
| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:400 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

NOTES:

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250-361-1573

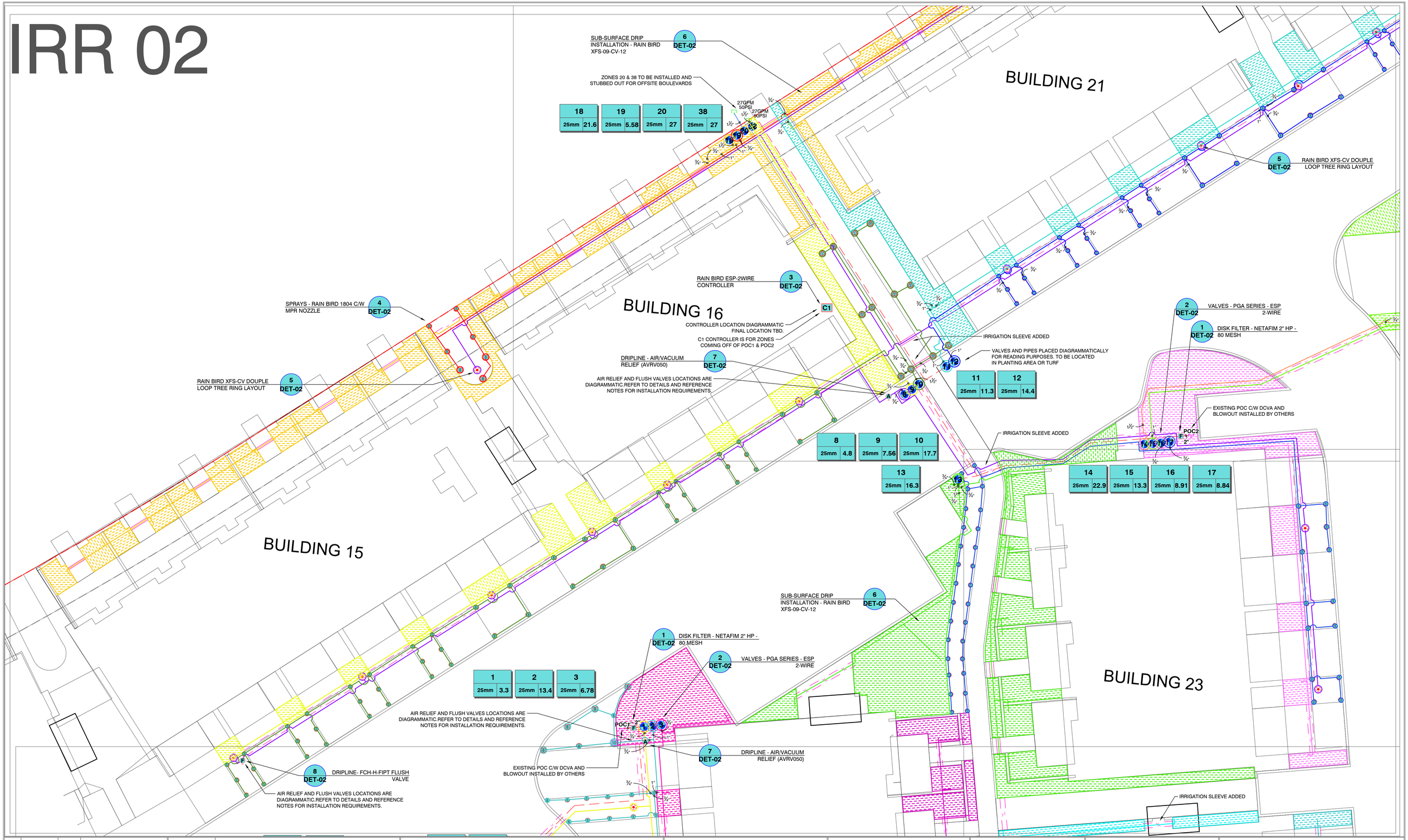
PROJECT NAME:
WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

# IRR 01

SHEET 1 OF 9

# IRR 02




| NO. | DATE: | BY: | TYPE: |
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| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

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PROJECT NAME:

WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

# IRR 02

SHEET 2 OF 9

# IRR 03


| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

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PROJECT NAME:
WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

# IRR 03

SHEET 3 OF 9

# IRR 04

8 DET-02 DRIPLINE- FCH-H-FIPT FLUSH VALVE

AIR RELIEF AND FLUSH VALVES LOCATIONS ARE DIAGRAMMATIC.REFER TO DETAILS AND REFERENCE NOTES FOR INSTALLATION REQUIREMENTS.

EXISTING POC C/W DCVA AND BLOWOUT INSTALLED BY OTHERS

7 DET-02 DRIPLINE - AIR/VACUUM RELIEF (AVRV050)

| 6 | | 7 | | 4 | | 5 | |
|---|---|---|---|---|---|---|---|
| 25mm | 19.6 | 25mm | 20.7 | 25mm | 7.88 | 25mm | 7.29 |

IRRIGATION SLEEVE ADDED

SUB-SURFACE DRIP INSTALLATION - RAIN BIRD XFS-09-CV-12 6 DET-02

BUILDING 17

BUILDING 18

BUILDING 25

IRRIGATION SLEEVE ADDED

SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE 4 DET-02

4 DET-02 SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE

IRRIGATION SLEEVE ADDED

BUILDING 19

BUILDING 20

BUILDING 27

| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

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250-361-1573

PROJECT NAME:

WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

# IRR 04

SHEET 4 OF 9

# IRR 05

| 14 | 15 | 16 | 17 |
|---|---|---|---|
| 25mm 22.9 | 25mm 13.3 | 25mm 8.91 | 25mm 8.84 |

BUILDING 23

BUILDING 26

BUILDING 25

IRRIGATION SLEEVE ADDED

IRRIGATION SLEEVE ADDED

IRRIGATION SLEEVE ADDED

SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE — 4 DET-02

# IRR 07

| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

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PROJECT NAME:
WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

IRR 05

SHEET 5 OF 9

BUILDING 27

BUILDING 30

BUILDING 29

21 | 25mm | 20.8

22 | 25mm | 6.18

23 | 25mm | 24.7

24 | 25mm | 23.0

25 | 25mm | 10.7

26 | 25mm | 4.74

27 | 25mm | 4.68

28 | 25mm | 18

29 | 25mm | 9.25

30 | 25mm | 11.0

31 | 25mm | 14.0

32 | 25mm | 17.7

33 | 25mm | 4.2

34 | 25mm | 18.8

35 | 25mm | 12.8

36 | 25mm | 10.2

37 | 25mm | 14.8

POC3 2" F

POC4 2"

1 DET-02 DISK FILTER - NETAFIM 2" HP - 80 MESH

EXISTING POC C/W DCVA AND BLOWOUT INSTALLED BY OTHERS

VALVES AND PIPES PLACED DIAGRAMMATICALLY FOR READING PURPOSES. TO BE LOCATED IN PLANTING AREA OR TURF

2 DET-02 VALVES - PGA SERIES - ESP 2-WIRE

AIR RELIEF AND FLUSH VALVES LOCATIONS ARE DIAGRAMMATIC.REFER TO DETAILS AND REFERENCE NOTES FOR INSTALLATION REQUIREMENTS.

8 DET-02 DRIPLINE- FCH-H-FIPT FLUSH VALVE

RAIN BIRD ESP-2WIRE CONTROLLER 3 DET-02

CONTROLLER LOCATION DIAGRAMMATIC FINAL LOCATION TBD.

C2 CONTROLLER IS FOR ZONES COMING OFF OF POC3 & POC4

C2

4 DET-02 SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE

1 DET-02 DISK FILTER - NETAFIM 2" HP - 80 MESH

EXISTING POC C/W DCVA AND BLOWOUT INSTALLED BY OTHERS

VALVES AND PIPES PLACED DIAGRAMMATICALLY FOR READING PURPOSES. TO BE LOCATED IN PLANTING AREA OR TURF

AIR RELIEF AND FLUSH VALVES LOCATIONS ARE DIAGRAMMATIC.REFER TO DETAILS AND REFERENCE NOTES FOR INSTALLATION REQUIREMENTS.

7 DET-02 DRIPLINE - AIR/VACUUM RELIEF (AVRV050)

SUB-SURFACE DRIP INSTALLATION - RAIN BIRD XFS-09-CV-12 6 DET-02

SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE 4 DET-02

IRRIGATION SLEEVE ADDED

AIR RELIEF AND FLUSH VALVES LOCATIONS ARE DIAGRAMMATIC.REFER TO DETAILS AND REFERENCE NOTES FOR INSTALLATION REQUIREMENTS.

8 DET-02 DRIPLINE- FCH-H-FIPT FLUSH VALVE

# IRR 06

| NO. | DATE: | BY: | TYPE: |
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| 1. | 06/12/2025 | BG | FILE CREATION |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

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250-361-1573

PROJECT NAME:

WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

IRR 06

SHEET 6 OF 9

# IRR 07

BUILDING 18

BUILDING 25

BUILDING 28

BUILDING 20

BUILDING 27

SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE — 4 DET-02

IRRIGATION SLEEVE ADDED

IRRIGATION SLEEVE ADDED

RAIN BIRD ESP-2WIRE CONTROLLER — 3 DET-02

CONTROLLER LOCATION DIAGRAMMATIC FINAL LOCATION TBD.

C2 CONTROLLER IS FOR ZONES COMING OFF OF POC3 & POC4 — C2

| | | |
|---|---|---|
| 24 | 25mm | 23.0 |
| 25 | 25mm | 10.7 |
| 26 | 25mm | 4.74 |
| 27 | 25mm | 4.68 |
| 28 | 25mm | 18 |
| 29 | 25mm | 9.25 |
| 30 | | |

4 DET-02 SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE

1 DET-02 DISK FILTER - NETAFIM 2" HP 80 MESH

2" POC4

EXISTING POC C/W DCVA AND

AIR RELIEF AND FLUSH VALVES LOCATIONS ARE DIAGRAMMATIC.REFER TO DETAILS AND REFERENCE NOTES FOR INSTALLATION REQUIREMENTS.

8 DET-02 DRIPLINE- FCH-H-FIPT FLUSH VALVE

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| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
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| FILE # | |
| SCALE | 1:100 METRIC |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

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PROJECT NAME:

WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

IRR 07

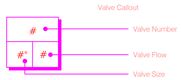
SHEET 7 OF 9

# IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL | QTY | ARC | PSI | GPM | RADIUS |
|---|---|---|---|---|---|---|
| 4 | Rain Bird 1804-PRS 15LCS | 7 | LCS | 30 | 0.49 | 1.2x4.6 |
| 4 | Rain Bird 1804-PRS 15RCS | 6 | RCS | 30 | 0.49 | 1.2x4.6 |
| 4 | Rain Bird 1804-PRS 15SST | 5 | SST | 30 | 1.21 | 1.2x9.1 |
| 5 | Rain Bird 1804-PRS 05H | 83 | 180 | 30 | 0.2 | 1.5 m |
| 5 | Rain Bird 1804-PRS 05Q | 71 | 90 | 30 | 0.1 | 1.5 m |
| 8 | Rain Bird 1804-PRS 08F | 1 | 360 | 30 | 1.05 | 2.4 m |
| 8 | Rain Bird 1804-PRS 08H | 47 | 180 | 30 | 0.52 | 2.4 m |
| 8 | Rain Bird 1804-PRS 08Q | 181 | 90 | 30 | 0.26 | 2.4 m |
| 10 | Rain Bird 1804-PRS 10F | 3 | 360 | 30 | 1.58 | 3.0 m |
| 10 | Rain Bird 1804-PRS 10H | 12 | 180 | 30 | 0.79 | 3.0 m |
| 10 | Rain Bird 1804-PRS 10Q | 11 | 90 | 30 | 0.39 | 3.0 m |
| 12 | Rain Bird 1804-PRS 12H | 4 | 180 | 30 | 1.3 | 3.7 m |
| 12 | Rain Bird 1804-PRS 12Q | 1 | 90 | 30 | 0.65 | 3.7 m |
| 15 | Rain Bird 1804-PRS 15Q | 2 | 90 | 30 | 0.92 | 4.6 m |
| 4 | Rain Bird 1804-PRS 04V | 26 | Adj | 30 | ≤ 1.15 | 1.2 m |
| 6 | Rain Bird 1804-PRS 06V | 14 | Adj | 30 | ≤ 1.48 | 1.8 m |
| 8 | Rain Bird 1804PRS HEVAN 08 HE-V | 37 | Adj | 30 | ≤ 1.19 | 2.4 m |
| 10 | Rain Bird 1804PRS HEVAN 10 HE-V | 18 | Adj | 30 | ≤ 1.8 | 3.0 m |
| 12 | Rain Bird 1804PRS HEVAN 12 HE-V | 3 | Adj | 30 | ≤ 2.38 | 3.7 m |
| 15 | Rain Bird 1804PRS HEVAN 15 HE-V | 2 | Adj | 30 | ≤ 3.71 | 4.6 m |

| SYMBOL | MANUFACTURER/MODEL | QTY |
|---|---|---|
| F | Flush Valve (FCH-H-FIPT) | 3 |
| A | Air Vacume Relese Valve (ARV050) 13mm | 3 |
| | Rain Bird XFS-CV-09-12 Drip Ring | 41 |
| | Area to Receive Dripline<br>Rain Bird XFS-CV-09-12 | 5,900 m |

| SYMBOL | MANUFACTURER/MODEL | QTY |
|---|---|---|
| | Rain Bird PGA-PRS-D Globe 25mm | 38 |
| C1 | Rain Bird ESP-2WIRE (120VAC) | 1 |
| C2 | Rain Bird ESP-2WIRE (120VAC) | 1 |
| 2W-1 | Rain Bird 2W-1 | 38 |
| F | Netafim DF200-080 50mm | 4 |
| | Cap for future use | 2 |
| POC1 | Point of Connection 2" | 1 |
| POC2 | Point of Connection 2" | 1 |
| POC3 | Point of Connection 2" | 1 |
| POC4 | Point of Connection 2" | 1 |
| | Irrigation Lateral Line: PVC Class 200 SDR 21 3/4" | 3,130 m |
| | Irrigation Lateral Line: PVC Class 200 SDR 21 1" | 235 m |
| | Irrigation Lateral Line: PVC Class 160 SDR 26 1 1/2" | 228 m |
| | Irrigation Mainline: PVC Schedule 40 2" | 202 m |
| | Pipe Sleeve: PVC Schedule 40 | 517 m |




# VALVE SCHEDULE

| NUMBER | MODEL | SIZE | TYPE | GPM |
|---|---|---|---|---|
| 1 | Rain Bird PGA-PRS-D Globe | 25mm | Drip Ring | 3.3 |
| 2 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 13.4 |
| 3 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 6.78 |
| 4 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 7.88 |
| 5 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 7.29 |
| 6 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 19.65 |
| 7 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 20.66 |
| 8 | Rain Bird PGA-PRS-D Globe | 25mm | Drip Ring | 4.8 |
| 9 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 7.56 |
| 10 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 17.72 |
| 11 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 11.3 |
| 12 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 14.42 |
| 13 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 16.34 |
| 14 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 22.92 |
| 15 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 13.34 |
| 16 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 8.91 |
| 17 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 8.84 |
| 18 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 21.56 |
| 19 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 5.58 |
| 20 | Rain Bird PGA-PRS-D Globe | 25mm | Offsite Stub Out | 27 |
| 21 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 20.83 |
| 22 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 6.18 |
| 23 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 24.72 |
| 24 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 23.0 |
| 25 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 10.73 |
| 26 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 4.74 |
| 27 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 4.68 |
| 28 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 18 |
| 29 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 9.25 |
| 30 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 11.01 |
| 31 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 14.0 |
| 32 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 17.71 |
| 33 | Rain Bird PGA-PRS-D Globe | 25mm | Drip Ring | 4.2 |
| 34 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 18.83 |
| 35 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 12.78 |
| 36 | Rain Bird PGA-PRS-D Globe | 25mm | Turf Spray | 10.16 |
| 37 | Rain Bird PGA-PRS-D Globe | 25mm | Area for Dripline | 14.79 |
| 38 | Rain Bird PGA-PRS-D Globe | 25mm | Offsite Stub Out | 27 |

## CRITICAL ANALYSIS

Generated: 2025-05-08 12:48

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

FLOW AVAILABLE
Point of Connection Size: 50mm
Flow Available 50.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 86 PSI
Pressure Available: 86 PSI

DESIGN ANALYSIS
Maximum Station Flow: 20.66 GPM
Flow Available at POC: 50.59 GPM
Residual Flow Available: 29.94 GPM

Critical Station: 6
Design Pressure: 30 PSI
Friction Loss: 2.81 PSI
Fittings Loss: 0.28 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6 PSI
Pressure Req. at Critical Station: 39.1 PSI
Loss for Fittings: 0.03 PSI
Loss for Main Line: 0.31 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 39.4 PSI
Pressure Available: 86 PSI
Residual Pressure Available: 46.6 PSI

## CRITICAL ANALYSIS

Generated: 2025-05-08 12:48

P.O.C. NUMBER: 02
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 50mm
Flow Available 50.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 86 PSI
Pressure Available: 86 PSI

DESIGN ANALYSIS
Maximum Station Flow: 27 GPM
Flow Available at POC: 50.59 GPM
Residual Flow Available: 23.59 GPM

Critical Station: 20
Design Pressure: 50 PSI
Friction Loss: 0.04 PSI
Fittings Loss: 0 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6.28 PSI
Pressure Req. at Critical Station: 56.3 PSI
Loss for Fittings: 0.08 PSI
Loss for Main Line: 0.8 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 57.2 PSI
Pressure Available: 86 PSI
Residual Pressure Available: 28.8 PSI

## CRITICAL ANALYSIS

Generated: 2025-05-08 12:48

P.O.C. NUMBER: 03
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 50mm
Flow Available 50.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 86 PSI
Pressure Available: 86 PSI

DESIGN ANALYSIS
Maximum Station Flow: 24.72 GPM
Flow Available at POC: 50.59 GPM
Residual Flow Available: 25.87 GPM

Critical Station: 23
Design Pressure: 30 PSI
Friction Loss: 3.77 PSI
Fittings Loss: 0.38 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6.19 PSI
Pressure Req. at Critical Station: 40.3 PSI
Loss for Fittings: 0.03 PSI
Loss for Main Line: 0.27 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 40.6 PSI
Pressure Available: 86 PSI
Residual Pressure Available: 45.4 PSI

## CRITICAL ANALYSIS

Generated: 2025-05-08 12:48

P.O.C. NUMBER: 04
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 50mm
Flow Available 50.59 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 86 PSI
Pressure Available: 86 PSI

DESIGN ANALYSIS
Maximum Station Flow: 23.0 GPM
Flow Available at POC: 50.59 GPM
Residual Flow Available: 27.6 GPM

Critical Station: 34
Design Pressure: 30 PSI
Friction Loss: 4.06 PSI
Fittings Loss: 0.41 PSI
Elevation Loss: 0 PSI
Loss through Valve: 5.99 PSI
Pressure Req. at Critical Station: 40.5 PSI
Loss for Fittings: 0.06 PSI
Loss for Main Line: 0.62 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 41.1 PSI
Pressure Available: 86 PSI
Residual Pressure Available: 44.9 PSI

# REFERENCE NOTES SCHEDULE

| CODE | DESCRIPTION | DETAIL |
|---|---|---|
| 1 | ALL IRRIGATION IS TO BE INSTALLED IN ACCORDANCE WITH STANDARDS FOR LANDSCAPE IRRIGATION SYSTEMS IIABC 2018 EDITION. | |
| 2 | CONTRACTOR 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 | ZONES 20 & 38 ARE TO BE INTALLED AND CAPPED FOR THE OFFSITE BOULEVARD FRONTAGE. ZONES WILL BE CONTROLLED FROM ONSITE CONTROLLER C1. | |
| 5 | CONTROLLER C1 TO OPPERATE ZONES COMMING OFF OF POC1 & POC2. CONTROLLER C2 TO OPPERATE ZONES COMMING OFF OF POC2 & POC4. | |
| 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 | HEAD PLACEMENT WAS DETERMINED BY THE LOCATIONS OF THE PLANTINGS ON THE LANDSCAPING PLAN. IF PLANTS ARE TO CHANGE LOCATION FROM THE ONES ON THE LANDSCAPING PLAN THE IRRIGATION INSTALLER MAY NEED TO MAKE IN FIELD ADJUSTMENTS. | |
| 8 | VALVE BOXES ARE TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS WITH THE ADDITION OF LANDSCAPE FABRIC BELOW THE FILL AND BRICKS. | |
| 9 | DRIPLINE AIR RELESE VALVES ARE PLACED DIAGRAMATICALLY FOR TREE RING DRIP ZONES. IF PLANTING BED DRIP ZONES ARE INSTALLED SUBSURFACE, AIR RELEASE VALVES NEED TO BE INCLUDED AND INSTALLED. IF THE DRIPLINE IS INSTALLED ON THE SURFACE AIR RELEASE VALVES ARE NOT REQUIRED. AIR RELEASE VALVES TO BE LOCATED AT THE HIGHEST POINTS ON THE ZONE AND SIZED PER 10GPM PER ZONE. | |
| 10 | DRIPLINE FLUSH VALVES ARE PLACED DIAGRAMATICALLY FOR TREE RING DRIP ZONES. IF PLANTING BED DRIP ZONES ARE INSTALLED SUBSURFACE, FLUSH VALVES NEED TO BE INCLUDED AND INSTALLED. IF THE DRIPLINE IS INSTALLED ON THE SURFACE FLUSH VALVES ARE NOT REQUIRED. FLUSH VALVES TO BE LOCATED AT THE LOWEST POINTS ON THE ZONE AND SIZED PER 10GPM PER ZONE. | |
| 11 | RAINBIRD ESP-2WIRE DOES NOT REQUIRE SURGE PROTECTION OR GROUNDING. FOR OTHER SPECS AND WIRE RUN LENGTHS REFER TO MANUFACTURE MATERIALS. | |

| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

NOTES:

**DRAWING IS SCHEMATIC:**
FIELD ADJUSTMENTS MAY BE NEEDED. LOCATE ALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN TURF OR PLANTING AREAS. COMPONENTS MAY BE DRAWN OUTSIDE OF AREAS FOR EASE OF READING.

**DISCLAIMER:**
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

**IRRIGATION SCHEDULE QUANTITIES:**
PIPE LENGTHS ARE BASED ON DESIGN MEASUREMENTS PLUS 10% MARGIN OF ERROR. QUANTITIES ARE SUPPLIED TO ASSIST WITH TENDERING AND DO NOT REPRESENT FINAL INSTALLED AMOUNTS.



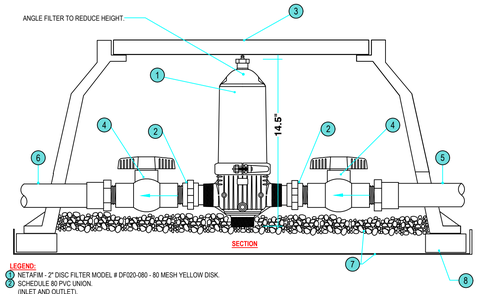
WES-TECH irrigation.ca
WES-TECH IRRIGATION SYSTEMS LTD.
893 Van Isle Way
Victoria, BC V9B 5R8
250-361-1573

PROJECT NAME:
WES-TECH SAMPLE IRRIGATION DESIGN 3

CLIENT:

# DET 01

SHEET 8 OF 9



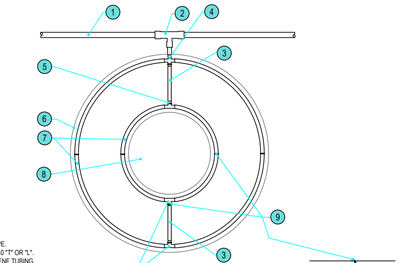

**LEGEND:**
1. NETAFIM - 2" DISC FILTER MODEL # DF020-080 - 80 MESH YELLOW DISK.
2. SCHEDULE 80 PVC UNION. (INLET AND OUTLET).
3. VALVE BOX WITH COVER: NDS 13"W X 24"L X 15"D OR APPROVED EQUAL.
4. ISOLATION VALVES SHOULD BE INSTALLED UP AND DOWN STREAM TO ASSIST WITH CLEANING.
5. MANLINE FROM POC, DCVA AND BLOWOUT.
6. MANLINE TO ZONE VALVES.
7. PEA GRAVEL - MIN. 6" DEEP. MIN. 6" DEEP ENCLOSED IN LANDSCAPE CLOTH TO PROTECT FROM DIRT.
8. BRICK (1 OF 4).

TO BE INSTALLED WHEN DRIP LINE EXCEEDS 500M.

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

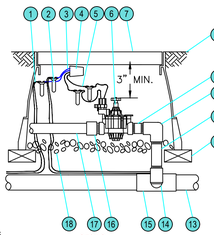
## 1 DISK FILTER - NETAFIM 2" HP - 80 MESH

N.T.S. P-DE-FIL-12




**LEGEND:**
1. PVC LATERAL PIPE.
2. PVC SCHEDULE 40 "T" OR "L".
3. 1/2 " POLYETHYLENE TUBING.
4. BARBED CROSS OR 2 BARBED "T"
5. BARBED "T"
6. PROJECTED CANOPY LINE OF TREE.
7. RAIN BIRD XFS DRIPLINE LATERAL (XFS-06-12) 4"DEPTH
8. ROOT BALL.
9. WIRE STAKES LOCATED AT ALL FITTINGS AND HALFWAY POINTS OF EACH DRIP RUN. MAXIMUM 18" SPACING.

**NOTES:**
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.



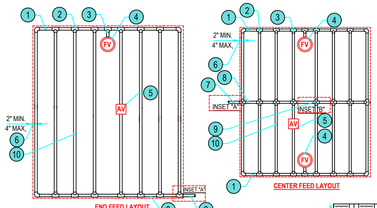

**LEGEND:**
1. STANDARD 14G DIRECT BURIAL WIRE.
2. WATERPROOF WIRE CONNECTION.
3. CONNECT 14G WIRES TO BLUE WIRES
4. RAIN BIRD 2W-1 ESP-2WIRE DECODER.
5. CONNECT BLACK WIRES TO VALVE WIRES.
6. REMOTE CONTROL VALVE: RAIN BIRD PGA.
7. VALVE BOX WITH COVER AS PER SPEC.
8. FINISH GRADE.
9. (OPTIONAL) PVC SCH 80 NIPPLE (MIN. 6").
10. (OPTIONAL) PVC SCH 40 ELL.
11. (OPTIONAL) PVC SCH 80 NIPPLE.
12. BRICK (1 OF 4).
13. PVC MAINLINE.
14. (OPTIONAL) PVC SCH 40 STREET ELL.
15. PVC SCH 40 TEE OR ELL.
16. PVC SCH 40 MALE ADAPTER.
17. PVC LATERAL PIPE.
18. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL.

☑ SELECT DESIRED VALVE
☐ REMOTE CONTROL VALVE
☐ PRESSURE REGULATING REMOTE CONTROL VALVE

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

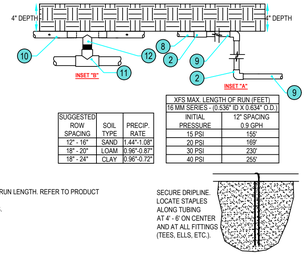
## 2 VALVES - PGA SERIES - ESP 2-WIRE

N.T.S. P-DE-VLV-10




**LEGEND:**
1. PVC EXHAUST FOOTER.
2. PVC OR POLY "T" OR "L" (TYPICAL)
3. BARB "X" MALE FITTING IF REQUIRED. (TYPICAL)
4. FLUSH VALVE LOCATED AT FOOTER(S).
5. AIR VACUUM RELIEF VALVE LOCATED AT HIGHEST POINT.
6. PERIMETER DRIP LINE PIPE TO BE INSTALLED 2" MIN. 4" MAX. FROM PERIMETER OF AREA.
7. PVC SUPPLY PIPE FROM FILTERED AND REGULATED. CONTROL VALVE (SIZE TO MEET LATERAL FLOW DEMAND).
8. PVC OR POLY SUPPLY HEADER.
9. CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE. (TYPICAL) SEE INSET DETAIL "A" OR "B".
10. XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY .9GPH @ 12" ON CENTER.
11. PVC OR POLY "X" THREAD "T" FITTING. SIZED TO MEET FLOW DEMAND.
12. BARB "X" BARB "MPT" TEE.

**NOTES:**
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.



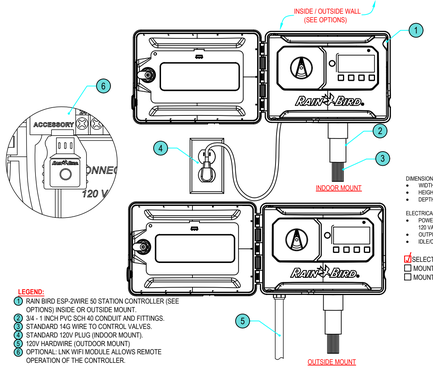

| SUGGESTED ROW SPACING | SOIL TYPE | PRECIP. RATE |
|---|---|---|
| 12" - 16" | SAND | 1.44"-1.08" |
| 16" - 20" | LOAM | 0.96"-0.87" |
| 18" - 24" | CLAY | 0.96"-0.72" |

| XFS MAX. LENGTH OF RUN (FEET) 16 MM SERIES - (0.536" ID X 0.634" O.D.) | |
|---|---|
| INITIAL PRESSURE | 12" SPACING 0.9 GPH |
| 15 PSI | 155' |
| 20 PSI | 169' |
| 30 PSI | 230' |
| 40 PSI | 265' |




## 3 RAIN BIRD ESP-2WIRE CONTROLLER

N.T.S. P-DE-13




**LEGEND:**
1. RAIN BIRD ESP-2WIRE 50 STATION CONTROLLER (SEE OPTIONS) INSIDE OR OUTSIDE MOUNT.
2. 3/4 - 1 INCH PVC SCH 40 CONDUIT AND FITTINGS.
3. STANDARD 14G WIRE TO CONTROL VALVES.
4. STANDARD 120V PLUG (INDOOR MOUNT).
5. 120V HARDWIRE (OUTDOOR MOUNT)
6. OPTIONAL: LNK WIFI MODULE ALLOWS REMOTE OPERATION OF THE CONTROLLER.

DIMENSIONS:
- WIDTH - 10.70"
- HEIGHT - 7.70"
- DEPTH - 4.40"

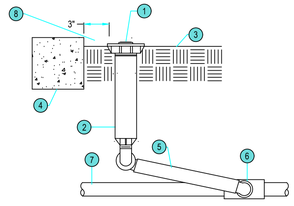
ELECTRICAL SPECIFICATIONS:
- POWER SUPPLY VOLTAGE - 120 VAC +/- 10%
- OUTPUT - 26.5 VAC - 1.0A
- IDLE/OFF POWER DRAW 0.06A

☑ SELECT DESIRED LOCATION
☐ MOUNTED INDOOR
☐ MOUNTED OUTDOOR

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

## 4 SPRAYS - RAIN BIRD 1804 C/W MPR NOZZLE

N.T.S. P-DE-SPR-11




**LEGEND:**
1. RAIN BIRD MPR NOZZLE UNLESS OTHERWISE NOTED ON DRAWING. .
2. POP-UP SPRAY SPRINKLER RAIN BIRD 1804.
3. FINISH GRADE.
4. CURB, SIDEWALK OR FOUNDATION.
5. PRE-MADE SWING ASSEMBLY
6. LATERAL LINE PIPE FITTING (TEE OR ELBOW).
7. LATERAL LINE PIPING.
8. 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:**
1. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION.
2. TEFLON TAPE ALL THREADED JOINTS.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWING.

## 5 RAIN BIRD XFS-CV DOUPLE LOOP TREE RING LAYOUT

N.T.S. P-DE-DRI-03

**NOTES:**
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.

## 6 SUB-SURFACE DRIP INSTALLATION - RAIN BIRD XFS-09-CV-12

N.T.S. P-DE-14


**LEGEND:**
1. VALVE BOX WITH COVER: AS PER SPEC.
2. FINISH GRADE.
3. RAIN BIRD AIR/VACUUM RELIEF VALVE (AVRV50). INSTALL 1 PER 10GPM FLOW PER ZONE.
4. 1/2" FIPT COUPLING.
5. 1/2" X 3" SCH. 80 NIPPLE. (HEIGHT MAY VARY DEPENDING ON PIPE DEPTH).
6. BRICK SUPPORTS IF LOCATED IN HIGH TRAFFIC AREA.
7. 6-INCH MIN DEPTH OF 3/4-INCH WASHED GRAVEL.
8. PVC TEE IF LOCATED IN HEADER OR FOOTER. POLY TEE IF LOCATED IN DRIP LINE.
9. PVC PIPE OR DRIP LINE.

**NOTES:**
1. USE ONE AIR/RELIEF VALVE FOR EVERY 10 GPM PER ZONE. LOCATE AT HIGH POINTS. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.

## 7 DRIPLINE - AIR/VACUUM RELIEF (AVRV050)

N.T.S. P-DE-DRI-04


**LEGEND:**
1. 6" ROUND PLASTIC VALVE BOX.
2. FINISH GRADE.
3. FCH-H-FIPT FLUSH VALVE. INSTALL 1 PER 10GPM FLOW PER ZONE.
4. 3/4" X 3" SCH. 80 NIPPLE.(HEIGHT MAY VARY DEPENDING ON PIPE DEPTH).
5. BRICK SUPPORTS IF LOCATED IN HIGH TRAFFIC AREA.
6. PEA GRAVEL SUMP (6" DEEP).
7. PVC TEE IF LOCATED IN HEADER OR FOOTER. POLY TEE IF LOCATED IN DRIP LINE.
8. PVC PIPE OR DRIP LINE.

**NOTES:**
1. USE ONE FLUSH VALVE FOR EVERY 10 GPM PER ZONE. LOCATE AT LOW POINTS. FLUSH RATE IS 0.8 GPM. FLUSH PRESSURE IS 2 PSI. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.

## 8 DRIPLINE- FCH-H-FIPT FLUSH VALVE

N.T.S. P-DE-15

| NO. | DATE: | BY: | TYPE: |
|---|---|---|---|
| 1. | 06/12/2025 | BG | FILE CREATION |
| 2. | 06/13/2025 | BG | FOR REVIEW |
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| TYPE: | DESCRIPTION: |
|---|---|
| FILE NAME | WES-TECH SAMPLE IRRIGATION DESIGN 3.DWG |
| PAPER | ARCH D (24.00 X 36.00 INCHES) |
| FILE # | |
| SCALE | |
| POC SIZE | 2" |
| POC PSI | 86 PSI |
| POC #2 SIZE | N/A |
| POC #2 PSI | N/A |

(PRINT IN COLOUR)

NOTES:

**DRAWING IS SCHEMATIC:**
FIELD ADJUSTMENTS MAY BE NEEDED. LOCATE ALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN TURF OR PLANTING AREAS. COMPONENTS MAY BE DRAWN OUTSIDE OF AREAS FOR EASE OF READING.

**DISCLAIMER:**
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**IRRIGATION SCHEDULE QUANTITIES:**
PIPE LENGTHS ARE BASED ON DESIGN MEASUREMENTS PLUS 10% MARGIN OF ERROR. QUANTITIES ARE SUPPLIED TO ASSIST WITH TENDERING AND DO NOT REPRESENT FINAL INSTALLED AMOUNTS.



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 3

CLIENT:

# DET 02

SHEET 9 OF 9