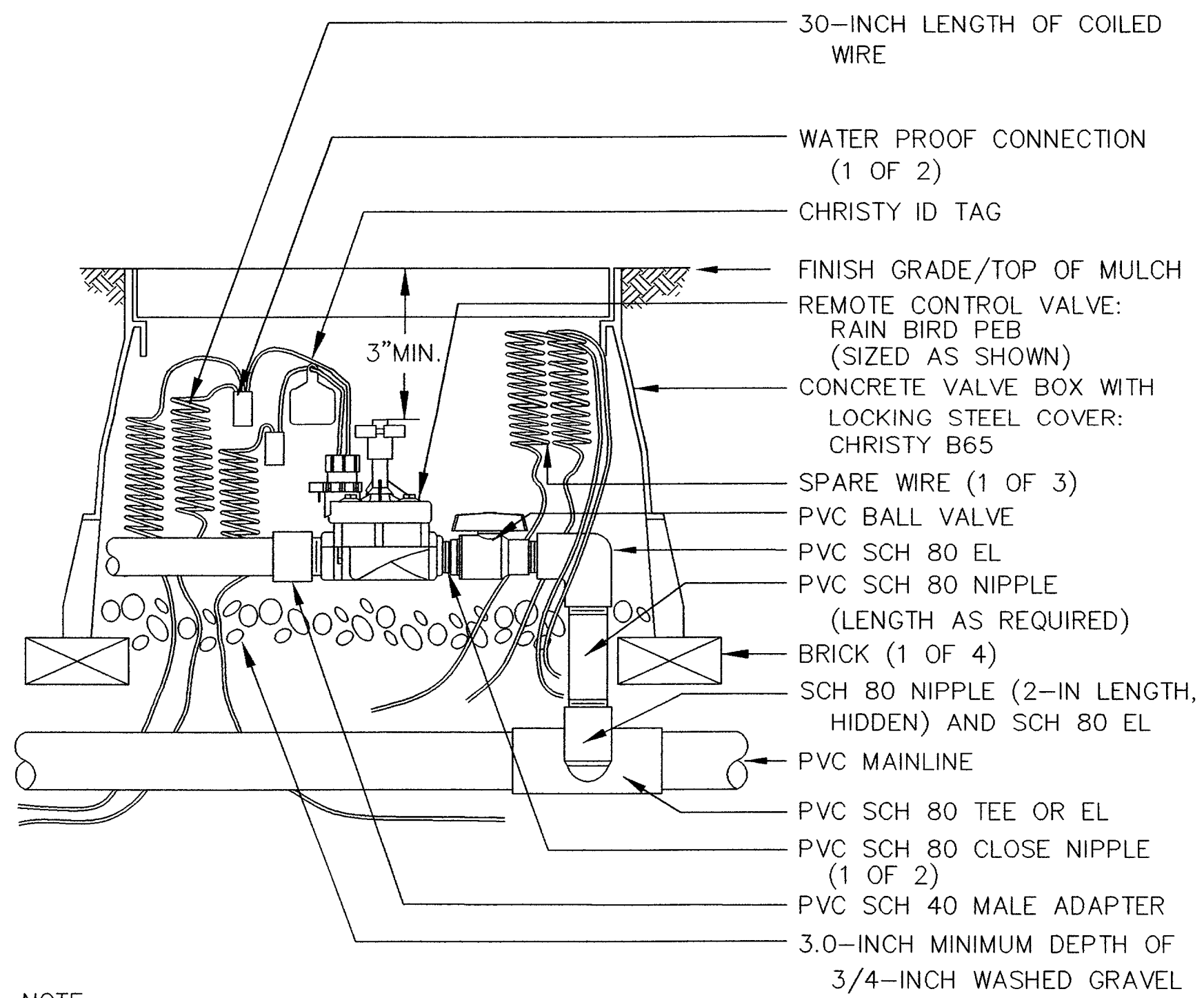
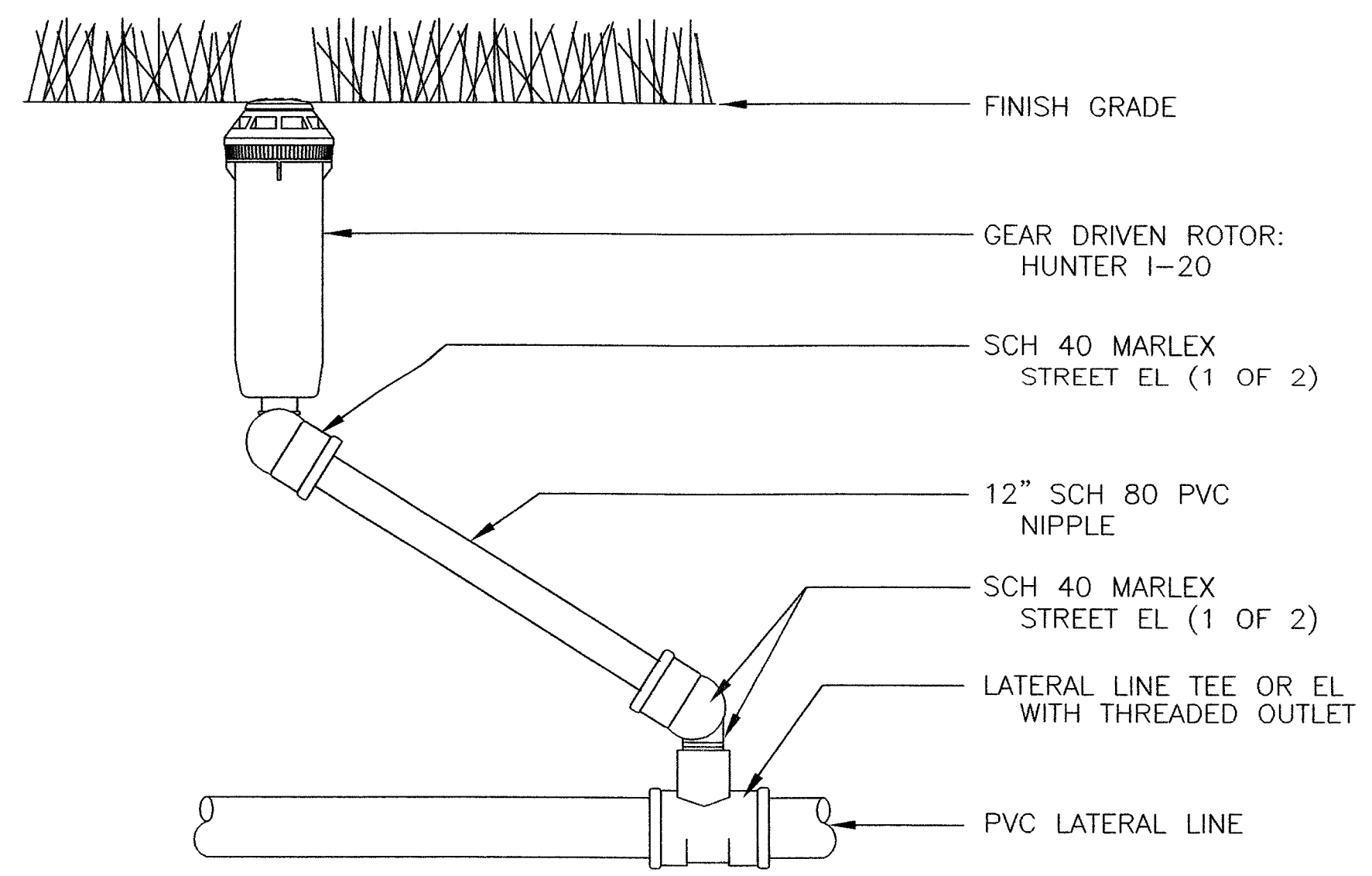




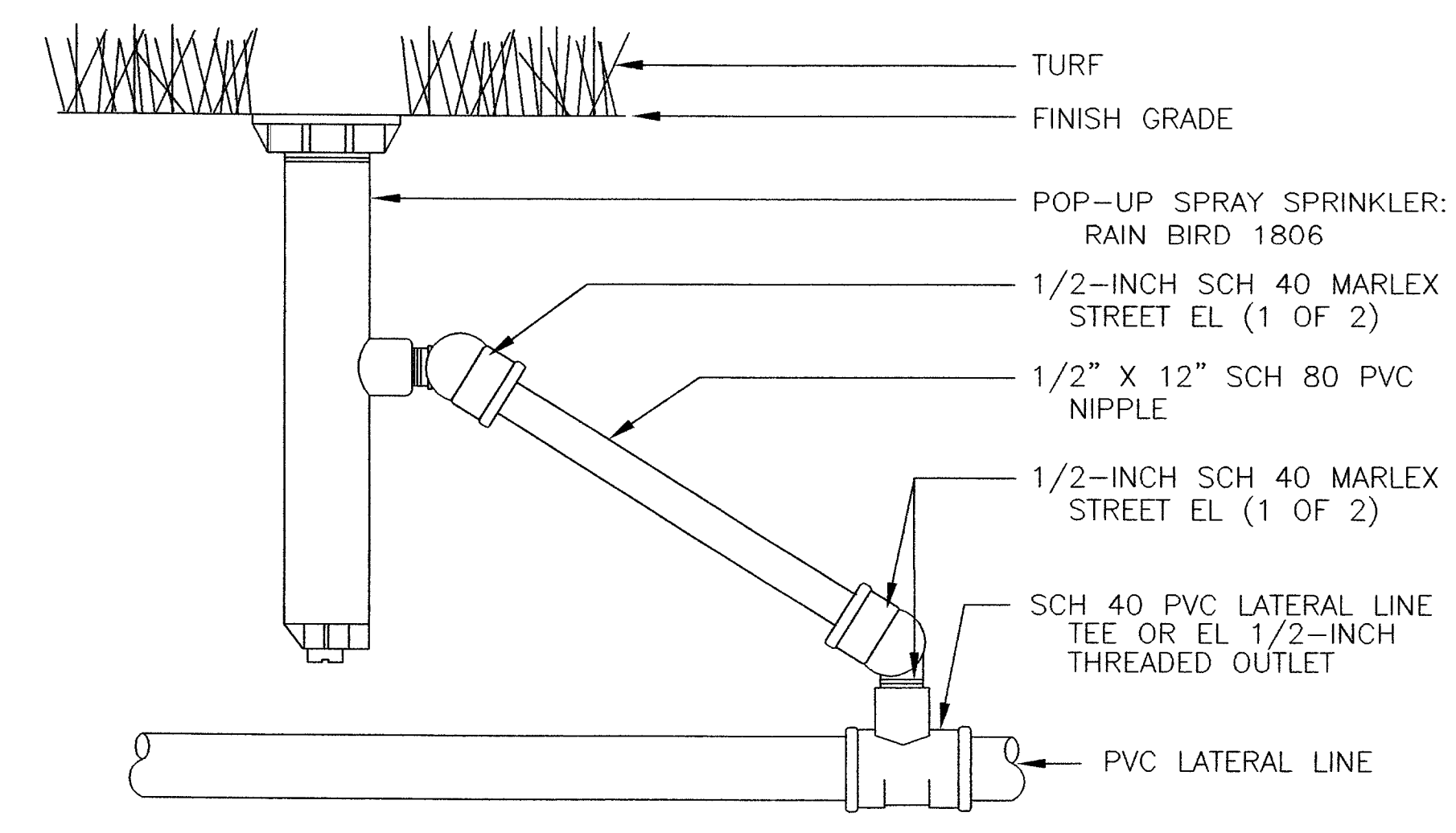
- NOTE:
- FOR MAINLINE PIPE SIZES WHERE DUCTILE IRON FITTINGS ARE REQUIRED PER THE SPECIFICATIONS, DELETE PVC SERVICE TEE SHOWN AND USE DUCTILE IRON SERVICE TEE.
 - PROVIDE PRESSURE REGULATING DEVICE (#PRS-D) FOR ALL REMOTE CONTROL VALVES SERVICING SPRAY SPRINKLER AND BUBBLER LATERALS. SET DISCHARGE PRESSURE TO 35 PSI.

1 REMOTE CONTROL VALVE ASSEMBLY



- NOTE:
- SIZE OF SWING JOINT COMPONENTS SHALL MATCH SIZE OF SPRINKLER INLET.

2 POP-UP ROTOR SPRINKLER ASSEMBLY



3 POP-UP SPRAY SPRINKLER ASSEMBLY

PUMP & CONTROLLER INTERFACE DESCRIPTION

THE PARK SITE INCLUDES TWO INDEPENDENT BOOSTER PUMP STATIONS TO DELIVER PRESSURIZED WATER TO THE IRRIGATION SYSTEMS: ONE FOR THE LOWER ELEVATION (EASTERN PORTION) OF THE PARK AND ONE FOR THE HIGHER ELEVATION (WESTERN PORTION) OF THE PARK. EACH PUMP STATION IS CONNECTED TO A 6-INCH MUNICIPAL WATER TAP AND METER.

THE CONTROL SYSTEM FOR EACH OF THE PUMP STATIONS IS DESIGNED TO INTERFACE WITH THE PARK'S RAIN BIRD MAXICOM CENTRAL CONTROL SYSTEM. THE DESIGN INTENT OF THE PUMP SYSTEM CONTROL LOGIC IS THAT WHEN A SPRINKLER VALVE AND, IN SPECIFIC CASES, SOME DRIP VALVES WITHIN THE PUMP'S SERVICE AREA OPENS, A 24-VAC SIGNAL IS SENT FROM THE MAXICOM CONTROL SYSTEM TO THE PUMP CONTROL PANEL TO START THE PUMP. THE SIGNAL WILL BE TRANSMITTED BY HARD-WIRE CONNECTION TO THE MAXICOM COMMUNICATION PATH VIA THE SATELLITE CONTROLLER PUMP START CIRCUITS AS DESIGNATED ON TH EPUMP STATION DETAILS.

NO SIGNAL IS SENT TO START THE PUMP FROM THE SATELLITE CONTROLLERS THAT ARE EXCLUSIVELY DEDICATED TO DRIP REMOTE CONTROL VALVES BECAUSE THE PRESSURE BOOST IS NOT REQUIRED, AND THE WATER WILL BYPASS THE PUMPS. ALL SPRINKLER AND/OR DRIP VALVES REQUIRING A PUMP START WILL BE PROGRAMMED TO RUN CONTIGUOUSLY WITHIN THE LIMITS OF THE 850 GPM DESIGN FLOW PARAMETER, FOLLOWED BY THE DRIP VALVES THAT DON'T REQUIRE THE PUMP FOR PROPER OPERATION. THIS WILL PREVENT THE PUMP STATION FROM FREQUENTLY STARTING AND STOPPING, AND AVOID UNNECESSARY WEAR AND TEAR ON THE PUMPS. PROPER PROGRAMMING OF THE IRRIGATION SYSTEM WITHIN THESE DESIGN PARAMETERS IS REQUIRED FOR PROPER OPERATION OF BOTH PUMP STATIONS.

79240 4 CONTROLLER/BOOSTER PUMP PROGRAMMING INTERFACE

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Stantec

WASHINGTON BUFFALO PARK - PHASE 1A
WASHINGTON & BUFFALO, LAS VEGAS, NV

IRRIGATION DETAILS

STAMP

PROFESSIONAL ENGINEER - STATE OF NV
RICHARD L. AUST
10-28-03
No. 11069
EXP. 12-31-04

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
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FILE: P-IR-07.dwg
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