

FRONT VIEW

SIDE VIEW

- ① METERED CONTROLLER ENCLOSURE
- ② METER SOCKET WITH TEST BLOCKS
- ③ LOAD CENTER
- ④ CONDUIT (NOT SUPPLIED) FOR LINE FEED INTO METER
- ⑤ POURED CONCRETE BASE 6" THICKNESS EXTEND 6" ABOVE GRADE SLOPE AT 0.5% MIN.
- ⑥ FINISHED GRADE

- ⑦ DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES
- ⑧ PVC LONG SWEEP ELBOW USE ONE SWEEP ELBOW PER CONTROLLER; INSTALL ONE EXTRA FOR FUTURE USE
- ⑨ AUTOMATIC CONTROLLERS: REMOVE FRONT DOORS OF CONTROLLERS AND PLACE SIDE BY SIDE
- ⑩ 6" MIN. ROAD BASE
- ⑪ SUBGRADE COMPACTED TO 95%
- ⑫ STAINLESS STEEL V.I.T. PRODUCTS INC. STRONG BOX V.I.T. SB-24SS/240V
- ⑬ LOW PROFILE ANTENNA

NOTES:

1. TWO GROUND RODS MIN. 6' APART.
2. TRENCHING SHALL CONFORM TO CW-02.

REVISIONS		DRAWN BY	REMARKS
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METER CONTROLLER ENCLOSURE

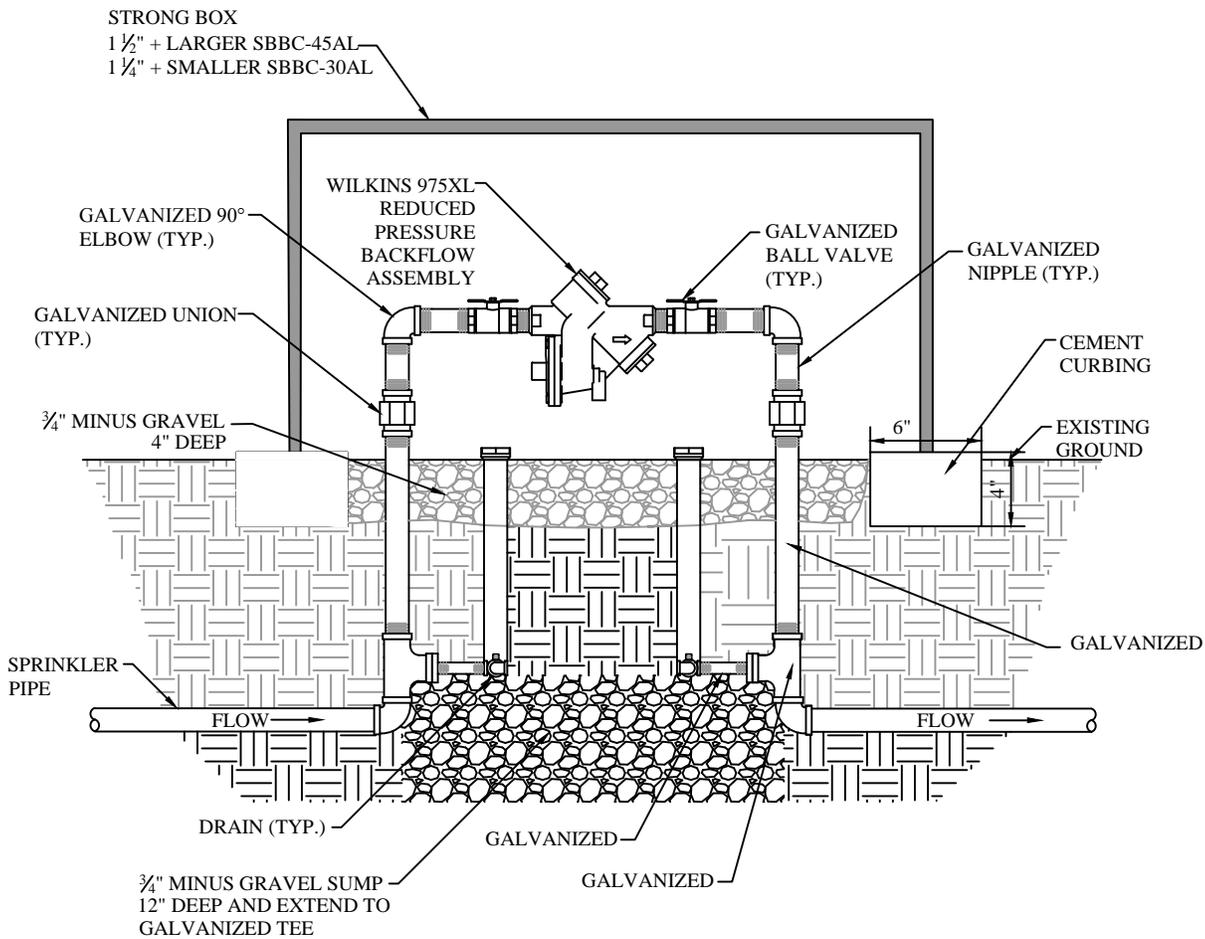
DATE _____

CITY ENGINEER _____

SHEET NAME

SHEET

IR-01



NOTES:

1. ALL FITTINGS NOTED ON THE DOWNSTREAM SIDE OF THE BACKFLOW PREVENTER ARE THE SAME ON THE UPSTREAM SIDE.
2. GALVANIZED UNIONS NOT NECESSARY ON ABOVE 2" SIZE UNITS WHERE FLANGED PIPE FITTINGS ARE USED 2" OR SMALLER BACKFLOW DEVICES MAY HAVE FLANGED FITTINGS. IN THAT CASE, UNIONS ARE NOT REQUIRED.
3. A CEMENT STRIP 6"x4" SHALL BE POURED ALL THE WAY AROUND THE BACK FLOW DEVICE SO THAT THE STRONG BOX SITS CENTERED ON IT AND CAN BE SECURED TO THE CEMENT.

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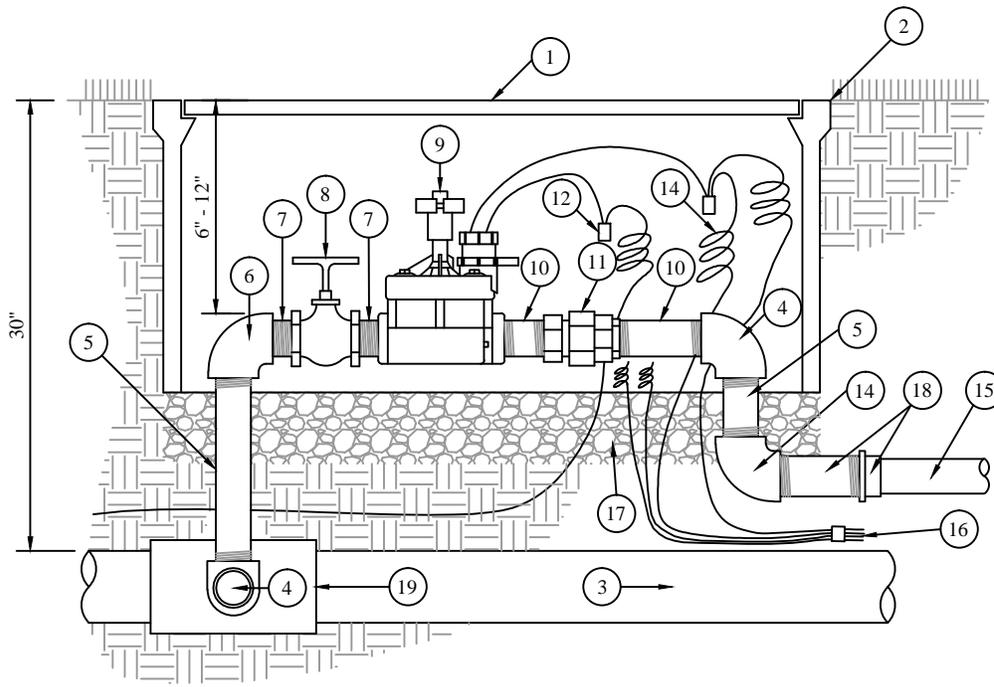
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REDUCED PRESSURE BACKFLOW ASSEMBLY

CITY ENGINEER _____ DATE _____

SHEET NAME _____

SHEET
IR-02



- | | |
|--|---|
| <p>① CARSON-BROOKS 1419-12 STANDARD OR JUMBO VALVE BOX WITH STAINLESS STEEL BOLTS. (BOLT DOWN LID). (MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION) INSTALL AT GRADE</p> <p>② INSTALL AT GRADE</p> <p>③ MAIN WATER SUPPLY LINE</p> <p>④ PVC SCHEDULE 80 T X T ELBOW</p> <p>⑤ PVC SCHEDULE 80 NIPPLE; LENGTH AS REQUIRED (TYP.)</p> <p>⑥ PVC SCHEDULE 80 T X T ELBOW SAME SIZE AS VALVE</p> <p>⑦ SCHEDULE 80 NIPPLE ON EITHER SIDE OF GATE VALVE</p> <p>⑧ MILWAUKEE BRAND OR APPROVED AMERICAN MADE BRASS GATE VALVE WITH NON RISING STEM (LINE SIZE)</p> | <p>⑨ ELECTIC CONTROL VALVE- SEE EQUIPMENT SCHEDULE</p> <p>⑩ SCHEDULE 80 NIPPLE ON EITHER SIDE OF THE UNION</p> <p>⑪ PVC SCHEDULE 80 UNION</p> <p>⑫ WATER TIGHT CONNECTORS (3M DBY ONLY)</p> <p>⑬ PROVIDE 18" EXPANSION LOOP AT EACH WIRE CONNECTOR IN BOX</p> <p>⑭ SCHEDULE 80 ELBOW WITH SCHEDULE 80 NIPPLE INTO T X T BUSHING TO LATERAL</p> <p>⑮ LATERAL LINE</p> <p>⑯ CONTROL WIRES & SPARE WIRES</p> <p>⑰ 6" MIN. DEPTH CLEAN PEA GRAVEL</p> <p>⑱ THREADED NIPPLE WITH BUSHING OR FEMALE ADAPTER</p> <p>⑲ PVC SCHEDULE 80 TEE 5 X 5 X 5 WITH SCHEDULE 80 SXT BUSHING OR DOUBLE STRAP SADDLE OR HARCO SERVICE TEE</p> |
|--|---|

NOTES:

1. ONE REMOTE CONTROL VALVE PER VALVE BOX.
2. ALL FITTINGS AND NIPPLES IN MANIFOLD SHALL BE SCHEDULE 80 THREADED PVC USING TEFLON TAPE AND #5 RECTOR SEAL.
3. VALVE MANIFOLD TO BE INSTALLED PERPENDICULAR (90 DEGREES) TO MAIN LINE. MIN. OF 1' BEFORE CHANGE IN DIRECTION.

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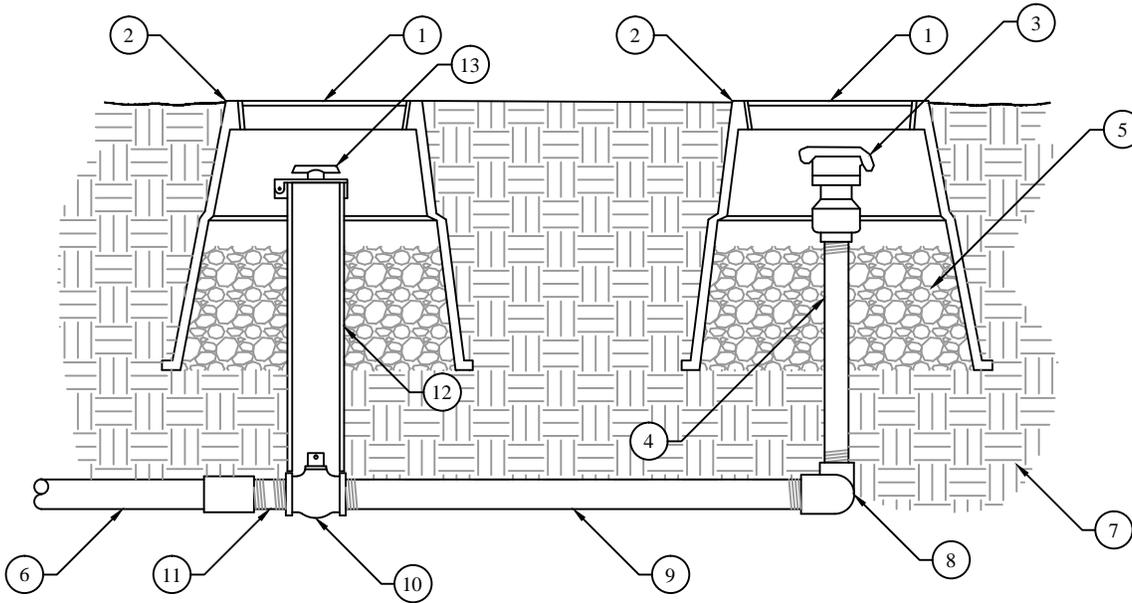
CONTROL VALVE ASSEMBLY

DATE _____

CITY ENGINEER _____

SHEET NAME

SHEET
IR-03



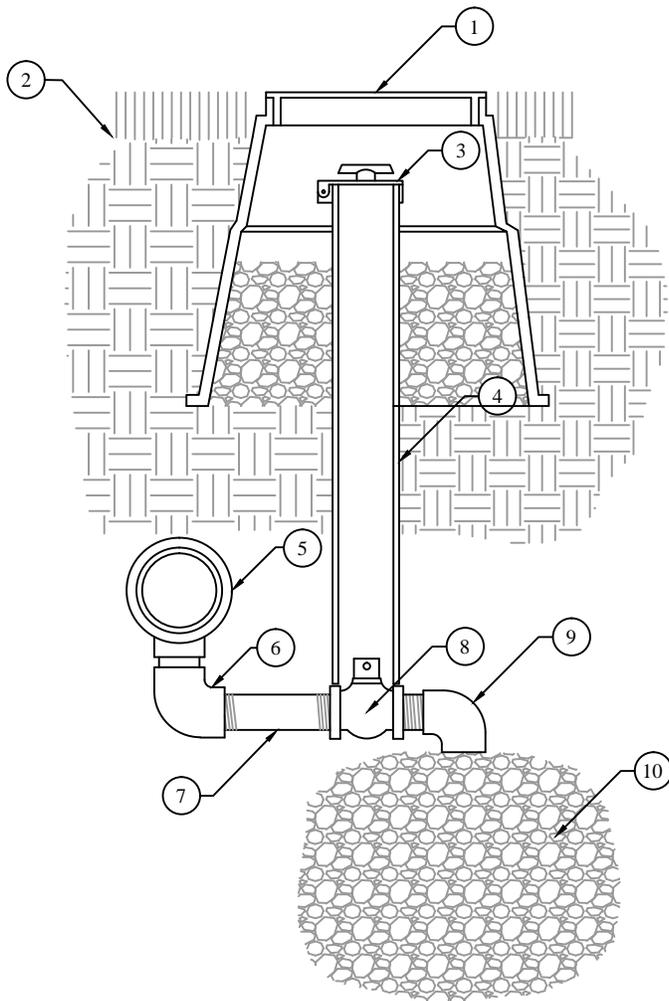
- ① 10" ROUND GREEN PLASTIC VALVE BOX, CARSON-BROOKS 910 OR EQUAL
- ② INSTALL BOX AT FINISH GRADE IN TURF AREAS, 2" ABOVE GRADE IN PLANTING AREAS
- ③ QUICK COUPLER- SEE EQUIPMENT SCHEDULE (MOUNT 4" - 6" BELOW GRADE)
- ④ 1" GALVANIZED RISER, LENGTH AS REQUIRED
- ⑤ 6" MIN. DEPTH CLEAN 3/4 MINUS GRAVEL
- ⑥ MAIN SUPPLY LINE
- ⑦ SUB-GRADE COMPACTION TO 90% (TYP.)
- ⑧ 1" GALVANIZED DOUBLE ELBOW SWING JOINT
- ⑨ 1" GALVANIZED NIPPLE, MIN. LENGTH 24" BEFORE TRANSITION TO PVC PIPE
- ⑩ 1" BALL B11444 FORD VALVE
- ⑪ 1" GALVANIZED NIPPLE
- ⑫ 2" SCHEDULE 40 PVC SLEEVE NOTCHED OVER BALL VALVE
- ⑬ 906L WEATHERMATIC LOCKING VALVE CAP PERMANENTLY ATTACHED TO SLEEVE. TOP OF MARKER 4" - 6" BELOW GRADE

REVISIONS		NO.	DATE	DRAWN BY	REMARKS



QUICK COUPLING VALVE ASSEMBLY
 SHEET NAME _____ DATE _____
 CITY ENGINEER _____

SHEET
IR-04



NOTES:

1. ALL PVC NIPPLES TO BE SCHEDULE 80
2. PROVIDE VALVE KEY TO OWNER

- ① 10" ROUND VALVE BOX WITH LOCK BOLT, CARSON- BROOKS 910 OR EQUAL
- ② FINISH GRADE
- ③ 906L WEATHERMATIC LOCKING VALVE CAP ATTACHED TO SLEEVE, TOP OF MARKER 4"-6" BELOW GRADE
- ④ 2" PVC SCHEDULE 40 SLEEVE NOTCHED OVER VALVE
- ⑤ PVC SCHEDULE 80 TEE & MAIN LINE
- ⑥ ¾" PVC SCHEDULE 80 ELBOW
- ⑦ ¾" PVC SCHEDULE 80 NIPPLE (LENGTH AS REQUIRED)
- ⑧ ¾" FORD B11333 BALL VALVE
- ⑨ ¾" MARLEX STREET ELBOW
- ⑩ GRAVEL SUMP- 18" X 18" X 12" MIN. SIZE

NOTE:

PVC PIPE SHALL CONFORM TO THE FOLLOWING STANDARDS: MAIN LINE PIPE 3" AND LARGER SHALL BE CLASS 100 O-RINGS HARCO DUCTILE IRON FITTINGS OR MACHINED JOINT FITTINGS AT ALL CHANGES OF DIRECTION. US SCHEDULE 80 S X S X S TEE WITH SCHEDULE 80 SXT BUSHING FOR ALL REMOTE CONTROL VALVE INSTALLATIONS, OR EPOXY COATED DOUBLE STRAP SADDLES. CAP AND THRUST BLOCK MAIN LINES 3' PAST ALL FITTINGS AND VALVES, LATERAL LINES TO BE SCHEDULE 40 PVC.

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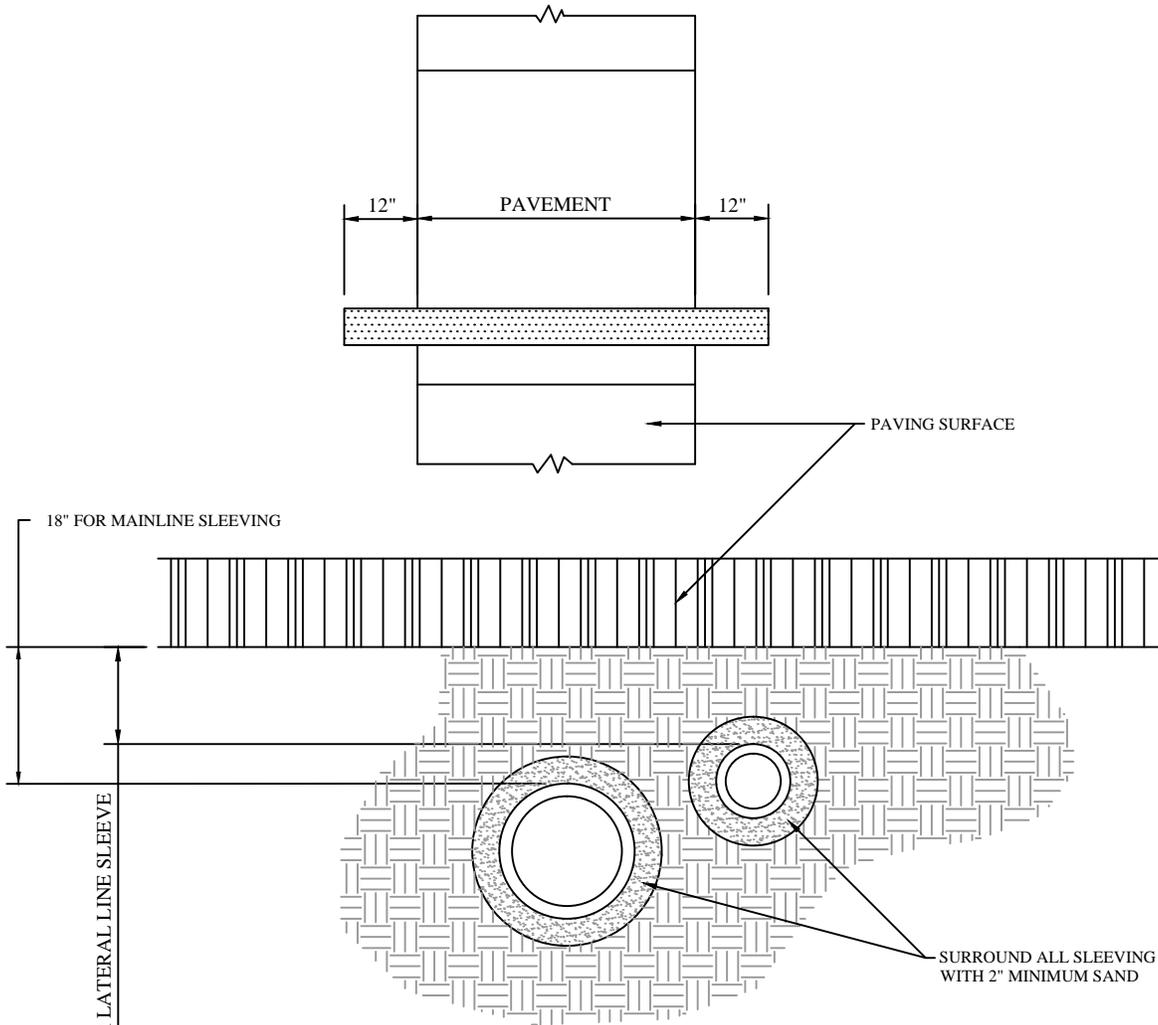
MANUAL DRAIN VALVE ASSEMBLY

DATE _____

CITY ENGINEER _____

SHEET NAME

SHEET
IR-05



NOTES:

1. WHEN MULTIPLE PIPES OCCUR IN ONE TRENCH, ADD REQUIRED SLEEVE SIZES TOGETHER FOR ONE SIZE.
2. WIRES SHALL BE IN SEPARATE CONDUIT AS PER CHART BELOW.
3. REFER TO SLEEVING DIAGRAM FOR SIZES OF ALL SLEEVES
4. EXTEND ALL SLEEVING 12" MIN. BEYOND EDGE OF PAVING.

SLEEVE SIZE CHART

PIPE SIZE	MIN. SLEEVE SIZE
3/4"	1 1/2"
1"	2"
1 1/4"	2 1/2"
1 1/2"	2 1/2"
2"	3"
2 1/2"	4"
3"	4"
4"	6"
6"	8"

WIRE CONDUIT SIZES

NUMBER OF WIRES	MIN. CONDUIT SIZE
1-4	3/4"
5-7	1"
8-11	1 1/2"
12-22	2"
23-31	2 1/2"
32-36	3"

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TYPICAL SLEEVING DETAIL AND SLEEVING DIAGRAM

CITY ENGINEER _____ DATE _____

SHEET NAME _____

SHEET

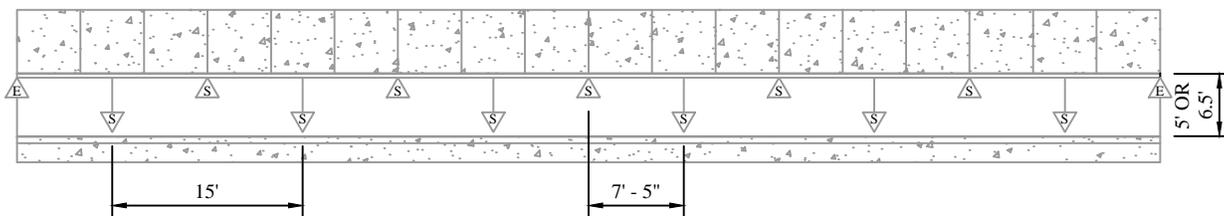
IR-07

NOTE:

SPACING SHOWN IS FOR 5' MOW STRIP. VARY SPACING ACCORDINGLY FOR OTHER STREETSCAPE WIDTHS.

△ NEW RAINBIRD SST-PC POP-UP SPRAY HEAD

▽ NEW RAINBIRD EST-PC POP-UP SPRAY HEAD



NOTES:

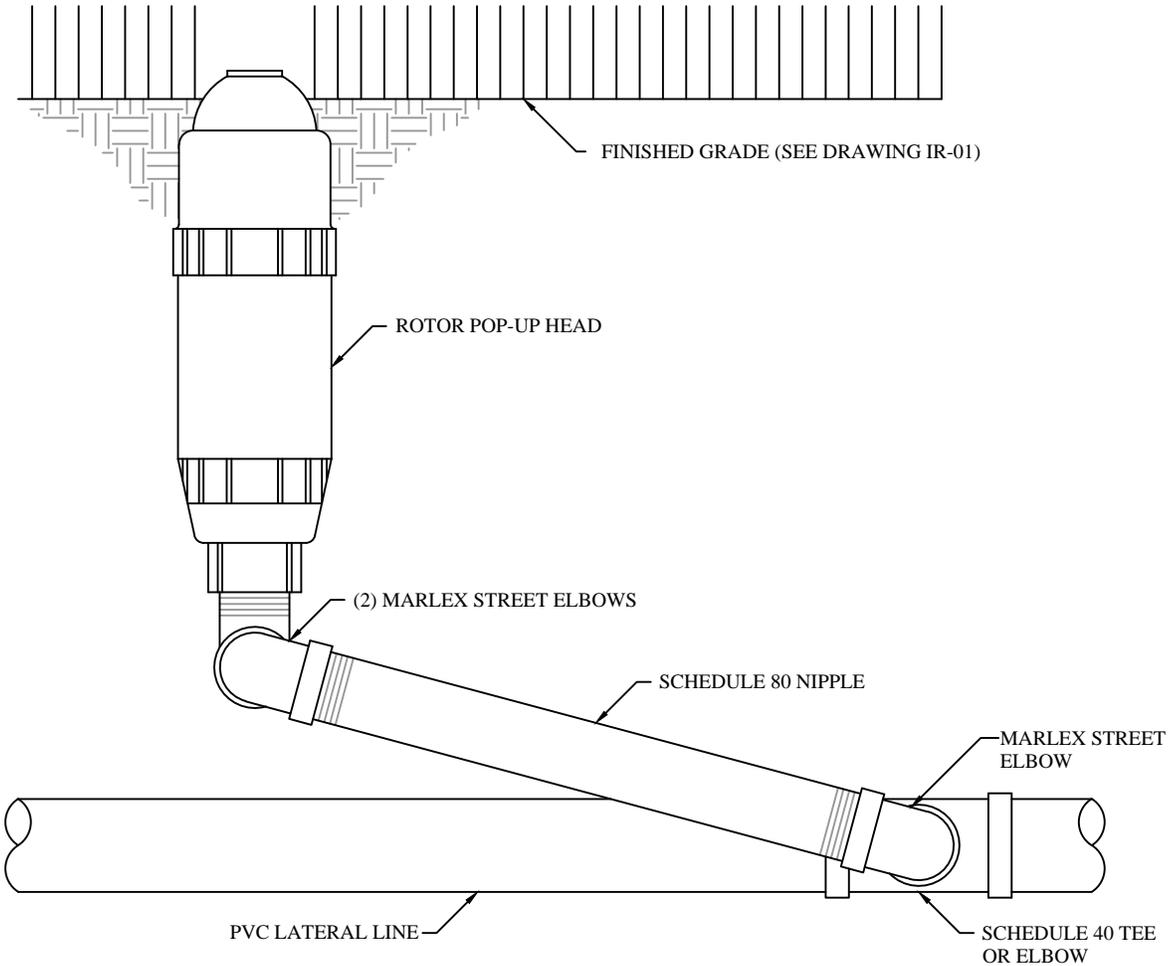
1. HEADS ALTERNATING TO FORM TRIANGLE SPACING.
2. DRAWING NOT TO SCALE.
3. MAIN LINE AND LATERALS ARE TO BE LOCATED ON SIDEWALK SIDE OF PARK STRIP.

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TYPICAL STREETSCAPE HEAD PATTERN
 CITY ENGINEER _____ DATE _____

SHEET NAME _____
 SHEET
IR-08



NOTES:

1. TOP OF HEAD SHALL BE ADJUSTED TO MATCH FINISHED GRADE.
2. MINIMUM SIZE OF SUPPLY PIPE AND FITTINGS TO ALL ROTORS IS 3/4".

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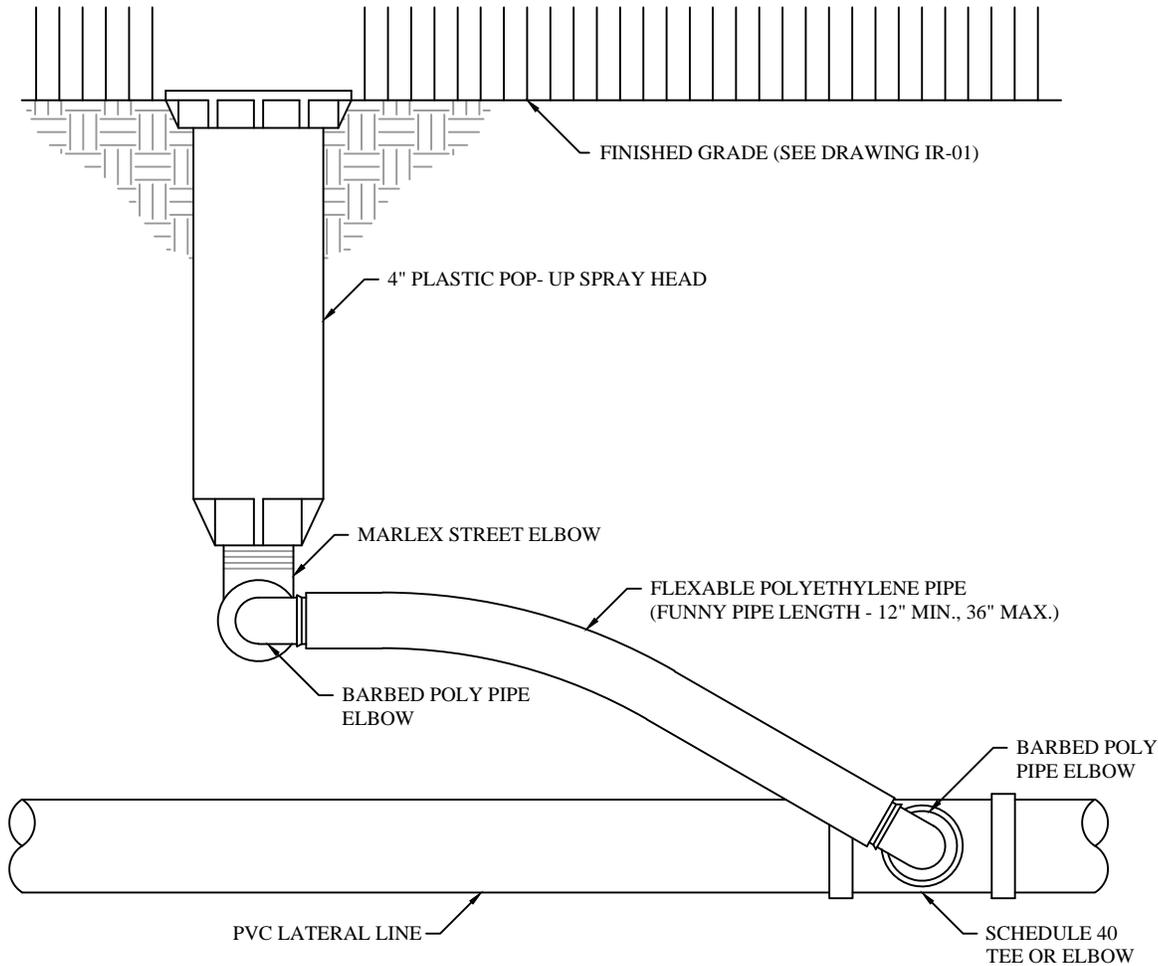

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POP UP ROTOR
SPRINKLER DETAIL

CITY ENGINEER _____ DATE _____

SHEET NAME _____

SHEET
IR-10



NOTES:

1. TOP OF HEAD SHALL BE ADJUSTED TO MATCH FINISHED GRADE.
2. MINIMUM SIZE OF SUPPLY PIPE AND FITTINGS (EXCEPT FLEXIBLE POLYETHYLENE PIPE AND BARBED FITTINGS) TO ALL POP- UP SPRAYS IS $\frac{3}{4}$ ".
3. MINIMUM SIZE OF FLEXIBLE POLYETHYLENE PIPE AND BARBED FITTINGS TO ALL POP- UP SPRAYS IS $\frac{1}{2}$ ".

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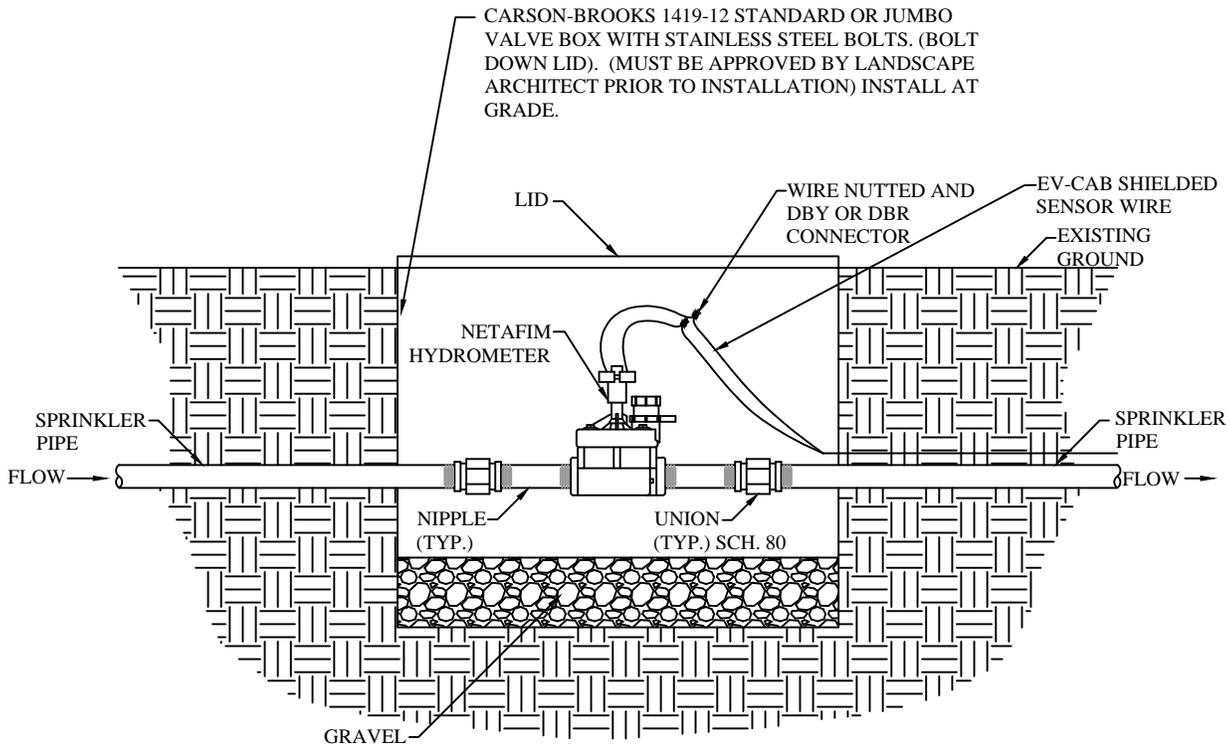
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**POP- UP SPRAY
SPRINKLER DETAIL**

CITY ENGINEER _____ DATE _____

SHEET NAME _____

SHEET
IR-11



NOTE:

2" OR SMALLER USE SCHEDULE 80 UNIONS
 3" OR LARGER USE COMPANION FLANGES

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HYDROMETER DETAIL

CITY ENGINEER _____ DATE _____

SHEET NAME

SHEET
IR-12