	25mm	Turf Rotary	9.01
13	Irritrol 2500TF	25mm	Drip Ring	3.67

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Custom Max Flow: 18 GPM
Flow Available: 18 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 45 PSI
Pressure Available: 45 PSI

DESIGN ANALYSIS
Maximum Station Flow: 12.67 GPM
Flow Available at POC: 18 GPM
Residual Flow Available: 5.33 GPM

Critical Station: 4
Design Pressure: 35 PSI
Friction Loss: 2.57 PSI
Fittings Loss: 0.26 PSI
Elevation Loss: 0 PSI
Loss through Valve: 2.18 PSI
Pressure Req. at Critical Station: 40.0 PSI
Loss for Fittings: 0.05 PSI
Loss for Main Line: 0.5 PSI
Loss for POC to Valve Elevation: 2.42 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 43.0 PSI
Pressure Available: 45 PSI
Residual Pressure Available: 2.03 PSI

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION
1	ALL IRRIGATION IS TO BE INSTALLED IN ACCORDANCE WITH STANDARDS FOR LANDSCAPE IRRIGATION SYSTEMS IIABC 2018 EDITION.
2	INSTALLER TO CONFIRM PRESSURE (PSI) AND SIZE OF ALL POINT OF CONNECTIONS (POC'S) PRIOR TO THE START OF INSTALLATION TO CONFIRM THEY MEET THE DESIGN REQUIREMENTS. IF THE PSI OR SIZE OF A POC DO NOT MEET THE DESIGN REQUIREMENTS, THE IRRIGATION DESIGN WILL NEED TO BE REVISED BEFORE INSTALLATION.
3	IRRIGATION PLANS ARE SCHEMATIC ONLY. ALL PLANT MATERIAL, LIGHT STANDARDS, HARD SURFACES OR AMENITIES TAKE PRECEDENCE OVER THE LOCATION OF IRRIGATION COMPONENTS.
4	VALVE BOXES ARE TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS WITH THE ADDITION OF LANDSCAPE FABRIC BELOW THE FILL AND BRICKS.
5	IRRIGATION DESIGN IS BASED OFF OF SPECS OF THE EXISTING PUMP. MODEL: SIMER 3415P 1-1/2 HP. 18 GPM @ 45 PSI.
6	TREE DRIP RINGS FINAL LOCATIONS TO BE CONFIRMED ONSITE.
7	INFIELD ADJUSTMENTS TO ROTORS MAY BE REQUIRED TO MINIMIZE OVERSPRAY ONTO THE HOUSE.
8	PSI LOSS THROUGH VALVE IS BASED OFF OF AN ELECTRIC VALVE. SINCE MANUAL PVC BALL VALVES ARE BEING USED PSI LOSS IS MINIMAL. RESIDUAL PRESSURE AVAILABLE INCLUDES PSI LOSS THROUGH AN ELECTRIC VALVE .
9	SPRINKLERS ALONG DRIVEWAY TO BE OFFSET BY 12" TO ALLOW FOR MOWING TO LIMIT DAMAGE.
10	CLIENT/INSTALLER TO INSTALL SCREEN FILTER TO FILTER WATER BEFORE ENTERING PUMP. FINAL LOCATION TO BE DETERMINED BY CLIENT/INSTALLER.
11	DRIP TREE RINGS TO BE INSTALLED ON THE SURFACE.
12	IN-LINE SWING CHECK VALVES TO BE INSTALLED TO KEEP MAINLINE PRIMED AND PREVENT A REVERSE FLOW OF WATER DUE TO CHANGES IN ELEVATION.

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--	--/--	--	--	POC SIZE	1 1/2" PUMP
--	--/--	--	--	POC PSI	45 PSI
--	--/--	--	--	POC #2 SIZE	N/A
--	--/--	--	--	POC #2 PSI	N/A
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PROJECT NAME:
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SAMPLE IRRIGATION
DESIGN 2



CLIENT:

DET01

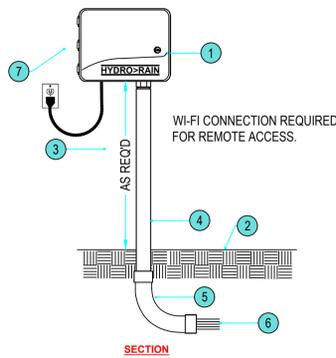
SHEET 2 OF 3

MAX. CONTROLLER DIMENSIONS (6-12 ZONES IN / OUTDOOR MODEL)

- WIDTH - 9.375"
- HEIGHT - 8.375"
- DEPTH - 4.125"

ELECTRICAL SPECIFICATIONS:

- POWER SUPPLY VOLTAGE - 120 VAC ±10%
- OUTPUT - 24 VAC - 1.0A

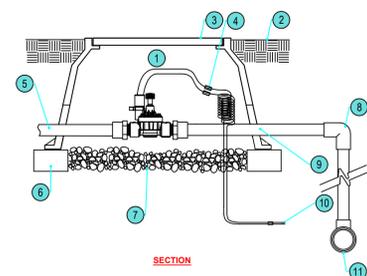


LEGEND:

- HYDRO RAIN HRC400 SERIES AUTOMATIC SPRINKLER CONTROLLER (INTERIOR WALL MOUNT), 6 OR 16 ZONE MODELS.
- FINISH GRADE
- LOW RECEPTACLE AC POWER
- PVC SCHEDULE 40 CONTROL WIRE CONDUIT (SIZE AS REQUIRED)
- PVC SWEEP ELL (DEPTH AS REQUIRED)
- CONTROL WIRES TO ELECTRIC VALVES
- INTERIOR SURFACE FOR MOUNTING OF SPRINKLER CONTROLLER.

NOTES:

- ALL ELECTRICAL WORK MUST CONFORM TO LOCAL CODES. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWING.

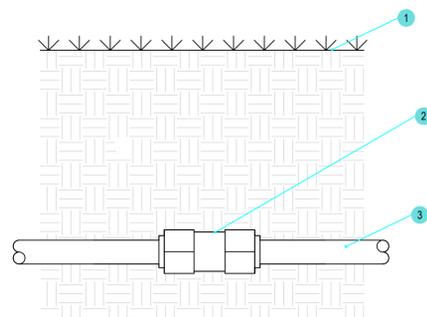


LEGEND:

- IRRITROL 2500TF 1" ELECTRIC CONTROL VALVE
- FINISH GRADE
- VALVE BOX (HEIGHT ABOVE GRADE AS REQUIRED)
- WATERPROOF WIRE CONNECTORS
- PVC POLY OR BLUE LOCK LATERAL LINE
- COMMON BRICK (4 REQUIRED)
- PEA GRAVEL - MIN. 6" DEEP
- OPTIONAL PVC SCHEDULE 40 X ELL
- PVC SCHEDULE 40 MAINLINE PIPE
- COMMON AND CONTROL WIRE TO CONTROLLER LOCATION
- PRESSURE MAIN LINE PIPING WITH MAIN LINE FITTING (DEPTH AS REQUIRED)

NOTES:

- REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION.
- TEFLON TAPE ALL THREADED JOINTS.
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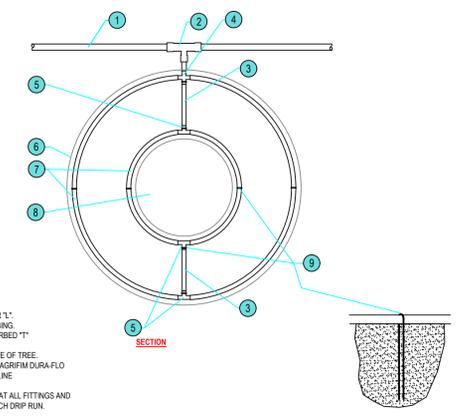


LEGEND:

- FINISH GRADE
- NDS 1520 INLINE SWING CHECK VALVE OR EQUIVALENT, SIZED TO LATERAL PIPE
- LATERAL PIPE

NOTES:

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LEGEND:

- PVC LATERAL PIPE
- PVC SCHEDULE 40 "1" OR "1.125"
- 1/2" POLYETHYLENE TUBING
- BARBED CROSS OR 2 BARBED "T"
- PROJECTED CANOPY LINE OF TREE
- ON SURFACE DRIP LINE, AGRIFIM DURA-FLO CV OR APPROVED DRIP LINE
- ROOT BALL
- WIRE STAKES LOCATED AT ALL FITTINGS AND HALFWAY POINTS OF EACH DRIP RUN

NOTES:

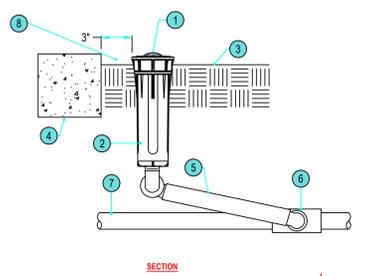
- THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
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1 CONTROLLER - HYDRO-RAIN HRC400
N.T.S. P-DE-CNT-32

2 VALVES - IRRITROL 2500 SERIES - 2500TF
N.T.S. P-DE-VLV-04

3 VALVES - NDS 1520 INLINE SWING CHECK
N.T.S. P-DE-VLV-44

4 DRIP TREE RING - NDS DURA FLO
N.T.S. P-DE-DRI-26

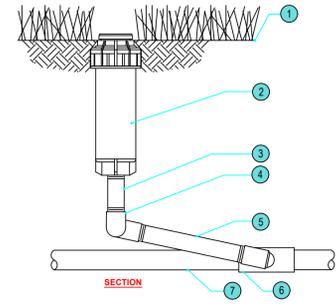


LEGEND:

- MP ROTATOR NOZZLE UNLESS OTHERWISE NOTED ON DRAWING.
- IRRITROL 4000 POP-UP
- FINISH GRADE
- CURB, SIDEWALK OR FOUNDATION
- RAIN BIRD PRE-MADE SWING ASSEMBLY
- LATERAL LINE PIPE FITTING (TEE OR ELBOW)
- LATERAL LINE PIPING
- INSTALL 3" FROM EDGE UNLESS SPRINKLERS ARE ALONG ROADWAYS. SPRINKLERS ALONG ROADWAYS ARE TO BE INSTALLED TIGHT AGAINST THE CURB AND SLIGHTLY BELOW THE CURB HEIGHT TO AVOID POTENTIAL DAMAGE FROM CAR TIRES.

NOTES:

- REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION.
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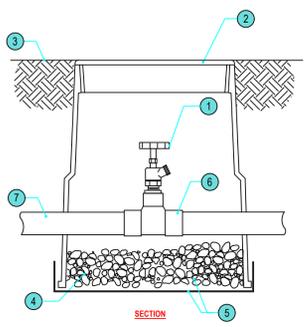


LEGEND:

- FINISH GRADE/TOP OF MULCH
- ROTOR POP-UP SPRINKLER: RAIN BIRD - 5004 (SEE OPTIONS)
- OPTIONAL PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- PVC SCH 40 ELL OR MARLEX STREET ELL
- RAIN BIRD PRE-MADE SWING
- LATERAL LINE TEE OR ELL
- LATERAL PIPE AS PER DESIGN

NOTES:

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LEGEND:

- 3/4" BRASS HOSE-BIB FOR DRAWING
- VALVE BOX WITH COVER, AS PER SPEC
- FINISH GRADE/TOP OF MULCH
- PEA GRAVEL - MIN. 6" DEEP MIN. 6" DEEP ENCLOSED
- IN LANDSCAPE CLOTH TO PROTECT FROM DIRT
- BRICK (1 OF 4)
- TEE-SIZED TO MAINLINE
- MAINLINE FROM METRE

NOTES:

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5 SPRAYS - IRRITROL IP400 C/W MP ROTATOR
N.T.S. P-DE-SPR-01

6 ROTOR - RAIN BIRD 5004 SERIES
N.T.S. P-DE-ROT-01

7 HOSE BIB BLOWOUT
N.T.S. P-DE-MISC-01

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SHEET 3 OF 3

DET02

SHEET 3 OF 3