

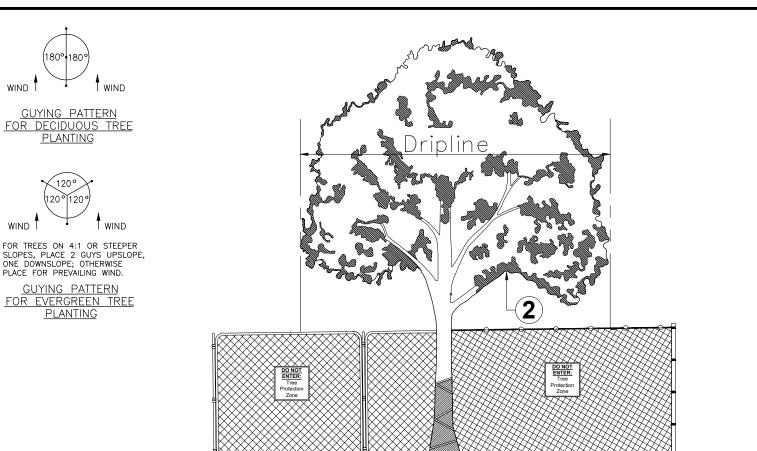
Trees planted upon park land, public property, or within the Public Right of Way (PRW) are subject to the following restrictions:

- Prior to digging, the Utility Notification Center of Colorado shall be contacted at 811 to locate underground utilities.
- A planting permit from the Grand Junction City Forester (GJCF) is required regardless of approved plans to ensure the City is available to inspect the planting of public trees.
- Tree planting shall not occur when daytime temperatures reach or exceed 90-degrees Fahrenheit, unless approved by
- Only tree species approved by the GJCF shall be planted.
- Trees shall not be planted in tree lawns less than six feet wide unless authorized by the GJCF.
- Trees shall be centered in tree lawns and/or planting areas. Where sidewalks are not present, trees shall be located as designated by the GJCF.
- Unless authorized by the GJCF, trees shall be located:
 - Outside street intersection sight distance triangle, measured 30 (thirty) feet along the PRW in each direction from the corner.
- Min. 10 (Ten) feet from alleys and driveways
- Min. 20 (Twenty) feet from stop signs and curb ramps
- Min. 25 (Twenty-five) feet from street lights
- Min. 10 (Ten) feet from electric/gas/water lines, water meters/pits, and fire hydrants
- Min. 15 (Fifteen) feet from small cell towers
- If overhead utility wires exist, only trees with an expected mature size that meet current clearance regulations may
- Tree spacing shall be based on projected mature canopy size and above restrictions, or as approved by the GJCF.
- All electric fixtures and utilities, including but not limited to outlets and lights, shall be located at outside perimeter of tree planting areas within hardscape. In tree lawns, fixtures shall be placed minimum 3 (three) feet radially from base of trunk.

When planting is completed, contact forestry@gjcity.org for final inspection.

	DESCRIF HON	DATE	FROJECT NO. E2012-E201202 SCALES. FLAN & FROFILE
R	EVISION \triangle		DRAWN BY KA DATE APRIL 2023
R	EVISION \triangle		DESIGNED BY JB DATE APRIL 2023
R	EVISION \triangle		CHECKED BY XXX DATE 201X
R	EVISION \triangle		APPROVED BY XXX DATE 201X





Any work in these areas require approval from Grand Junction City Forester (GJCF) prior to activity. Contact GJCF for instruction.

Area 1: Tree Protection Zone and Critical Root Zone Protection

- -The Tree Protection Zone (TPZ) shall be equal to dripline or 1.5 feet radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater.
- -The Critical Root Zone (CRZ) shall be equal to one foot radially from the tree for every on inch of trunk diameter at breast height.
- A. Minimum 6' in height steel chain link fence is required unless otherwise approved by the GJCF. Steel chain link fence panels or rolls are acceptable.
- 1. When chain link rolls are installed, it shall be fastened to heavy duty steel posts with safety caps at minimum five (5) attachment points with 12-gauge wire, including points at top and bottom. Weave wire through top of roll to eliminate sag.
- 2. Posts shall be driven 2' to 3' below grade and spaced at max. five to ten foot (5' 10') o.c. intervals. Fencing must be kept taut at all times.
- 3. "Tree Protection Zone" signs shall be placed one (1) per each tree protection zone minimum or more per direction of GJCF; maintain in the location and condition in which approved.
- 4. TPZ, including signage, shall be maintained in the location and condition in which approved.

Area 2: Canopy Protection

Contact GJCF if potential for damage exists and/or if pruning is needed for any clearance issues prior to performing work.

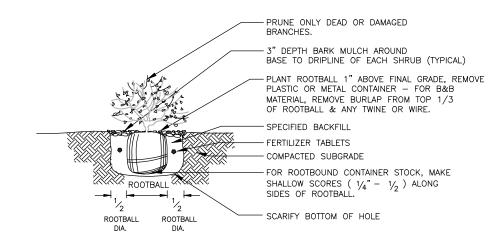
Notes

PLANTING

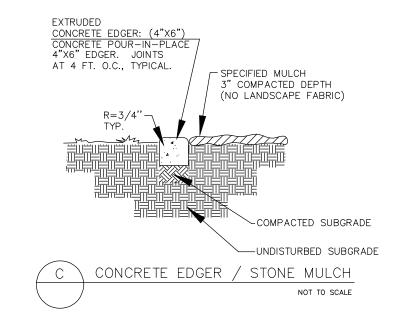
PLANTING

- 1. GJCF Tree Protection Specifications shall be followed throughout duration of work.
- 2 After TP7 is approved:
 - A. TPZ shall not be resized, modified, removed, or altered in any manner without prior written approval. TPZ shall be maintained in place as approved until removal is authorized by GJCF.
 - B. Entrance/access to the TPZ is not permitted without prior written approval from the GJCF.
 - C. No materials, debris, equipment, or site amenities shall be stored within the TPZ without prior written approval from the GJCF.
- 3. While TPZ fencing is in place, trees shall be deep-root watered at an interval of once every two weeks when temperatures are at or above 40 degrees F. Trees shall be watered at the rate of twenty-five (25) gallons per inch DBH. GJCF may ask for proof of watering.
- 4. Violation of TPZ or damage to protected trees is subject to penalty per City Ordinance.
- 5. Responsible party for tree removal or damage shall be responsible for lost value based on industry standard tree appraisal methods as determined by GJCF.

PUBLIC WORKS ENGINEERING DIVISION

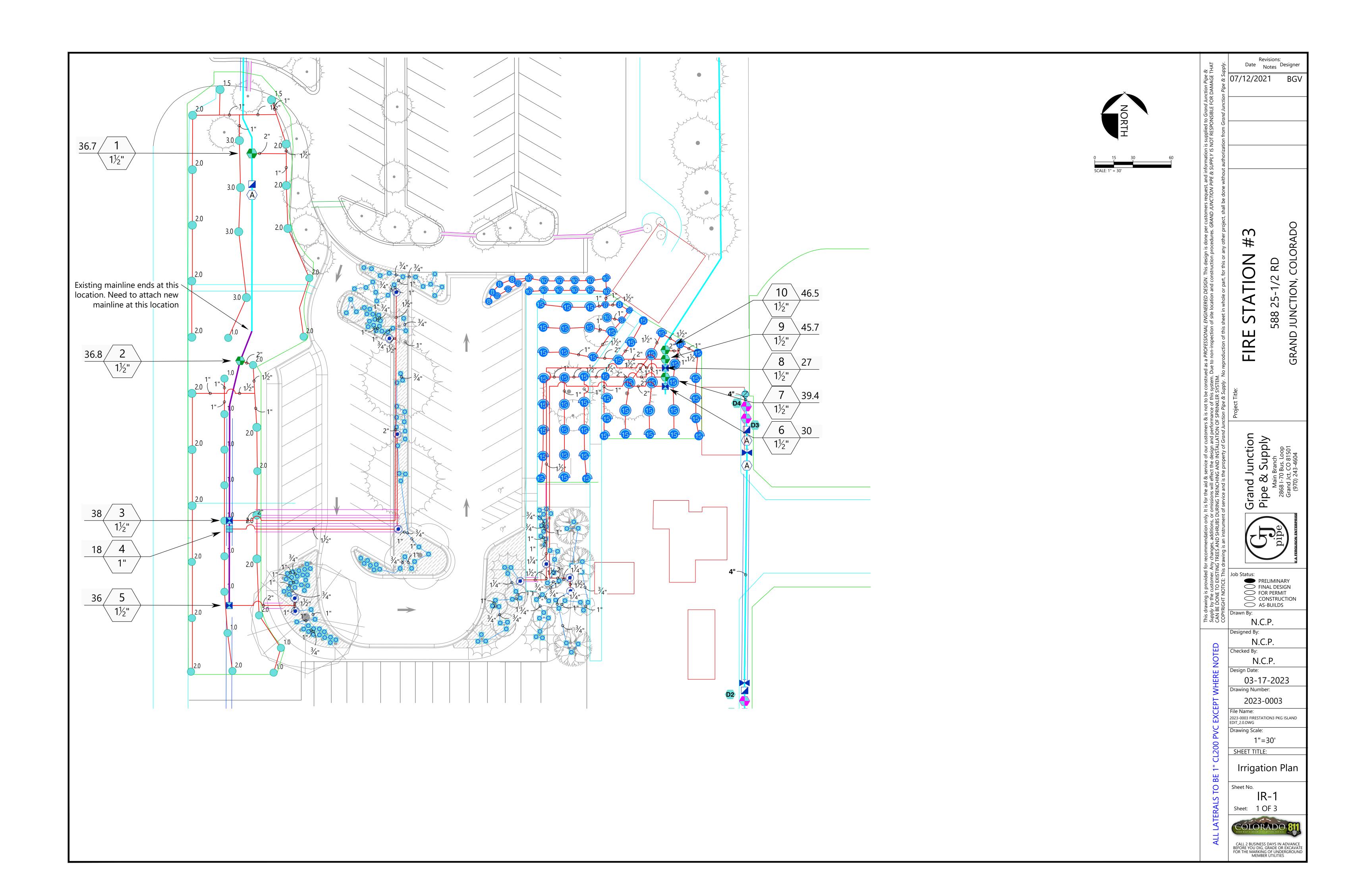


B SHRUB & PERENNIAL PLANTING SECTION
NOT TO SCALE



₹ 1				
_	DESCRIPTION	DATE	PROJECT NO. E2012-E201202	SCALES: PLAN & PROFILE
ì	REVISION \(\triangle \)	. –	DRAWN BY KA DATE APRIL 2023	
;	REVISION A	. –	DESIGNED BY JB DATE APRIL 2023	
- 1	REVISION A		CHECKED BY XXX DATE 201X	
	REVISION \triangle	. –	APPROVED BY XXX DATE 201X	





IRRIGATION SCHEDULE FIRESTATION 3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC
®	RAIN BIRD 1806-PRS 08H TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	5	180
®	RAIN BIRD 1806-PRS 08Q TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	1	90
	RAIN BIRD 1806-PRS 10F TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	1	360
	RAIN BIRD 1806-PRS 10H TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	8	180
	RAIN BIRD 1806-PRS 10Q TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	4	90
15	RAIN BIRD 1806-PRS 15F TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	15	360
15	RAIN BIRD 1806-PRS 15H TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	27	180
15	RAIN BIRD 1806-PRS 15Q TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	5	90
8	RAIN BIRD 1806-PRS 08V TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	5	ADJ
15	RAIN BIRD 1806-PRS 15V TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	3	ADJ
	RAIN BIRD 1804-PRS-1400 FLOOD 1404 FLOOD BUBBLER 4.0" POPUP WITH PRESSURE REGULATING DEVICE.	158	360
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
1.0	RAIN BIRD 5006-PL-PC, FC-R-SS-LA 1.0 TURF ROTOR, 6.0" POP-UP. STAINLESS STEEL RISER, ADJUSTABLE AND FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE.	11	
1.5	RAIN BIRD 5006-PL-PC, FC-R-SS-LA 1.5 TURF ROTOR, 6.0" POP-UP. STAINLESS STEEL RISER, ADJUSTABLE AND FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE.	2	
2.0	RAIN BIRD 5006-PL-PC, FC-R-SS-LA 2.0 TURF ROTOR, 6.0" POP-UP. STAINLESS STEEL RISER, ADJUSTABLE AND FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE.	23	
3.0	RAIN BIRD 5006-PL-PC, FC-R-SS-LA 3.0 TURF ROTOR, 6.0" POP-UP. STAINLESS STEEL RISER, ADJUSTABLE AND FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE.	4	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-PRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESB VALVE AND 1IN. PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3 GPM-20 GPM	1
	RAIN BIRD XCZ-150-LCDR 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2N. PESB-R SCRUBBER GLOBE VALVE WITH SINGLE 1-1/2N. PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-62 GPM.	4
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.	10
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>
	RAIN BIRD PESB-PRS-D 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.	5
	RAIN BIRD 44-LRC 1" 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	1
$\langle A \rangle$	1" CONTINUOUS ACTING AIR RELIEF VALVE	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	1,640 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	500 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	520 L.F.
	IRRIGATION LATERAL LINE DRIP TUBING 3/4"	600 L.F.
	IRRIGATION LATERAL LINE DRIP TUBING 80 1"	300 L.F.
	IRRIGATION MAINLINE: PROPOSED 4" SCH 40	160 L.F.
	IRRIGATION MAINLINE EXISTING	
	PIPE SLEEVE EXISTING	
	PIPE SLEEVE EXISTING	
	PIPE SLEEVE EXISTING	
	Valve Callout	
	Valve Number	
<i>/</i> # ♦ # ●	Valve Flow	
. /	Valve Size	

IRRIGATION NOTES:

- 1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND OWNER REPRESENTATIVE.
- 2. INSTALLATION CONTRACTOR TO BE RESPONSIBLE FOR ALL INSTALLATION STANDARDS AND PRACTICES.
- 3. INSTALLATION CONTRACTOR TO BE RESPONSIBLE FOR ALL PERMITTING AND INSPECTION REQUIREMENTS.
- 4. ALL PIPE SHOULD BE SLEEVED WHEREVER CONCRETE IS TO BE OVERLAID.
- 5. ALL SLEEVES TO BE 2 TIMES THE DIAMETER OF THE PIPE TO BE SLEEVED.
- 6. ALL MAIN LINE SLEEVES TO HAVE AN ADDITIONAL SLEEVE AT SAME FOR CONTROL WIRES
- 7. WIRE SPLICES TO BE LOCATED IN A VALVE BOX AT LEAST 10" (INCH) ROUND OR LARGER.
- 8. MAIN LINE TO BE BURIED MINIMUM OF 18" TO TOP MAIN LINE OF PIPE.
- 9. MAIN LINE PIPES LARGER THAN 3" SHALL HAVE THRUST BLOCKS AT ALL INTERSECTIONS AND DIRECTIONAL CHANGES.
- 10. IRRIGATION PLAN IS DIAGRAMMATIC. ANY COMPONENTS SHOWN ON PLAN OUTSIDE OF LANDSCAPE ARE SHOWN FOR ILLUSTRATION CLARIFICATION ONLY.
- 11. SWING PIPE SHALL BE USED ON ALL SPRINKLER HEADS WITH A FLOW UNDER 6 GPM, WITH MAXIMUM LENGTH OF SWING PIPE NO LONGER THAN 5'(FOOT). ALL SPRINKLER HEADS WITH A FLOW OVER 6 GPM SHALL BE INSTALLED WITH SWING JOINTS
- 12. ISOLATION VALVES TO BE LOCATED IN 10" (INCH) ROUND VALVE BOX OR LARGER.
- 13. FOR OBSTRUCTIONS (ELECTRICAL TRANSFORMERS, TREES, FIRE HYDRANTS, ETC...) THAT WILL INTERFERE WITH PROPER COVERAGE OF SPRINKLER HEADS, WILL REQUIRE THE ADDITION OF PROPERLY PATTERNED HEADS AROUND OBSTRUCTION IN ORDER TO PROVIDE REQUIRED HEAD TO HEAD COVERAGE TO ALL IRRIGATED AREAS.
- 14. SPRINKLER HEADS TO BE SET PERPENDICULAR TO FINISHED GRADE AND ADJUSTED TO PREVENT OVER SPRAY ONTO NON IRRIGATED AREAS.
- 15. LATERALS ARE SIZED AT TRANSITIONS ONLY, SEGMENTS THAT ARE NOT NOTED WILL BE THE SAME SIZE AS ADJACENT SEGMENTS. UP STREAM SEGMENTS WILL NEVER BE SMALLER THAN ANY DOWN STREAM SEGMENTS ON THE SAME LATERAL.

st, and information is supplied to <i>Grand Junction Pipe I PIPE & SUPPLY</i> IS NOT RESPONSIBLE FOR DAMAGE	e without authorization from ${\it Grand\ Junction\ Pipe\ \&\ Sl}$	07/12/2021	BG\
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Date Notes Designer

STATION

RD

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NOC

FIRE STA

Grand Junction
Pipe & Supply
Main Branch
28681-70 Bus. Loop



Job Status:

PRELIMINARY

FINAL DESIGN

FOR PERMIT

CONSTRUCTION

AS-BUILDS

N.C.P.

Designed By:

N.C.P.

Checked By:

N.C.P.

Design Date:

03-17-2023

Drawing Number:

2023-0003

File Name:
2023-0003 FIRESTATION3 PKG ISLAND
EDIT_2.0.DWG

Drawing Scale:

NTS

SHEET TITLE:

Irrigation Plan

Sheet No.

CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES

VALVE SCHEDULE

<u>NUMBER</u>	MODEL	SIZE	<u>TYPE</u>	<u>GPM</u>	DESIGN PSI	FRICTION LOSS	VALVE LOSS	<u>PSI</u>	PSI @ POC	PRECIP
1	RAIN BIRD PESB-PRS-D	1-1/2"	TURF ROTOR	36.69	45	1.87	3.53	50.4		0.43 in/h
2	RAIN BIRD PESB-PRS-D	1-1/2"	TURF ROTOR	36.76	45	2.11	3.53	50.6		0.43 in/h
3	RAIN BIRD XCZ-150-LCDR	1-1/2"	BUBBLER	38	30	3.36	7.46	40.8		4.33 in/h
4	RAIN BIRD XCZ-100-PRB-COM	1"	BUBBLER	18	30	3.4	18.7	52.1		4.32 in/h
5	RAIN BIRD XCZ-150-LCDR	1-1/2"	BUBBLER	36	30	2.35	6.92	39.3		6.39 in/h
6	RAIN BIRD XCZ-150-LCDR	1-1/2"	BUBBLER	30	30	3	5.3	38.3		3.85 in/h
7	RAIN BIRD PESB-PRS-D	1-1/2"	TURF SPRAY	39.39	30	1.29	3.51	34.8		1.47 in/h
8	RAIN BIRD XCZ-150-LCDR	1-1/2"	BUBBLER	27	30	4.47	5.06	39.5		4.9 in/h
9	RAIN BIRD PESB-PRS-D	1-1/2"	TURF SPRAY	45.72	30	1.97	3.56	35.5		1.63 in/h
10	RAIN BIRD PESB-PRS-D	1-1/2"	TURF SPRAY	46.54	30	0.9	3.57	34.5		1.57 in/h

