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NOTES:

1. INSTALL BACKFLOW DEVICE IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.

2. SLOPE TOP SURFACE OF PAD AT 0.5 % WITH BROOM FINISH. MAKE PIPE SLEEVES WITH 1-1/2 INCH LARGER DIAMETER PIPE THAN PENETRATING PIPE SIZE.

3. ALL HINGED CONNECTION LOCATIONS AND HARDWARE TO BE TAMPER PROOF.

4. ALL WELD JOINTS SHALL BE CONTINUOUS AND GROUND SMOOTH.
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. SET A 4-INCH THICK CONCRETE PAD BELOW VALVE WITH NO. 4 REBAR.
1. SLEEVE TO BE SET SQUARE OVER GATE VALVE TO ALLOW FOR OPERATION OF VALVE WITHOUT BINDING.
VALVE BOX WITH COVER: RAINBIRD LOCKING BOX WITH PENTA BOLT, STAMP LID WITH IRRIGATION COMPONENT (PRV). PURPLE LIDS REQUIRED WHERE CONNECTING TO NON-POTABLE WATER.

FINISH GRADE

TYPE K COPPER FROM EXISTING 2-INCH BACKFLOW PREVENTER

PRESSURE REGULATING VALVE: WATTS MODEL 223 (2-INCH SIZE) ADJUST TO 90 PSI

MALE ADAPTER (2 REQUIRED)

SCHRADER VALVE

PVC MAINLINE TO SYSTEM

BRICK (1 OF 4)

NON-WOVEN LANDSCAPE FABRIC

PVC REDUCING TEE
30-INCH LINEAR LENGTH OF WIRE, COILED

WATER PROOF CONNECTION 3M-DBYR6 (1 OF 2)

CHRISTY ID TAG: "WARNING, NON-POTABLE WATER - DO NOT DRINK"

VALVE BOX WITH COVER: RAINBIRD LOCKING BOX WITH PENTA BOLT, BRAND VALVE STA. NO ON LID WITH 3-INCH HIGH LETTERS. PURPLE LIDS REQUIRED WHERE CONNECTING TO NON-POTABLE WATER.

REMOTE CONTROL VALVE: RAIN BIRD PESB SERIES (SIZED AS SHOWN ON DRAWINGS)

FINISH GRADE/TOP OF MULCH

1"-3"MAX

COILED SPARE WIRES

PVC TRUE UNION VALVE SCH 80, SPEARS (OR EQUIVALENT)

PVC SCH 40 ELL

BRICK ON COMPACTED SOIL (1 OF 4) PLACE SO BRICKS ARE NOT DIRECTLY OVER MAINLINE.

PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

PVC MAINLINE

PVC SCH 40 TEE OR ELL

LOOP 1' OF 2 SPARE WIRES IN VALVE BOX

PVC SCH 80 UNION

NON-WOVEN LANDSCAPE FABRIC
NOTE:
CONTROL ZONE KIT:
RAIN BIRD XCV-100-B-COM (INCLUDES BALL VALVE AND QKCHK200 BASKET FILTER)
HQ44AW QUICK COUPLING VALVE

SCALE: 1.5” = 1’-0” IRRIGATION DETAIL

OPTIONS:
- □ RC = YELLOW RUBBER COVER
- □ LRC = YELLOW LOCKING RUBBER COVER
- □ LRCR = PURPLE LOCKING COVER

NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
VALVE BOX WITH COVER: RAINBIRD LOCKING BOX WITH PENTA BOLT, BRAND "MV" ON LID WITH 3-INCH HIGH LETTERS. PURPLE LIDS REQUIRED WHERE CONNECTING TO NON-POTABLE WATER.

FINISH GRADE/TOP OF MULCH

30-INCH LINEAR LENGTH OF WIRE, COILED

WATER PROOF CONNECTION 3M–DBYR6 (1 OF 2)

CHRISTY ID TAG: "WARNING NON-POTABLE WATER–DO NOT DRINK"

MASTER VALVE: GRISWOLD MODEL 2230 PRV (SIZED TO MATCH POC) ADJUST TO DESIGN PRESSURE

PVC MAINLINE

BRICK (1 OF 4)

PVC SCH 40 MALE ADAPTER

NON-WOVEN LANDSCAPE FABRIC
VALVE BOX WITH COVER: RAINBIRD LOCKING BOX WITH PENTA BOLT, STAMP LID WITH IRRIGATION COMPONENT (IGV). PURPLE LIDS REQUIRED WHERE CONNECTING TO NON-POTABLE WATER.

FINISH GRADE/TOP OF MULCH

30-INCH LINEAR LENGTH OF WIRE, COILED

WATER PROOF CONNECTION 3M-DBYR6 (1 OF 2)

CHRISTY ID TAG: "WARNING NON-POTABLE WATER DO NOT DRINK"

MASTER VALVE: RAIN BIRD PESB (SIZE TO MATCH METER SIZE: 1-INCH MIN.)

PVC MAINLINE TO SYSTEM

BRICK (1 OF 4)

TRUE UNION BALL VALVE SCH 80

PVC SCH 80 UNION FOR SERVICING ASSEMBLY

NON-WOVEN LANDSCAPE FABRIC

The Town of ERIE COLORADO

DRAWING TITLE: NON-PRESSURE REGULATING MASTER VALVE ASSEMBLY

DRAWING NUMBER: P09

DRAWN BY: J. ASCUNCE APPROVED BY: R. CRABB DATE: 09/2018
VALVE BOX WITH COVER: RAINBIRD LOCKING BOX WITH PENTA BOLT, PURPLE LIDS REQUIRED WHERE CONNECTING TO NON-POTABLE WATER.

FINISH GRADE/TOP OF MULCH

AIR AND VACUUM RELIEF VALVE: CRISPIN U10

NO ROCK IN VALVE BOX

1" BRASS CLOSE NIPPLE

1" BRASS BALL VALVE

BRICK (1 OF 4)

1" SCH. 80 NIPPLE, LENGTH AS REQ'D

MAINLINE TEE OR EL
FINISH GRADE/TOP OF MULCH

POP-UP ROTOR SPRINKLER
WITH STAINLESS STEEL RISER,
AUTOMATIC CHECK VALVE AND
PRESSURE REGULATING STEM

PVC SCH 80 NIPPLE
(LENGTH AS REQUIRED)

PVC SCH 40 ELL

PVC SCH 40 STREET ELL

PVC LATERAL PIPE

PVC SCH 40 TEE OR ELL

PVC SCH 80 NIPPLE
(LENGTH AS REQUIRED)

PRESSURE REGULATING STEM
DO NOT USE

1/2-INCH MALE NPT X 
.490" BARB ELBOW

1/2-INCH DIA. SWING PIPE, 
12-INCH LENGTH

1/2-INCH MALE NPT X 
.490" BARB ELBOW

FINISH GRADE

RAIN BIRD 1812-SAM-PRS 
SPRAY WITH MPR NOZZLE, 
PER PLAN

CL 200 PVC LATERAL

NOTES:
1. PRS MAY NOT OPERATE PROPERLY IF NON-RAIN BIRD NOZZLES 
   ARE SUBSTITUTED.
NOTE: PRS MAY NOT OPERATE PROPERLY IF NON-RAIN BIRD NOZZLES ARE SUBSTITUTED.
NOTES:

1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
2. ALL PIPE TO BE INSTALLED PER MANUFACTURER’S SPECIFICATIONS. “SNAKE” UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MIN. OF 2” CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10’ AND PROVIDE LOOSE 20” LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.
<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BENDS</th>
<th>TEE OR DEAD END</th>
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<tbody>
<tr>
<td></td>
<td>11°</td>
<td>22—1/2°</td>
</tr>
<tr>
<td>3&quot;</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>8&quot;</td>
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*BASED ON 2,000 PSF BEARING CAPACITY

NOTES:

1. USE NO. 4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.

2. INSTALL THRUST BLOCK SO THE HORIZONTAL AND VERTICAL DIMENSIONS OF THE THRUST BLOCK ARE APPROXIMATELY EQUAL.

3. PLASTIC COVERING NOT SHOWN FOR CLARITY OF DETAIL.
DIFFUSER BUG CAP: RAIN BIRD MODEL DBC-025

1/4-INCH TUBING STAKE
RAIN BIRD TS-025

DRIP EMITTER (REFER TO SPECIFICATIONS)

1/4-INCH DISTRIBUTION TUBING

MULCH BED

FINISHED GRADE

POLY DRIP LATERAL PIPE
NOTE:
1. IF PVC PIPE IS UTILIZED, SOLVENT WELD TEE OR ELBOW SHALL BE USED.
EXTERIOR REMOTE DOCKING – HUNTER ROAM-WH

CENTRAL CONTROL COMMUNICATION CARTRIDGE
HUNTER ACC-COM-GPRS (INSIDE CABINET)

CONTROLLER: HUNTER ACC-1200
PEDESTAL MOUNT ACC-PED

RAIN BIRD WIRELESS RAIN/FREEZE SENSOR WR2RFC
(INSIDE CABINET)

120 VOLT, 15 AMP
3-PRONG RECEPTACLE

MINIMUM 8 FEET

24” X 18” X 18” CONCRETE FOOTING FOR PED-
ESTAL ASSEMBLY, ROUTE 120V AC ELECTRICAL
POWER, COMMON AND CONTROL WIRES THROUGH
CONDUIT AS SHOWN

FINISH GRADE

CONTROL WIRES TO ELECTRICAL VALVES

#6 BARE COPPER GROUNDING WIRE TO
BRONZE Clamp

COPPER CLAD GROUNDING ROD (5/8” X 8’)

NOTE: ALL ELECTRICAL WORK MUST CONFORM TO
LOCAL CODES. REFER TO PRODUCT LITERATURE FOR
ADDITIONAL INSTALLATION REQUIREMENTS.
NOTES:
1. THE EXCAVATED AREA TO BE COMPACTED USING A DOUBLE-DRUM VIBRATORY ROLLER.
2. TREAD SURFACE ("CRUSHERFINE" OR "GRANITE SANDS") TO BE RAKED BY HAND OR MACHINE TO PROVIDE ADEQUATE OUTSLOPING (2%).
3. WHILE WET, THE SURFACE IS COMPACTED DOWN TO THE FINAL GRADE WITH THE VIBRATORY ROLLER.
4. TRENCH SHOULD BE COMPACTED TO 8" DEPTH. COMPACTED SUBGRADE IS TO BE COVERED WITH GEOTEXTILE FABRIC PRIOR TO INSTALLATION OF GRANITE SANDS.
5. FOR AREAS WITH A CROSS SLOPE, A DRAINAGE SWALE IS INSTALLED ON THE UPHILL SIDE OF THE TRAIL.
6. TRAIL ALIGNMENT SHOULD WORK WITH THE NATURAL TOPOGRAPHY.
7. CONSIDER PROVIDING OCCASIONAL VIEWING AND SEATING AREAS ALONG THE PATH TO ACCOMODATE PASSIVE RECREATION AREAS.
8. TRAIL COLOR TO BE APPROVED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE.
OPTIMUM PLANTING PERIODS ARE
FROM MARCH 15 TO JUNE 15 AND
FROM SEPTEMBER 1 TO OCTOBER 15

PLANT TREE SO THAT ROOT FLARE
IS 2" ABOVE FINAL GRADE.

DECIDUOUS

POSITION OF STAKES SHALL BE
ORIENTED WITH REGARDS TO
prevailing winds. Orient stakes
to north as shown.

EVERGREEN

SET PLUMB IN THE CENTER OF
PLANTING PIT AND FACE FOR BEST
EFFECT.

PLASTIC T-POST CAP

REMOVE ALL TWINE, ROPE, BURLAP
AND WIRE FROM ENTIRE ROOT BALL
AND TRUNK.

3" DEEP MULCH RING PLACED A MIN
OF 4 FT IN DIAMETER. DO NOT
PLACE MULCH IN CONTACT WITH
TREE TRUNK.

BACKFILL THE HOLE 1/3 FULL TO
STABILIZE THE LOWER PART OF THE
ROOT BALL TO PREVENT FROM
SHIFTING. FILL THE REMAINDER OF
THE HOLE BY ADDING THE SOIL A
FEW INCHES AT A TIME AND SETTLE
WITH WATER.

2 TIMES ROOT BALL DIAMETER

1:1 SLOPE ON SIDES OF PLANTING
HOLE.

PLACE ROOT BALL ON UNDISTURBED
SOIL TO PREVENT SETTLEMENT.

GREEN WOVEN POLYPROPYLENE
STRAP; 900 LB BREAK STRENGTH
(DEEPROOT ARBORTITE 7 OR
APPROVED EQUIVALENT)

SHAVE ENTIRE OUTER AND BOTTOM
1" OF ROOT BALL SYSTEM OF
CONTAINER BOUND ROOTS

BACKFILL MIXTURE SHALL CONSIST
OF 2 PARTS NATIVE SOIL AND 1
PART ORGANIC SOIL AMENDMENT.

STAKING NOTES:
DECIDUOUS TREES SHALL BE STAKED USING TWO(2) SIX(6) FOOT STEEL T-POSTS DRIVEN PERPENDICULAR
TO THE TREE AT 180 DEGREES.
EVERGREEN TREES SHALL BE STAKED USING THREE(3) TWO(2) FOOT STAKES DRIVEN AT 120 DEGREES.
ALL STAKES SHALL BE DRIVEN OUTSIDE OF ROOTBALL AND IN UNDISTURBED SOIL.
NOTE:
1. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB.
   HOLD BACK PLANTS 12-18" FROM EDGES.
2. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.

GROUNDCOVER / PERENNIAL

NOTE:
1. DO NOT PLANT ANY PLANT WITH ROOTBALL NOT IN CONFORMANCE WITH COLORADO NURSERY ACT REQUIREMENTS
2. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB
3. SHRUBS NOT PLANTED WITHIN A MULCHED BED REQUIRE A 4" HIGH EARTH SAUCER TO BE CONSTRUCTED CONTAINING A 1" RADIUS
   AND 3" DEEP MULCH COLLAR.
4. USE A 2" TO 4" SETBACK DEPENDING ON SPECIES, SETBACK TO ACCOMODATE MATURE SPREAD OF SPECIES TO PREVENT OVERHANG.
5. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.
NOTE:
1. LOOP IRRIGATION DRIP TUBING INSIDE VALVE BOX FOR EXTENSION OUTSIDE OF BOX DURING BLOWOUT.
IRRIGATION MAINLINE

1. EXISTING MAIN
2. IRRIGATION SADDLE TEE
3. ISOLATION GATE VALVE ASSEMBLY—SEE DETAIL DRAWING
4. CL200 PVC MAINLINE PIPE
5. CONCRETE KICKBLOCK
6. TIE RODS (MEGA LUGS MAY BE USED IN PLACE OF RODDING)
TYPICAL SECTION - CRUSHER FINES LOCATED ON UPHILL SIDE

**Trail Control Line**

4' CRUSHER FINE TRAIL

4" 6:1 2%

CONCRETE BIKEWAY (6 INCH)

GEOTEXTILE (WEED BARRIER)

TRAIL VERTICAL CONTROL POINT ON EXISTING GROUND UNLESS OTHERWISE DESIGNATED ON PLAN PROFILE

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TYPICAL SECTION - CRUSHER FINES LOCATED ON DOWNHILL SIDE

**Trail Control Line**

4' CRUSHER FINE TRAIL

4" 6:1 2%

CONCRETE BIKEWAY (6 INCH)

GEOTEXTILE (WEED BARRIER)

TRAIL VERTICAL CONTROL POINT ON EXISTING GROUND UNLESS OTHERWISE DESIGNATED ON PLAN PROFILE
NOTES:

1. TWO-WIRE DRIP VALVES MUST INCLUDE RAIN BIRD XC2-100-B-COM KIT AS PART OF THE VALVE ASSEMBLY

2. 2-3 FOOT OF "MAXI" WIRE MUST BE EXPOSED IN VALVE BOX
NOTES:

1. TRAIL CONNECTIONS THAT DO NOT MEET AT A 90 DEGREE ANGLE WILL BE FITTED IN THE FIELD AND APPROVED BY THE PARKS MANAGER OR DESIGNEE.

2. TRAIL CONNECTIONS LESS THAN 8FT SHALL BE REQUIRED TO HAVE A 3FT FLARE PLACED AT EACH TRAIL INTERSECTION.

3. TRAIL CONNECTIONS 8FT OR MORE SHALL BE REQUIRED TO HAVE A 5FT FLARE PLACED AT EACH TRAIL INTERSECTION.
NOTES:
1. ALL NON-POTABLE IRRIGATION SYSTEMS MUST BE CLEARLY IDENTIFIED WITH STANDARD SIGNAGE
2. ONE SIGN MUST BE VISIBLE AT EACH PARK ACCESS POINT. ACCESS POINTS INCLUDE WHERE OPEN SPACE AND TRAILS ADJOIN A PARK, PARKING LOTS AND CURB CUTS FROM STREETS, OR ANY OTHER POINT THAT MAY GIVE ACCESS TO PARKS FROM PUBLIC THOROUGHFARE.
3. A MINIMUM OF TWO SIGNS MUST BE INSTALLED AT ANY LOCATION USING NON-POTABLE IRRIGATION EVEN IF ONLY ONE ACCESS POINT EXISTS.
4. CONTACT PARKS & RECREATION DIRECTOR FOR SIGN COLOR SPECIFICATIONS.
NOTES:
1. NO FITTINGS INCLUDING REDUCER BUSHINGS, TEES, ELLS, ETC SHALL BE INSTALLED WITHIN "METER RUN" SEGMENT OF PIPING.
2. DIAMETER OF FLOW SENSOR TEE AND "METER RUN" PIPING SHALL BE EQUAL. NO REDUCER BUSHINGS, ADAPTER, ETC SHALL BE INSTALLED WITHIN FLOW SENSOR TEE.
3. VALVE BOX SHALL NOT REST ON TOP OF FLOW SENSOR CABLE.