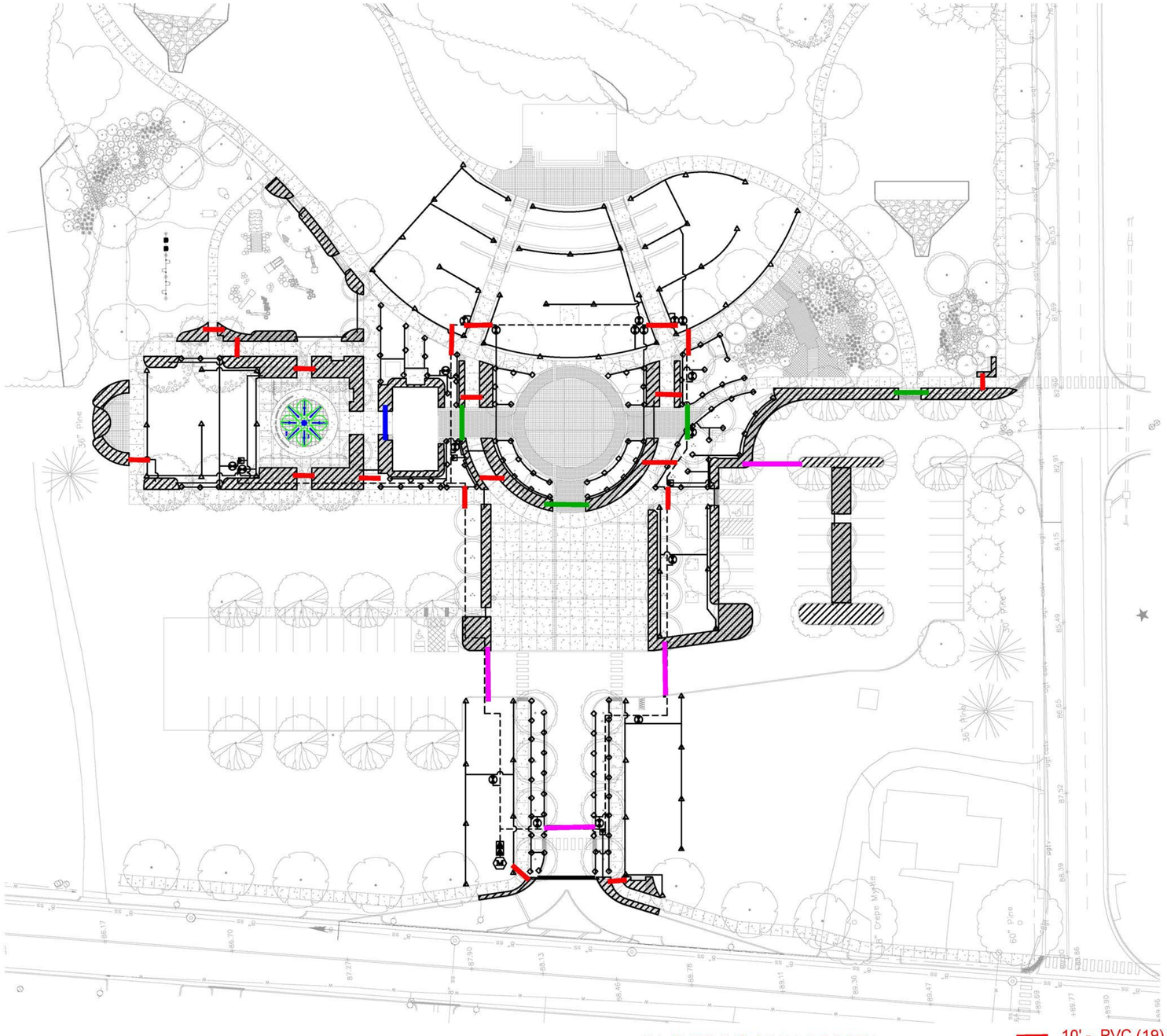

ALL SLEEVING SHALL BE BOTH
4" AND 2" CONDUIT TOGETHER
IN THE SAME TRENCH.

10' - PVC (19) = 190'
15' - PVC (1) = 15'
20' - PVC (4) = 80'
30' - PVC (4) = 120'

405' TOAL

Sleeving Plan

NOTES & LEGENDS

HEADS

◇ – RAINBIRD 1806 SERIES – 6" POP UP SPRINKLER HEAD FITTED WITH MPR SERIES SPRAY NOZZLE.
△ – RAINBIRD 5004PLPCSAM SERIES GEAR DRIVEN MULTIPLE NOZZLE POP–UP SPRINKLER WITH 4" POP–UP STROKE.

DRIP IRRIGATION

▨ – LOCATION OF NETAFIM TECHLINE CV 1/2" P.E. TUBING, 18" EMITTER SPACING INTERVALS AT .4 GPH EMITTERS INLINE.
▶ – LOCATION OF DRIP VALVE ASSEMBLY WHICH INCLUDES RAINBIRD 100PGA SERIES REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE AND A NETAFIM LOW VOLUME CONTROL ZONE KIT (LVCZNV10075–HF).

PIPE

——— – DENOTES ROUTE OF PR 200 PVC LATERAL PIPING.

LATERAL PIPE SIZING SCHEDULE

– ZERO TO FIFTEEN GPM ACCUMULATED FLOW USE 1" PR 200 PVC PIPE

– GREATER THAN FIFTEEN UP TO THIRTY–FIVE GPM USE 1.5" PR 200 PVC PIPE

– – – – – DENOTES ROUTE OF 2" PR 200 MAIN LINE PIPING.

VALVES

Ⓔ – LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, RAINBIRD 100PGA. THE IRRIGATION CONTRACTOR SHALL INSTALL A 1" PVC BALL VALVE IN FRONT OF EACH CONTROL VALVE FOR ZONE ISOLATION.

CONTROLLER

Ⓒ – LOCATION OF THE IRRIGATION CONTROLLER. THE CONTROLLER SHALL BE RAINBIRD ESP SERIES SOLID STATE UNIT WHICH SHALL BE OF THE WALL MOUNT STYLE. THE CONTROLLER SHALL BE OF THE MODEL NUMBER ESP–LXME. THE CONTROLLER SHALL BE MOUNTED IN THE APPROXIMATE LOCATION SHOWN ON THE PLAN.

– ALL ELECTRICAL CONNECTIONS AND INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.

– THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING A 120 VAC POWER CIRCUIT AT THE CONTROLLER LOCATION. THE POWER SOURCE SHALL BE CAPABLE OF SUPPORTING A 10 AMPERE LOAD AT 120 VAC.

SENSORS

Ⓡ – DENOTES THE LOCATION OF WIRELESS RAIN SENSOR.

BACKFLOW PREVENTION

▶▶ – DENOTES THE LOCATION OF REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 1" IN SIZE.

WATER SUPPLY

Ⓜ – DENOTES THE LOCATION OF THE PROPOSED IRRIGATION METER. THE METER SHALL BE THE OWNER'S RESPONSIBILITY. THE METER SHALL BE 1" IN SIZE.

– THE IRRIGATION SYSTEMS SHALL BE CAPABLE OF DELIVERING 30 GPM AT 70 PSI MAXIMUM WITH ONE STATION OPERATING WITH 40 PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM AS DESIGNED AND SPECIFIED.

NOTE: IF THE WATER SUPPLY IS NOT CAPABLE OF THE DESIGNED CAPACITY (FLOW AND/OR PRESSURE), THE IRRIGATION SYSTEM WILL NEED TO BE REDESIGNED, WHICH MAY ALTER THE IRRIGATION MATERIAL ESTIMATE.

SLEEVING

▬ – DENOTES LOCATION OF 4" PVC SLEEVES FOR IRRIGATION MAIN LINEPIPING.

– WHERE WIRE RUNS OCCUR, A SEPARATE 2" PVC ELECTRICAL CONDUIT SLEEVE SHALL BE USED FOR 24 VAC WIRING PER ELECTRICAL CODE.

– WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE PIPE THAT IS CROSSING THROUGH IT.

NOTE: THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER OR HIS REPRESENTATIVE.

THIS DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWINGS SUPPLIED BY THE CLIENT OF RECORD WITH DESIGN CRITERIA BEING SET BY THE CLIENT AND/OR PROJECT OWNER (I.E. AREA TO BE IRRIGATED, MANUFACTURER'S EQUIPMENT TO BE EMPLOYED, WATER SOURCE (LOCATION, FLOW & PRESSURE) CAPACITIES, ELECTRICAL POWER AVAILABILITY FOR IRRIGATION SYSTEM USE, ETC.). SMITH TURF & IRRIGATION BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR APPLICATION WHICH MIGHT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SMITH TURF & IRRIGATION IN RELATION TO THIS SPECIFIC PROJECT UNLESS OTHERWISE NOTED.

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EPA WaterSense PARTNER

NO.	REVISION	BY	DATE

DRAWN: JFH
APPROVED:
FILENAME: IRR011017
DATE: 1–10–17

DRAWINGS FOR:
KILMARNOCK TOWN CENTER
KILMARNOCK, VIRGINIA

IRRIGATION LAYOUT

SCALE: 1" = 30'
SHEET: 1 OF 1
PROJECT NO.: VA17002

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