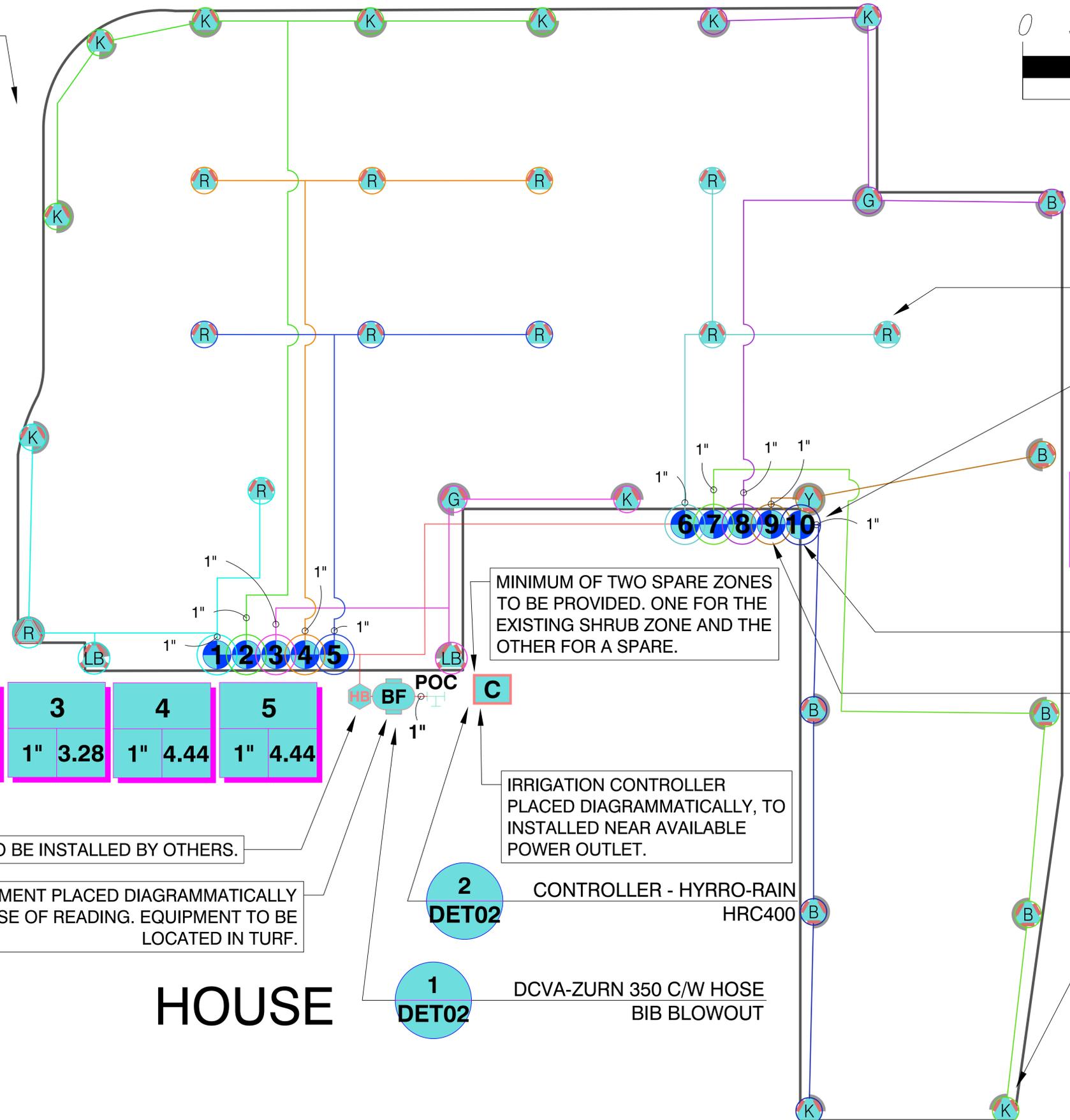
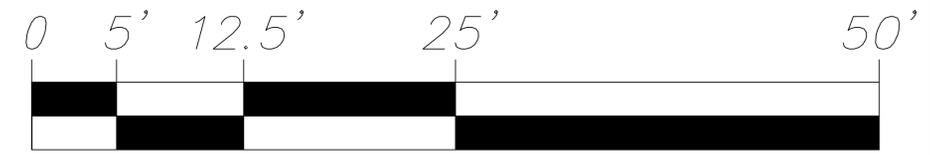


EXISTING SHRUB ZONE TO BE WIRED TO IRRIGATION CONTROLLER.



**5**  
**DET02** SPRAYS - IRRITROL IP400 C/W MP ROTATOR

EQUIPMENT PLACED DIAGRAMMATICALLY FOR EASE OF READING. EQUIPMENT TO BE LOCATED IN TURF.

<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
1" 4.44	1" 3.96	1" 3.13	1" 4.57	1" 4.01

**3**  
**DET02** HYDRO-RAIN MANIFOLD

**4**  
**DET02** VALVES - HYDRO-RAIN HRJ100 SERIES

MINIMUM OF TWO SPARE ZONES TO BE PROVIDED. ONE FOR THE EXISTING SHRUB ZONE AND THE OTHER FOR A SPARE.

IRRIGATION CONTROLLER PLACED DIAGRAMMATICALLY, TO BE INSTALLED NEAR AVAILABLE POWER OUTLET.

BACKFLOW TO BE INSTALLED BY OTHERS.

EQUIPMENT PLACED DIAGRAMMATICALLY FOR EASE OF READING. EQUIPMENT TO BE LOCATED IN TURF.

HYDRO-RAIN HRS-200-PR SPRAY BODIES COME FACTORY SET TO 30 PSI. TO ADJUST SPRAY BODIES TO 40 PSI: USE A SCREWDRIVER ON THE BOTTOM OF THE POP-UP BODY AND TURN COUNTER-CLOCKWISE TILL THE PRESSURE REGULATOR CLICKS.

**HOUSE**

**2**  
**DET02** CONTROLLER - HYRRO-RAIN HRC400

**1**  
**DET02** DCVA-ZURN 350 C/W HOSE BIB BLOWOUT

NO.	DATE:	BY:	TYPE:	TYPE:	DESCRIPTION:
1.	10/23/2025	BG	FILE CREATION	FILE NAME	WES-TECH SAMPLE IRRIGATION DESIGN 1.DWG
2.	10/24/2025	BG	FOR REVIEW	PAPER	ARCH D (24.00 X 36.00 INCHES)
				FILE #	
				SCALE	AS SHOWN
				POC SIZE	3/4"
				POC PSI	55 PSI, TESTED OFF 1/2" HOSE BIB
				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 1



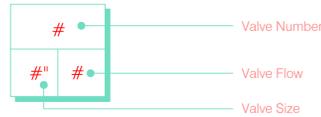
CLIENT:

**IRR01**  
 SHEET 1 OF 3

## IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP Strip C/W Hydro-Rain HRS-200-04-PR RCS	1	RCS	40	0.22	5'x15'
	Hunter MP2000 C/W Hydro-Rain HRS-200-04-PR G	2	210-270	40		19'
	Hunter MP2000 C/W Hydro-Rain HRS-200-04-PR K	11	90-210	40		19'
	Hunter MP2000 C/W Hydro-Rain HRS-200-04-PR R	10	360	40	1.48	19'
	Hunter MP3000 C/W Hydro-Rain HRS-200-04-PR B	6	90-210	40		30'
	Hunter MP3000 C/W Hydro-Rain HRS-200-04-PR Y	1	210-270	40		30'
	Hunter MP3500 C/W Hydro-Rain HRS-200-04-PR LB	2	90-210	40		35'
SYMBOL	MANUFACTURER/MODEL	QTY				
	Hydro Rain HRJ-100-FF-00 1"	10				
	3/4" Hose Bibb	1				
	Zurn 350 3/4"	1				
	Hydro Rain HRC-400-WF-16	1				
	Point of Connection	1				
	Irrigation Lateral Line: HR-Blu-Lock 1"	762 lf				
	Irrigation Mainline: HDPE PE4710 DR 9 1"	85 lf				

Valve Callout



## VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM
1	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.13
2	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	3.43
3	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	3.28
4	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.44
5	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.44
6	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.44
7	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	3.96
8	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	3.13
9	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.57
10	Hydro Rain HRJ-100-FF-00	1"	Turf Rotary	4.01

## CRITICAL ANALYSIS

Generated: 2025-10-24 09:25

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

FLOW AVAILABLE  
Custom Max Flow: 5.5 GPM  
Flow Available: 5.5 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 55 PSI  
Pressure Available: 55 PSI

DESIGN ANALYSIS  
Maximum Station Flow: 4.57 GPM  
Flow Available at POC: 5.5 GPM  
Residual Flow Available: 0.93 GPM

Critical Station: 8  
Design Pressure: 40 PSI  
Friction Loss: 0.13 PSI  
Fittings Loss: 0.01 PSI  
Elevation Loss: 0 PSI  
Loss through Valve: 4.19 PSI  
Pressure Req. at Critical Station: 44.3 PSI  
Loss for Fittings: 0.02 PSI  
Loss for Main Line: 0.18 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 6.5 PSI  
Critical Station Pressure at POC: 51.0 PSI  
Pressure Available: 55 PSI  
Residual Pressure Available: 3.97 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	VALVES ARE TO BE INSTALLED ON DURA, HYDRORAIN, OR EQUIVALENT MANIFOLD SYSTEMS THAT ALLOW THE REMOVAL OF AN INDIVIDUAL VALVE FOR MAINTENANCE.
6	INSTALL WIRE WITH MINIMUM 600MM LENGTH OF COILED SLACK AT ALL CHANGES OF DIRECTION, IN WIRE SPLICE BOXES AND AT CONNECTIONS TO CONTROLLED COMPONENTS.
7	HYDRO-RAIN HRS-200-PR SPRAY BODIES COME FACTORY SET TO 30 PSI. TO ADJUST SPRAY BODIES TO 40 PSI: USE A SCREWDRIVER ON THE BOTTOM OF THE POP-UP BODY AND TURN COUNTER-CLOCKWISE TILL THE PRESSURE REGULATOR CLICKS.

NO.	DATE:	BY:	TYPE:	TYPE:	DESCRIPTION:
1.	10/23/2025	BG	FILE CREATION	FILE NAME	WES-TECH SAMPLE IRRIGATION DESIGN 1.DWG
2.	10/24/2025	BG	FOR REVIEW	PAPER	ARCH D (24.00 X 36.00 INCHES)
				FILE #	
				SCALE	AS SHOWN
				POC SIZE	3/4"
				POC PSI	55 PSI, TESTED OFF 1/2" HOSE BIB
				POC #2 SIZE	N/A
				POC #2 PSI	N/A

(PRINT IN COLOUR)

### NOTES:

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893 Van Isle Way  
Victoria, BC V9B 5R8  
250-361-1573

PROJECT NAME:

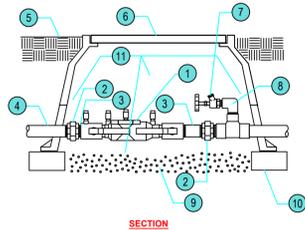
WES-TECH  
SAMPLE IRRIGATION  
DESIGN 1



CLIENT:

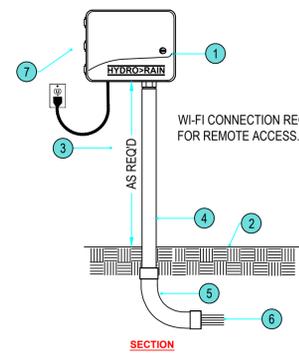
# DET01

SHEET 2 OF 3



- LEGEND:**
- ZURN 350 DCVA
  - BRASS OR SCH80 UNION (OPTIONAL)
  - BRASS NIPPLE BETWEEN UNION AND DEVICE
  - MAINLINE FROM METRE
  - FINISH GRADE/TOP OF MULCH
  - VALVE BOX WITH COVER - AS PER SPEC
  - INSTALL IMMEDIATELY DOWNSTREAM OF BACKFLOW DEVICE A 3/4" HOSE BIB FOR WINTERIZING
  - SCH 40 PVC T X T 90° STREET ELL **MAXLEX STREET ELBOWS ARE NOT TO BE USED**
  - PEA GRAVEL - MIN. 6" DEEP
  - BRICK (1 OF 4)
  - ALLOW SUFFICIENT ROOM ON ALL SIDES OF DEVICE FOR PROPER MAINTENANCE

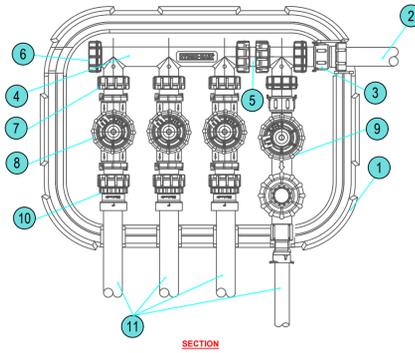
- NOTES:**
- REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION
  - TEFLON TAPE ALL THREADED JOINTS
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
  - DO NOT SCALE DRAWING



- 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 ±1-10%
  - OUTPUT - 24 VAC - 1.0A

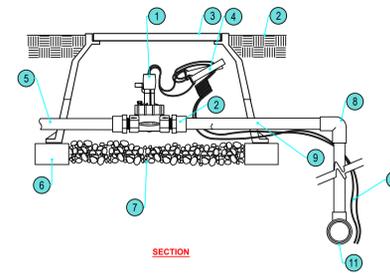
- LEGEND:**
- HYDRO RAIN HRC400 SERIES AUTOMATIC SPRINKLER
  - CONTROLLER (INTERIOR WALL MOUNT) 8 OR 16 ZONE MODELS
  - FINISH GRADE
  - 120V RECEPTACLE AC POWER
  - PVC SCHEDULE 40 CONTROL WIRE CONDUIT (SIZE AS REQUIRED)
  - PVC SWEEP ELL (DEPTH AS REQUIRED)
  - CONTROL WIRES TO ELECTRIC VALVES
  - 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:**
- RECTANGULAR VALVE BOX WITH COVER AS PER SPEC.
  - MANLINE AS PER SPEC.
  - MANFOLD FEMALE ADAPTER (B335-010)
  - 3 PORT MANFOLD BODY (B301-010-3)
  - MANFOLD SWIVEL COUPLING (B339-010)
  - CAP CAN BE REMOVED FOR EXPANSION IF NEEDED (B348-010)
  - MANFOLD MALE ADAPTER (B332-010)
  - IRRIGATION VALVE AS PER IRRIGATION DESIGN
  - IRRIGATION BRP ZONE KIT AS PER IRRIGATION DESIGN (TYP)
  - TRANSITION THREADED ADAPTER FOR BULLOCK LATERALS (TYP)
  - LATERALS AS PER IRRIGATION DESIGN

- NOTES:**
- REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION
  - TEFLON TAPE ALL THREADED JOINTS THAT DO NOT SEAL WITH AN O-RING
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
  - DO NOT SCALE DRAWING



- LEGEND:**
- HYDRO RAIN HRJ100 1" ELECTRIC CONTROL VALVE
  - FINISH GRADE
  - VALVE BOX (HEIGHT ABOVE GRADE AS REQUIRED)
  - WATERPROOF WIRE CONNECTORS
  - PVC POLY OR BULLOCK LATERAL LINE AS PER IRRIGATION DESIGN
  - COMMON BRICK (4 REQUIRED)
  - PEA GRAVEL - MIN. 6" DEEP
  - (OPTIONAL) ELBOW MATCHING IRRIGATION MAINLINE PIPE
  - MANLINE PIPE AS PER IRRIGATION DESIGN
  - COMMON AND CONTROL WIRE TO CONTROLLER LOCATION
  - PRESSURE MAIN LINE PIPING WITH MAIN LINE FITTING (DEPTH AS REQUIRED)

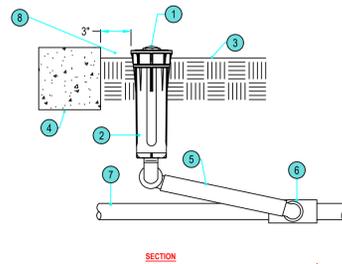
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  - DO NOT SCALE DRAWING

**1 DCVA-ZURN 350 C/W HOSE BIB BLOWOUT**  
N.T.S. P-DE-BKF-27

**2 CONTROLLER - HYRRO-RAIN HRC400**  
N.T.S. P-DE-CNT-32

**3 HYDRO-RAIN MANIFOLD**  
N.T.S. P-DE-VLV-09

**4 VALVES - HYDRO-RAIN HRJ100 SERIES**  
N.T.S. P-DE-VLV-11



- LEGEND:**
- MP ROTATOR NOZZLE UNLESS OTHERWISE NOTED ON DRAWING
  - IRRITROL IP400 POPUP
  - FINISH GRADE
  - CURB, SIDEWALK OR FOUNDATION
  - RAINBIRD 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

- SELECT DESIRED SERIES  
 STANDARD SERIES  
 DV SERIES  
 PRS SERIES  
 PRS - DV SERIES

- NOTES:**
- REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION
  - TEFLON TAPE ALL THREADED JOINTS
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
  - DO NOT SCALE DRAWING

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

NO.	DATE:	BY:	TYPE:	TYPE:	DESCRIPTION:
1.	10/23/2025	BG	FILE CREATION	FILE NAME	WES-TECH SAMPLE IRRIGATION DESIGN 1.DWG
2.	10/24/2025	BG	FOR REVIEW	PAPER	ARCH D (24.00 X 36.00 INCHES)
				FILE #	
				SCALE	AS SHOWN
				POC SIZE	3/4"
				POC PSI	55 PSI, TESTED OFF 1/2" HOSE BIB
				POC #2 SIZE	N/A
				POC #2 PSI	N/A

(PRINT IN COLOUR)

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PROJECT NAME:  
**WES-TECH  
SAMPLE IRRIGATION  
DESIGN 1**



CLIENT:

**DET02**

SHEET 3 OF 3