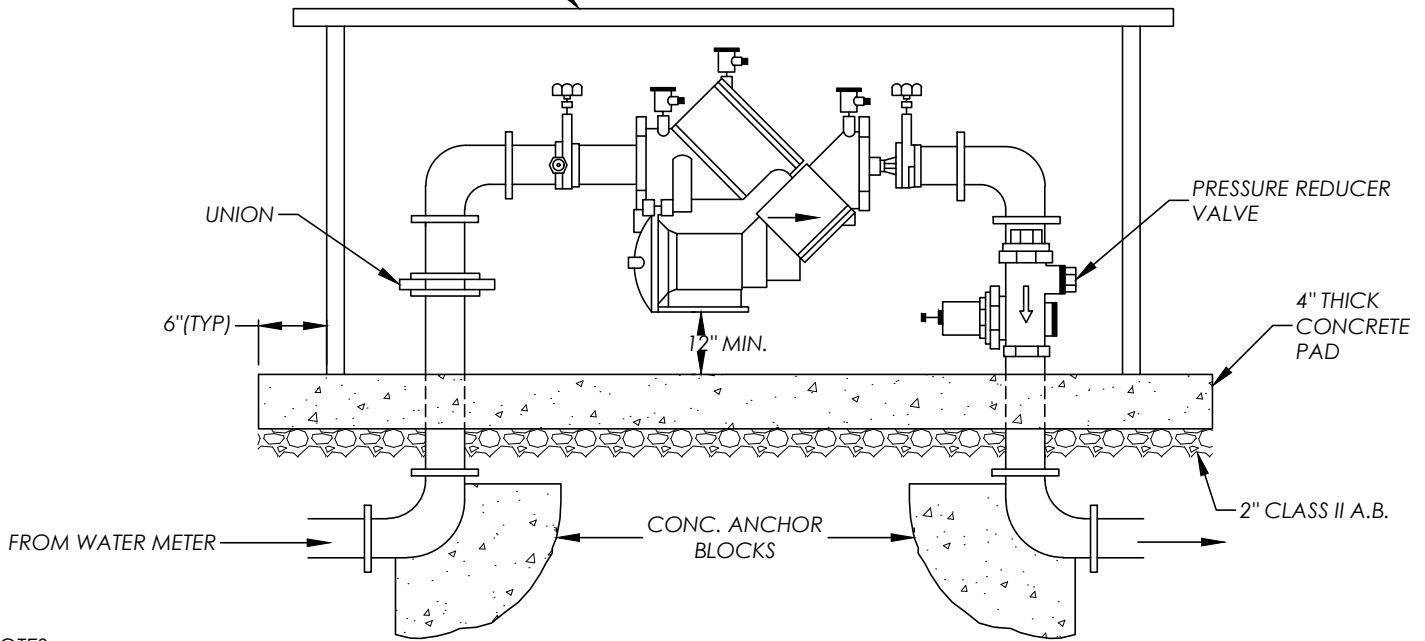


STEEL BACKFLOW ENCLOSURE MODEL  
NO. STRONG BOX BC-CR



**NOTES**

1. ABOVE GROUND INSTALLATION IS MANDATORY FOR REDUCED PRESSURE BACKFLOW DEVICES.
2. BACKFLOW PREVENTION DEVICES MUST BE INSTALLED IN A TRUE HORIZONTAL POSITION.
3. BACKFLOW DEVICE MUST BE PROTECTED FROM TRAFFIC HAZARDS, EITHER BY LOCATION OR BARRIERS, AND MUST HAVE A MINIMUM CLEARANCE OF 12' BENEATH AND 6" ON ALL SIDES.
4. NO CONNECTIONS ARE ALLOWED BETWEEN METER AND THE BACKFLOW DEVICE OR DIRECTLY TO THE BACKFLOW DEVICE.
5. ALL PARTS OF ASSEMBLY MUST BE EASILY ACCESSIBLE FOR INSPECTION BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST.
6. INSTALLATION MUST BE APPROVED BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST AND THE DEVICE TESTED BY A CITY APPROVED AWWA CERTIFIED BACKFLOW TESTER BEFORE WATER IS TURNED ON.
7. ANY OTHER LOCATION OR METHOD OF INSTALLATION MUST BE APPROVED IN ADVANCE BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST.
8. BACKFLOW PREVENTION DEVICE SHALL BE EITHER A WILKINS 950XL OR 975XL, OR EQUAL APPROVED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
9. A CONCRETE PAD SHALL BE INSTALLED, PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. EXTEND A MINIMUM OF 6" BEYOND OUTSIDE OF ENCLOSURE ON ALL FOUR SIDES, AND CONTAIN #3 REBAR, 12" ON CENTER, CONCRETE TO BE CLASS "A" (6 SACKS PER CUBIC YARD).
10. PIPING, VALVES, NIPPLES, ETC. SHALL BE THREADED BRASS.
11. PRESSURE REDUCER VALVES SHALL BE INSTALLED ON SERVICES OF 80 PSI OR GREATER AND BE WILKINS MODEL 500 OR APPROVED EQUAL.
12. POLAR PARKA BACKFLOW INSULATION IS REQUIRED.

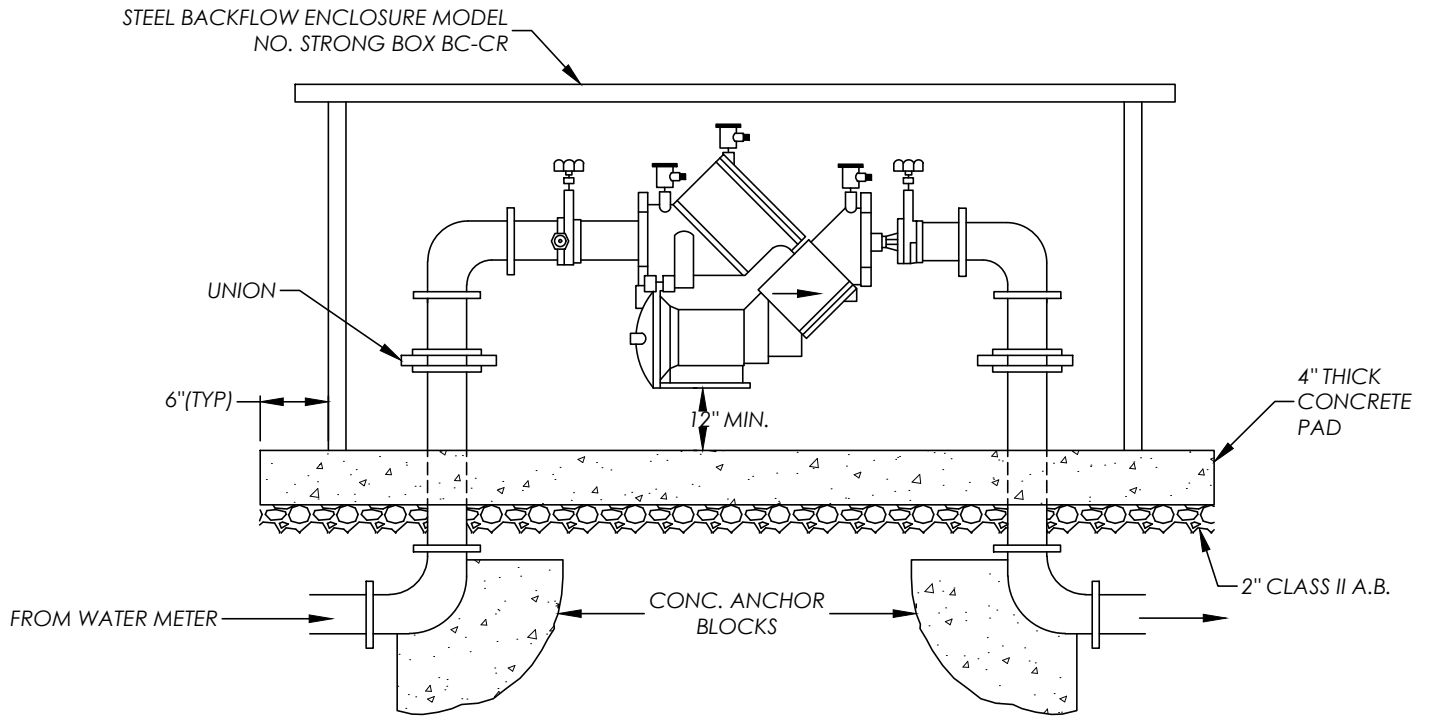
CITY OF NAPA

PUBLIC WORKS DEPARTMENT

STANDARD ABOVE GROUND BACKFLOW DEVICE  
INSTALLATION SPECIFICATION  
FOR CITY LANDSCAPING PROJECTS ONLY

DRAWN BY: BRL  
DATE: 06/2018  
SCALE: NONE  
FIELD NOTES:

CHECKED BY: DMP  
APPROVED BY: JRL  
DRAWING NO. PL-1



**NOTES**

1. ABOVE GROUND INSTALLATION IS MANDATORY FOR REDUCED PRESSURE BACKFLOW DEVICES.
2. BACKFLOW PREVENTION DEVICES MUST BE INSTALLED IN A TRUE HORIZONTAL POSITION.
3. BACKFLOW DEVICE MUST BE PROTECTED FROM TRAFFIC HAZARDS, EITHER BY LOCATION OR BARRIERS, AND MUST HAVE A MINIMUM CLEARANCE OF 12" BENEATH AND 6" ON ALL SIDES.
4. NO CONNECTIONS ARE ALLOWED BETWEEN METER AND THE BACKFLOW DEVICE OR DIRECTLY TO THE BACKFLOW DEVICE.
5. ALL PARTS OF ASSEMBLY MUST BE EASILY ACCESSIBLE FOR INSPECTION BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST.
6. INSTALLATION MUST BE APPROVED BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST AND THE DEVICE TESTED BY A CITY APPROVED AWWA CERTIFIED BACKFLOW TESTER BEFORE WATER IS TURNED ON.
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10. PIPING, VALVES, NIPPLES, ETC. SHALL BE THREADED BRASS.
11. POLAR PARKA BACKFLOW INSULATION IS REQUIRED.

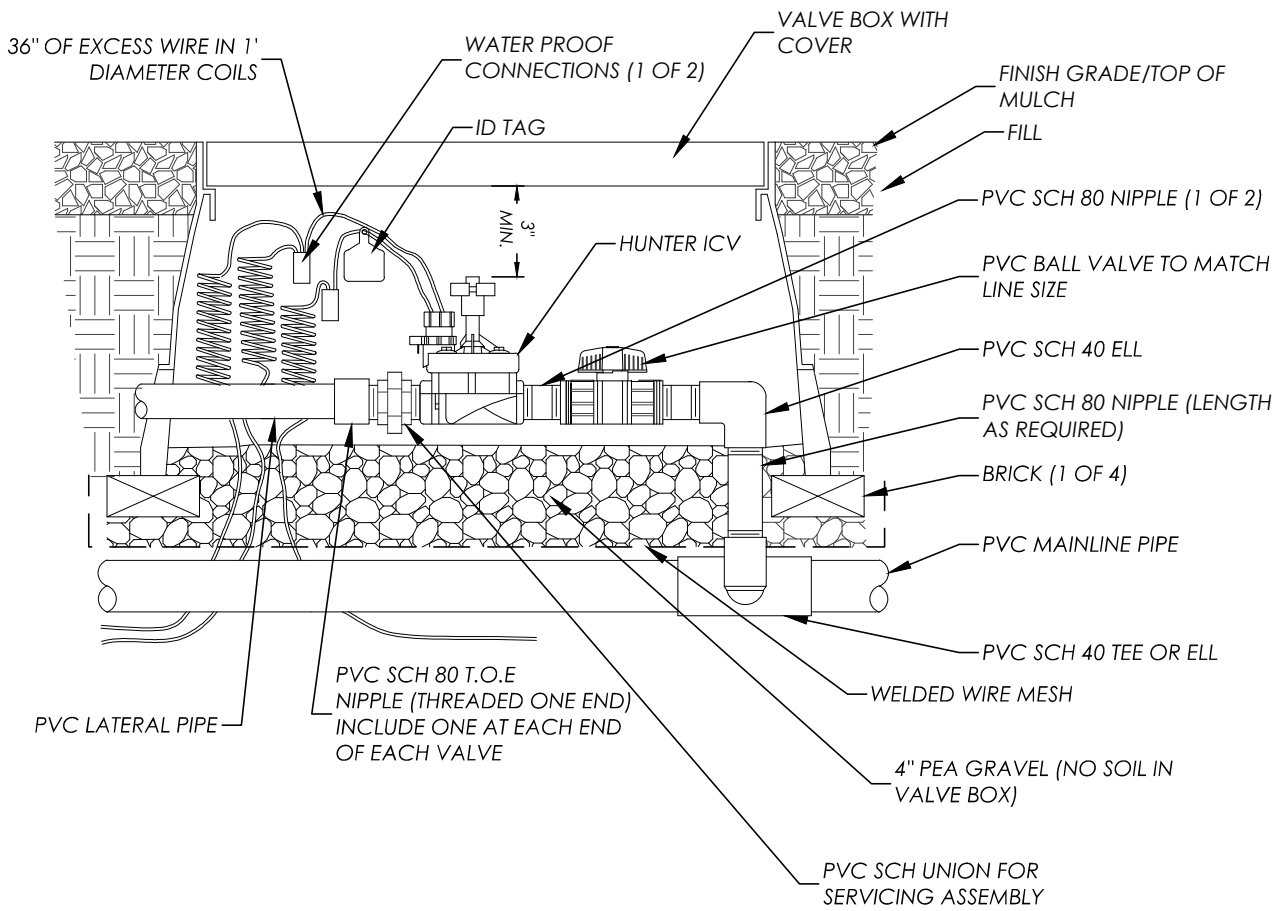
CITY OF NAPA

PUBLIC WORKS DEPARTMENT

STANDARD ABOVE GROUND BACKFLOW DEVICE  
INSTALLATION SPECIFICATION  
FOR CITY LANDSCAPING PROJECTS ONLY

DRAWN BY: BRL  
DATE: 06/2018  
SCALE: NONE  
FIELD NOTES:

CHECKED BY: DMP  
APPROVED BY: JRL  
DRAWING NO. PL-1A



**NOTES:**

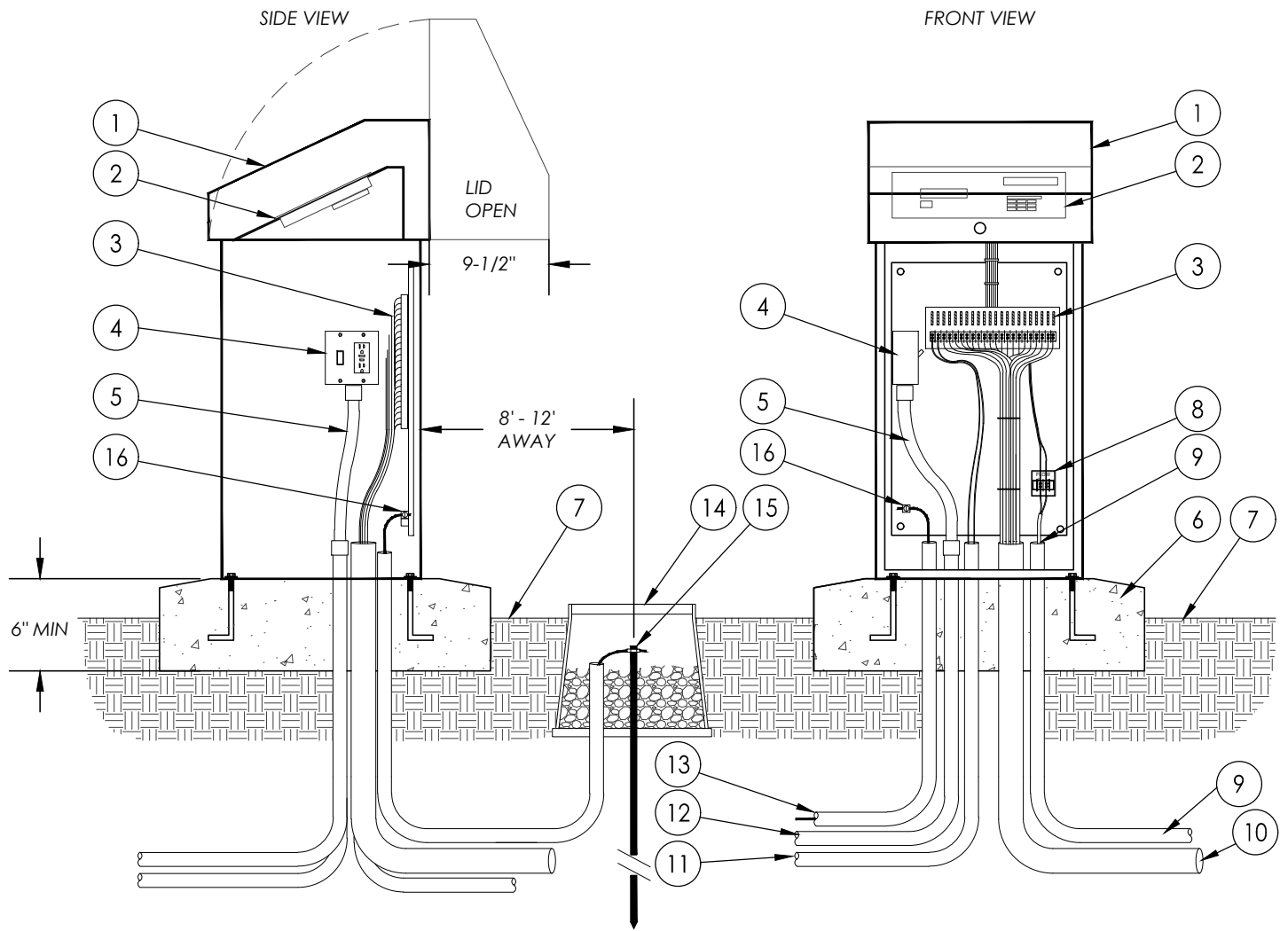
1. WELDED WIRE MESH SHALL BE #6 T304 STAINLESS STEEL WIRE MESH AND SHALL BE INSTALLED UNDER VALVE BOX AND WASHED GRAVEL.
2. INSTALL ASSEMBLY WITHIN VALVE BOX TO MAKE COMPONENTS ACCESSIBLE FOR SERVICE AND MAINTENANCE (TYPICAL).
3. SET TOP OF VALVE BOX FLUSH WITH FINISH GRADE.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

REMOTE CONTROL VALVE

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-2
FIELD NOTES:			



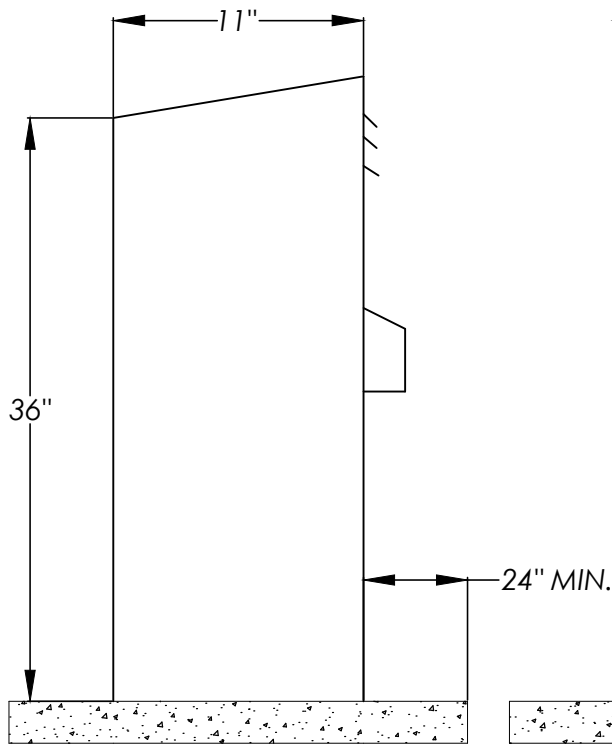
- ① STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE (UL LISTED).
- ② CONTROLLER ASSEMBLY. ASSEMBLED IN ENCLOSURE BY SITEONE GREEN TECH.
- ③ TERMINAL STRIP FOR VALVE WIRES.
- ④ POWER SWITCH / GFCI RECEPTACLE.
- ⑤ ELECTRICAL FLEX CONDUIT FOR POWER.
- ⑥ 6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATION. 6 SACK PCC.
- ⑦ FINISHED GRADE.
- ⑧ FLOW SENSOR TERMINAL BOARD.
- ⑨ 1" CONDUIT AND SWEEP ELL WITH FLOW SENSOR CABLE.
- ⑩ 3" CONDUIT AND SWEEP ELL FOR LEAD WIRES.
- ⑪ 1" CONDUIT AND SWEEP ELL FOR MASTER VALVE WIRES.
- ⑫ 1" CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.
- ⑬ 1" CONDUIT AND SWEEP ELL FOR GROUND WIRE.
- ⑭ 10" ROUND VALVE BOX AROUND GROUND ROD. FILL WITH 3/4" CRUSHED ROCK.
- ⑮ 5/8" X 8' GROUND ROD WITH #6 GROUND WIRE AND CLAMP. LOCATE 8'-12' FROM ENCLOSURE.
- ⑯ #6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.

CITY OF NAPA

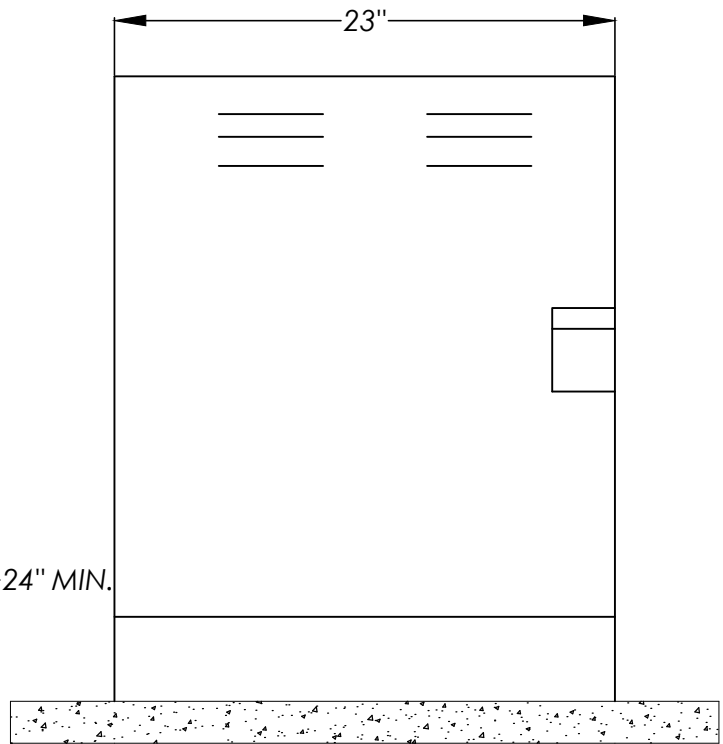
PUBLIC WORKS DEPARTMENT

CENTRAL CONTROL ASSEMBLY

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-3
FIELD NOTES:			



SIDE VIEW



FRONT VIEW

CONTROLLER CABINET LEMEUR MODEL A OR EQUAL, COLOR GREEN ON CONCRETE FOUNDATION WITH MIN. 24" APRON.

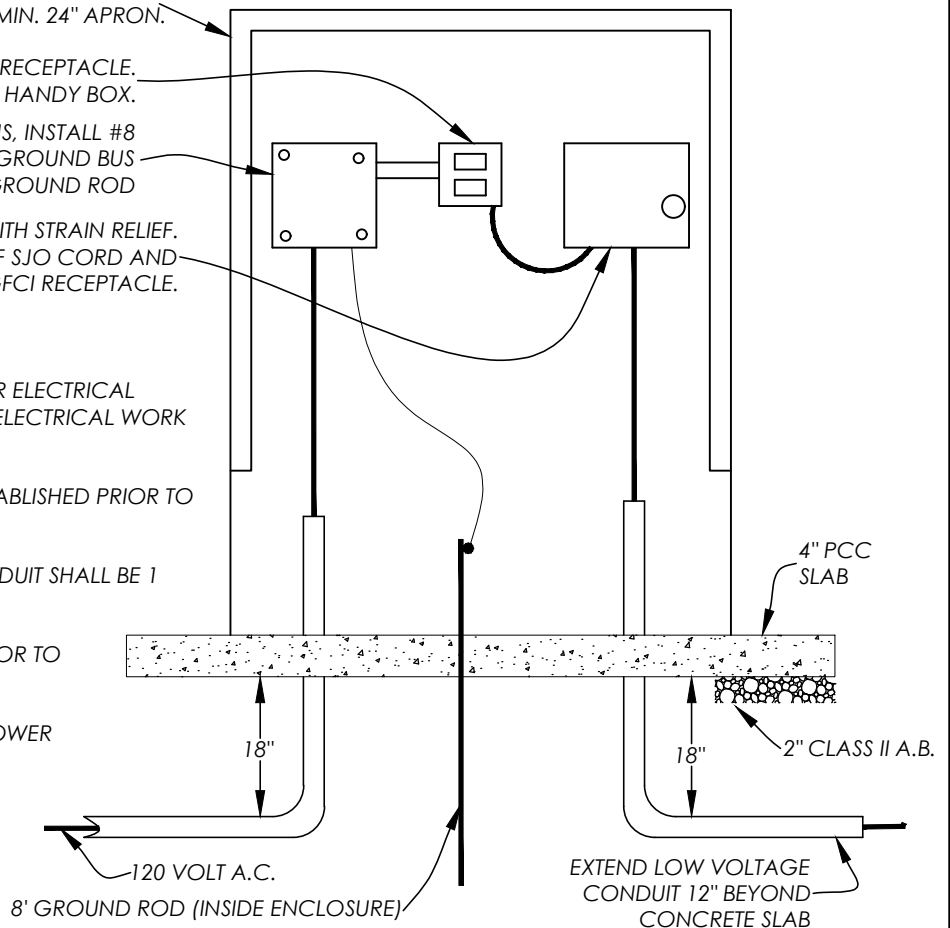
SINGLE-GANG HANDY BOX WITH ONE GFCI DUPLEX RECEPTACLE. INSTALL OFFSET NIPPLE FROM LANDING CAN TO HANDY BOX.

6" X 6" LANDING CAN WITH GROUND BUS, INSTALL #8 ARMORED GROUND CABLE FROM GROUND BUS TO 8' COPPER CLAD GROUND ROD

CONTROLLER AS SPECIFIED, WITH 14/3 SJO CORD WITH STRAIN RELIEF. INSTALL 90 DEGREE CORD CAP ON OTHER END OF SJO CORD AND PLUG INTO GFCI RECEPTACLE.

NOTES:

1. CONTACT CITY OF NAPA ELECTRICAL DEPT. FOR ELECTRICAL SERVICE LOCATIONS AND PRIOR TO STARTING ELECTRICAL WORK (707) 257-9588.
2. CONTROLLER SERVICE LOCATION SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION.
3. ELECTRICAL SERVICE AND LOW VOLTAGE CONDUIT SHALL BE 1 1/2" PVC SHD. 40, BURIED AT 18" DEEP.
4. CONTACT CITY OF NAPA ELECTRICAL DEPT. PRIOR TO BACKFILLING ANY ELECTRICAL TRENCHES.
5. CONTACT PG&E REGARDING LOCATION OF POWER SOURCE AND METERING REQUIREMENTS.
6. PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. CONCRETE SHALL BE CLASS "A" ( 6 SACKS PER CY).

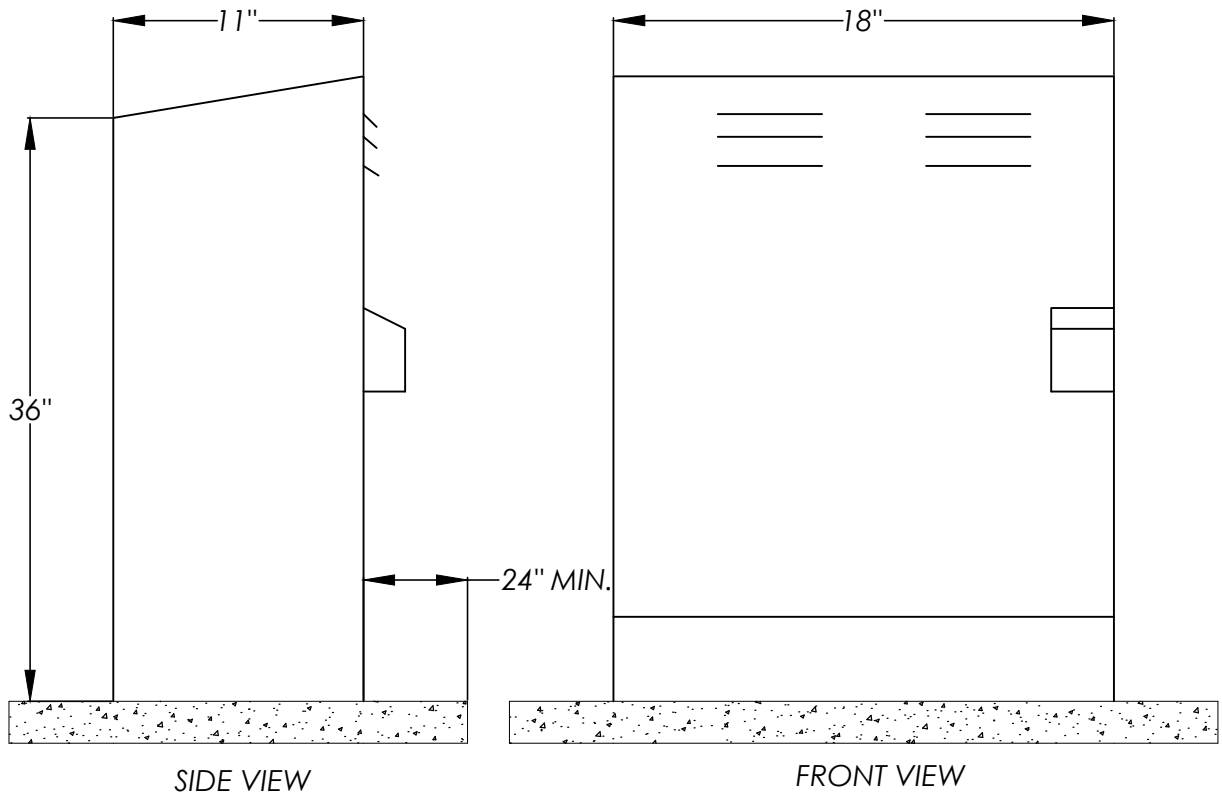


CITY OF NAPA

PUBLIC WORKS DEPARTMENT

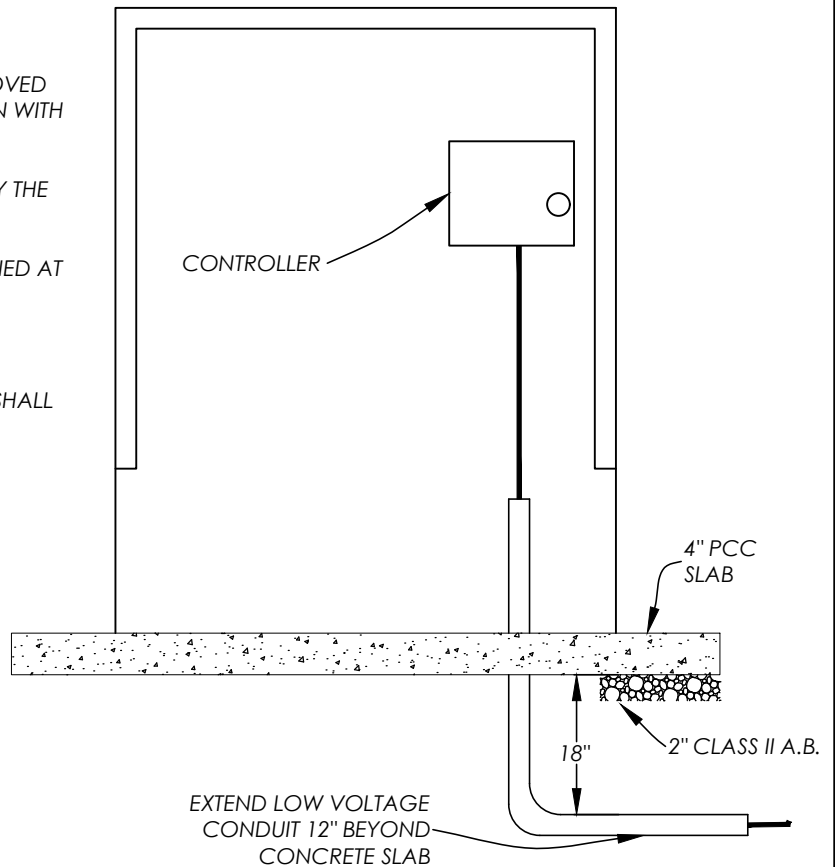
NON CENTRAL IRRIGATION  
CONTROLLER CABINET

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-3A
FIELD NOTES:			



NOTES:

1. CONTROLLER CABINET LE MEUR MODEL SG-AJR OR APPROVED EQUIVALENT, COLOR GREEN, ON CONCRETE FOUNDATION WITH MIN. 24" APRON.
2. CONTROLLER SERVICE LOCATION SHALL BE ESTABLISHED BY THE CITY PRIOR TO CONSTRUCTION
3. LOW VOLTAGE CONDUIT SHALL BE 1 1/2" PVC SHD.40, BURIED AT 20" DEEP.
4. CONTROLLER AS SPECIFIED.
5. PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. CONCRETE SHALL BE CLASS "A" (6 SACKS PER CY)



CITY OF NAPA

PUBLIC WORKS DEPARTMENT

BATTERY OPERATED IRRIGATION  
CONTROLLER CABINET

DRAWN BY: BRL

CHECKED BY: DMP

DATE: 06/2018

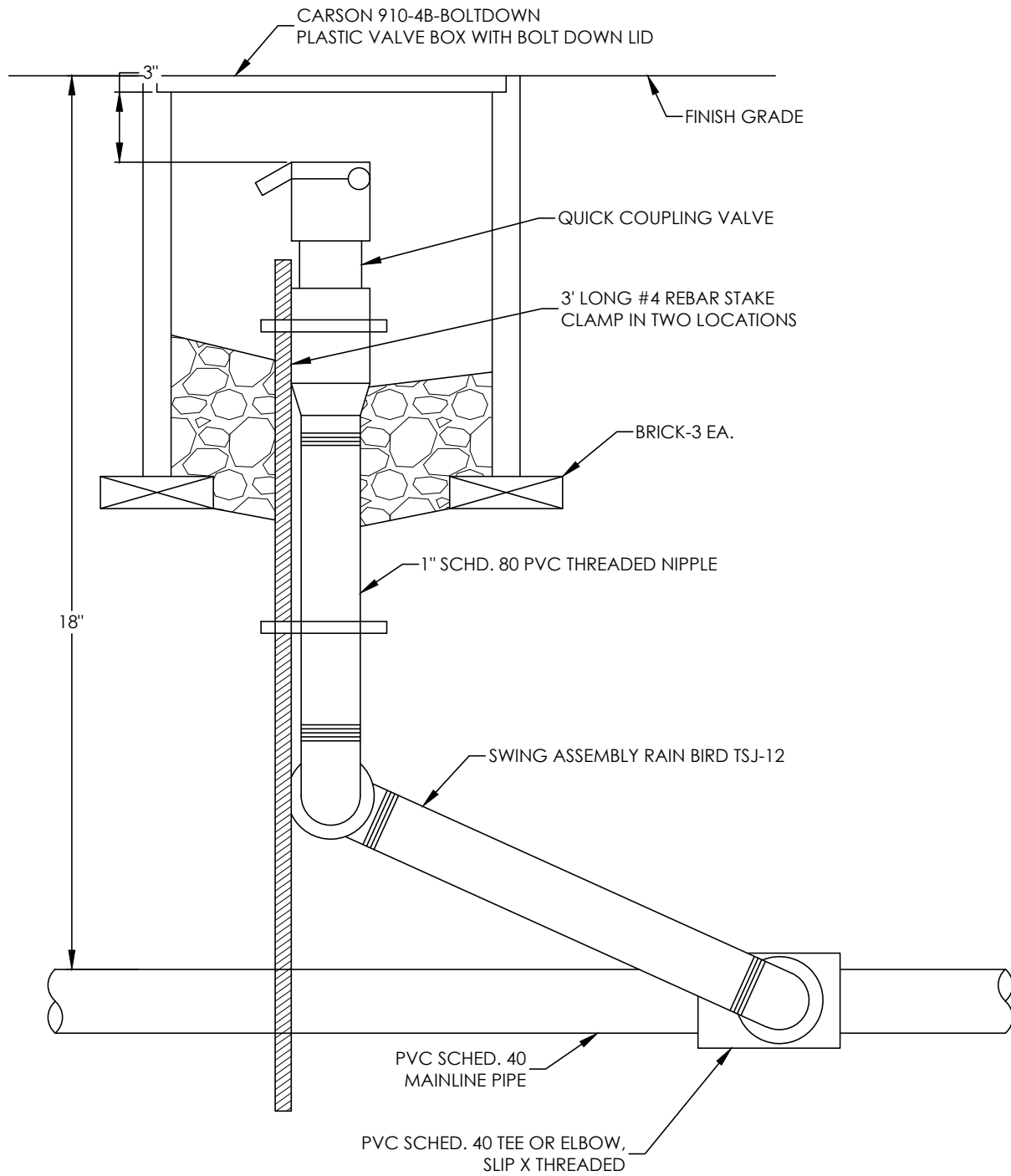
APPROVED BY: JRL

SCALE: NONE

DRAWING NO.

FIELD NOTES:

PL-3B



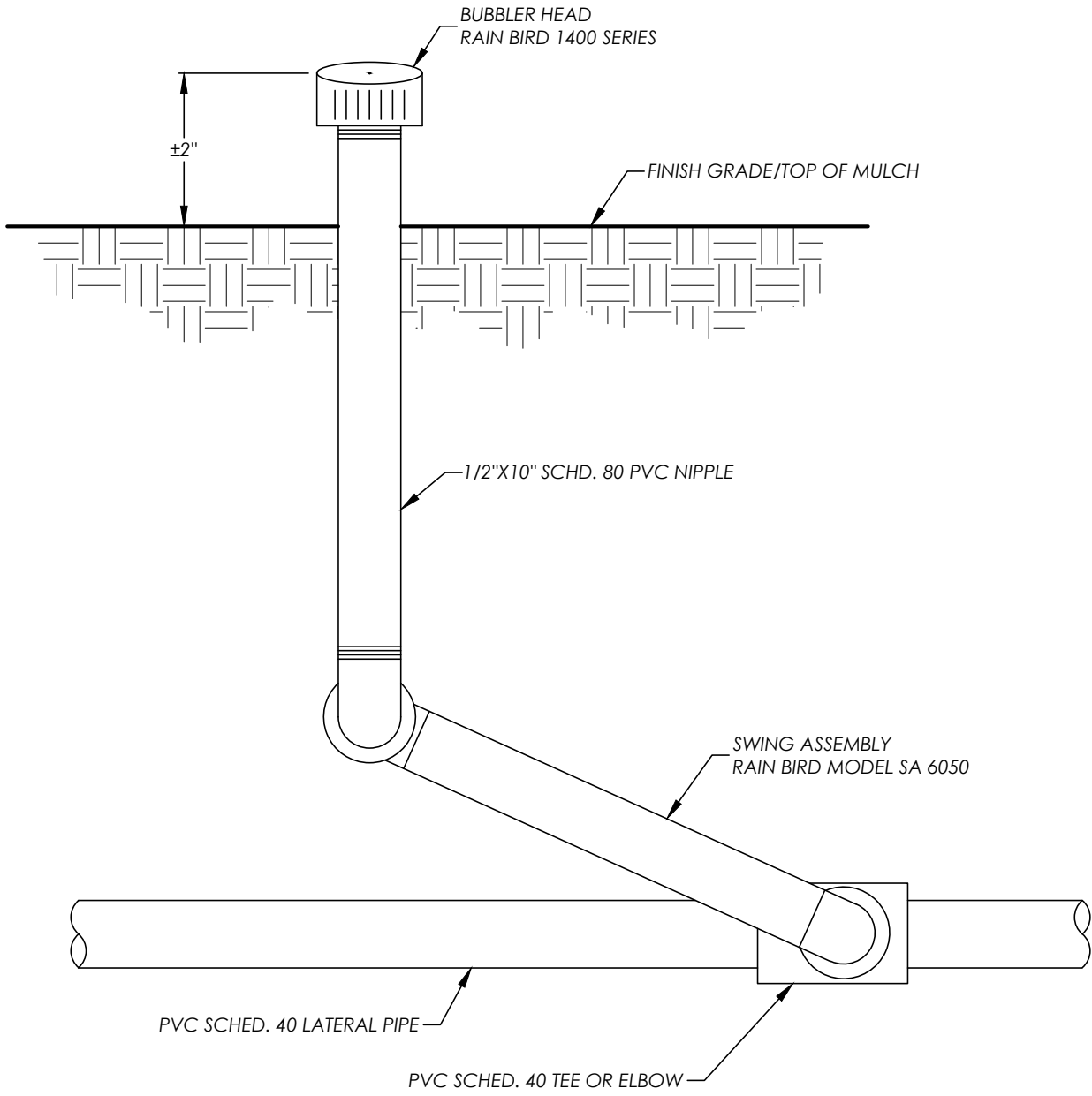
CITY OF NAPA

PUBLIC WORKS DEPARTMENT

QUICK COUPLING VALVE

DRAWN BY:	BRL
DATE:	06/2018
SCALE:	NONE
FIELD NOTES:	

CHECKED BY:	DMP
APPROVED BY:	JRL
DRAWING NO.	PL-4



CITY OF NAPA

PUBLIC WORKS DEPARTMENT

BUBBLER INSTALLATION

DRAWN BY: BRL

CHECKED BY: DMP

DATE: 06/2018

APPROVED BY: JRL

SCALE: NONE

DRAWING NO.

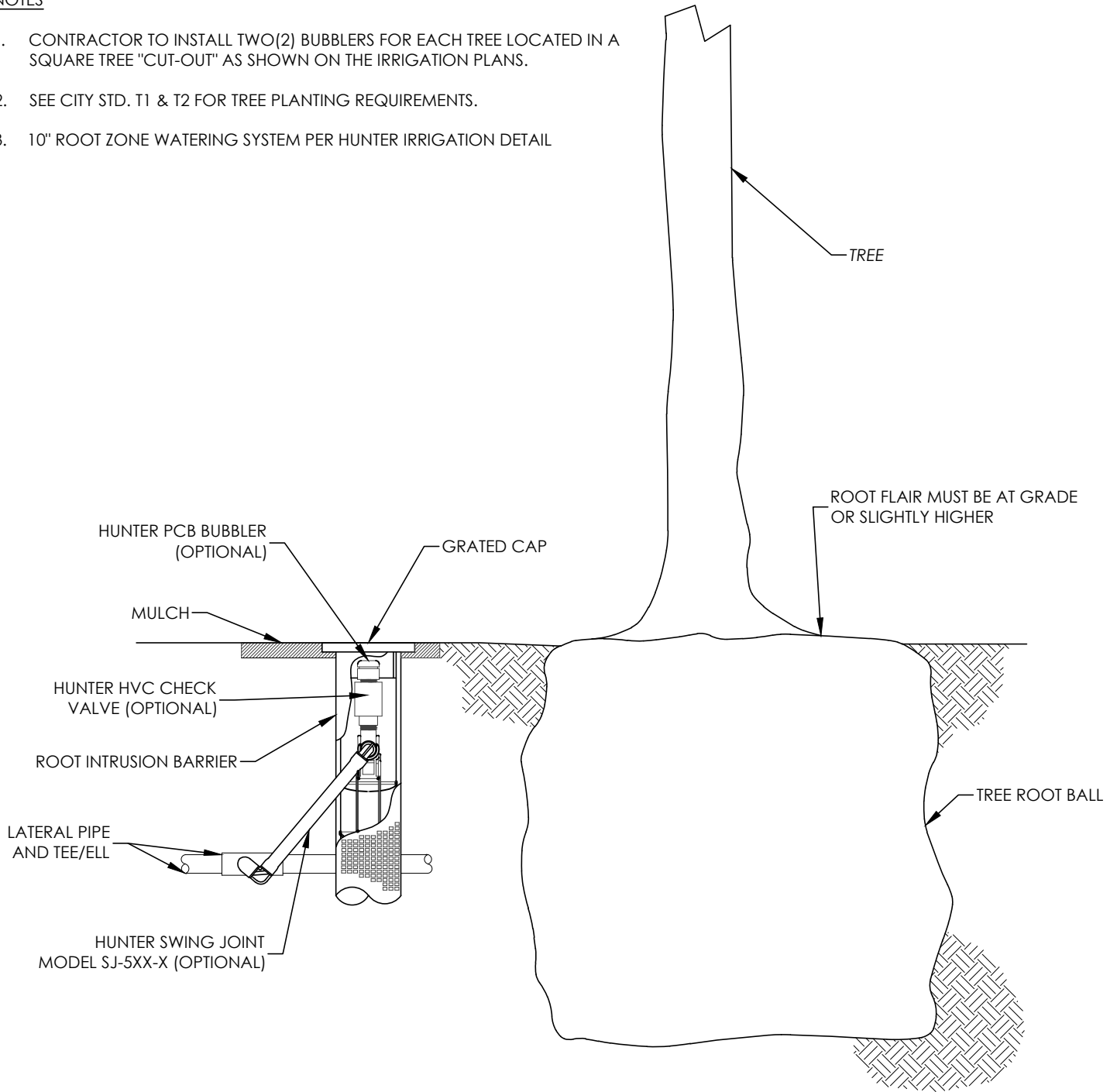
FIELD NOTES:

PL-5



NOTES

1. CONTRACTOR TO INSTALL TWO(2) BUBBLERS FOR EACH TREE LOCATED IN A SQUARE TREE "CUT-OUT" AS SHOWN ON THE IRRIGATION PLANS.
2. SEE CITY STD. T1 & T2 FOR TREE PLANTING REQUIREMENTS.
3. 10" ROOT ZONE WATERING SYSTEM PER HUNTER IRRIGATION DETAIL

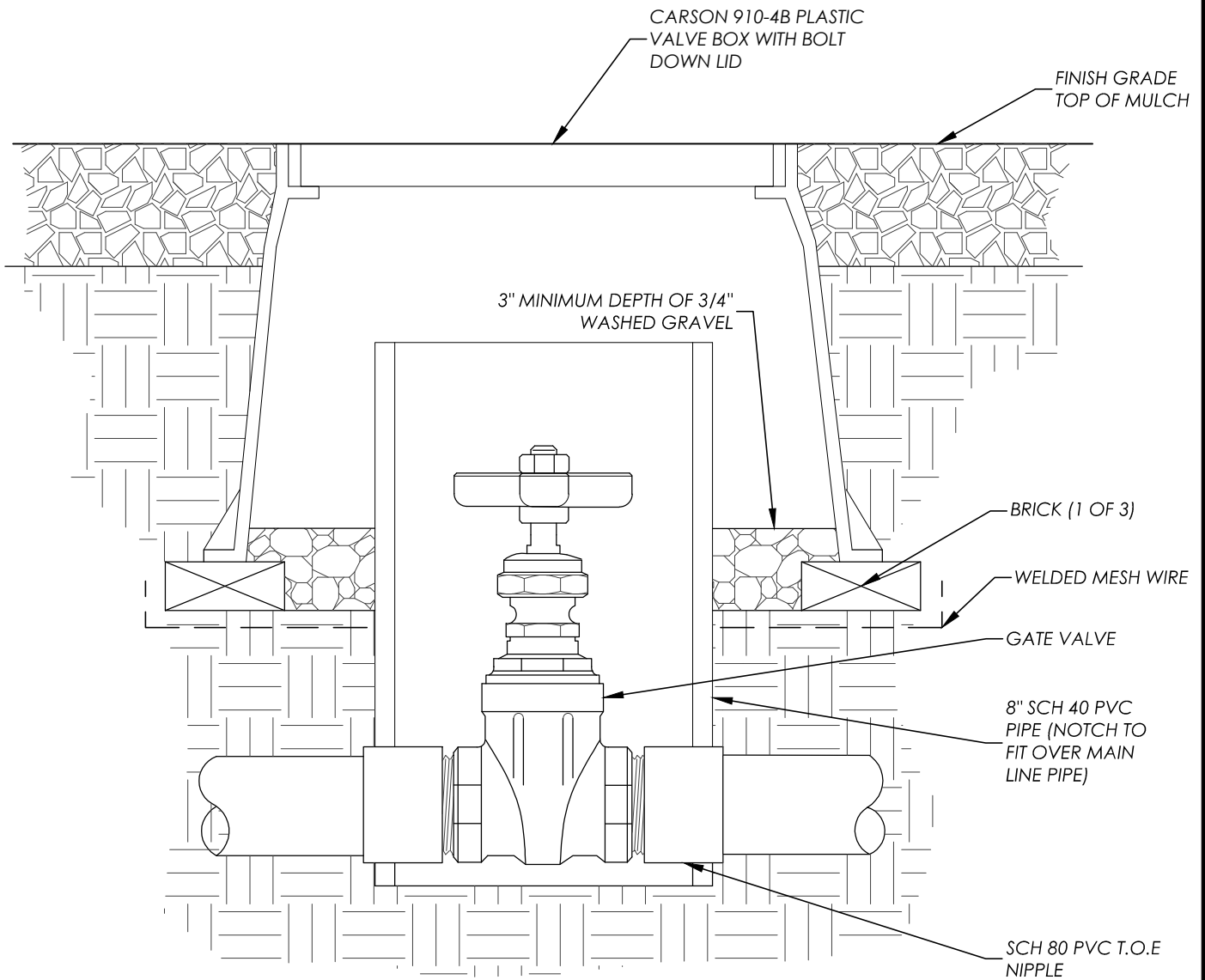


CITY OF NAPA

PUBLIC WORKS DEPARTMENT

TREE BUBBLER INSTALLATION

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-5A
FIELD NOTES:			



**NOTES:**

1. WELDED WIRE MESH SHALL BE #6 T304 STAINLESS STEEL WIRE MESH AND SHALL BE INSTALLED UNDER BOX, WASHED GRAVEL AND AROUND 8" SCH 40 PVC PIPE.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

GATE VALVE

DRAWN BY: BRL

CHECKED BY: DMP

DATE: 06/2018

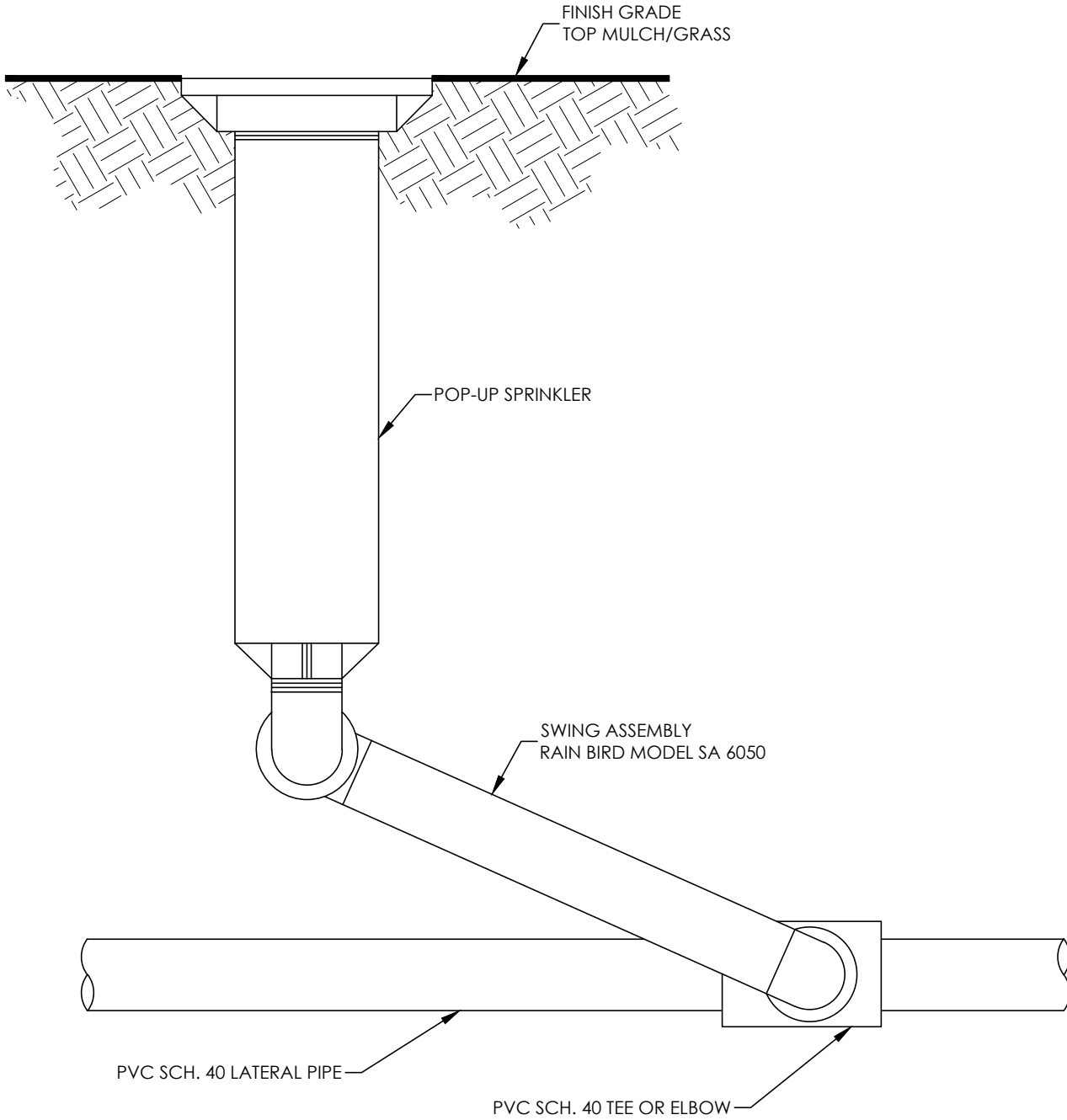
APPROVED BY: JRL

SCALE: NONE

DRAWING NO.

FIELD NOTES:

PL-6



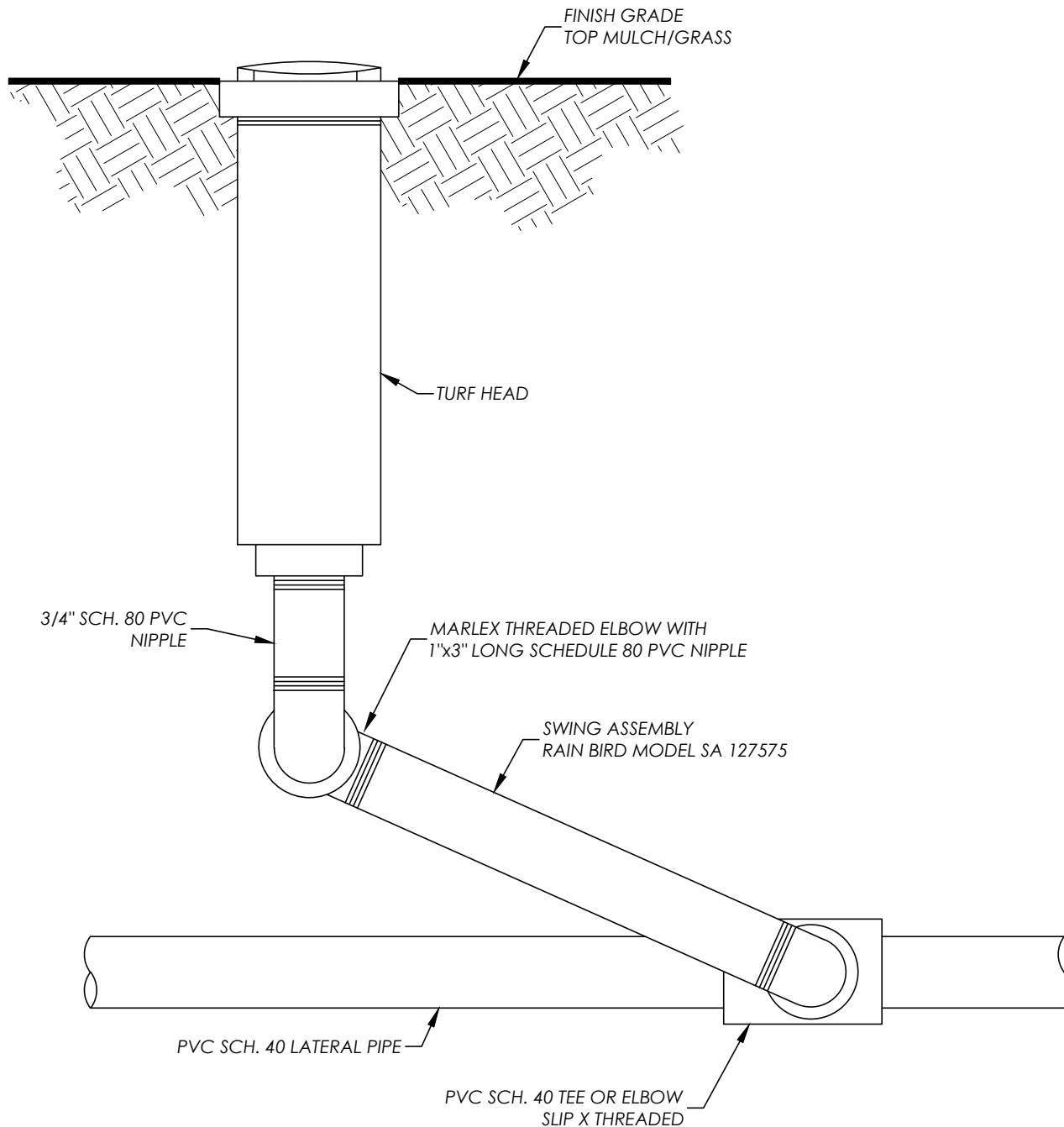
CITY OF NAPA

PUBLIC WORKS DEPARTMENT

1/2" POP-UP SPRINKLER INSTALLATION

DRAWN BY:	BRL
DATE:	06/2018
SCALE:	NONE
FIELD NOTES:	

CHECKED BY:	DMP
APPROVED BY:	JRL
DRAWING NO.	PL-7

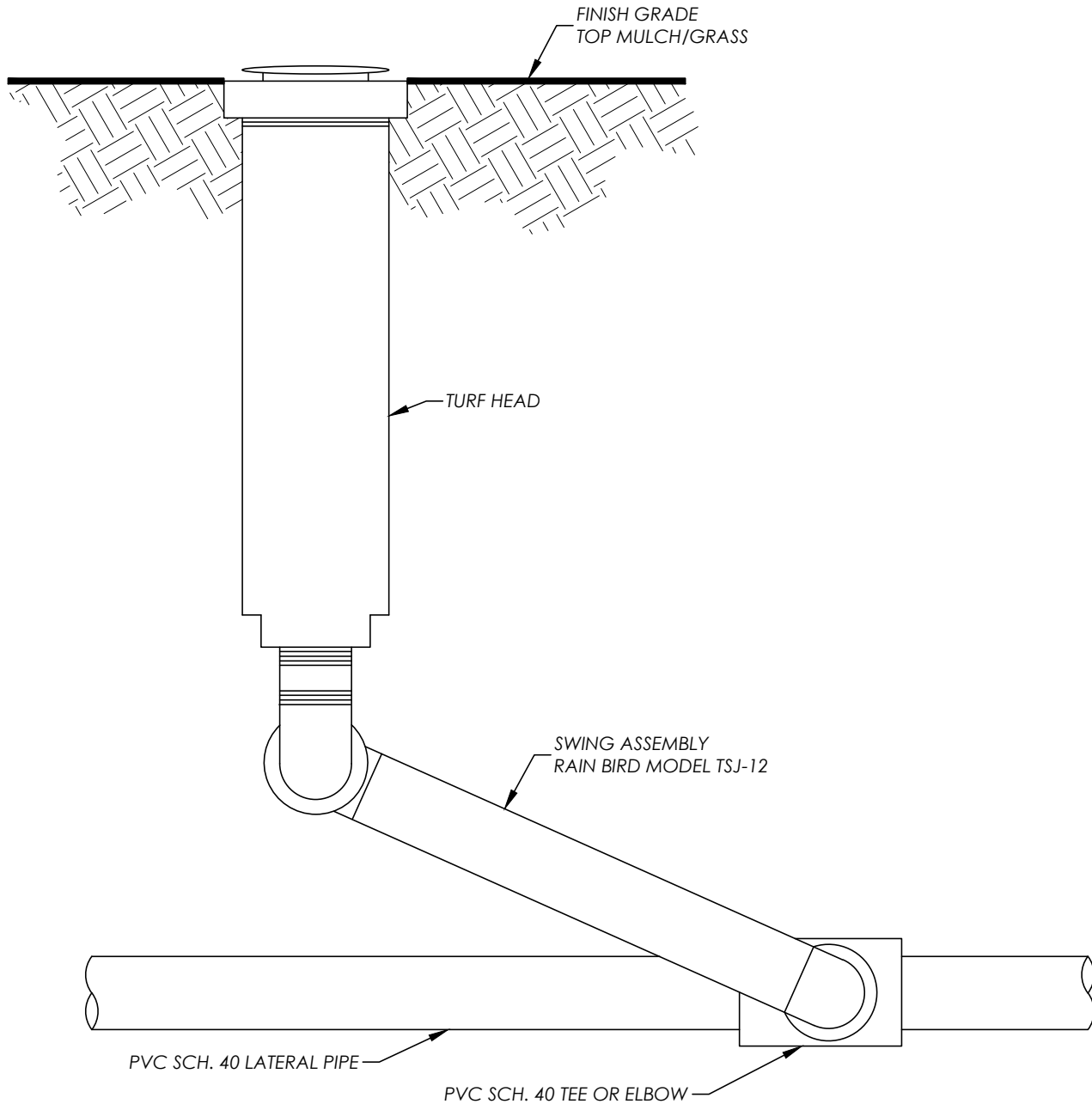


CITY OF NAPA

PUBLIC WORKS DEPARTMENT

3/4" TURF HEAD INSTALLATION

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-8
FIELD NOTES:			

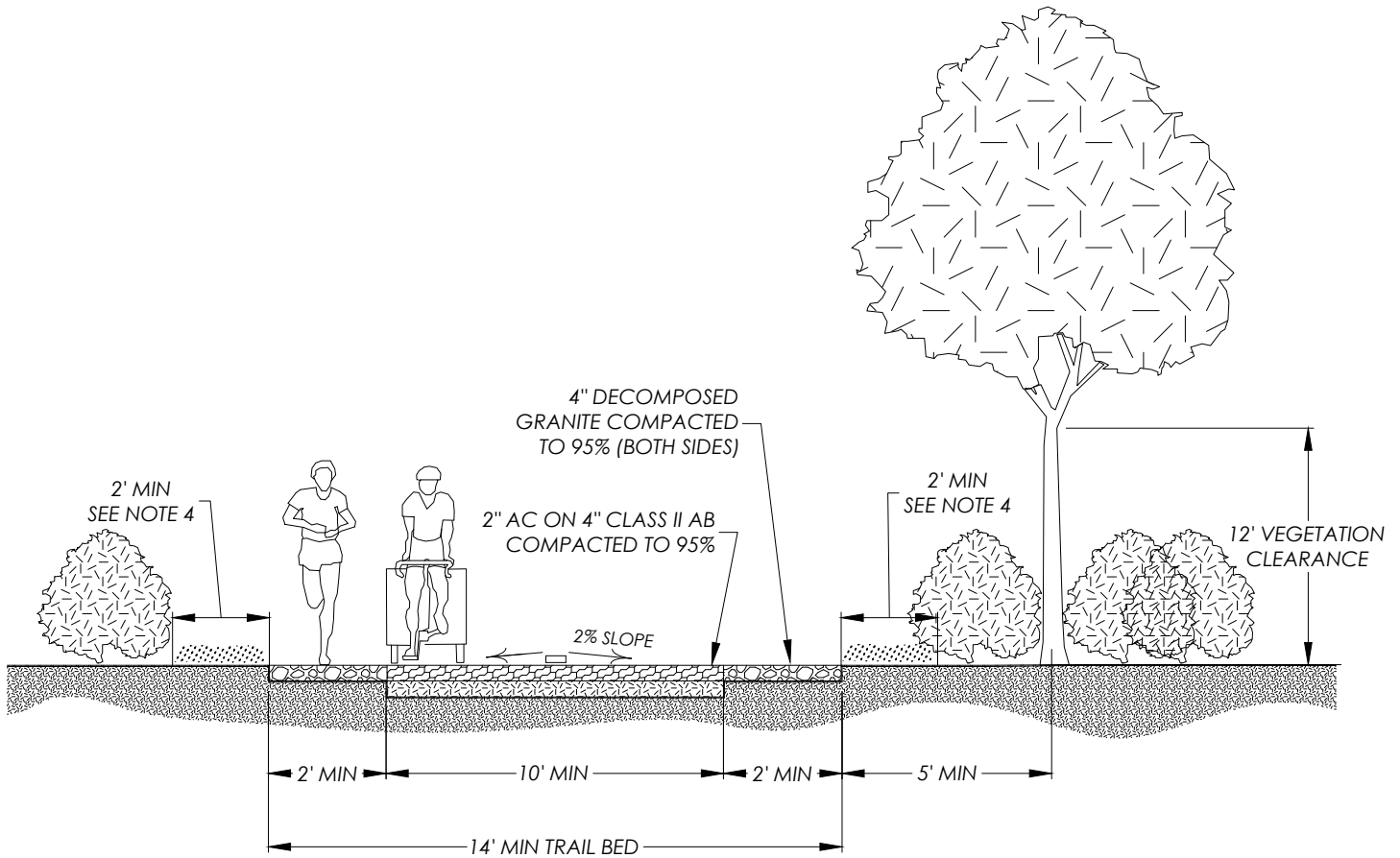


CITY OF NAPA

PUBLIC WORKS DEPARTMENT

1" TURF HEAD INSTALLATION

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-9
FIELD NOTES:			



NOTES

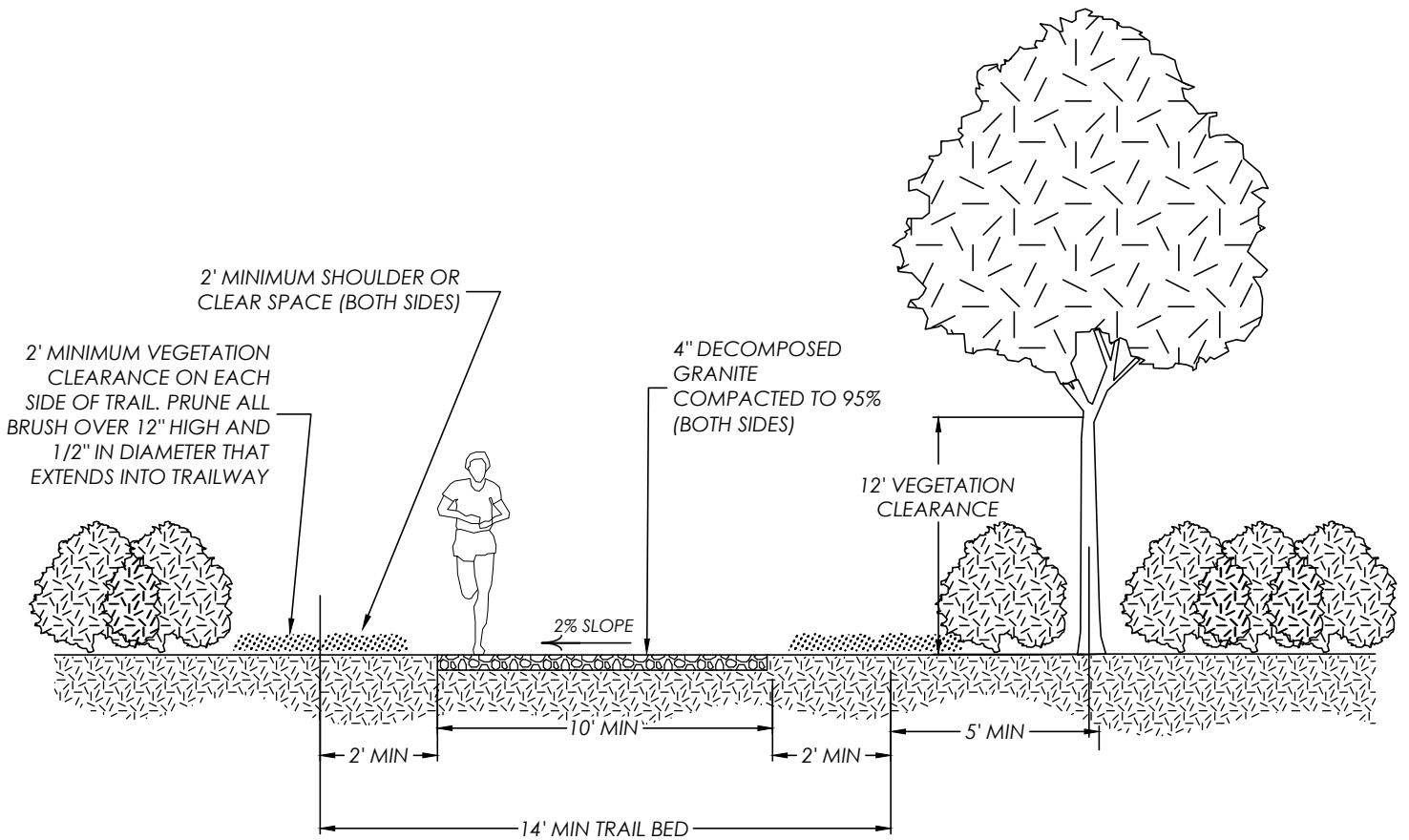
1. SCARIFY AND RECOMPACT THE UPPER 12" OF SUBGRADE TO 95% RELATIVE COMPACTION WITHIN THE LIMITS OF THE TRAILBED.
2. TRAIL SHALL HAVE A 5% MAXIMUM LONGITUDINAL GRADE.
3. REFERENCE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES PREPARED BY THE AASHTO TASK FORCE ON GEOMETRIC DESIGN FOR DETAILS ABOUT HORIZONTAL ALIGNMENT, SIGHT DISTANCES, SIGNING AND MARKING, DRAINAGE, INTERSECTION, PAVEMENT STRUCTURE AND GRADE SEPARATION STRUCTURES.
4. 2' MINIMUM VEGETATION CLEARANCE ON EACH SIDE OF TRAIL. PRUNE ALL BRUSH OVER 12" HIGH AND 1/2" IN DIAMETER THAT EXTENDS INTO TRAILWAY.
5. CENTERLINE MARKING TO BE A 2" WIDE, CONTINUOUS YELLOW STRIPE.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

PAVED SURFACE SHARED TRAIL

DRAWN BY:	BRL	CHECKED BY:	DMP
DATE:	06/2018	APPROVED BY:	JRL
SCALE:	NONE	DRAWING NO.	PL-10
FIELD NOTES:			



NOTES:

- 1) SCARIFY AND RECOMPACT THE UPPER 12 INCHES OF SURFACE OR SUBGRADE TO 95% REALTIVE COMPACTION WITHIN THE LIMITS OF THE COMPACTED TRAILBED.
- 2) TRAIL SHALL HAVE A 5% MAXIMUM GRADE.
- 3) REFERENCE GUIDE FOR THE DEVELOPEMENT OF BICYCLE FACILITIES PREPARED BY THE AASHTO TASK FORCE ON GEOMETRIC DESIGN FOR DETAILS ABOUT HORIZONTAL ALIGNMENT, SIGHT DISTANCES, SIGNING AND MARKING, DRAINAGE, INTERSECTIONS, PAVEMENT STRUCTURE, AND GRADE SEPARATION STRUCTURES.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

TITLE

DECOMPOSED GRANITE  
SURFACE SHARED TRAIL

DRAWN BY: BRL

DATE: 3/2017

SCALE: NONE

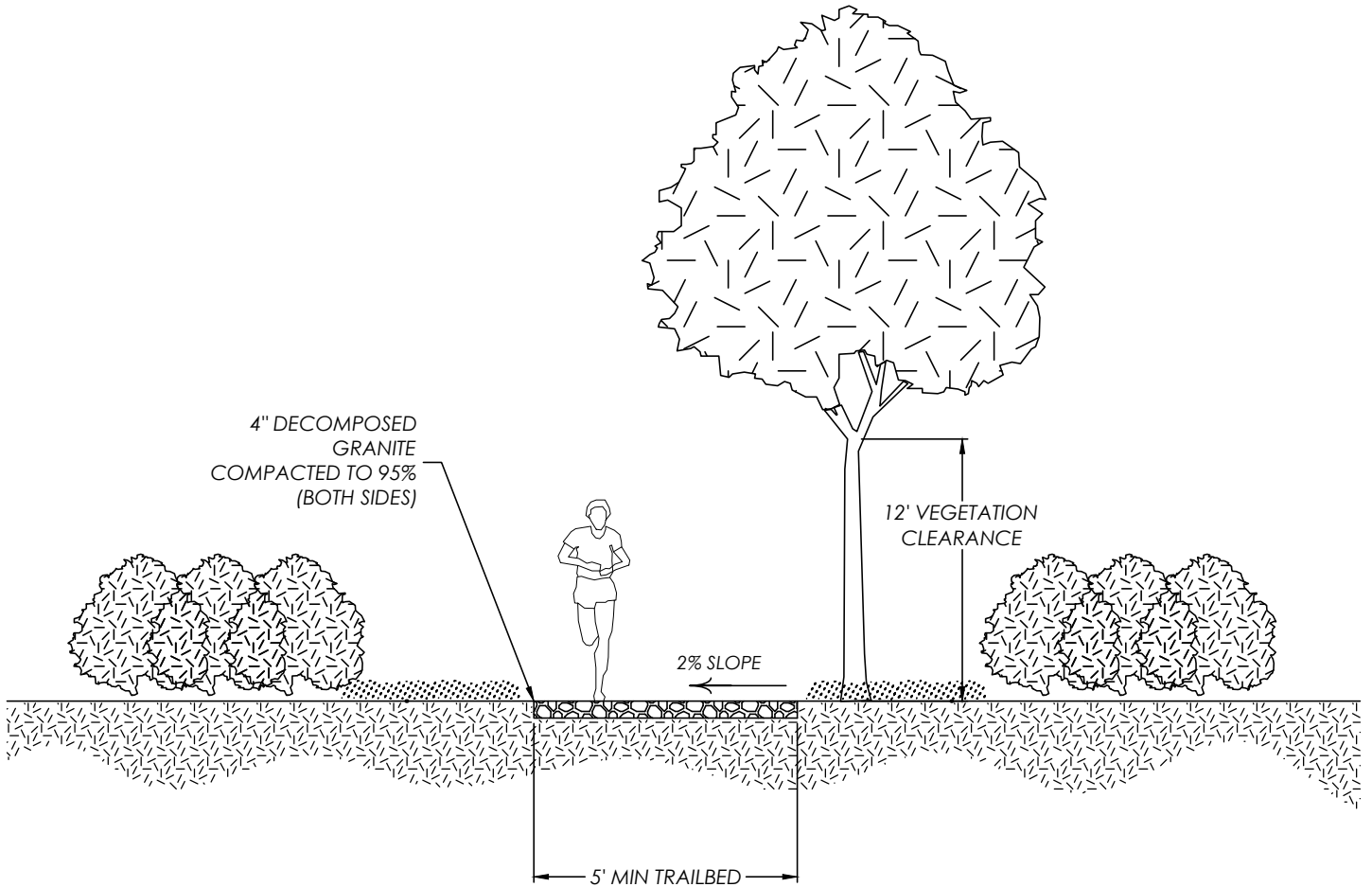
FIELD NOTES:

CHECKED BY: DMP

APPROVED BY: JRL

DRAWING NO.

PL-11



NOTES:

1. SCARIFY AND RECOMPACT THE UPPER 12 INCHES OF SUBGRADE TO 95% RELATIVE COMPACTION WITHIN THE LIMITS OF THE TRAILBED.
2. TRAIL SHALL HAVE A 5% MAXIMUM GRADE.
3. 3' - 6" MINIMUM VEGETATION CLEARANCE ON EACH SIDE OF TRAIL. PRUNE ALL BRUSH OVER 12" HIGH AND 1/2" IN DIAMETER THAT EXTENDS INTO TRAILWAY.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

TITLE

DECOMPOSED GRANITE  
SURFACE FOOT TRAIL

DRAWN BY: BRL

DATE: 3/2017

SCALE: NONE

FIELD NOTES:

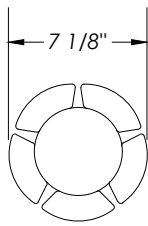
CHECKED BY: DMP

APPROVED BY: JRL

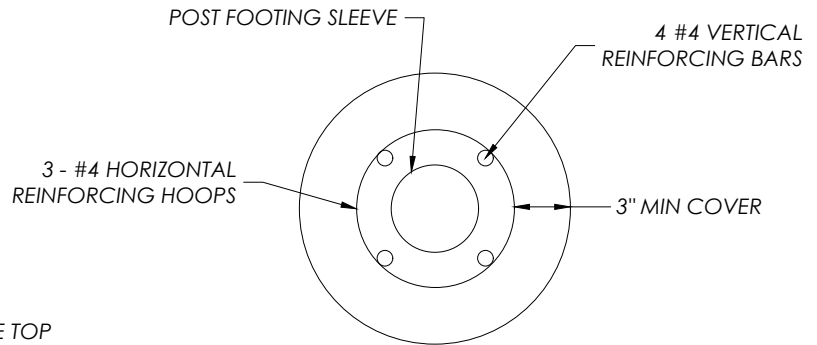
DRAWING NO.

PL-12

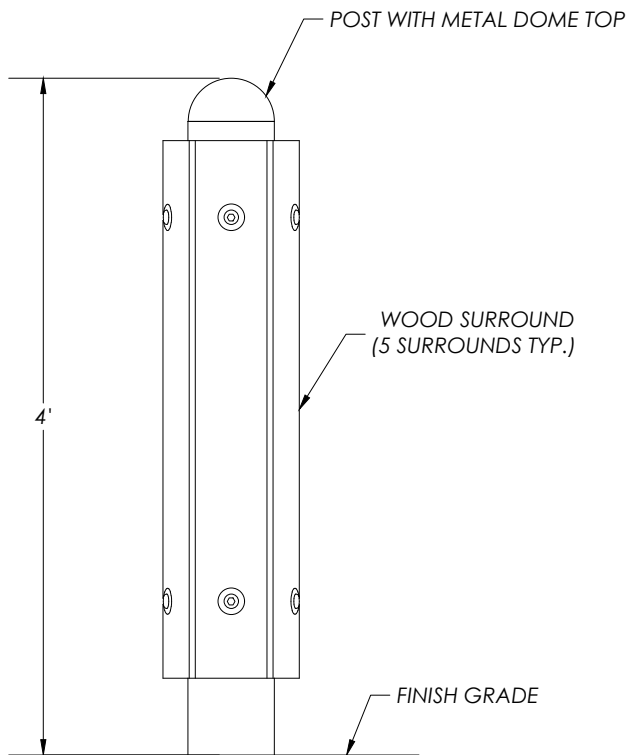




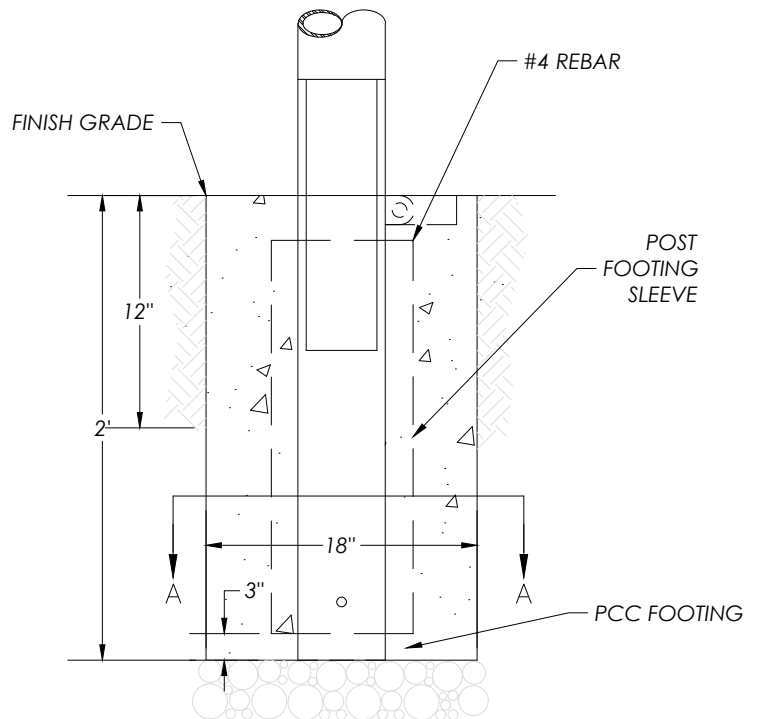
TOP VIEW



SECTION A-A



FRONT VIEW



REMOVEABLE MOUNTING

NOTES

1. USE TIMBERFORM MODEL NO. 2191-R METAL
2. CONCRETE FOOTING AND NO.1 REBAR REQUIRED

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

TITLE

METAL (BLACK) BOLLARD  
WITH WOOD SURROUND

DRAWN BY: BRL

DATE: 06/2018

SCALE: NONE

FIELD NOTES:

CHECKED BY: DMP

APPROVED BY: JRL

DRAWING NO.

PL-13