

CITY OF LANCASTER

APPROVED BY:

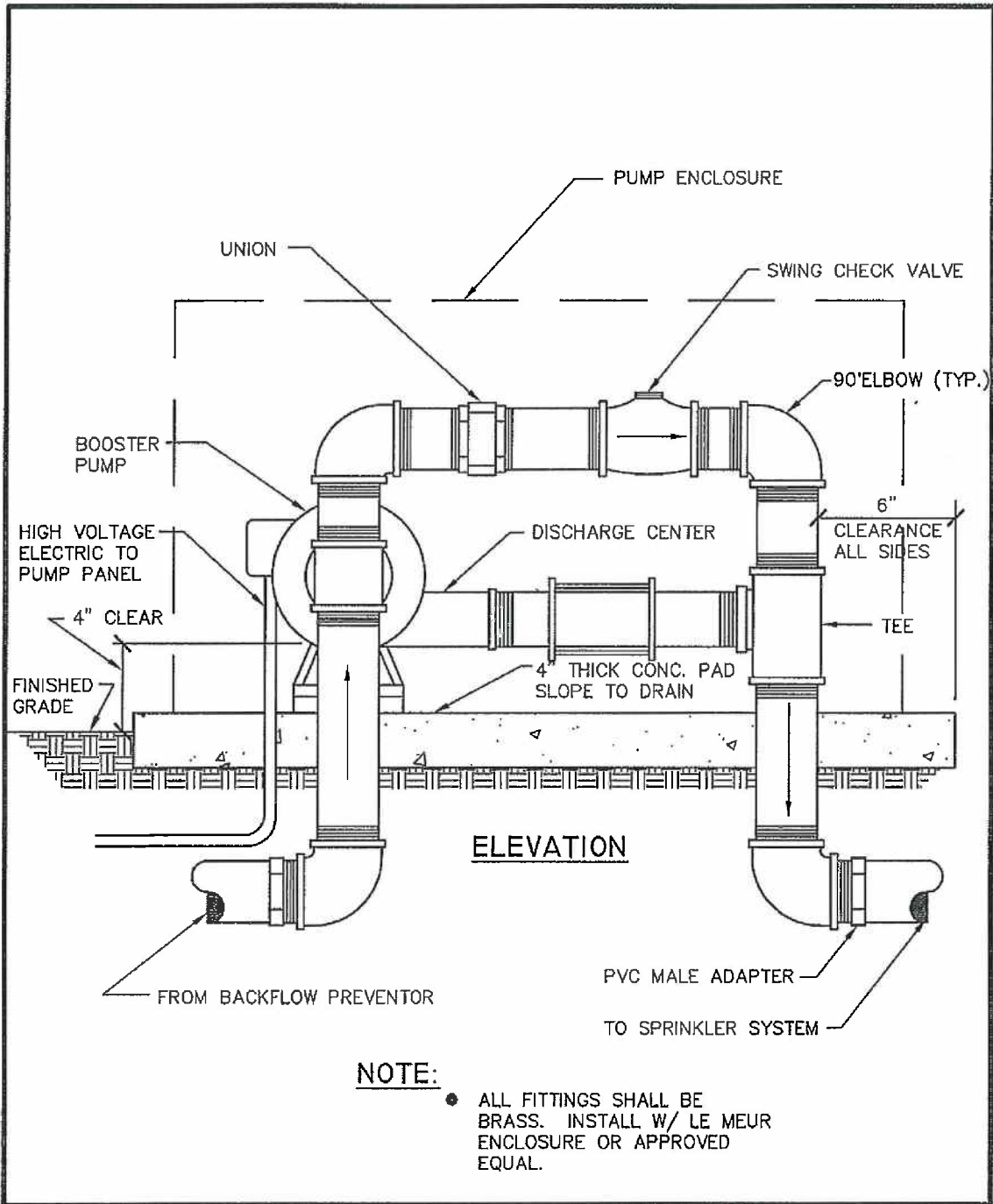
Camelia Williams

REVISED BY:

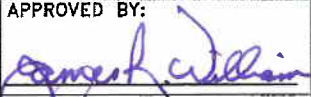

Robert [Signature]

**AUTOMATIC
CONTROLLER
(W/ ENCLOSURE)**

**STANDARD
DETAIL
102**

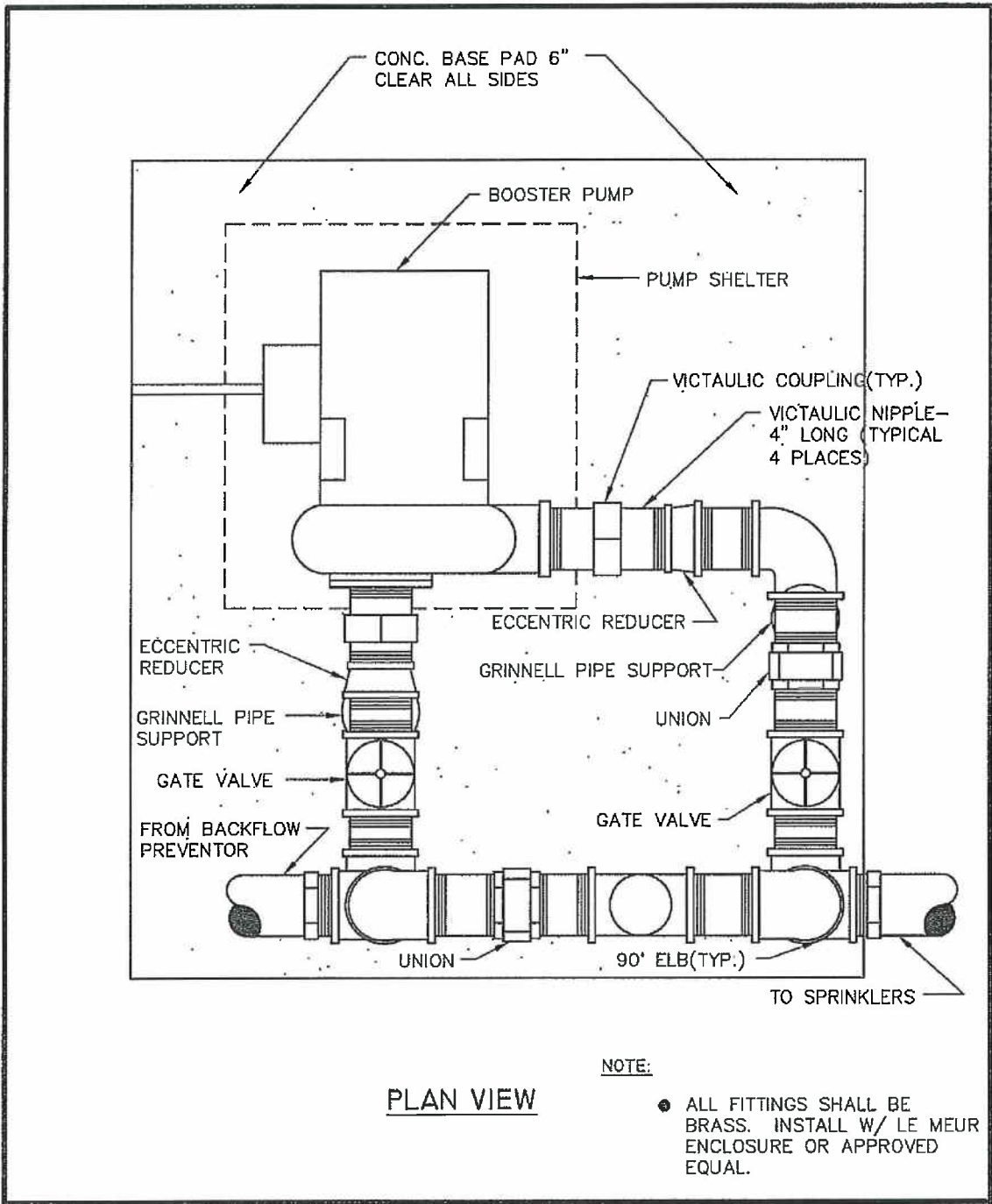


CITY OF LANCASTER

APPROVED BY:

 REVISED BY:


**BOOSTER PUMP
(ELEVATION)**

**STANDARD
DETAIL
103-1**



PLAN VIEW

NOTE:

- ALL FITTINGS SHALL BE BRASS. INSTALL W/ LE MEUR ENCLOSURE OR APPROVED EQUAL.

CITY OF LANCASTER

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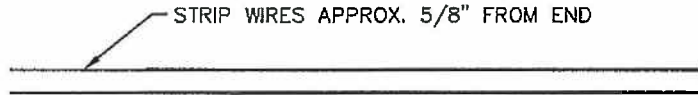
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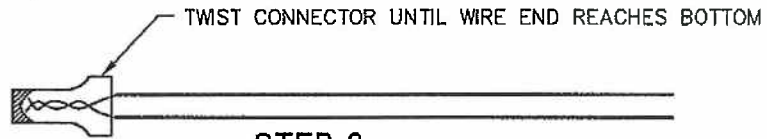
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**BOOSTER PUMP
(PLAN VIEW)**

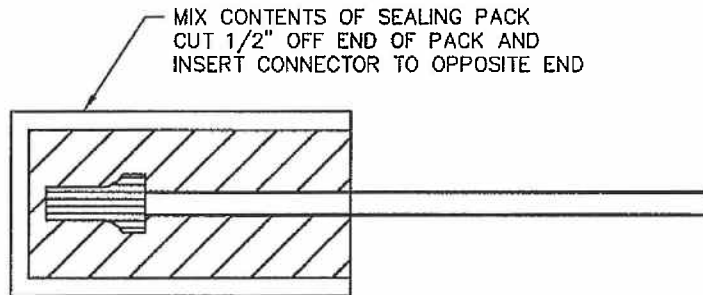
**STANDARD
DETAIL
103-2**



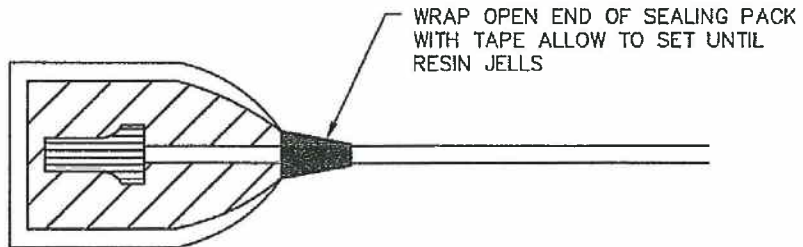
STEP 1



STEP 2



STEP 3



STEP 4

CITY OF LANCASTER

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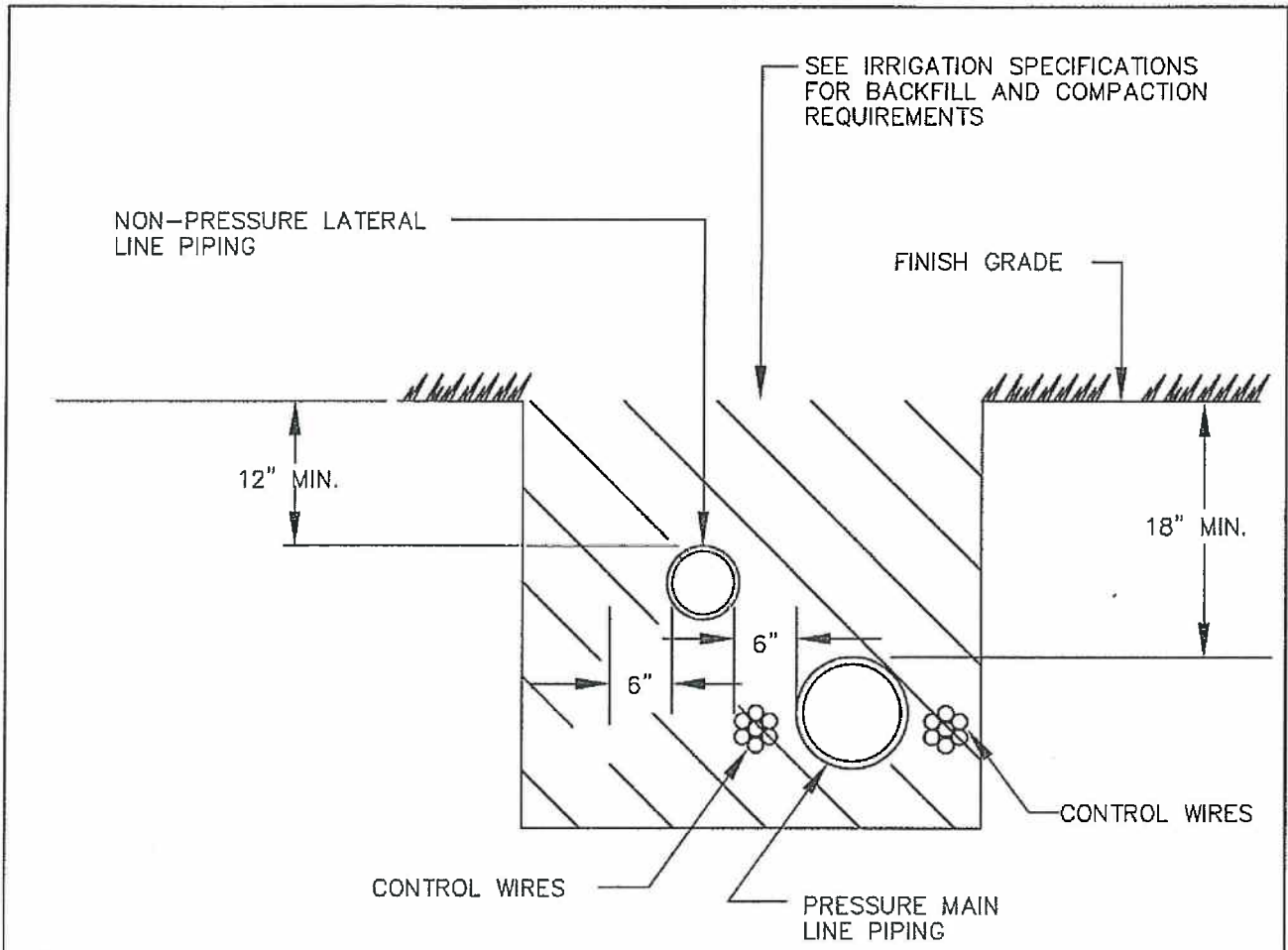
James Williams

REVISED BY:

Robert J. [Signature]

WIRE CONNECTOR

STANDARD
DETAIL
104



NOTES:

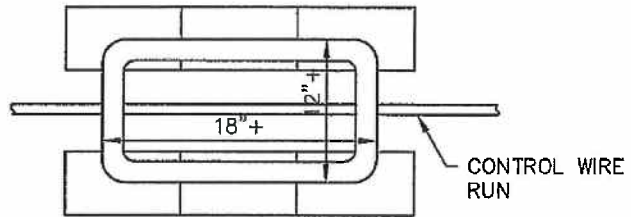
- PROVIDE 2" OF CLEAN BACKFILL UNDER ALL PIPING
- NO OTHER TRADES (ELECT., LIGHTING) ALLOWED TO USE SAME TRENCH AS IRRIGATION PIPE.
- PROVIDE 24" COVER FOR DIRECT BURIAL CABLE
- PROVIDE P.V.C. SCH.40 SLEEVES FOR ALL WIRING & PIPING UNDER PAVING
- NO STAKING (VERTICALLY) OF PIPES IN SAME TRENCH

CITY OF LANCASTER

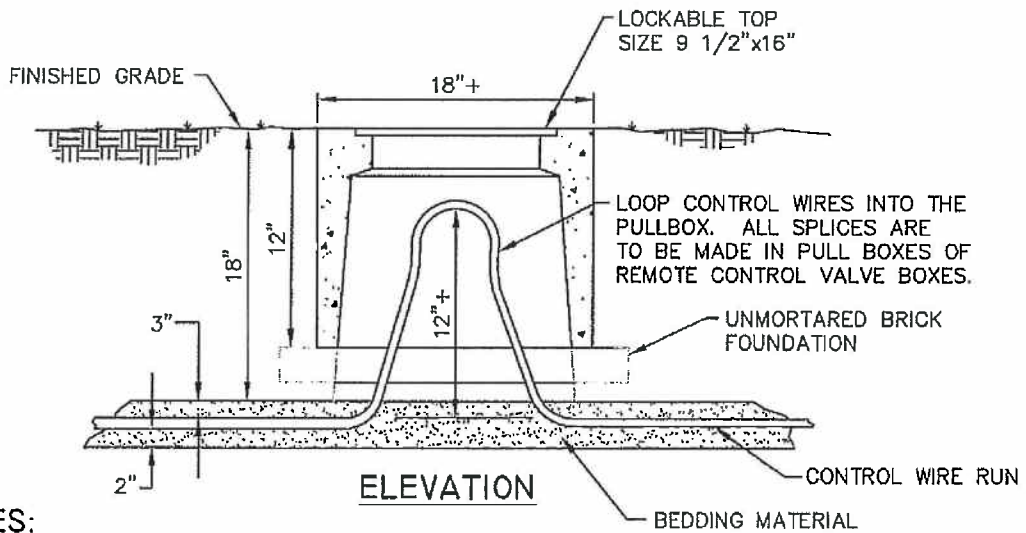
APPROVED BY:
[Signature]
 RECOMMENDED BY:
[Signature]

TRENCHING

**STANDARD
 DETAIL
 105**



PLAN VIEW



ELEVATION

NOTES:

- INSTALL PULL BOXES AS SHOWN ON PLANS.
- AT JUNCTIONS WHERE RUNS COMBINE, SPLICE COMMON GROUND IN PULLBOX.
- PULLBOX COVER SHALL BE PERMANENTLY MARKED "ELECTRIC".
- CONDUCTORS FOR EACH CONTROLLER CLOCK SHALL BE HARNESSSED SEPARATELY AND AT SUFFICIENT INTERVALS TO MAINTAIN A DEFINITE BUNDLE.
- ALL SPLICES AND SPARE WIRE ENDS SHALL BE MADE WITH A PROPERLY SET MECHANICAL SPLICE CONNECTOR ENTIRELY ENCLOSED IN SELF-CURING EPOXY RESIN AND SHALL BE COMPLETELY WATER-PROOF.

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APPROVED BY:

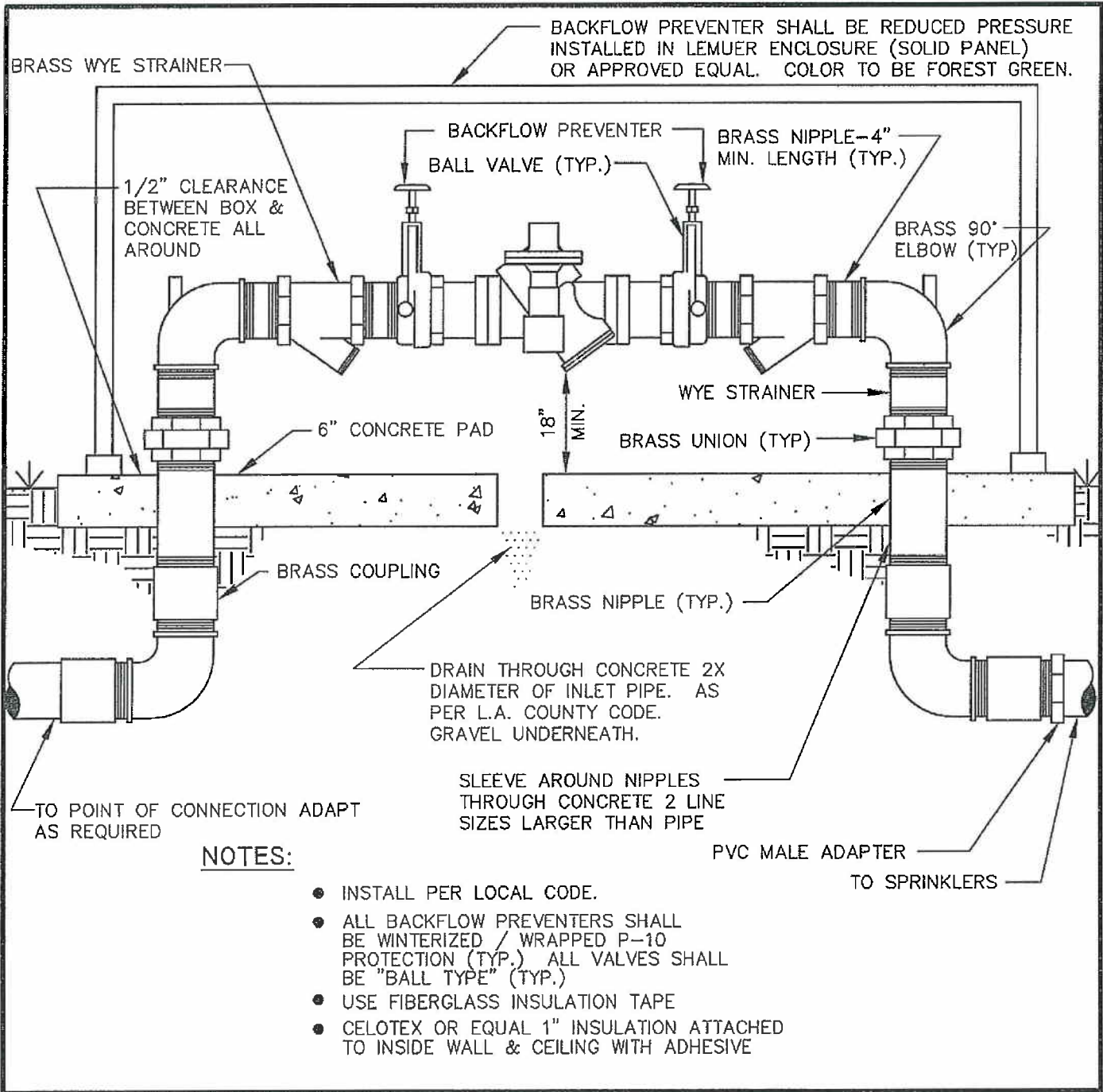
[Signature]

RECOMMENDED BY:

[Signature]

ELECTRIC PULL BOX

**STANDARD
DETAIL
107**



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APPROVED BY:

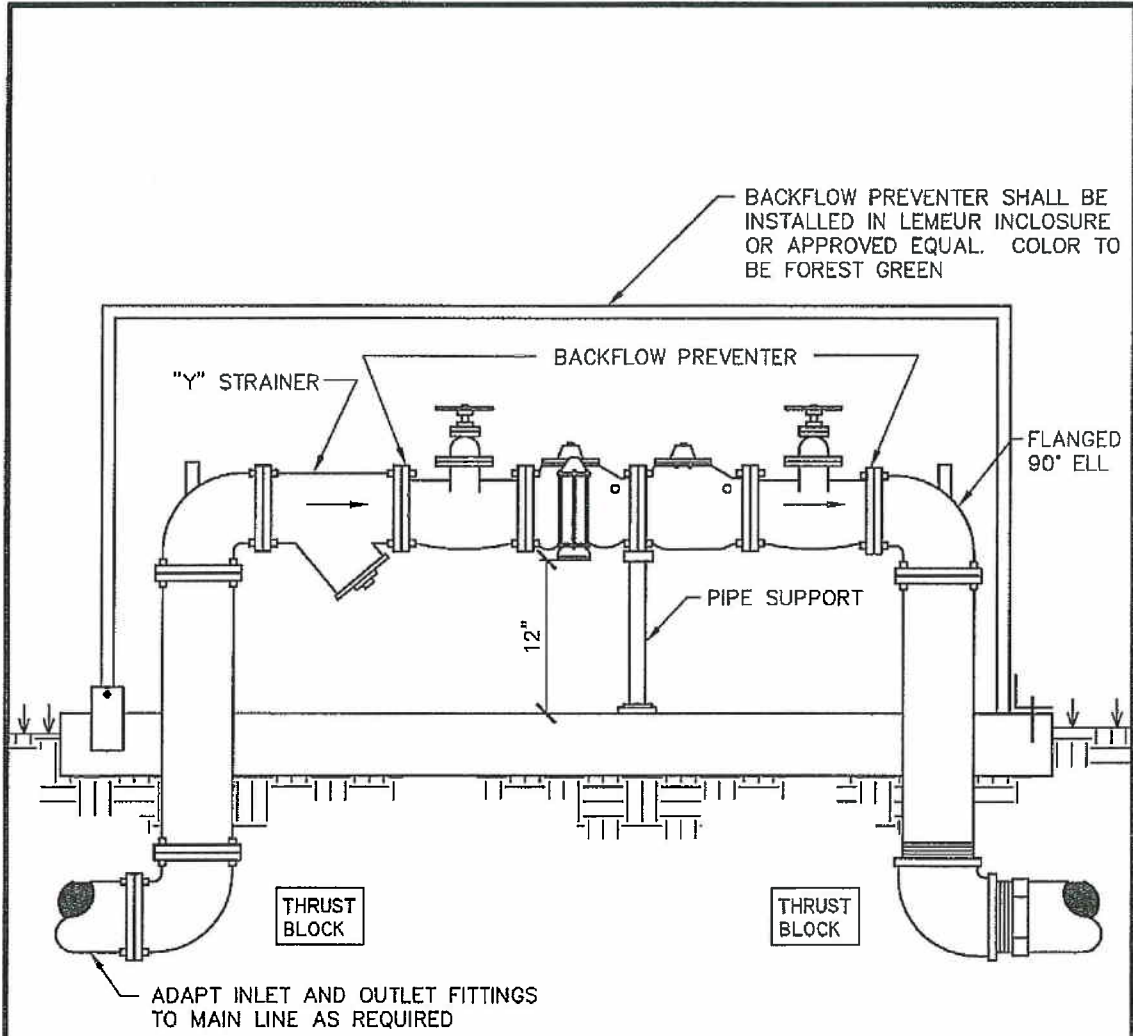
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REVISED BY:

[Signature]

**BACKFLOW
PREVENTER
2" AND SMALLER**

**STANDARD
DETAIL
108**



NOTES:

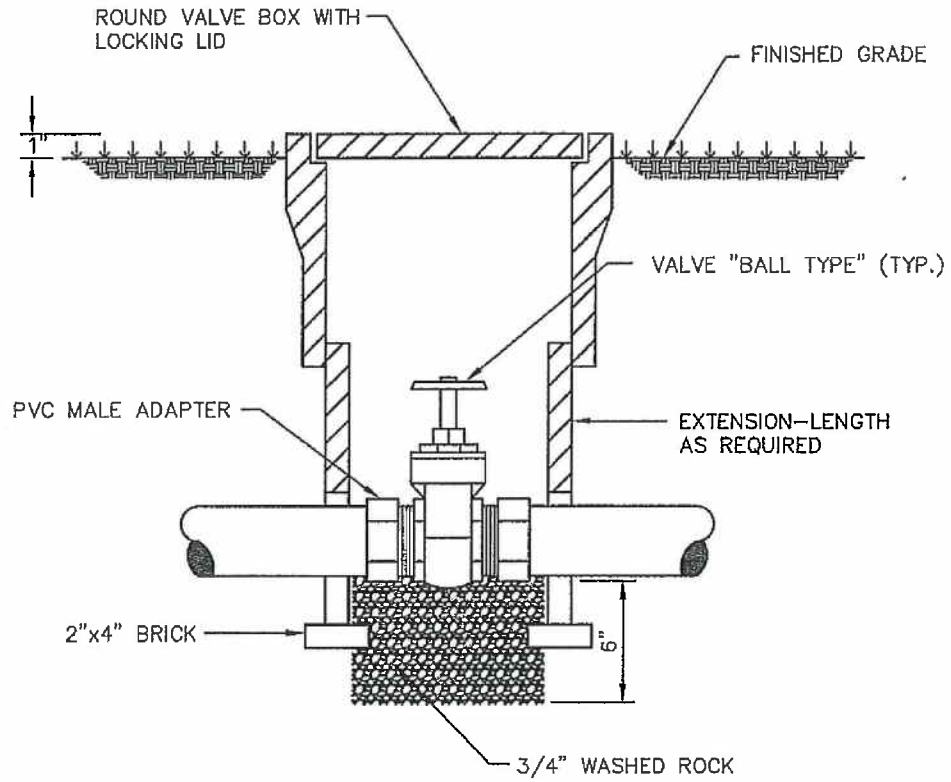
- INSTALL PER LOCAL CODE
- ALL BACKFLOW PREVENTERS SHALL BE WINTERIZED/Wrapped R-10 PROTECTION (TYP.) ALL VALVES SHALL BE 'BALL TYPE' 2" & SMALLER RESILIENT SEAT OR WEDGE FOR 2 1/2" & LARGER.
- FITTING OR "T" REDUCED TO 1/2" THREADED FOR PRESSURE CHECK (TYP.)
- THRUST BLOCKS AS REQUIRED IN SECTION II.C.6

CITY OF LANCASTER

APPROVED BY:
Ernest Williams
 RECOMMENDED BY:
Robert Meyer

**BACKFLOW
 PREVENTER
 2 1/2" AND LARGER**

**STANDARD
 DETAIL
 109**



CITY OF LANCASTER

APPROVED BY:

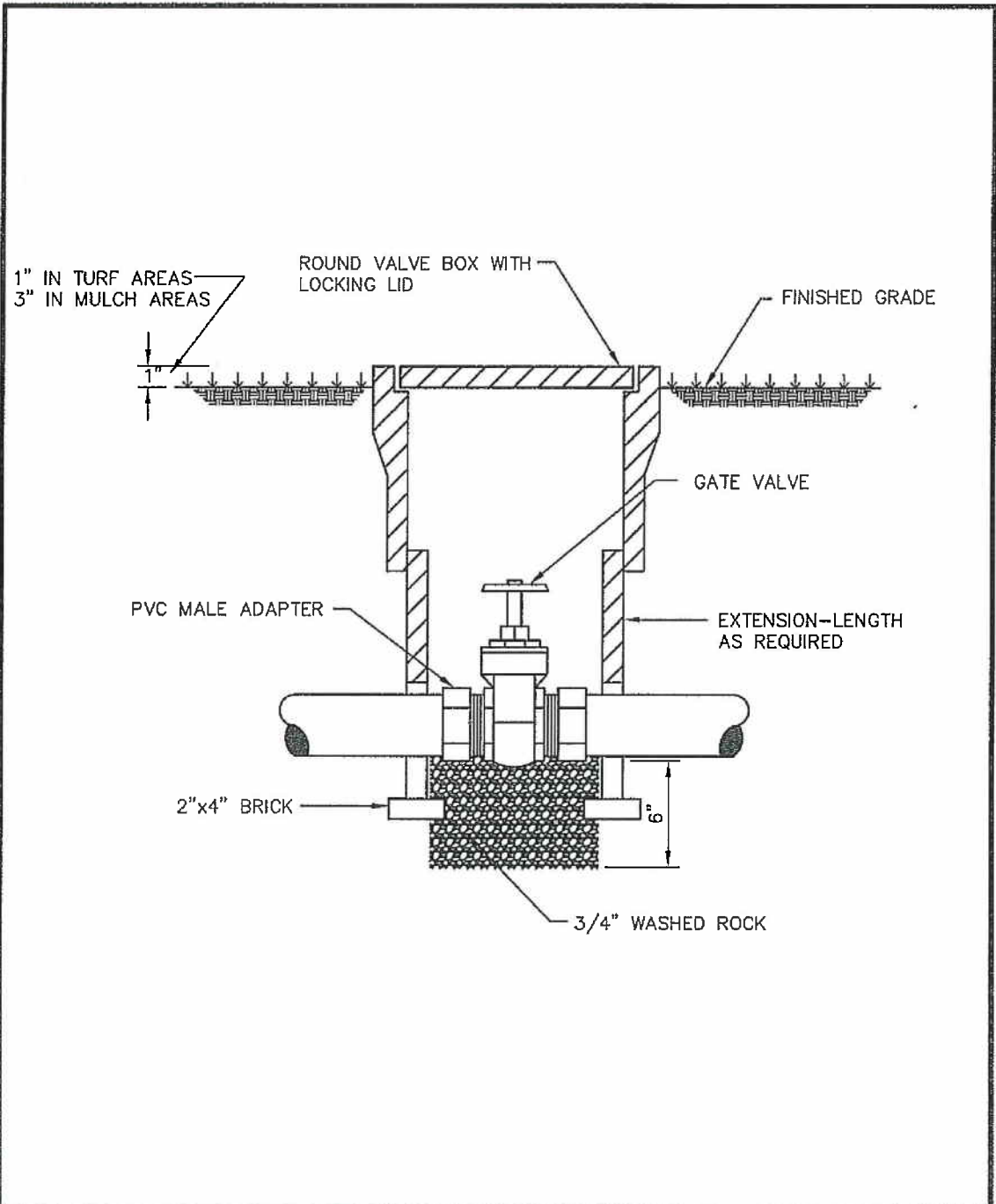
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RECOMMENDED BY:


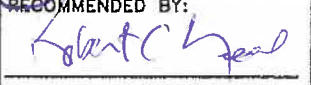
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**BALL VALVE
2" AND SMALLER**

**STANDARD
DETAIL
110A**

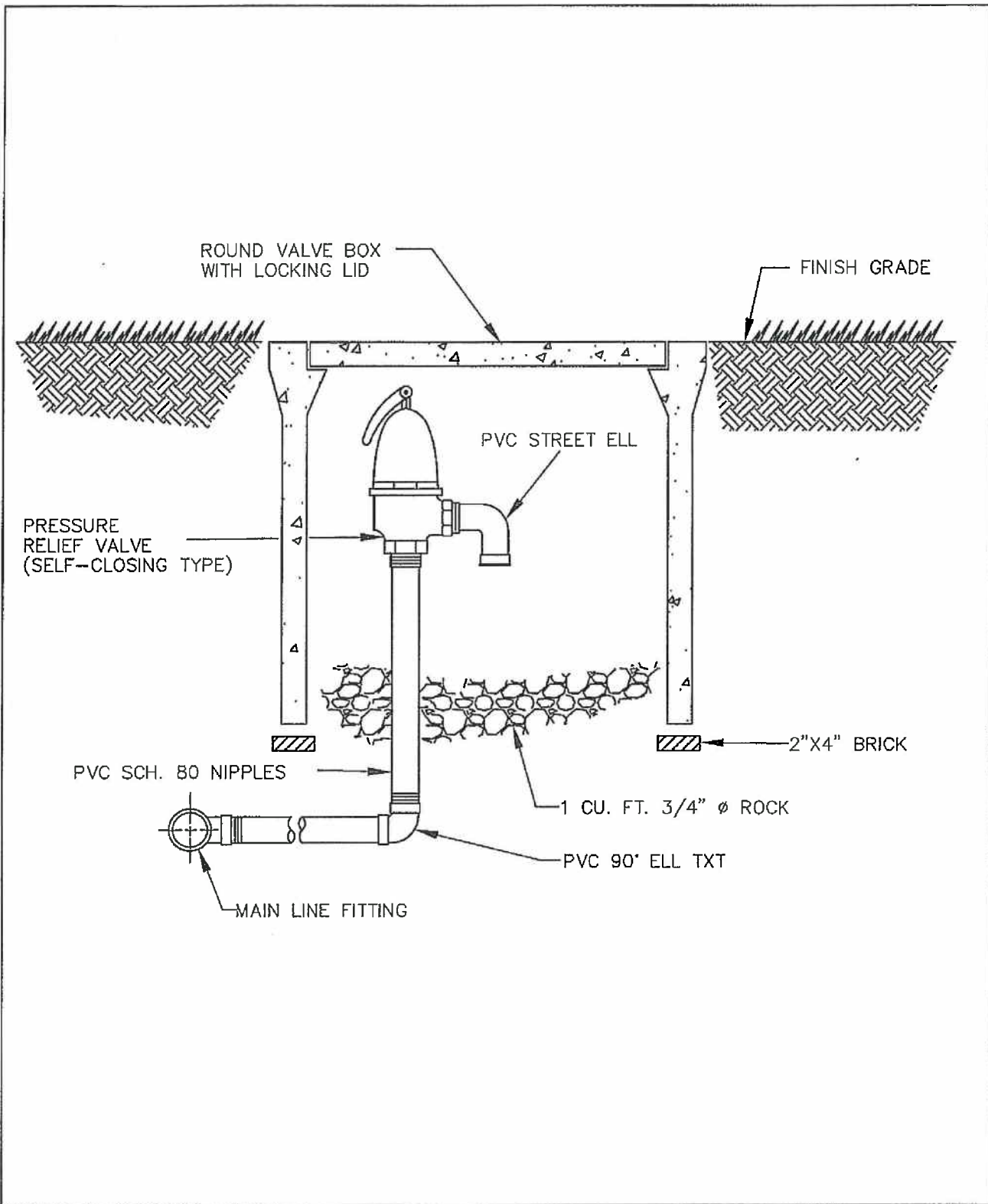


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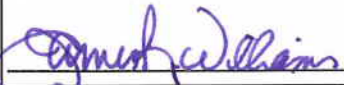
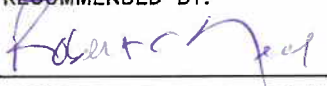
APPROVED BY:

 RECOMMENDED BY:


**GATE VALVE
 2 1/2" AND LARGER**

**STANDARD
 DETAIL
 110B**

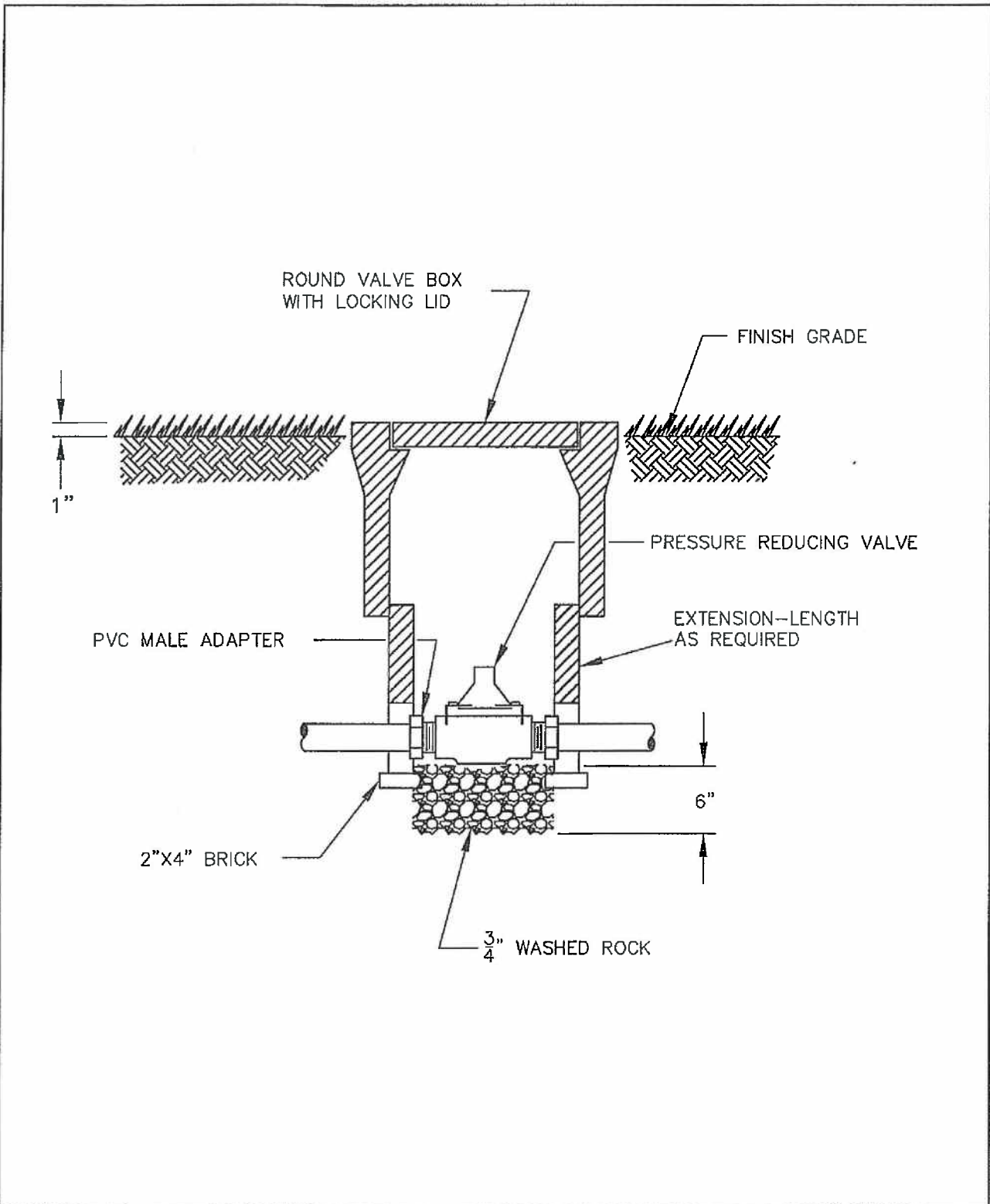


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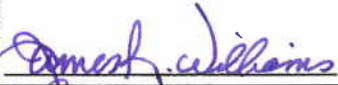
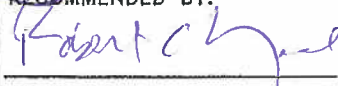
APPROVED BY:

 RECOMMENDED BY:


**PRESSURE RELIEF
 VALVE**

**STANDARD
 DETAIL
 III**

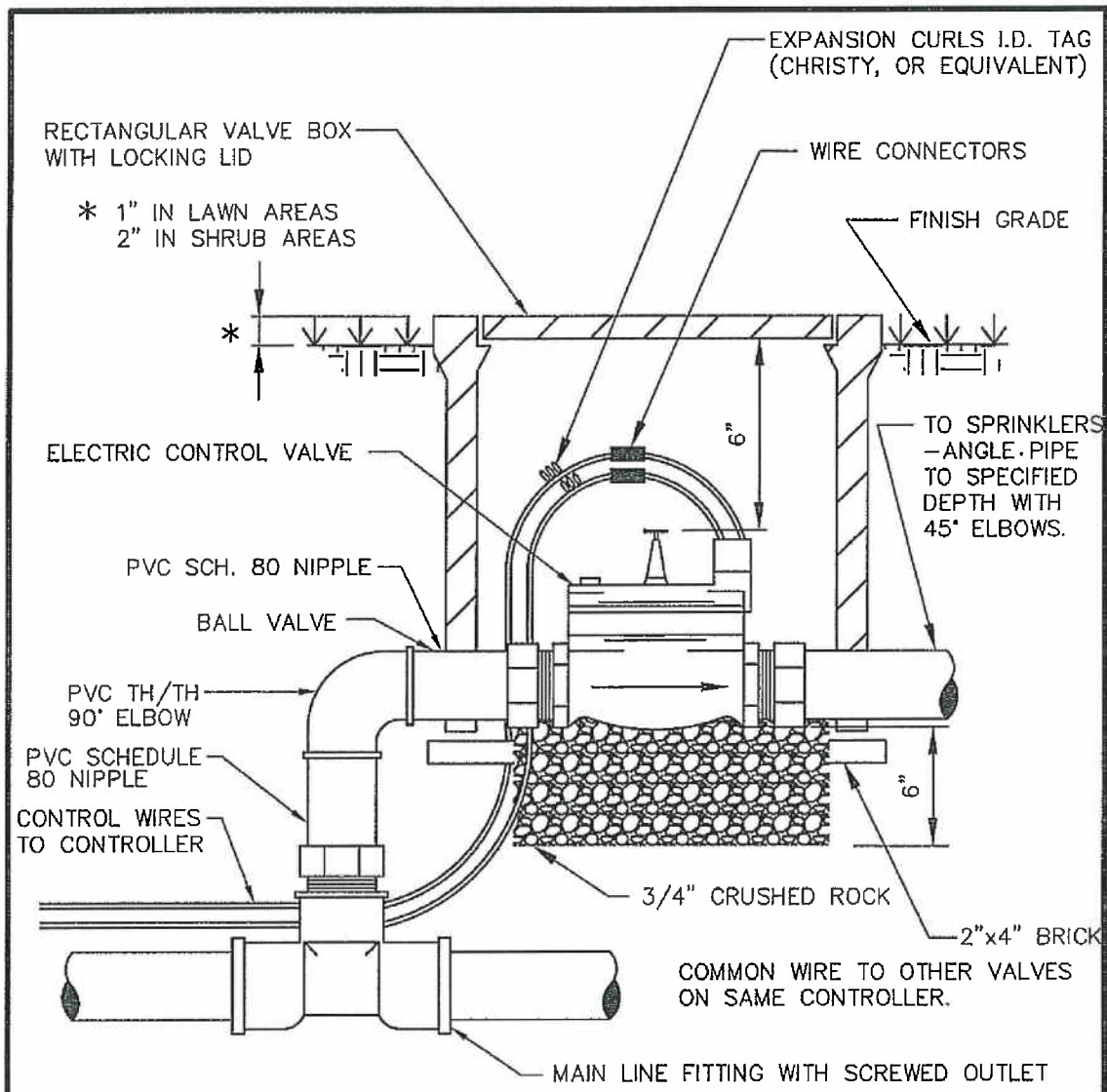


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APPROVED BY:

 RECOMMENDED BY:


**PRESSURE
 REDUCING VALVE**

**STANDARD
 DETAIL
 112**



NOTES:

- ALL SPLICES ABOVE GRADE IN BOX. LOOP COMMON ABOVE VALVE.
- ADD A BALL VALVE SHUT OFF BEFORE EACH VALVE IN VALVE BOX.

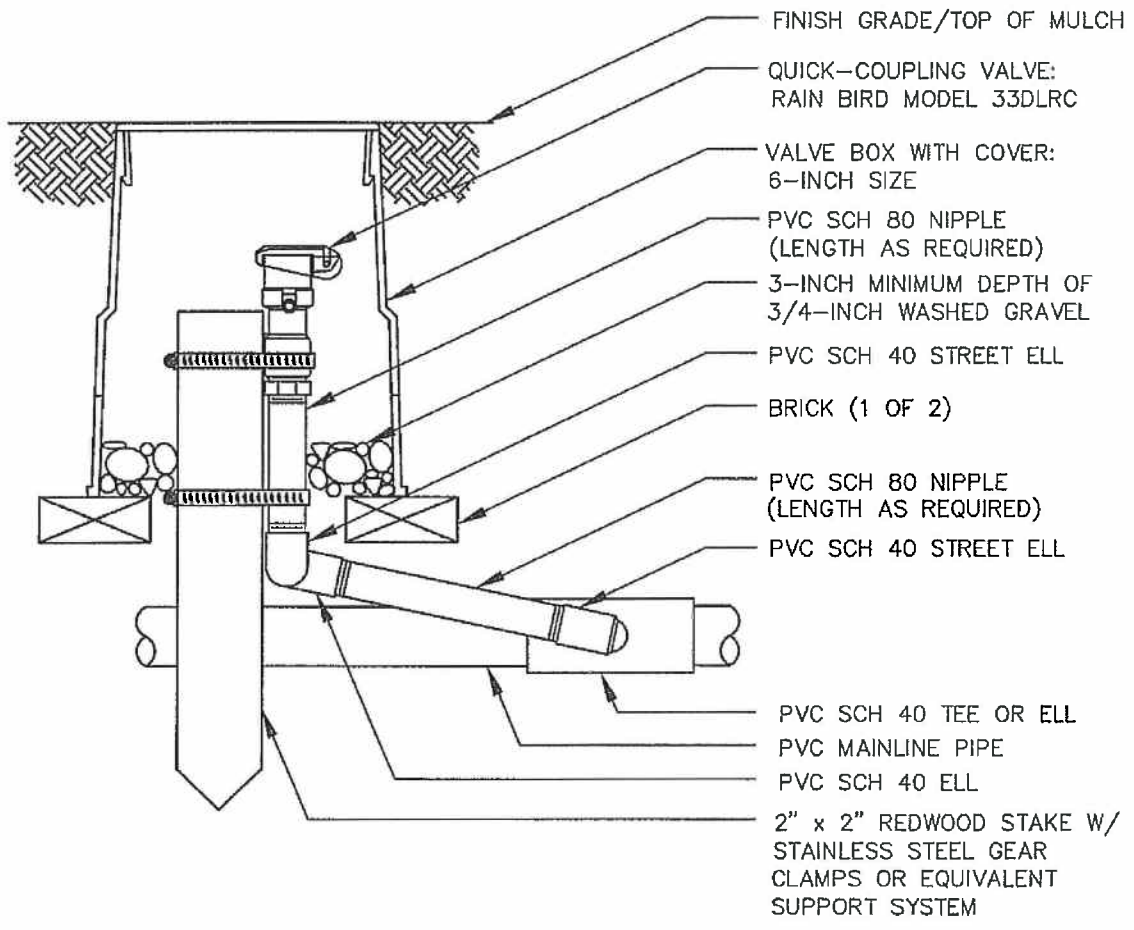
CITY OF LANCASTER

APPROVED BY:
[Signature]

REVISED BY:
[Signature]

ELECTRIC CONTROL VALVE

**STANDARD
DETAIL
113**



NOTE:

- FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

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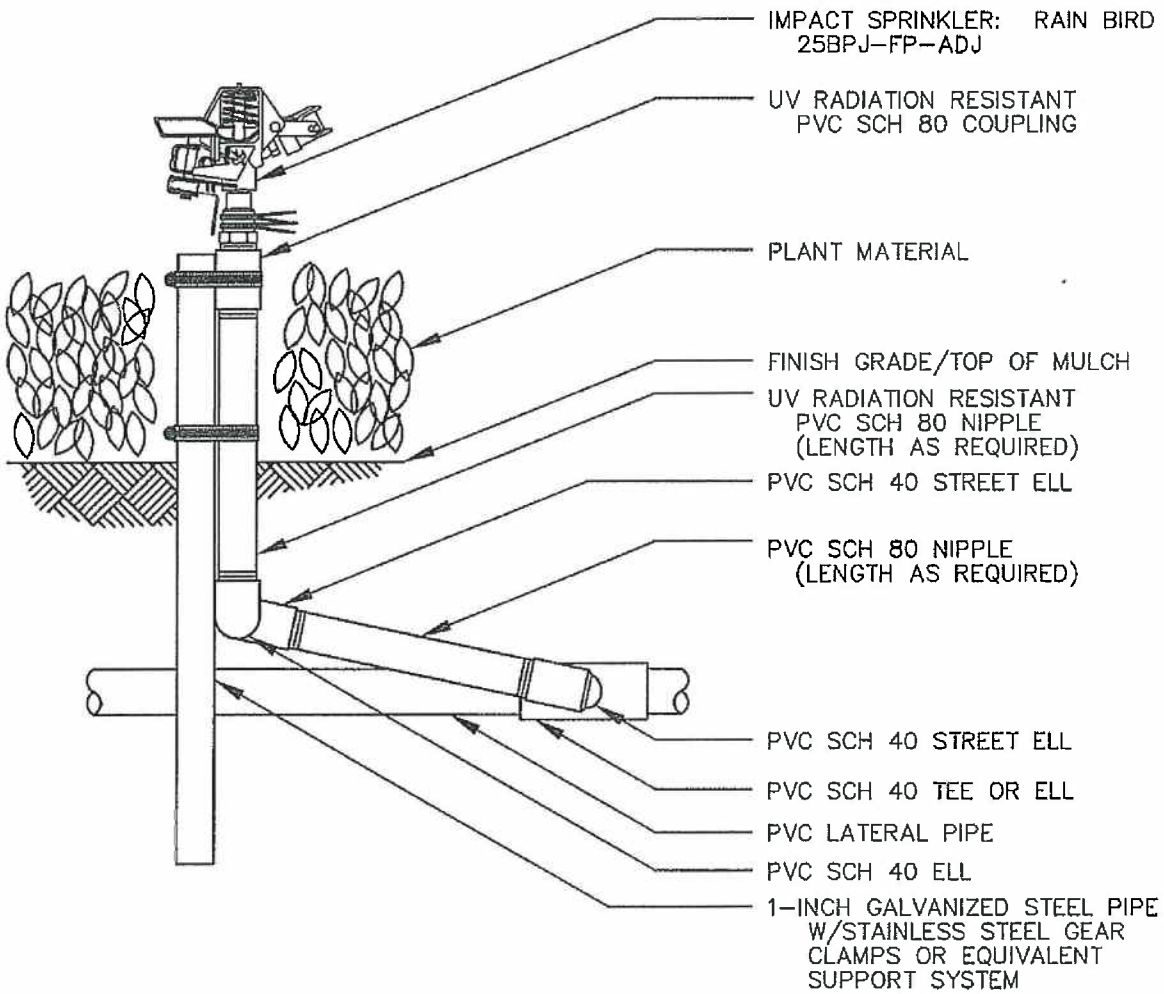
Robert Williams

RECOMMENDED BY:

Robert C. Neal

**QUICK
COUPLING VALVE**

**STANDARD
DETAIL
114**



NOTE:

- A SWING PIPE ASSEMBLY MAY BE USED WITH FLOWS LESS THAN 4 GPM.

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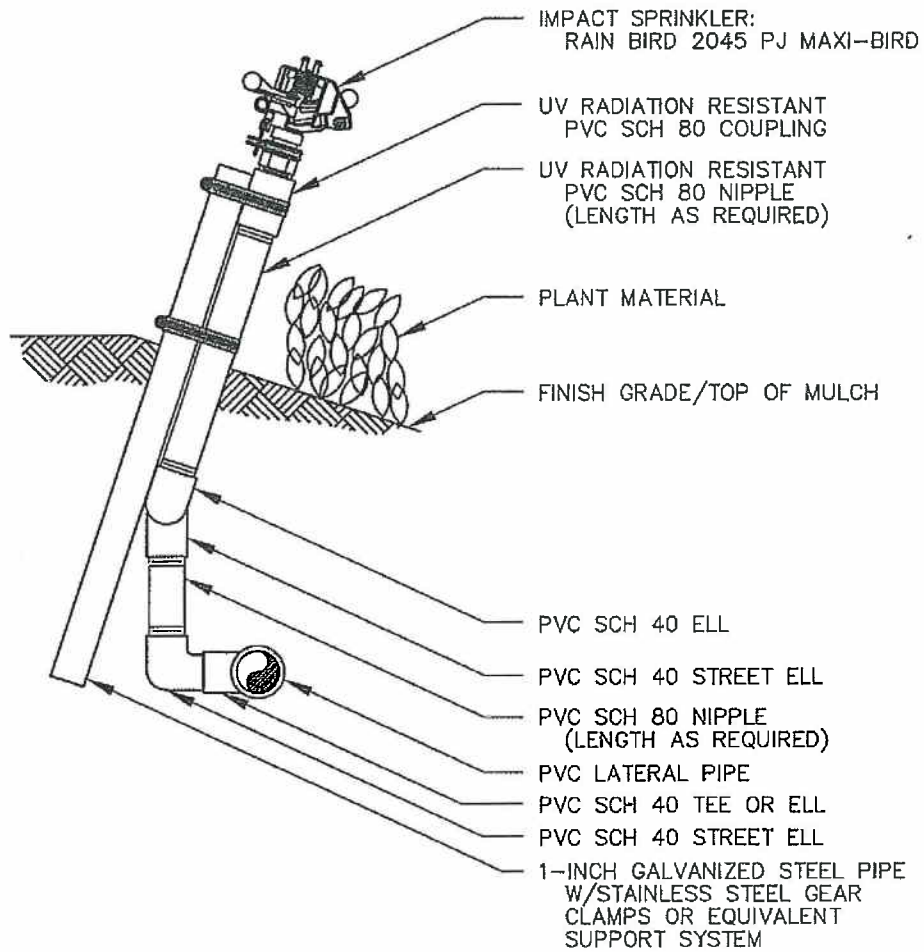
James Williams

RECOMMENDED BY:

Robert [unclear]

**IMPACT
SPRINKLER**

**STANDARD
DETAIL
116A**



CITY OF LANCASTER

APPROVED BY:

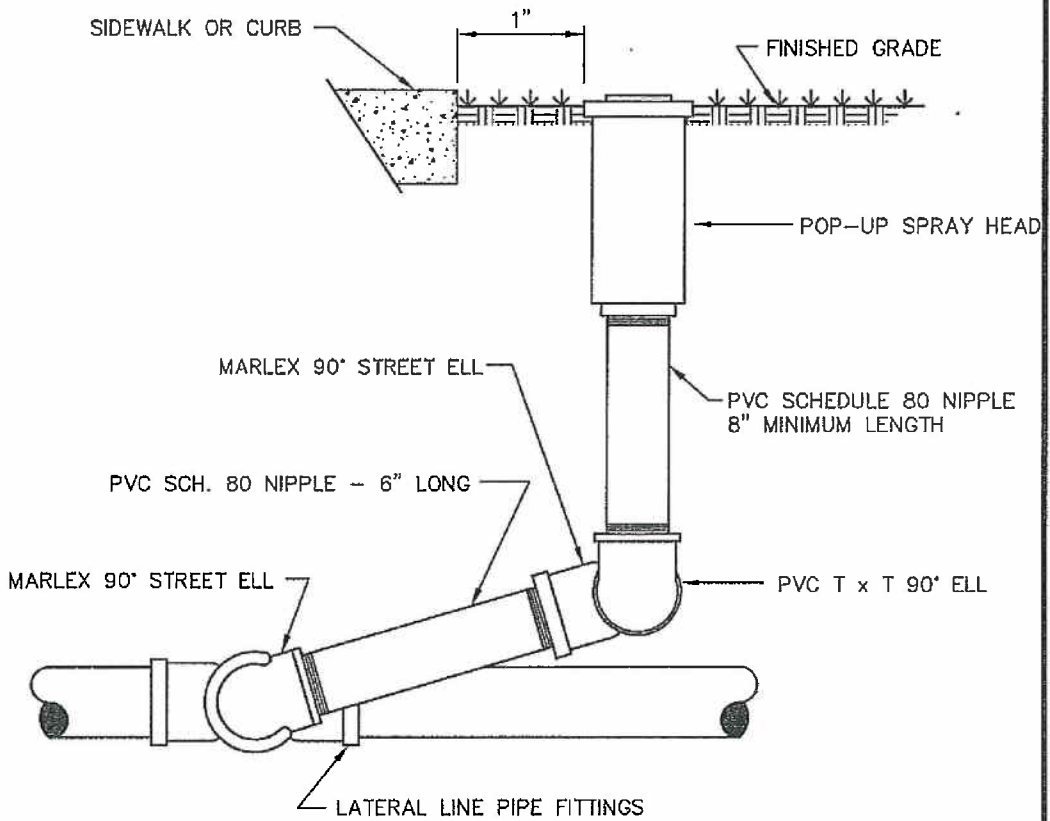
Robert Williams

RECOMMENDED BY:

Robert C. Paul

IMPACT
SPRINKLER

STANDARD
DETAIL
116B



CITY OF LANCASTER

APPROVED BY:

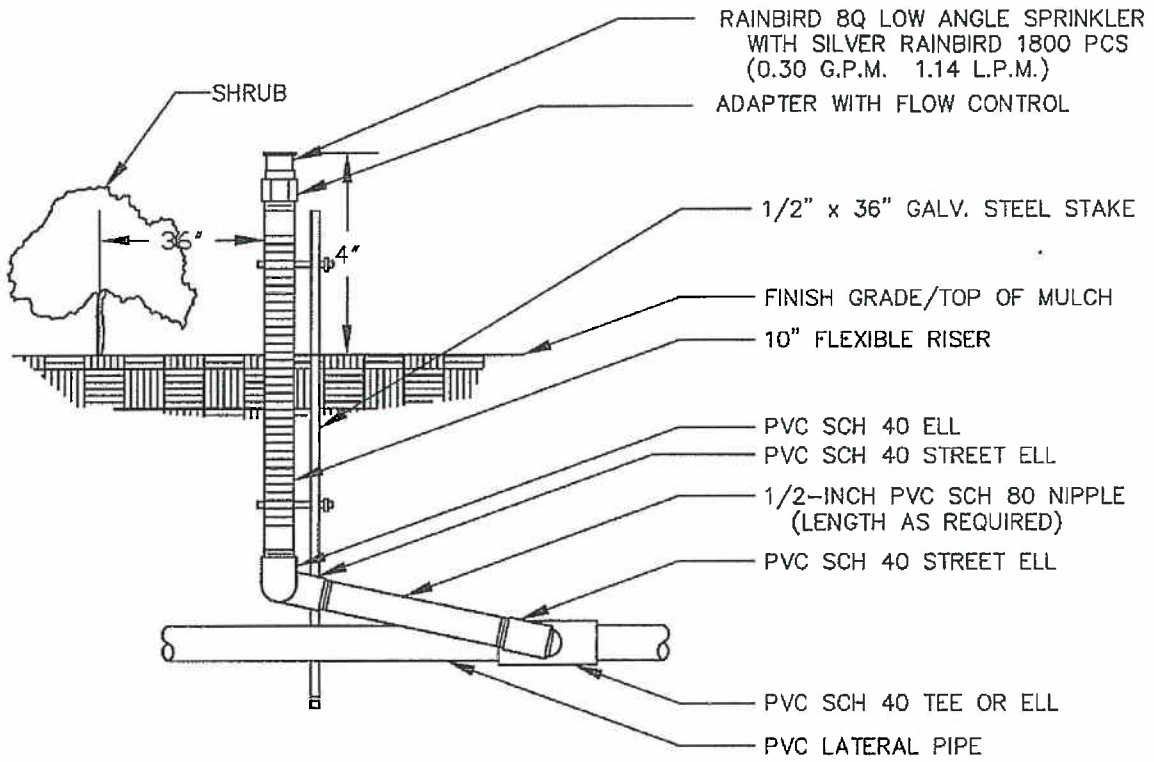
James Williams

RECOMMENDED BY:

Robert Lopez

POP - UP
LAWN HEAD


STANDARD
DETAIL
117




NOTE:

- STANDARD SWING JOINT ASSEMBLY SHOWN, PRE-ASSEMBLED SWING JOINT ASSEMBLY MAY BE SUBSTITUTED. SPIRAL BARB FITTINGS WILL NOT BE ACCEPTED.

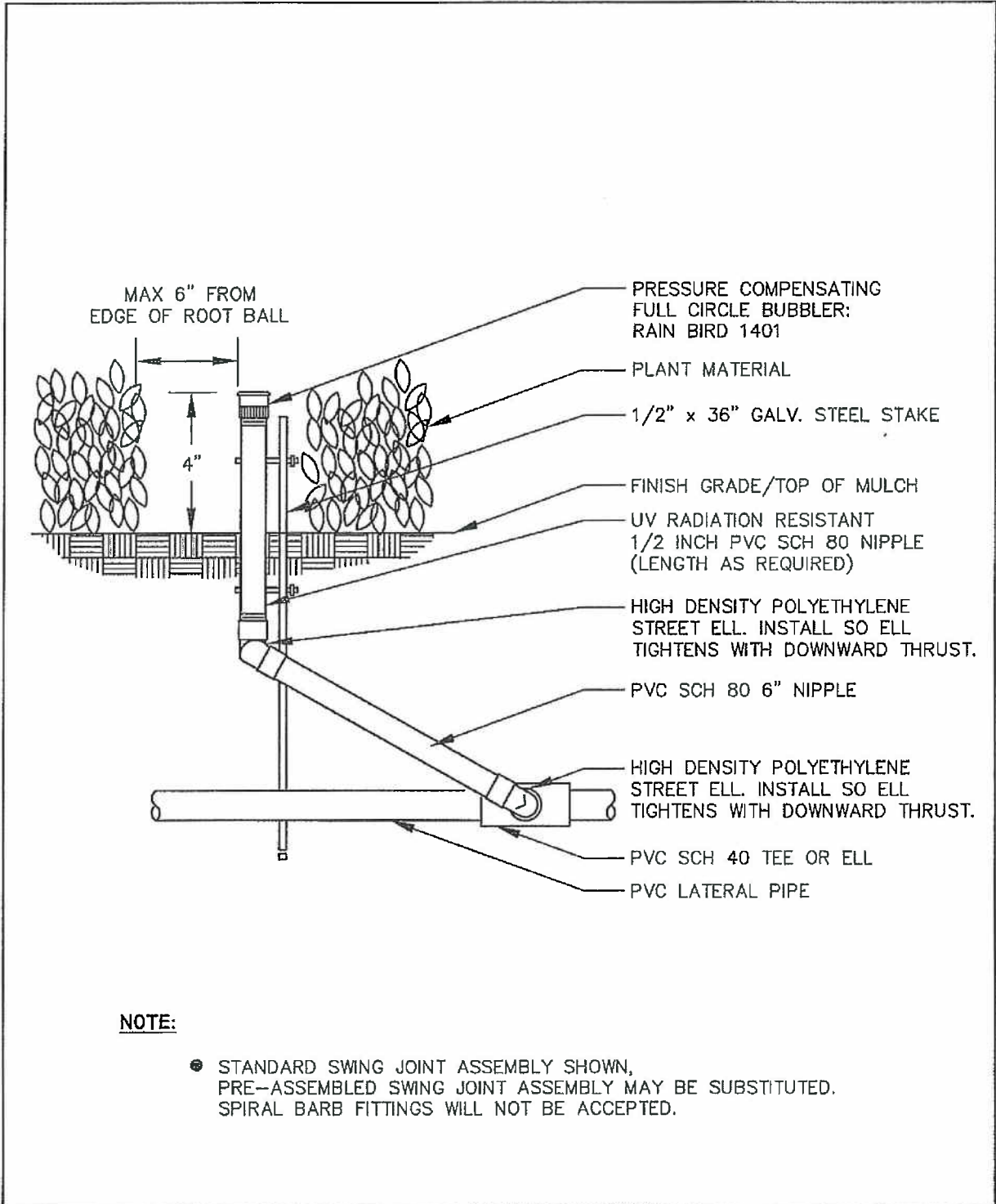
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APPROVED BY:


RECOMMENDED BY:


SHRUB SPRAY ASSEMBLY

STANDARD DETAIL 118A



CITY OF LANCASTER

APPROVED BY:

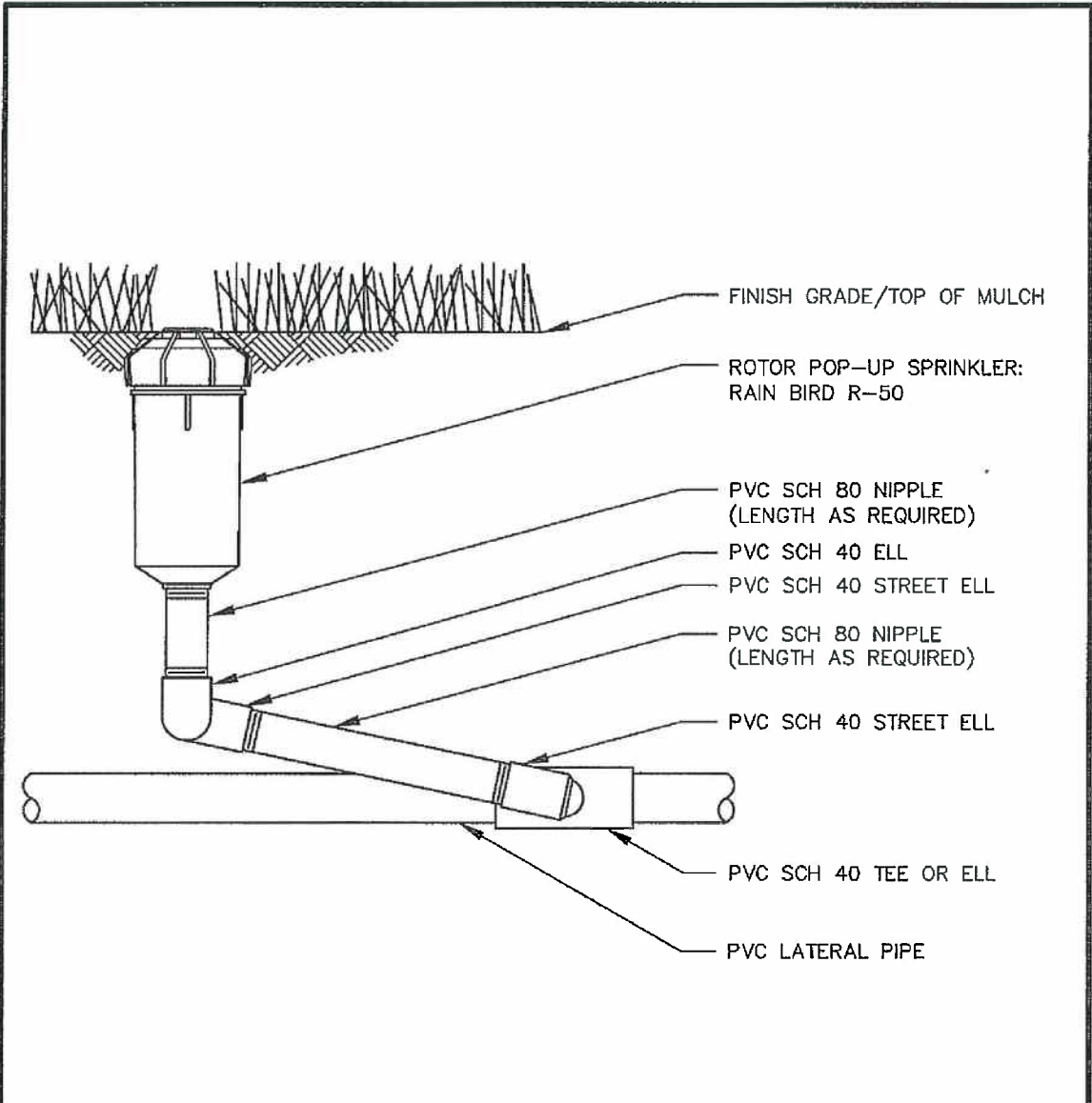
Amah Williams

RECOMMENDED BY:

Kobert Meel

**SHRUB BUBBLER
ASSEMBLY**

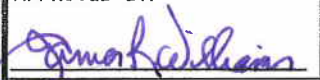
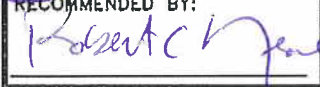
**STANDARD
DETAIL
118B**



NOTE:

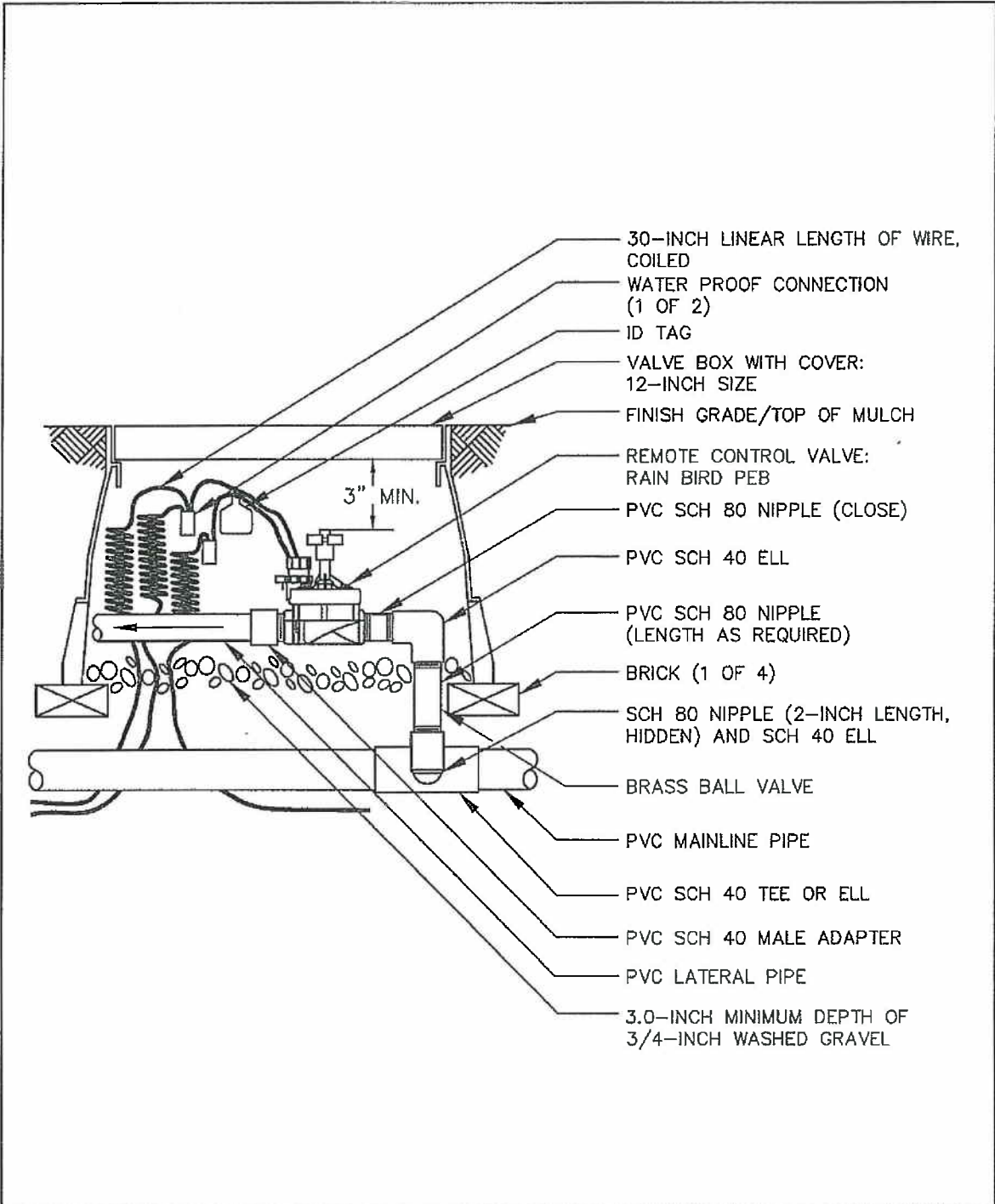
- A SWING PIPE ASSEMBLY MAY BE USED WITH FLOWS LESS THAN 4 GPM.

CITY OF LANCASTER

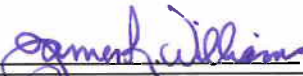
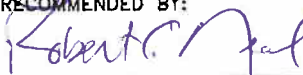
APPROVED BY:

 RECOMMENDED BY:


**ROTOR POP-UP
 SPRINKLER**

**STANDARD
 DETAIL
 120**

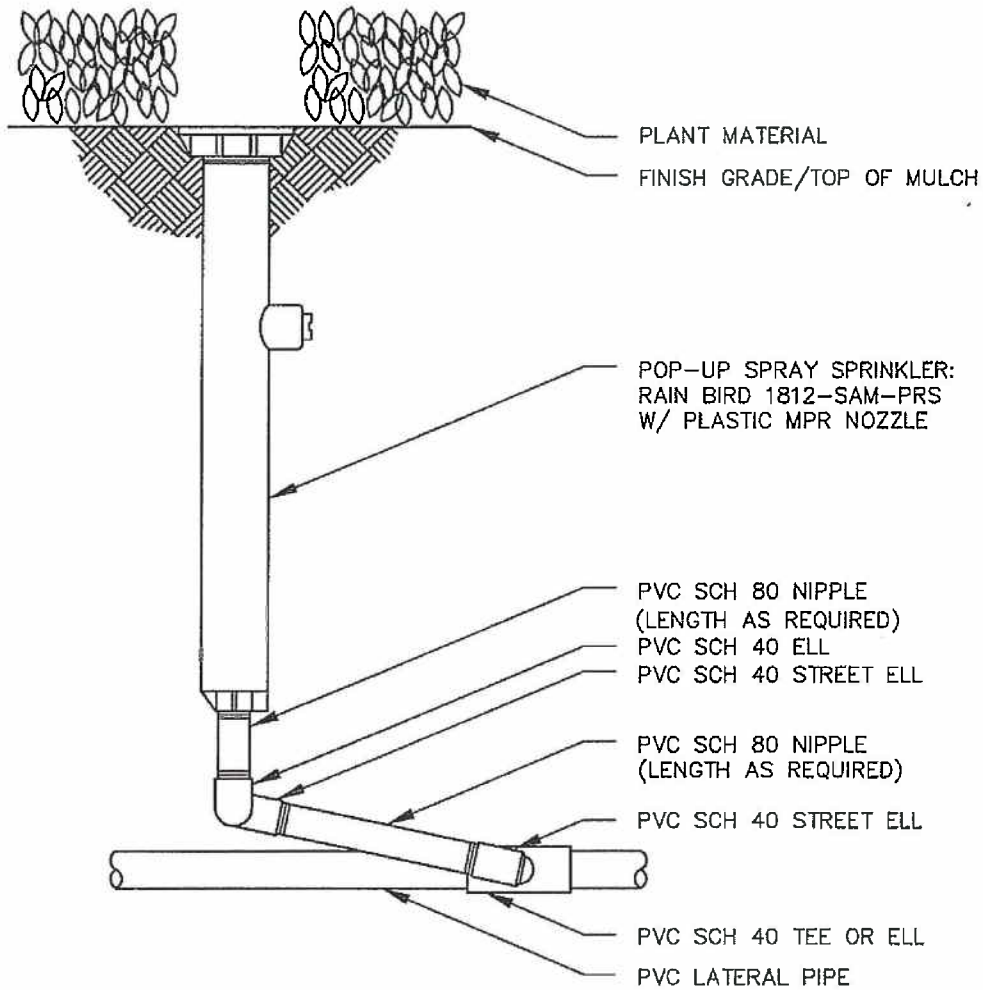


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APPROVED BY:

 RECOMMENDED BY:


REMOTE CONTROL VALVE

STANDARD DETAIL 121B



CITY OF LANCASTER

APPROVED BY:

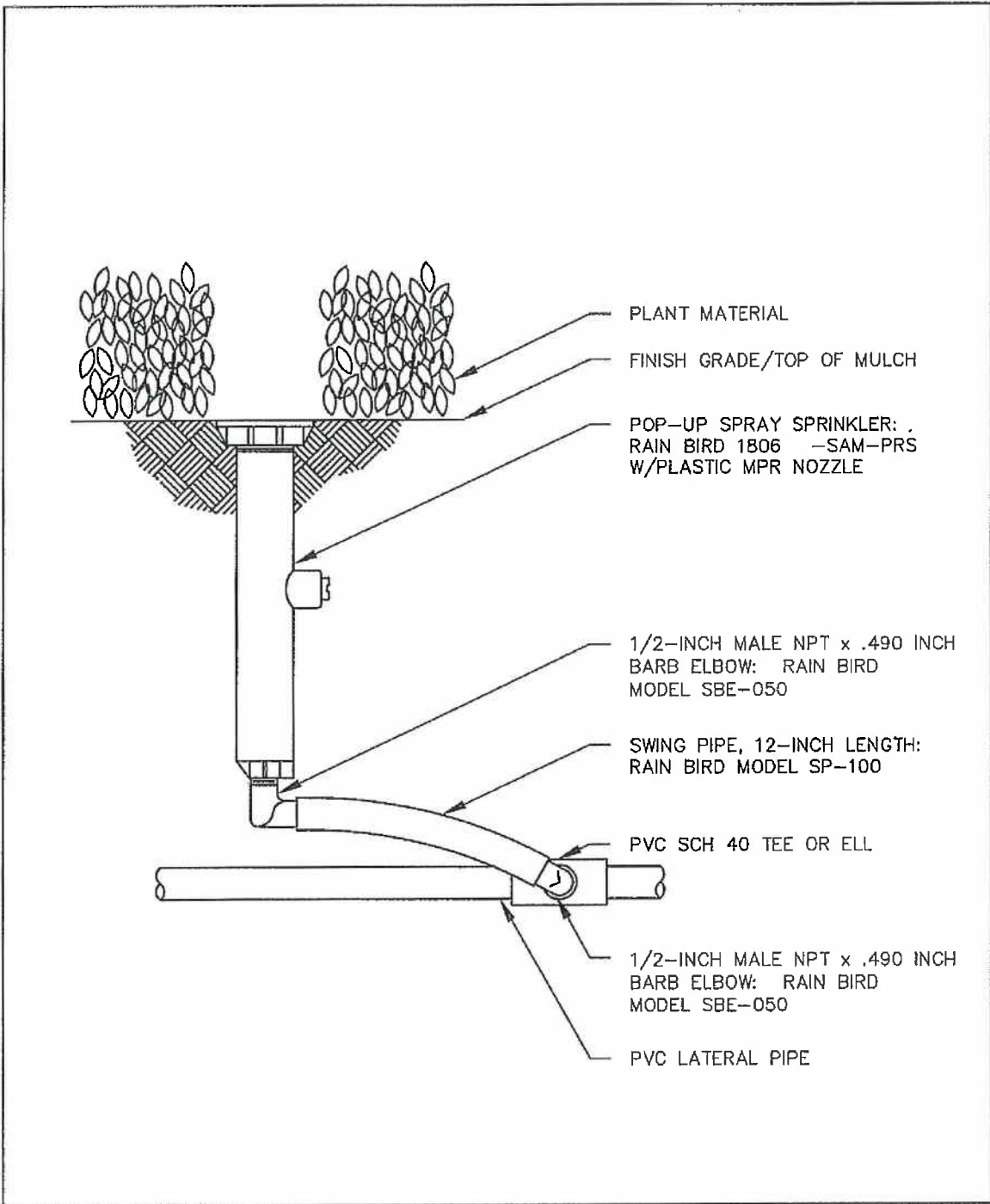
Ernest Williams

RECOMMENDED BY:

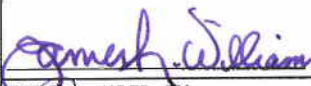
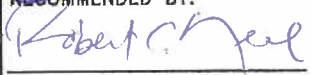
Robert [Signature]

POP-UP
SPRAY SPRINKLER

STANDARD
DETAIL
123A

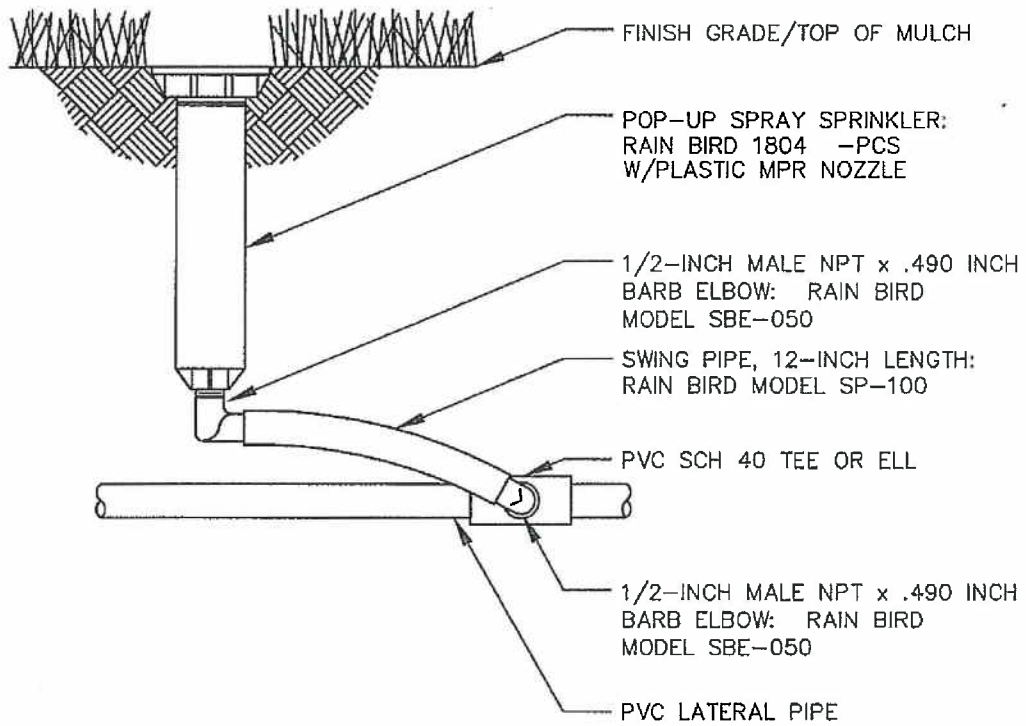


CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


**POP-UP
 SPRAY SPRINKLER**

**STANDARD
 DETAIL
 123B**



CITY OF LANCASTER

APPROVED BY:

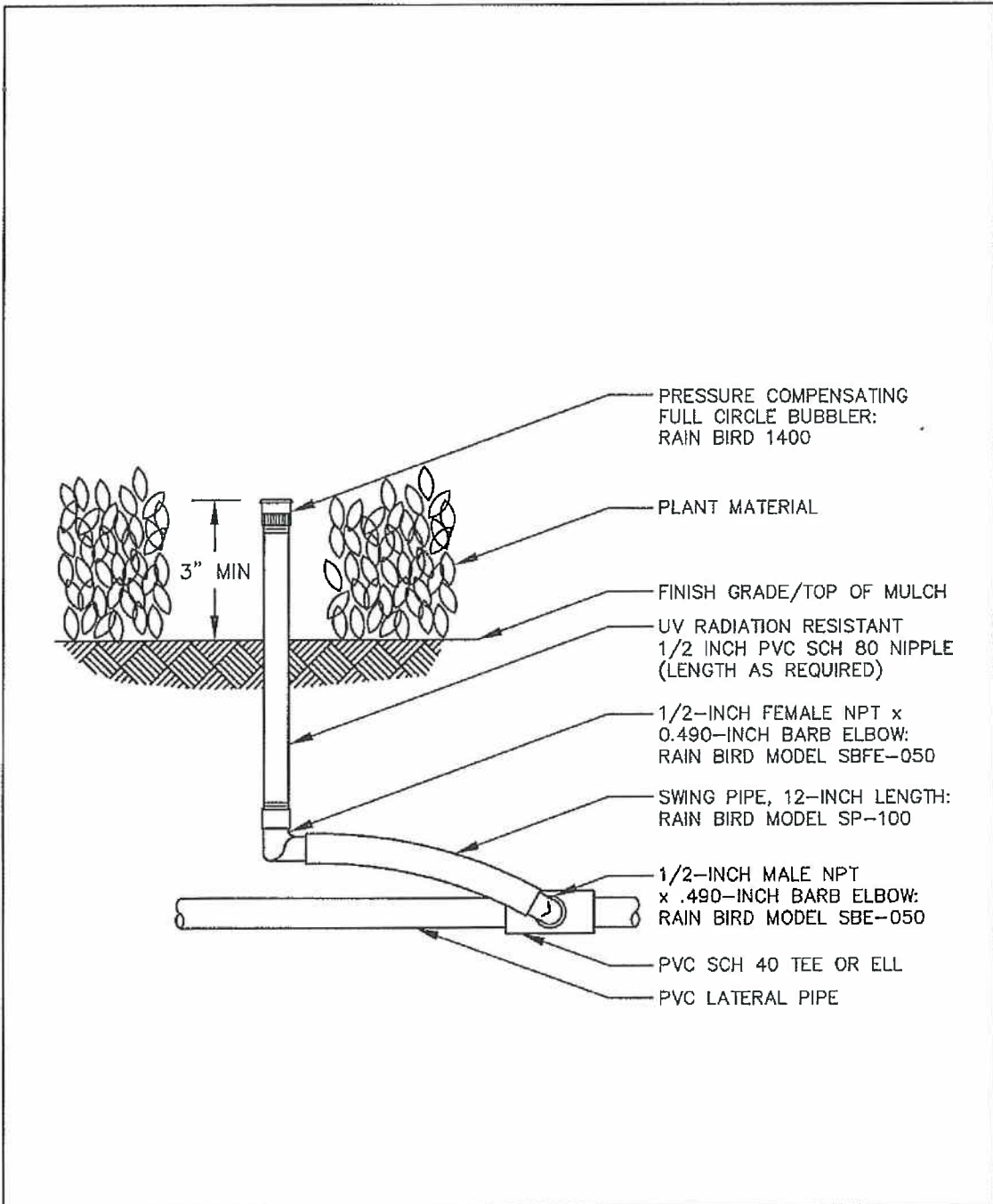
Thomas Williams

RECOMMENDED BY:

Robert Neal

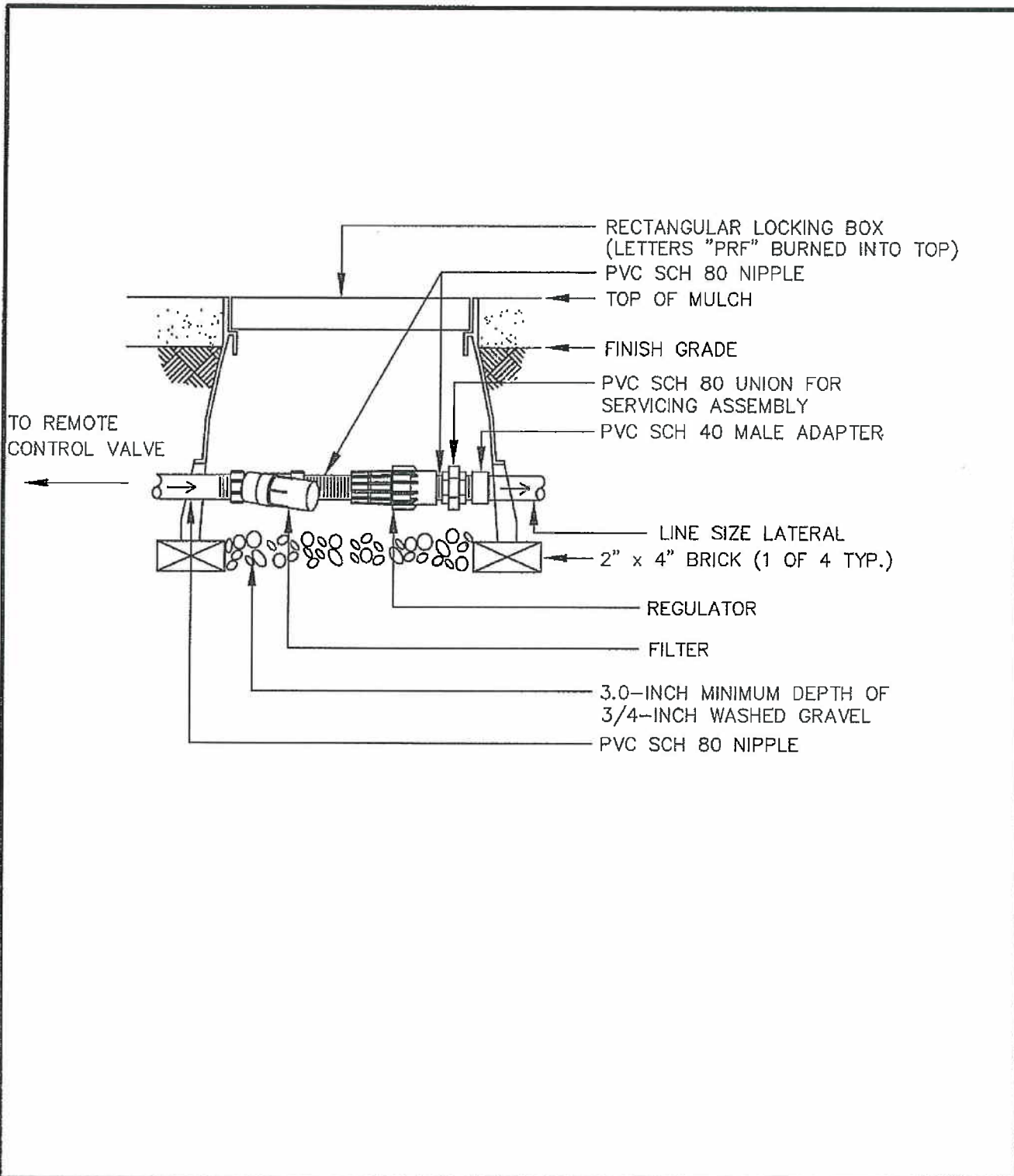
POP-UP
SPRAY SPRINKLER

STANDARD
DETAIL
123C



CITY OF LANCASTER

<p>APPROVED BY:</p> <p><i>Gamer Williams</i></p> <p>RECOMMENDED BY:</p> <p><i>Robert C Neal</i></p>	<h2 style="margin: 0;">BUBBLER</h2>	<h2 style="margin: 0;">STANDARD DETAIL 125</h2>
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CITY OF LANCASTER

APPROVED BY:

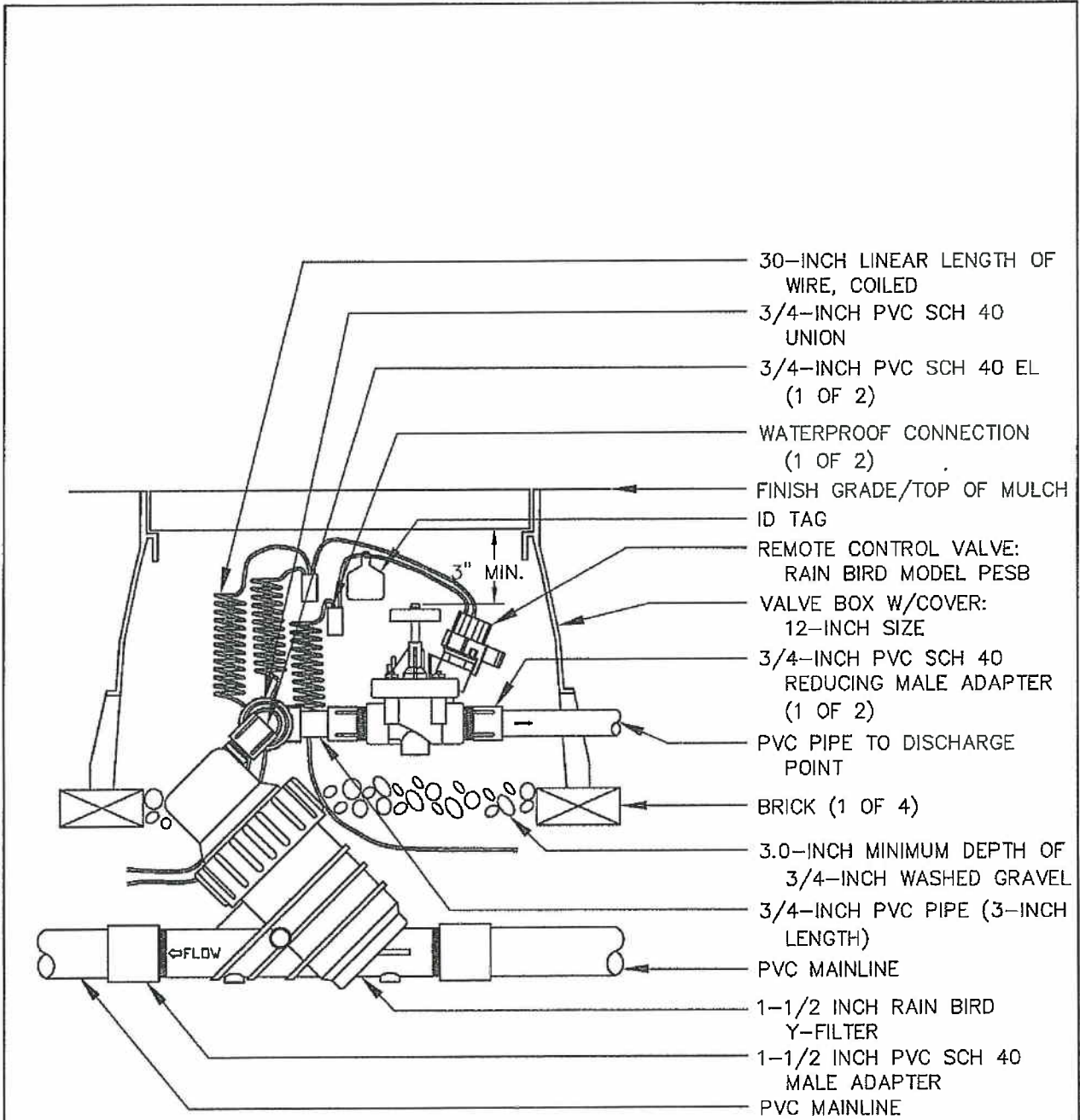
Robert Williams

RECOMMENDED BY:

Robert C. Neal

**DRIP IRRIGATION:
FILTER & PRESSURE
REDUCER ASSEMBLY**

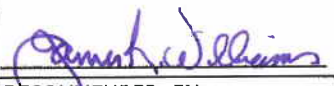
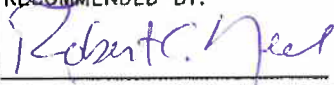
**STANDARD
DETAIL
128-1**



NOTE:

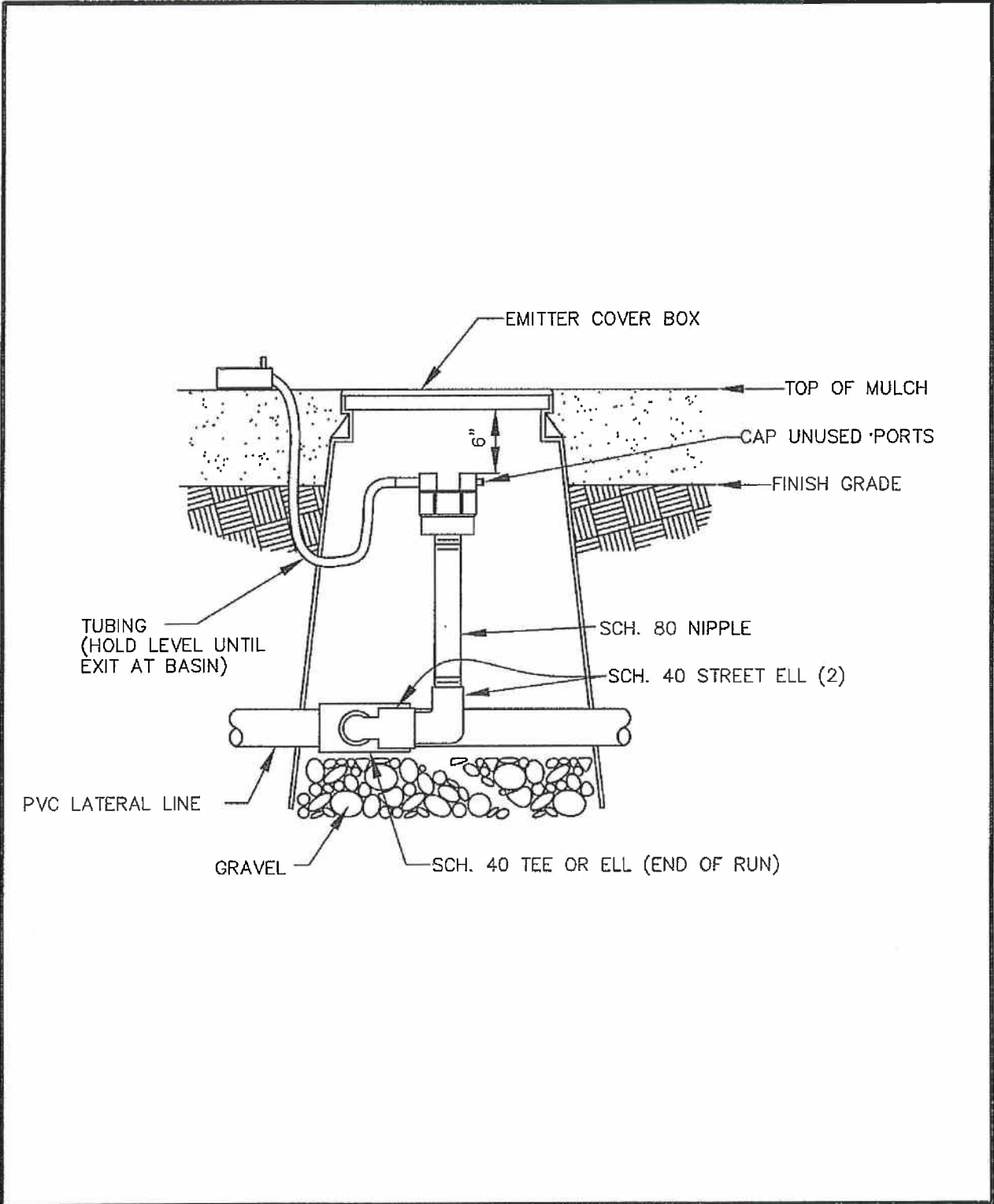
- AUTOMATIC FILTER KIT AF150-200 IS COMPRISED OF Y-FILTER, REMOTE CONTROL VALVE, 3/4-INCH UNION, 2 3/4-INCH ELLS, AND 1" x 3/4" REDUCING MALE ADAPTER.

CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


**AUTOMATIC
 FILTER KIT**

**STANDARD
 DETAIL
 128-2**

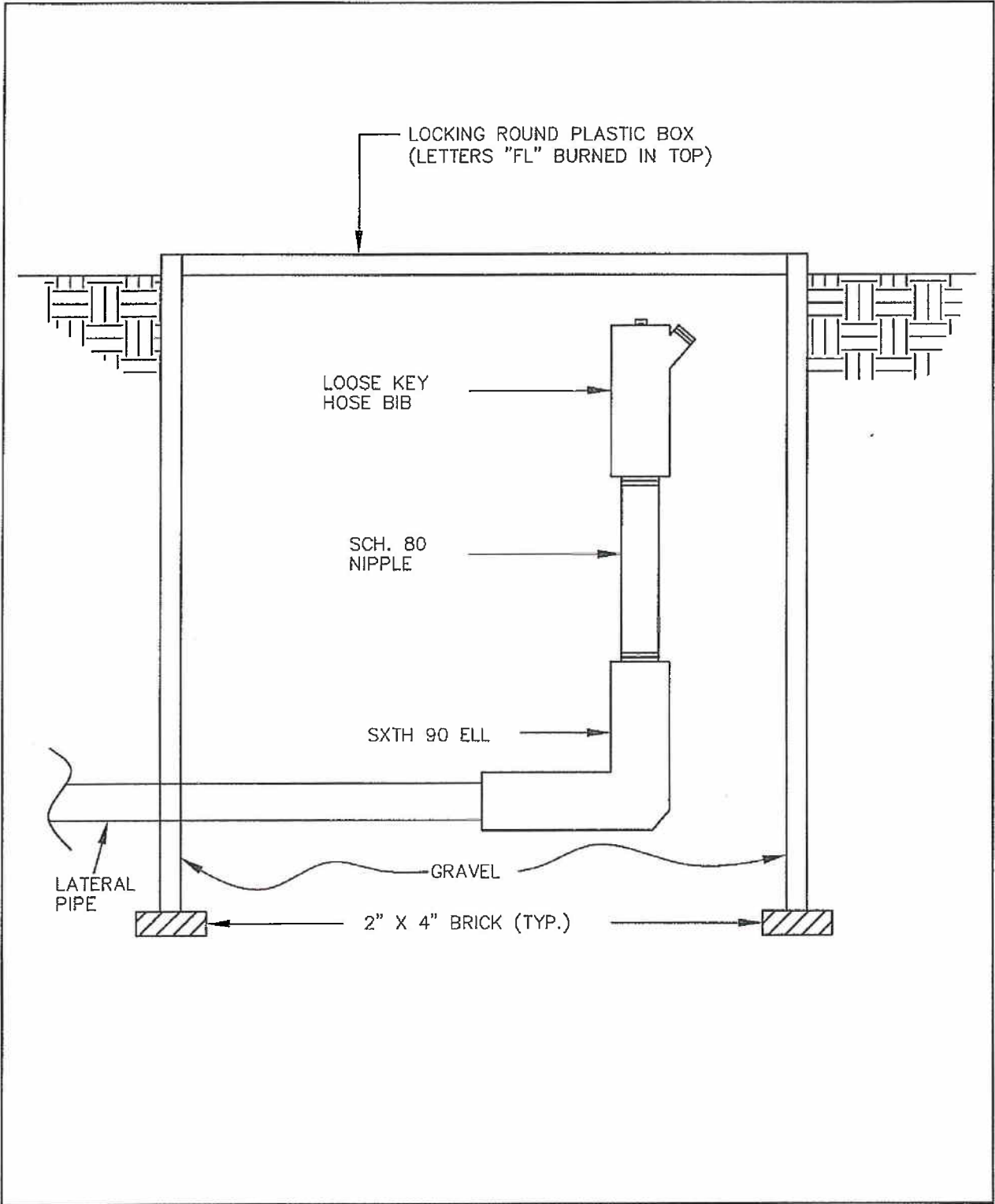


CITY OF LANCASTER

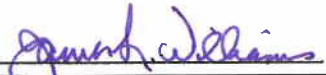
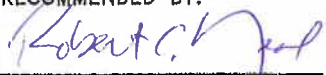
APPROVED BY:
Quinn Williams
 RECOMMENDED BY:
Robert C. Jeff

**DRIP EMITTER
 ASSEMBLY**

**STANDARD
 DETAIL
 129**














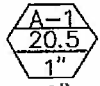











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APPROVED BY:

 RECOMMENDED BY:


DRIP SYSTEM
 FLUSH VALVE

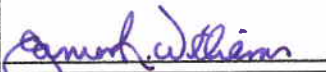
STANDARD
 DETAIL
 130

SAMPLE LEGEND			
SYMBOL	DESCRIPTION	MODEL & SIZE	DETAIL
— W —	DOMESTIC WATER LINE		
— R —	RECLAIMED WATER		
— . —	METER SERVICE		
	WATER METER		
	POINT OF CONNECTION		
	REDUCED PRESSURE BACKFLOW UNIT		
	ATMOSPHERIC VACUUM BREAKER		
	PRESSURE REGULATING VALVE		
	PRESSURE RELIEF VALVE		
	CHECK VALVE		
	QUICK COUPLING VALVE		
	GATE VALVE		
	FLUSH VALVE		
	DRAIN VALVE		
	STRAINER OR SCREEN		
	REMOTE CONTROL VALVE		
	CONTROLLER / VALVE DESIGNATION VALVE FLOW IN GPM VALVE SIZE		
— 2" —	MAINLINE, SIZED		
— 3/4" —	SPRINKLER LINE, SIZED		
— 1/2" —	BUBBLER OR EMITTER LINE, SIZED		
— 4" —	EXISTING SLEEVE, SIZED		
— 4" —	NEW SLEEVE, SIZED		
— E 110 —	110 VOLT WIRE ROUTING		
— E 24 —	24 VOLT WIRE ROUTING		
	AUTOMATIC CONTROLLER		
	DETAIL AND SHEET NUMBER		
	PUMP STATION		

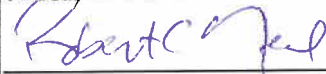
SAMPLE SPRINKLER HEAD LEGEND								
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	GPM	PSI	RAD	P/R	DETAIL
	ABC COMPANY	20-20 x 1/4	POP-UP ROTOR	20.0	60	50'	.5"	#7
	ABC COMPANY	22-22 x 1/2	POP-UP ROTOR	20.0	60	50'	.5"	#7
	MNO COMPANY	4-15-F	POP-UP SPRAY	4.0	30	15'	.9"	#8
	MNO COMPANY	4-15-H	POP-UP SPRAY	2.0	30	15'	.9"	#8
	XYZ COMPANY	5-12-F	SHRUB SPRAY	2.0	25	12"	.7"	#8
	XYX COMPANY	5-12-H	SHRUB SPRAY	1.0	25	12"	.7"	#8

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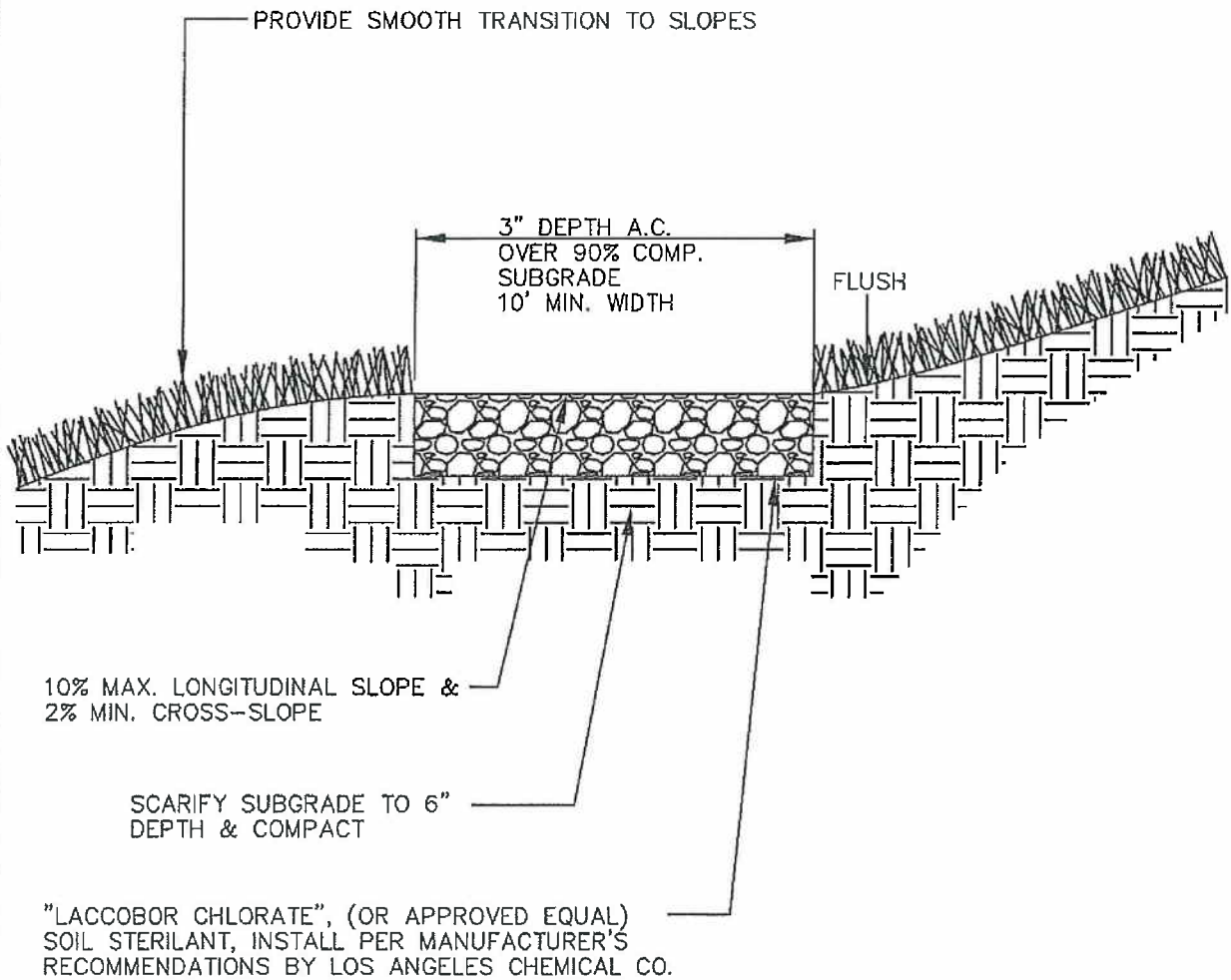
RECOMMENDED BY:



IRRIGATION

TYPICAL SYMBOLS

STANDARD DETAIL 131



NOTES:

- ASPHALT CONCRETE PER CALTRANS PLANNING & DESIGN CRITERIA FOR BIKEWAYS IN CALIFORNIA" 16-30-78, PAGE 18

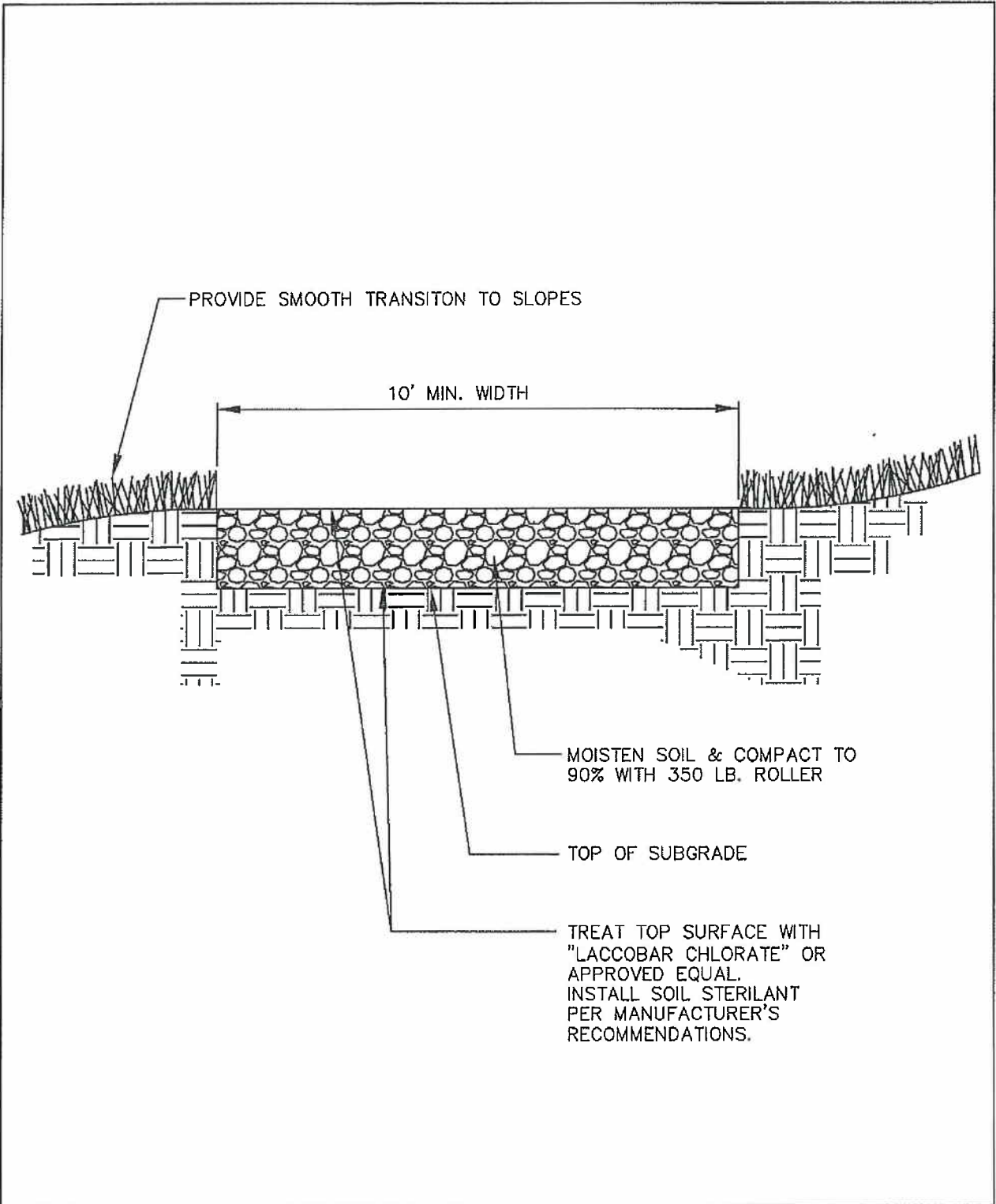
CITY OF LANCASTER

APPROVED BY:
[Signature]

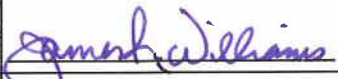
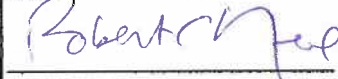
RECOMMENDED BY:
[Signature]

A.C. PATH

**STANDARD
DETAIL
201**

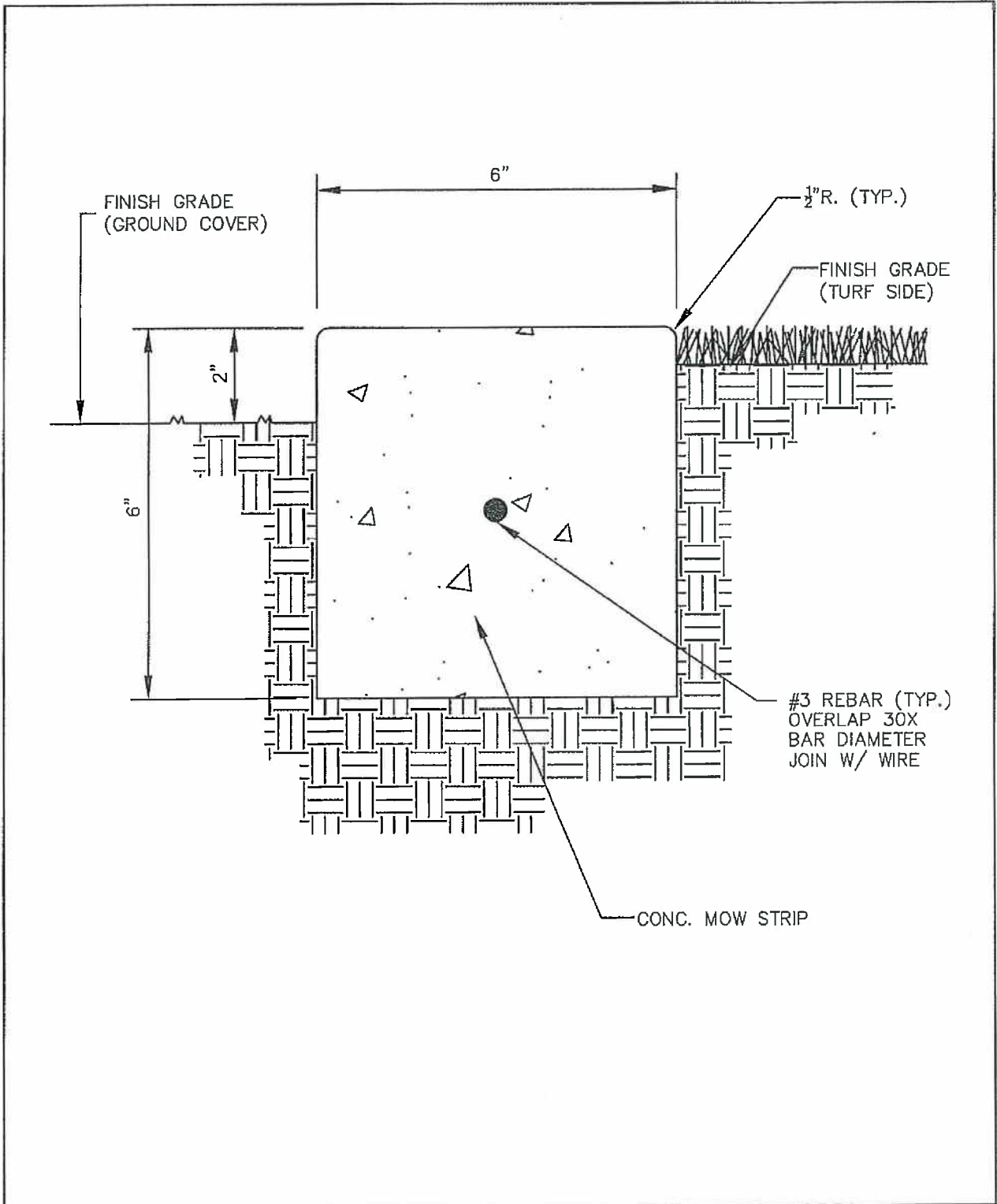


CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


EQUESTRIAN TRAIL

STANDARD
 DETAIL
 202



CITY OF LANCASTER

APPROVED BY:

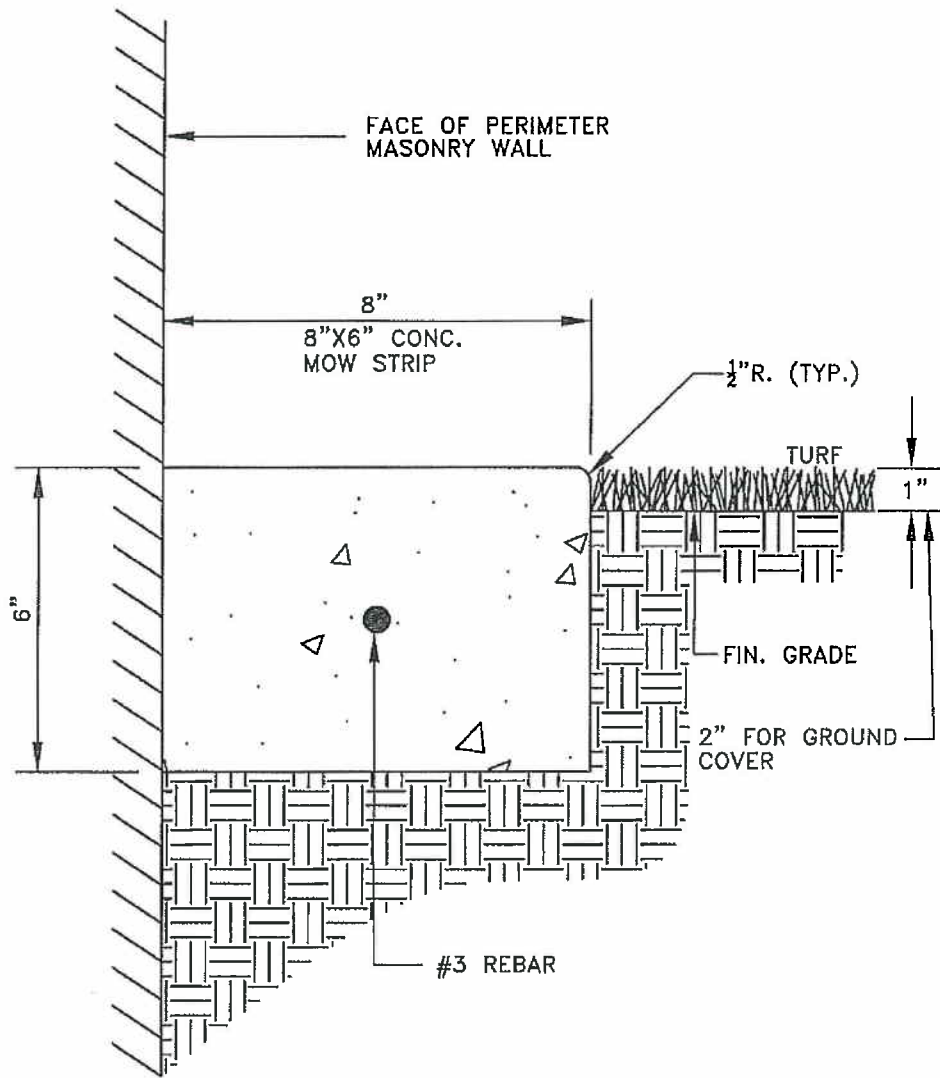
Amish Williams

RECOMMENDED BY:

Robert Neal

CONCRETE MOW STRIP

**STANDARD
DETAIL
203A-1**



CITY OF LANCASTER

APPROVED BY:

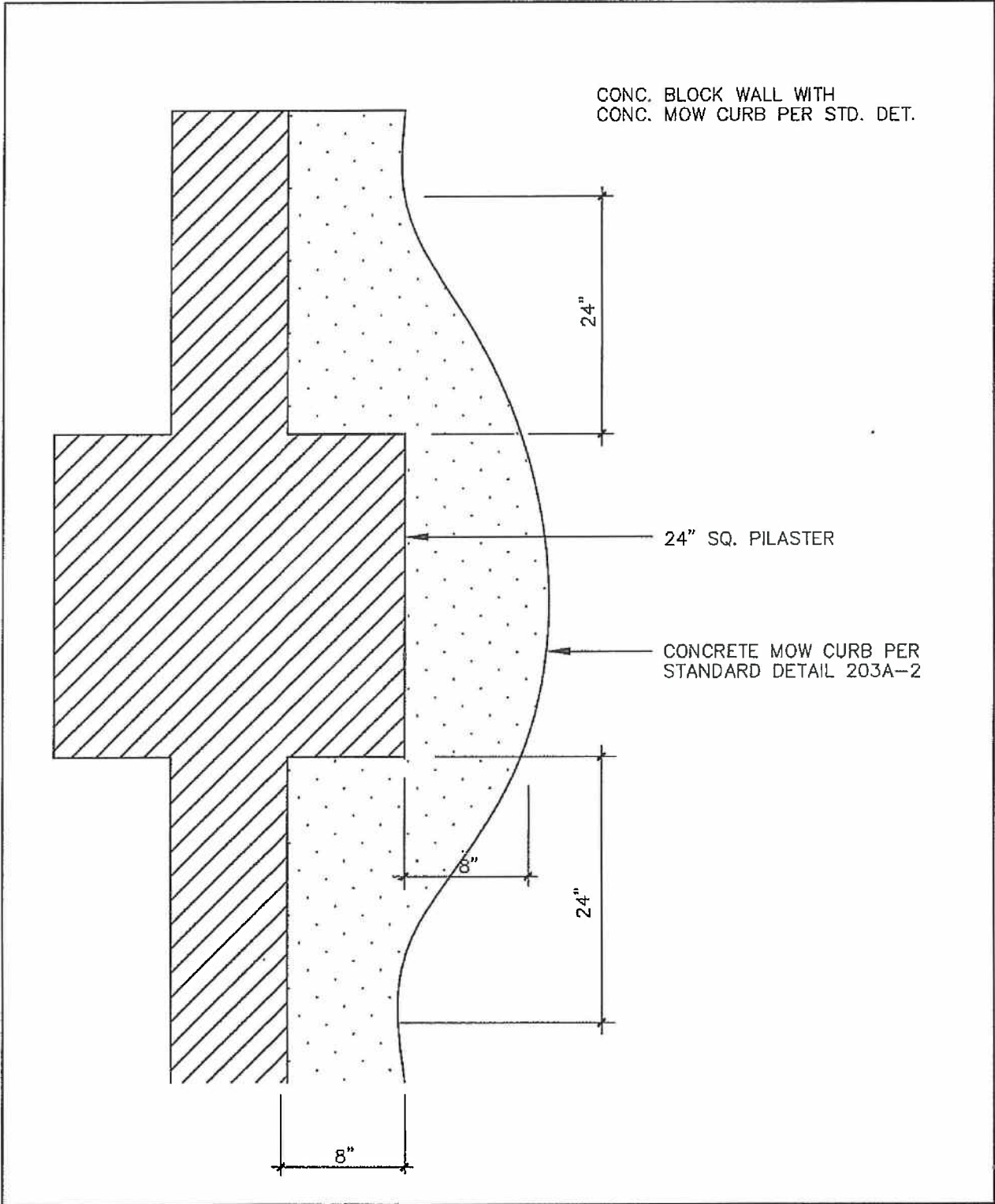
James Williams

RECOMMENDED BY:

Robert C. [unclear]

CONCRETE MOW STRIP
(ALONG MASONRY
WALL)

STANDARD
DETAIL
203A-2



CONC. BLOCK WALL WITH
CONC. MOW CURB PER STD. DET.

24"

24" SQ. PILASTER

CONCRETE MOW CURB PER
STANDARD DETAIL 203A-2

24"

8"

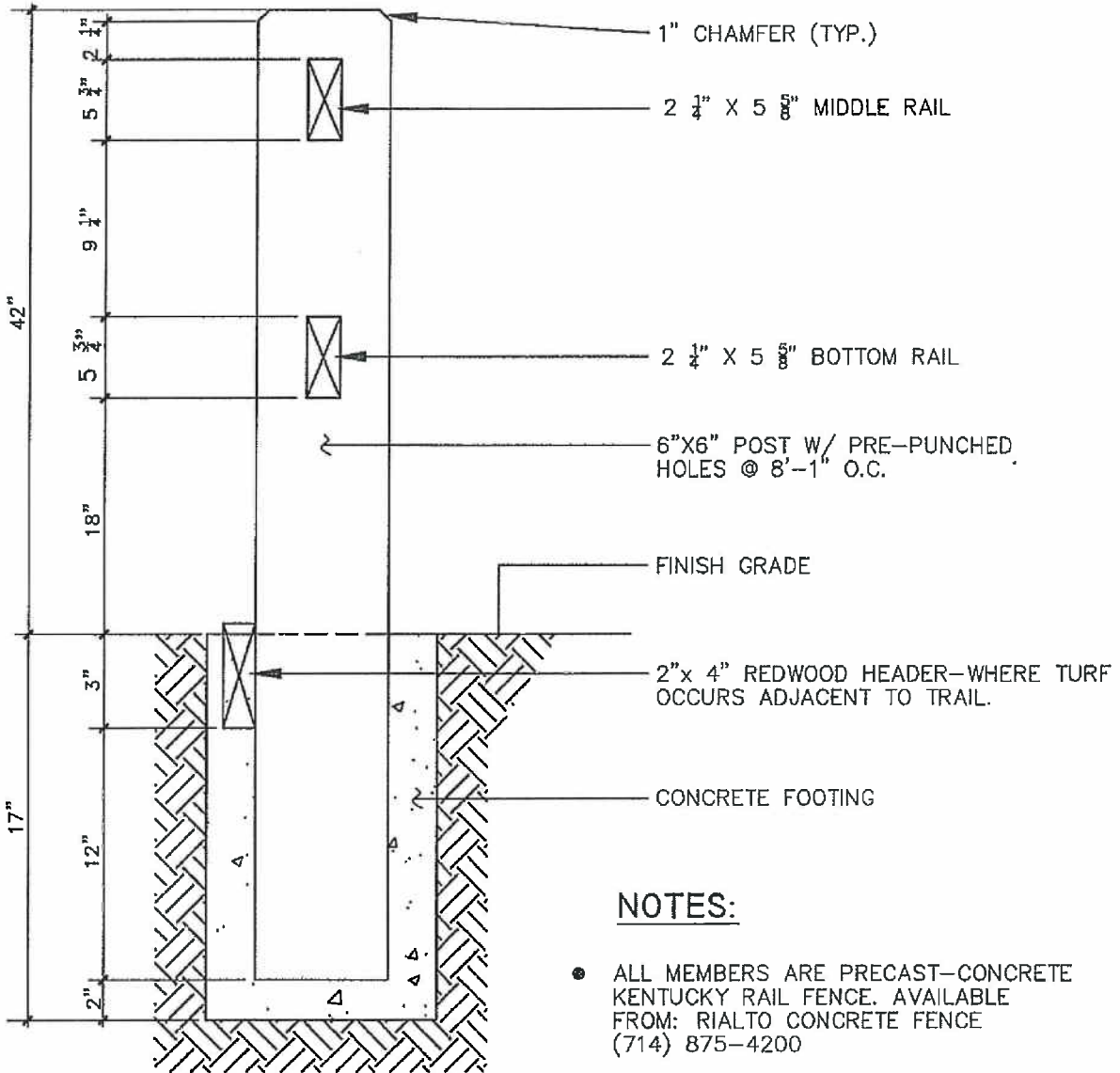
8"

CITY OF LANCASTER

APPROVED BY:
Robert Williams
RECOMMENDED BY:
Robert Hayes

**CONCRETE CURB
(AT PILASTER)**

**STANDARD
DETAIL
203B**



NOTES:

- ALL MEMBERS ARE PRECAST-CONCRETE KENTUCKY RAIL FENCE. AVAILABLE FROM: RIALTO CONCRETE FENCE (714) 875-4200
- MEMBERS TO BE PAINTED W/ MASONRY OR CONCRETE PAINT, (COLOR TO BE SELECTED BY CITY)
- CHANGE IN LINEAL DIRECTION REQUIRES 2 POSTS--SIDE BY SIDE.
- END POSTS SHALL HAVE OPEN SLOTS-- FILLED WITH MORTAR & TEXTURE FINISHED PRIOR TO PAINTING.

CITY OF LANCASTER

APPROVED BY:

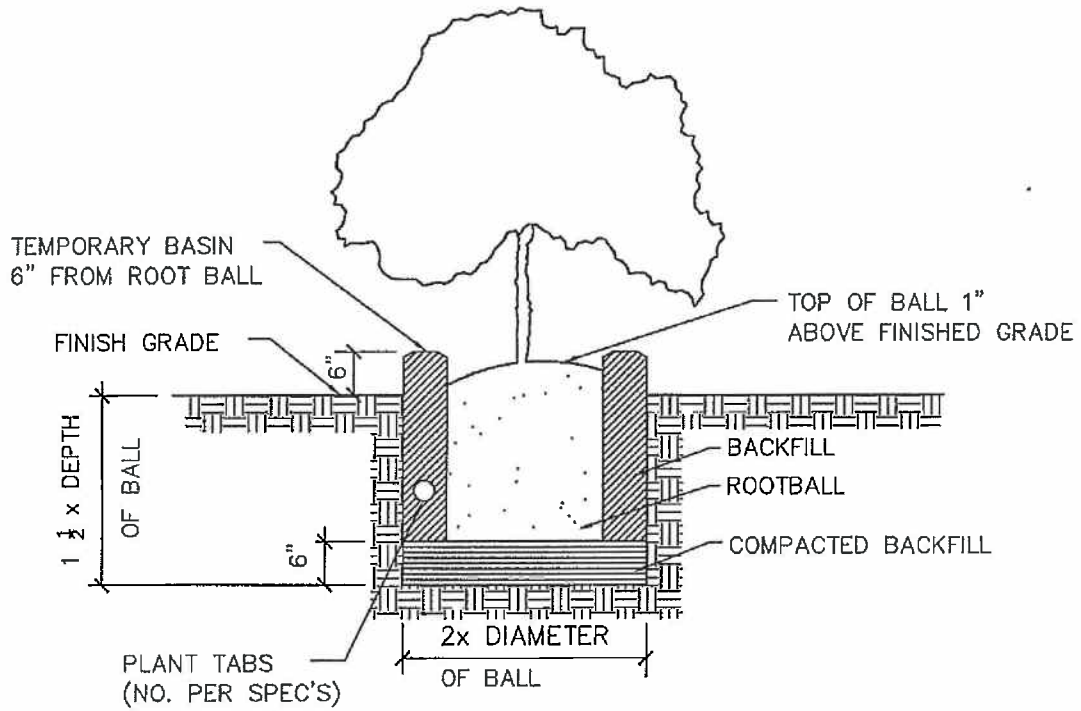
James Williams

RECOMMENDED BY:

Robert C. Ford

**CONCRETE
EQUESTRIAN
FENCE**

**STANDARD
DETAIL
204**



NOTE:

- REMOVE BASIN PRIOR TO END OF MAINTANCE

CITY OF LANCASTER

APPROVED BY:

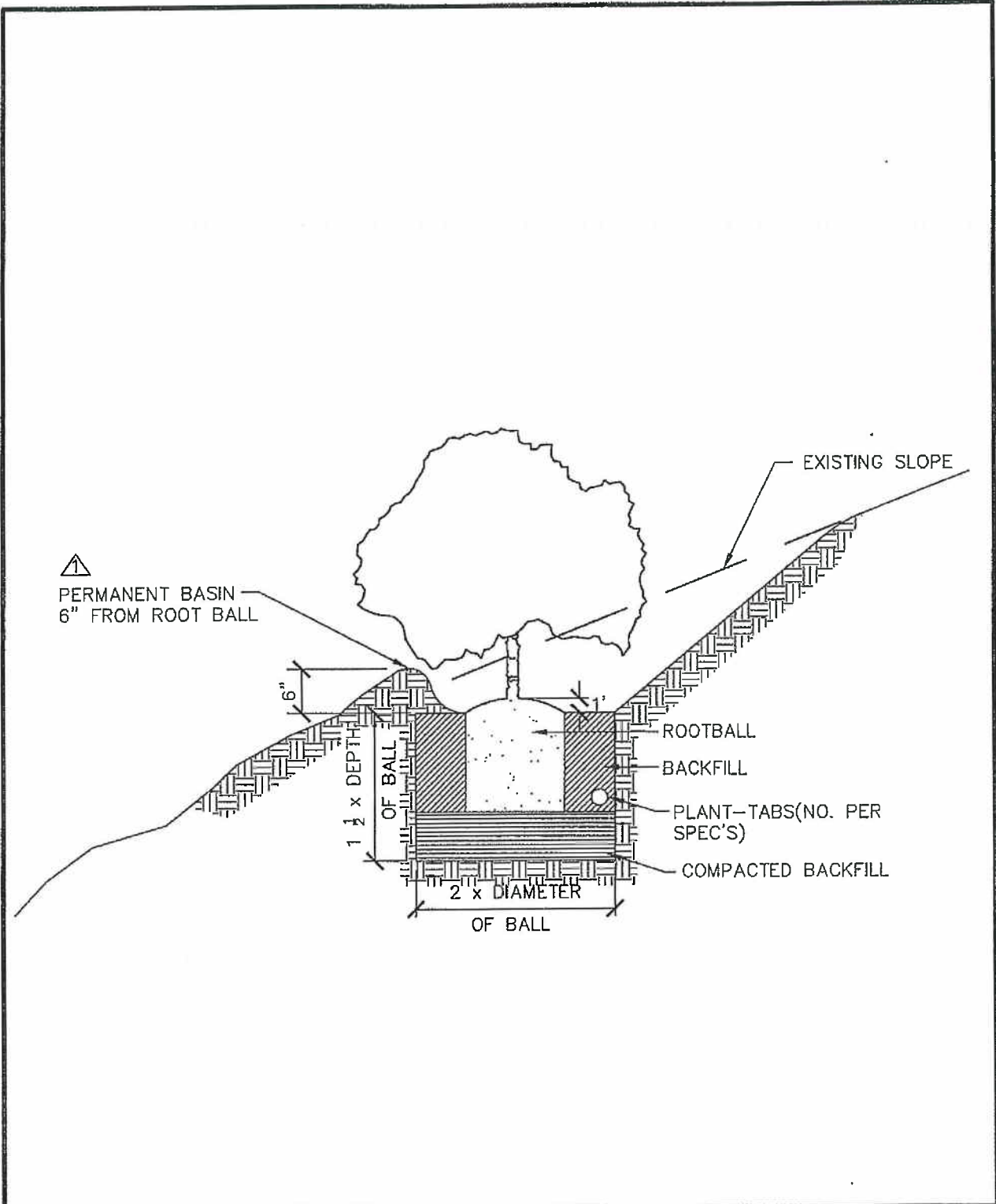
James Williams

RECOMMENDED BY:

Robert [Signature]

SHRUB PLANTING

**STANDARD
DETAIL
205**



CITY OF LANCASTER

APPROVED BY:

James Williams

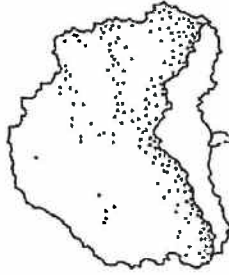
RECOMMENDED BY:

Robert Neal

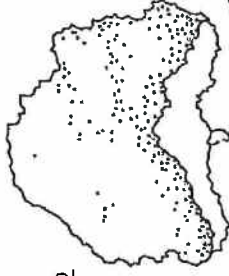
**SHRUB PLANTING
(SLOPE)**

**STANDARD
DETAIL
206**

N-S SECTION



E-W SECTION

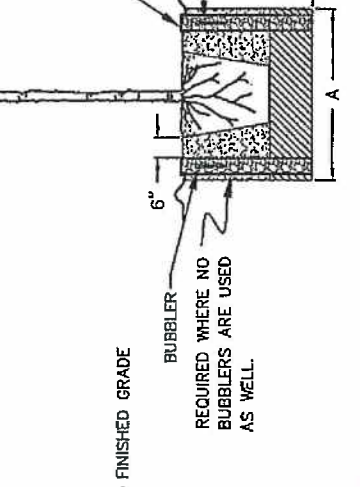
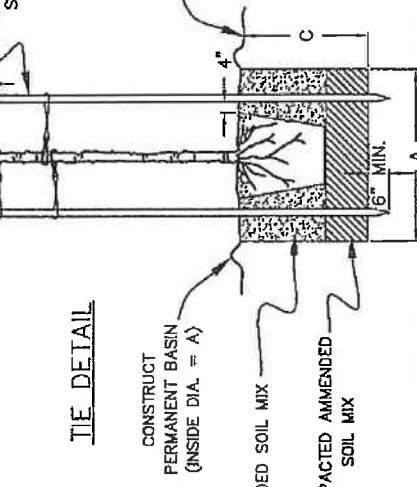


TREE BOX SIZE	A	B	C
24"	48" (1220mm)	10' (3.0m)	36" (915mm)
36"	72" (1905mm)	12' (3.7m)	54" (1370mm)

TREE BUBBLER ASSEMBLY
2 PER TREE
(SEE DETAIL 209)

RUBBER CINCH TIES
2" DIA. LODGE POLE
STAKES (LENGTH =B)

TIE DETAIL



PVC CAP
FINISHED GRADE
4" x 3' PVC PERFORATED
PIPE. 2 PER TREE
OPPOSITE SIDES FROM
STAKES. FILL WITH 3/4"
CRUSHED ROCK.
INSTALL BUBBLERS
IN PIPES.

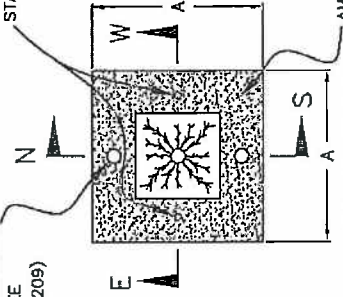
BUBBLER WHERE NO
BUBBLERS ARE USED
AS WELL.

FINISHED GRADE

CONSTRUCT
PERMANENT BASIN
(INSIDE DIA. = A)

AMMENDED SOIL MIX
COMPACTED AMMENDED
SOIL MIX

PLAN VIEW

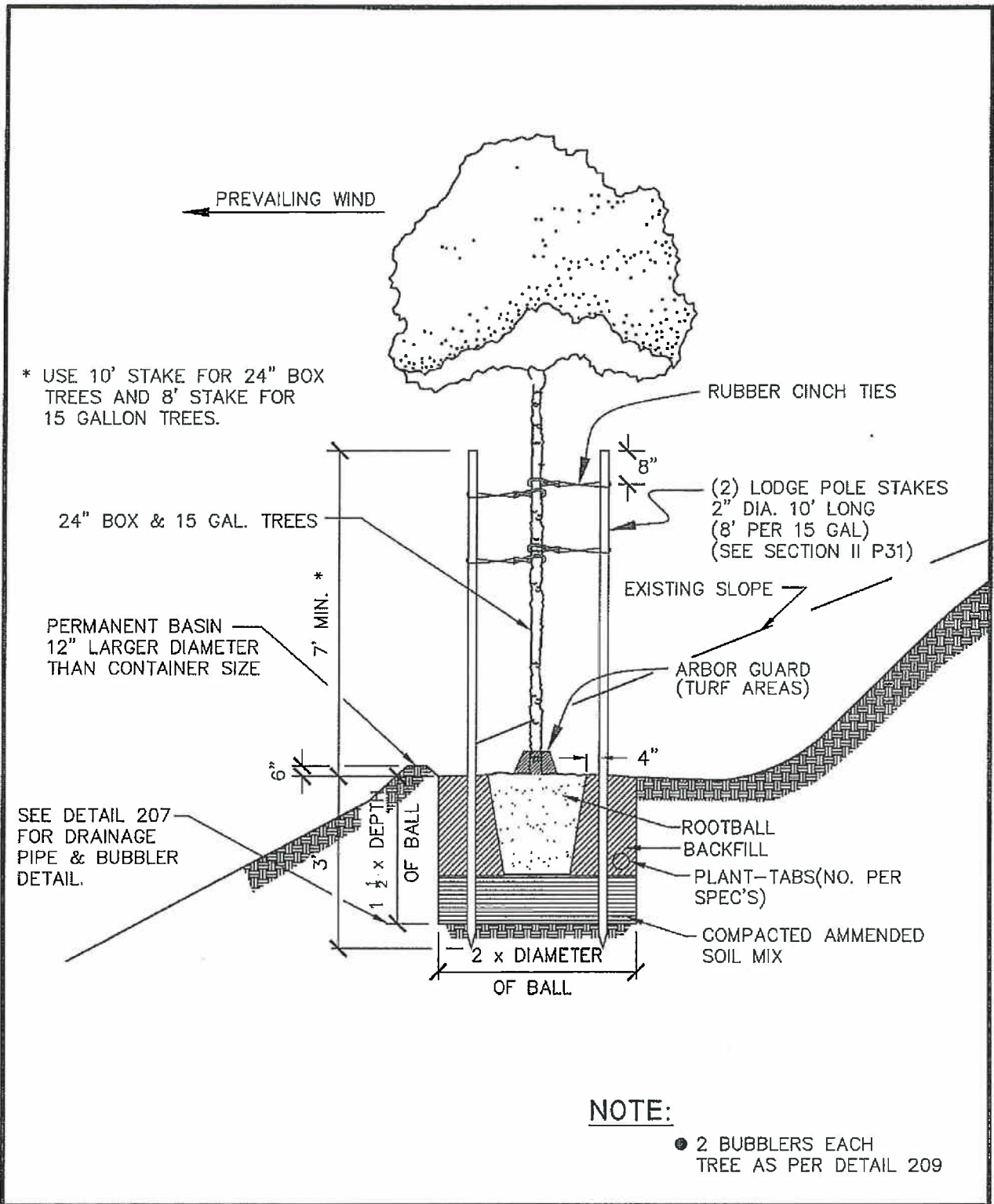


CITY OF LANCASTER

TREE
PLANTING

STANDARD
DETAIL
207

APPROVED BY: *[Signature]*
RECOMMENDED BY: *[Signature]*



CITY OF LANCASTER

APPROVED BY:

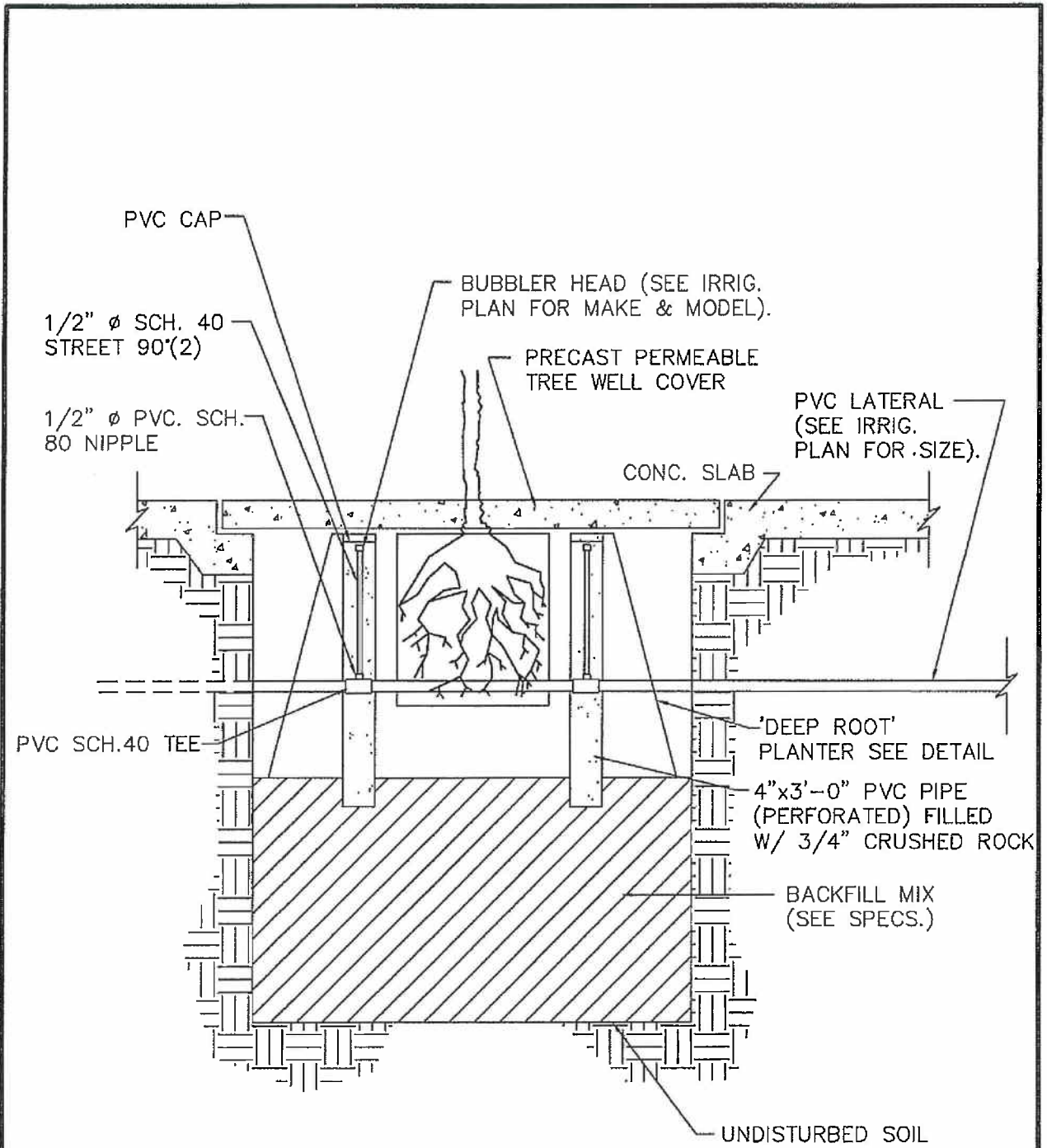
Sam Williams

RECOMMENDED BY:

Robert C. Neal

TREE PLANTING
(SLOPE)

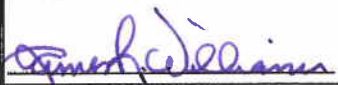
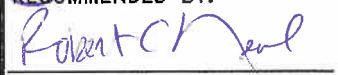
STANDARD
DETAIL
208



NOTE :

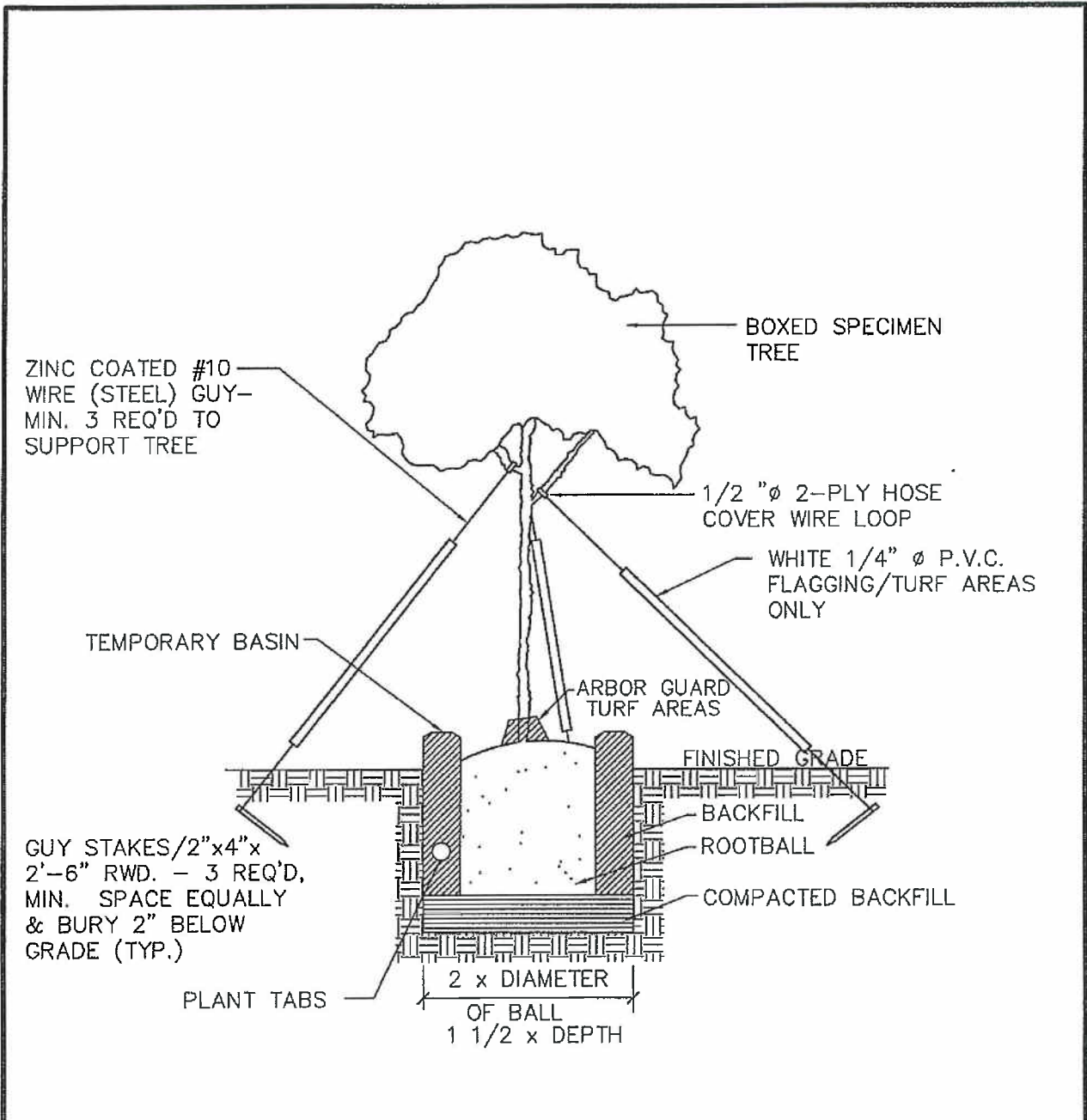
- SEE BUBBLER HEAD/DEEP WATERING PIPE DETAIL FOR HEAD ASSEMBLY

CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


**TREE PLANTING
 (TREE WELL)**

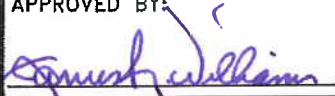
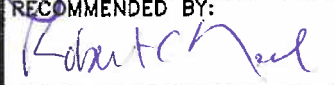
**STANDARD
 DETAIL
 209**



NOTE:

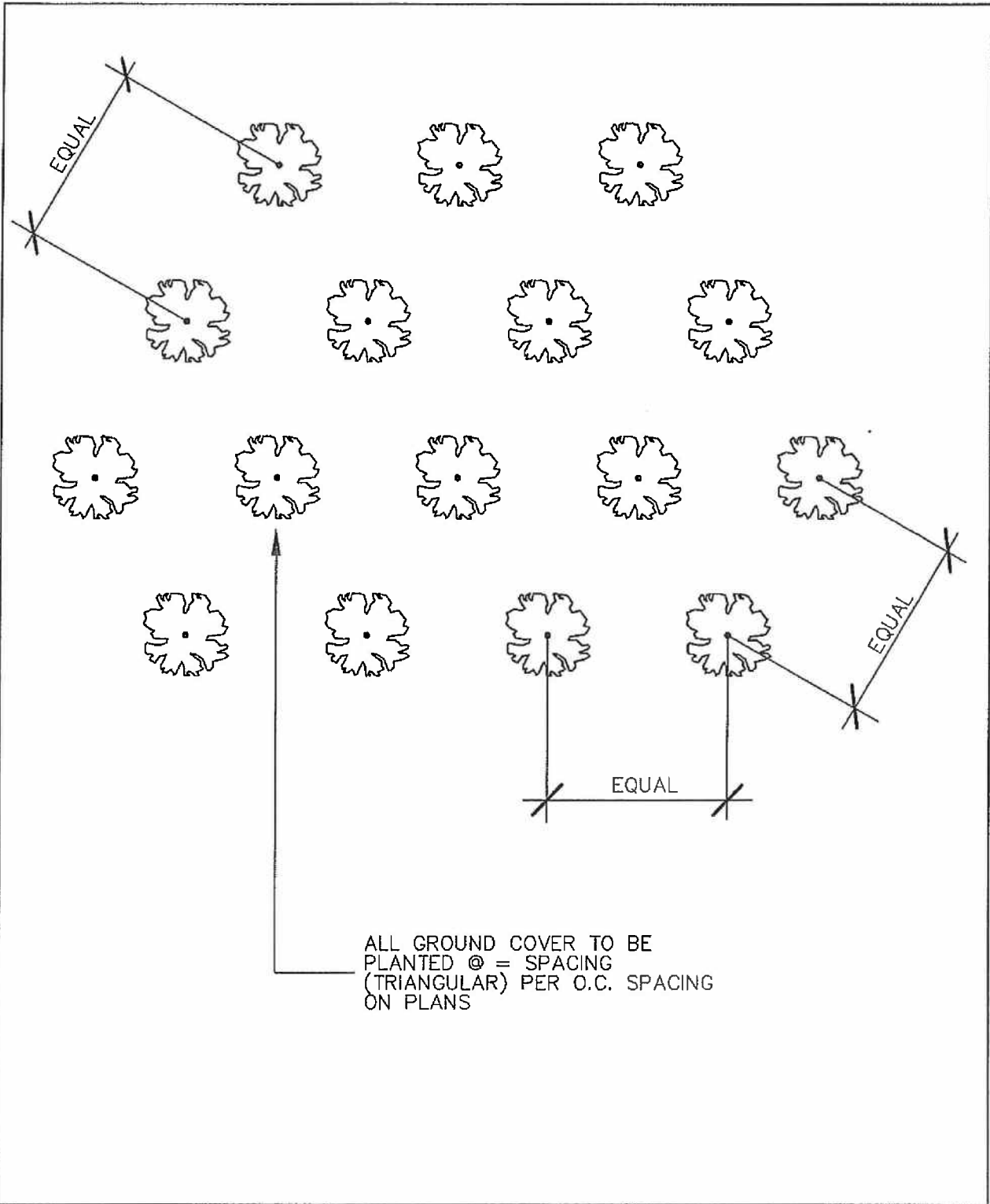
- GUY ONLY THOSE BOXED TREES WHICH REQUIRE SUPPORT.

CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


TREE GUYING

**STANDARD
 DETAIL
 210**



CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:

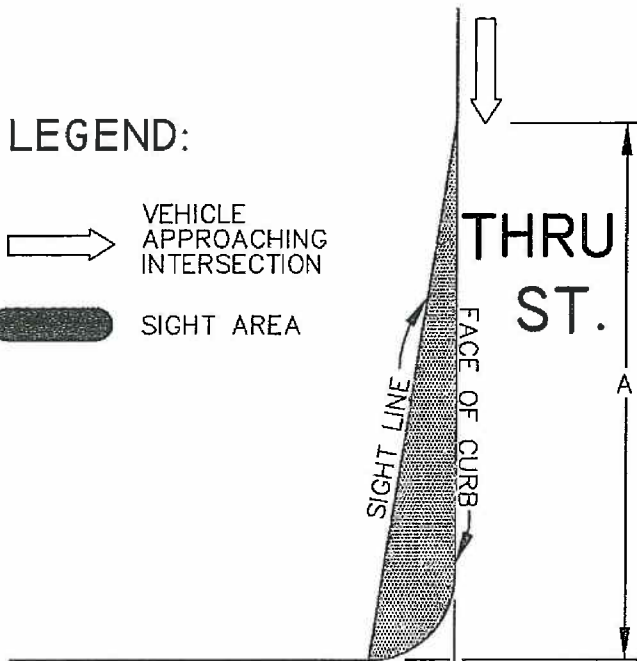

**GROUNDCOVER
 SPACING**

**STANDARD
 DETAIL
 211**

LEGEND:

→ VEHICLE APPROACHING INTERSECTION

● SIGHT AREA



DISTANCE A	
POSTED SPEED LIMIT (MPH)	DISTANCE (IN FEET)
55	370
50	335
45	300
40	265
35	230
30	190

STOP STREET

FACE OF CURB

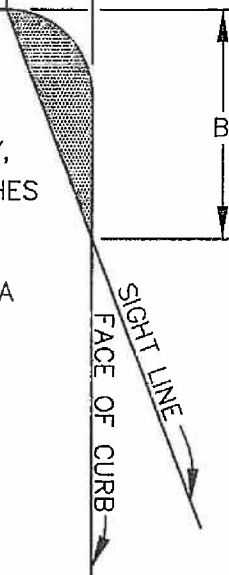
15'

15'

CHECK ZONING ORDINANCE
SEC. 17.28.050

SIGHT AREA:

- NO PLANTS, AT MATURITY, WALL, ETC. OVER 24 INCHES
- NO MORE THAN 3 TREES WITH LOWEST BRANCHES A MIN. OF 10 FEET HIGH.
- ALL HEIGHTS ARE MEASURED FROM TOP OF CURB.



DISTANCE B	
POSTED SPEED LIMIT (MPH)	DISTANCE (IN FEET)
55	140
50	125
45	110
40	105
35	100
30	90

CITY OF LANCASTER

APPROVED BY:

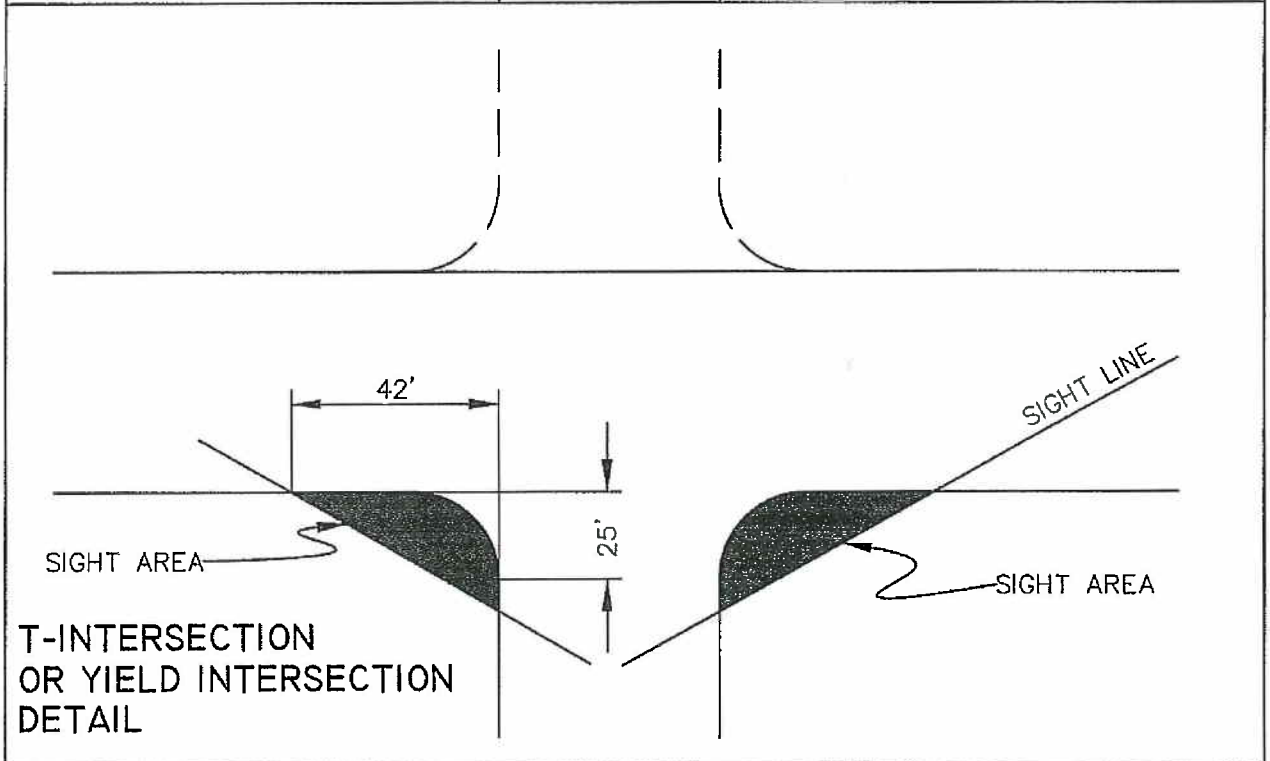
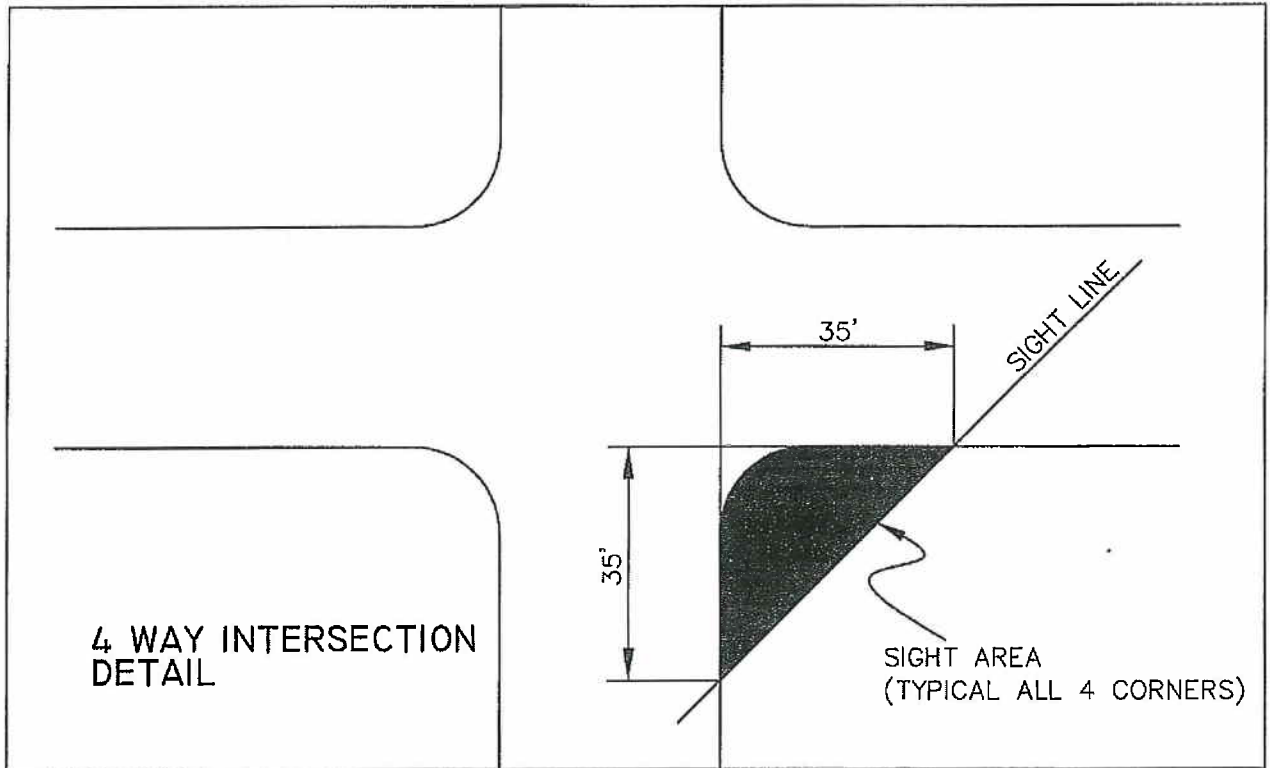
Robert Williams

RECOMMENDED BY:

Robert C. [unclear]

**TREE PLACEMENT
CONTROLLED
INTERSECTION**

**STANDARD
DETAIL
212A**



CITY OF LANCASTER

APPROVED BY:

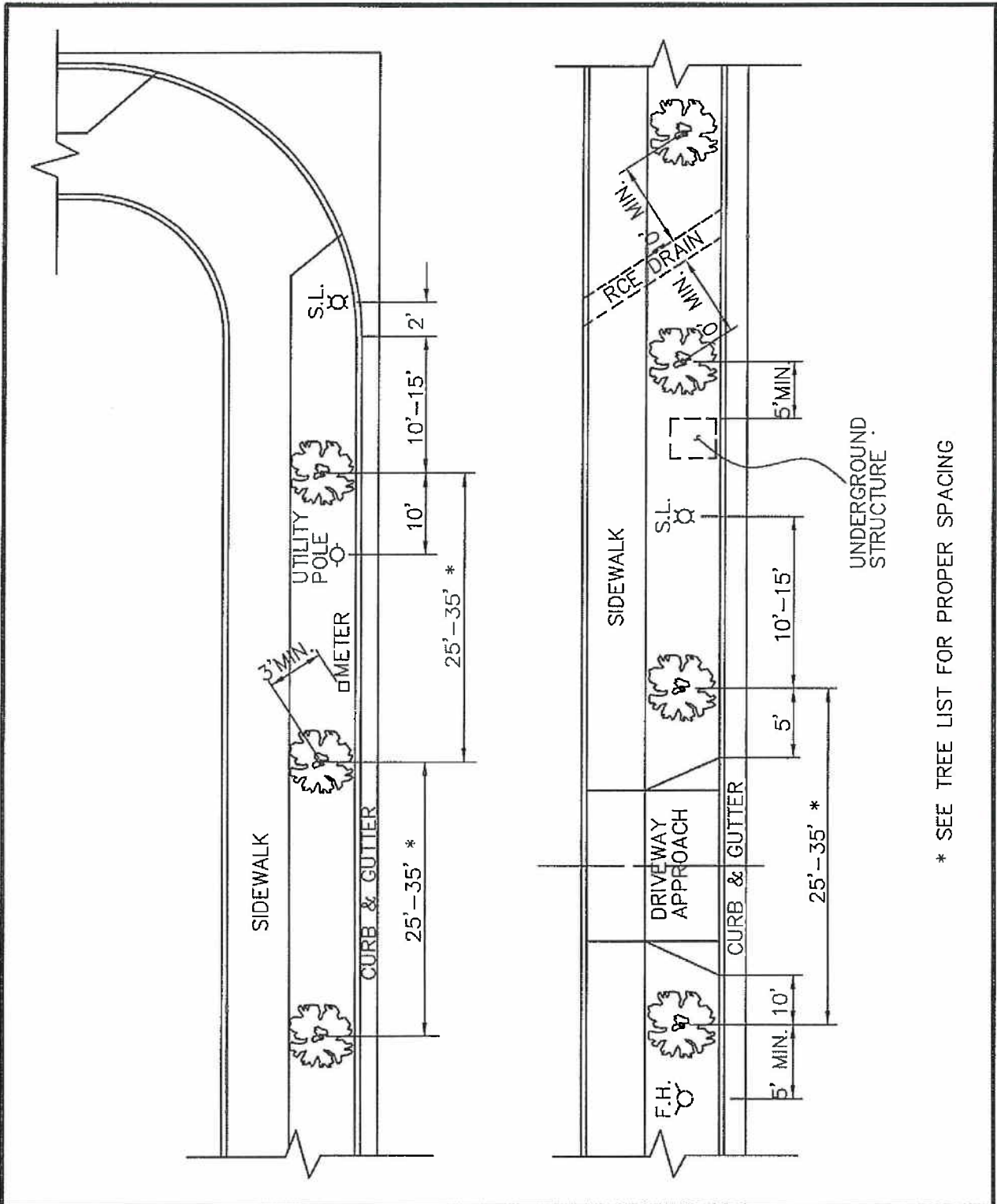
Thomas Williams

RECOMMENDED BY:

Robert Neal

**TREE PLACEMENT
UNCONTROLLED
INTERSECTION**

**STANDARD
DETAIL
212B**



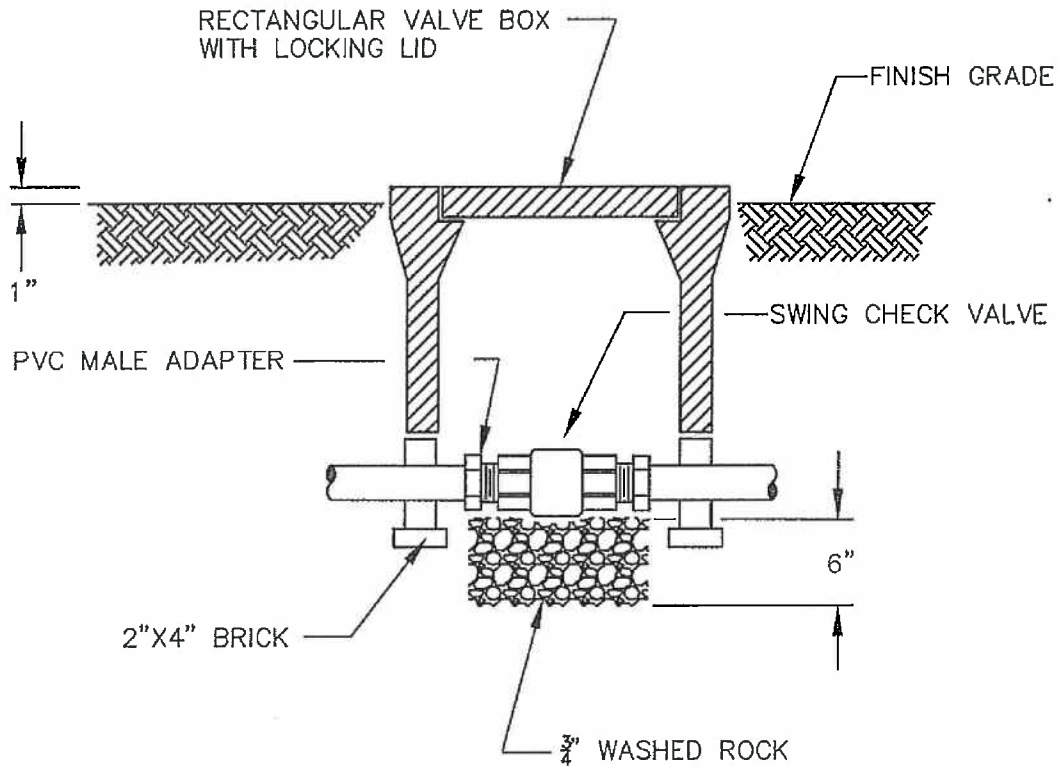
* SEE TREE LIST FOR PROPER SPACING

CITY OF LANCASTER

APPROVED BY:
James Williams
 RECOMMENDED BY:
Robert C. Neal

STREET TREE PLACEMENT

STANDARD
 DETAIL
 213



CITY OF LANCASTER

APPROVED BY:

Robert Williams

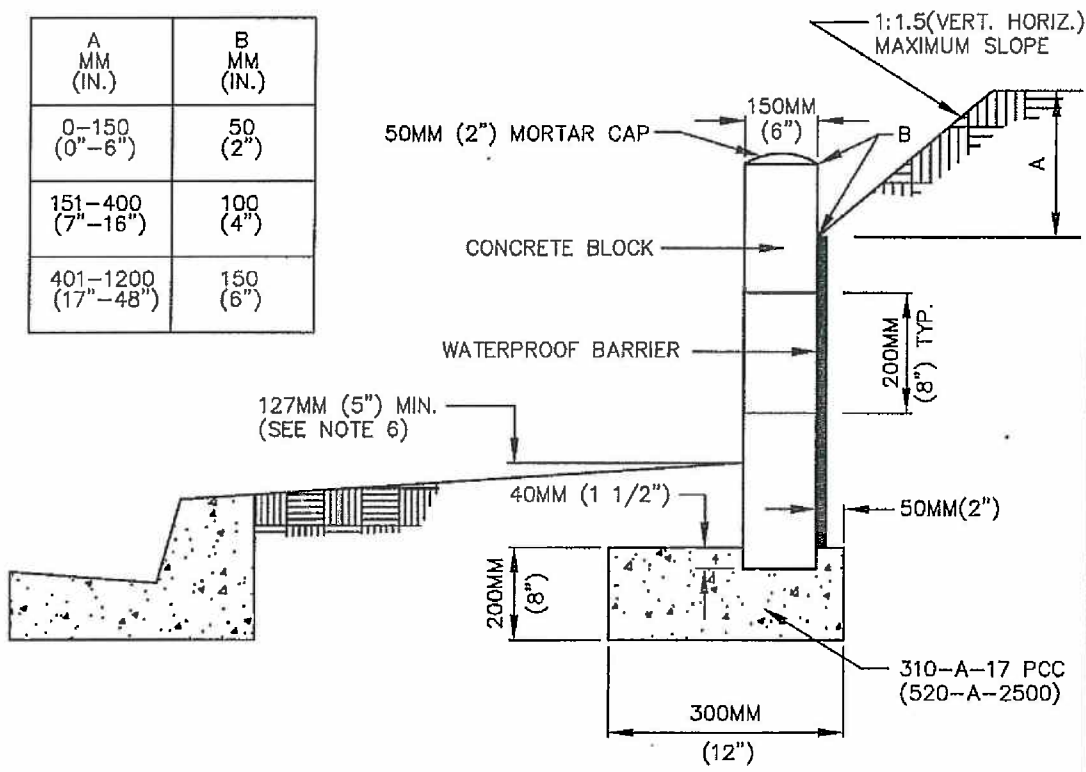
RECOMMENDED BY:

Robert C. Neal

SWING
CHECK VALVE

STANDARD
DETAIL
214

A MM (IN.)	B MM (IN.)
0-150 (0"-6")	50 (2")
151-400 (7"-16")	100 (4")
401-1200 (17"-48")	150 (6")

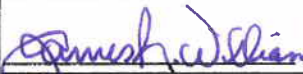
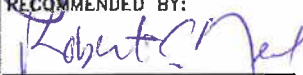


1-2 COURSE MINIMUM
3 COURSE MAXIMUM

NOTES:

- CONCRETE AND CONCRETE BLOCK SHALL BE PER SSPWC
- CONCRETE BLOCKS SHALL BE PLACED WHILE THE FOOTING IS STILL FRESH. ALL CELLS TO BE FILLED SOLID WITH GROUT AND RODDED SO GROUT IS MONOLITHIC WITH FRESH FOOTING.
- POUR FOOTING AGAINST UNDISTURBED NATURAL SOIL.
- NO LIVE LOAD SURCHARGE ALLOWED ON RETAINED SOIL.
- TOP OF FOOTING MAY BE PLACED PARALLEL TO PARKWAY GRADE IF STREET GRADE IS RELATIVELY FLAT AND UNIFORM. (MAX. 5%).
- DIMENSIONS SHOWN ON THIS PLAN FOR METRIC AND ENGLISH UNITS ARE NOT EXACTLY EQUAL VALUES. IF METRIC UNITS ARE USED, ALL VALUES USED FOR CONSTRUCTION SHALL BE METRIC VALUES. IF ENGLISH UNITS ARE USED, ALL VALUES USED FOR CONSTRUCTION SHALL BE ENGLISH VALUES.

CITY OF LANCASTER

APPROVED BY:

 RECOMMENDED BY:


**CONCRETE BLOCK
 SLOUGH WALL**

**STANDARD
 DETAIL
 215**