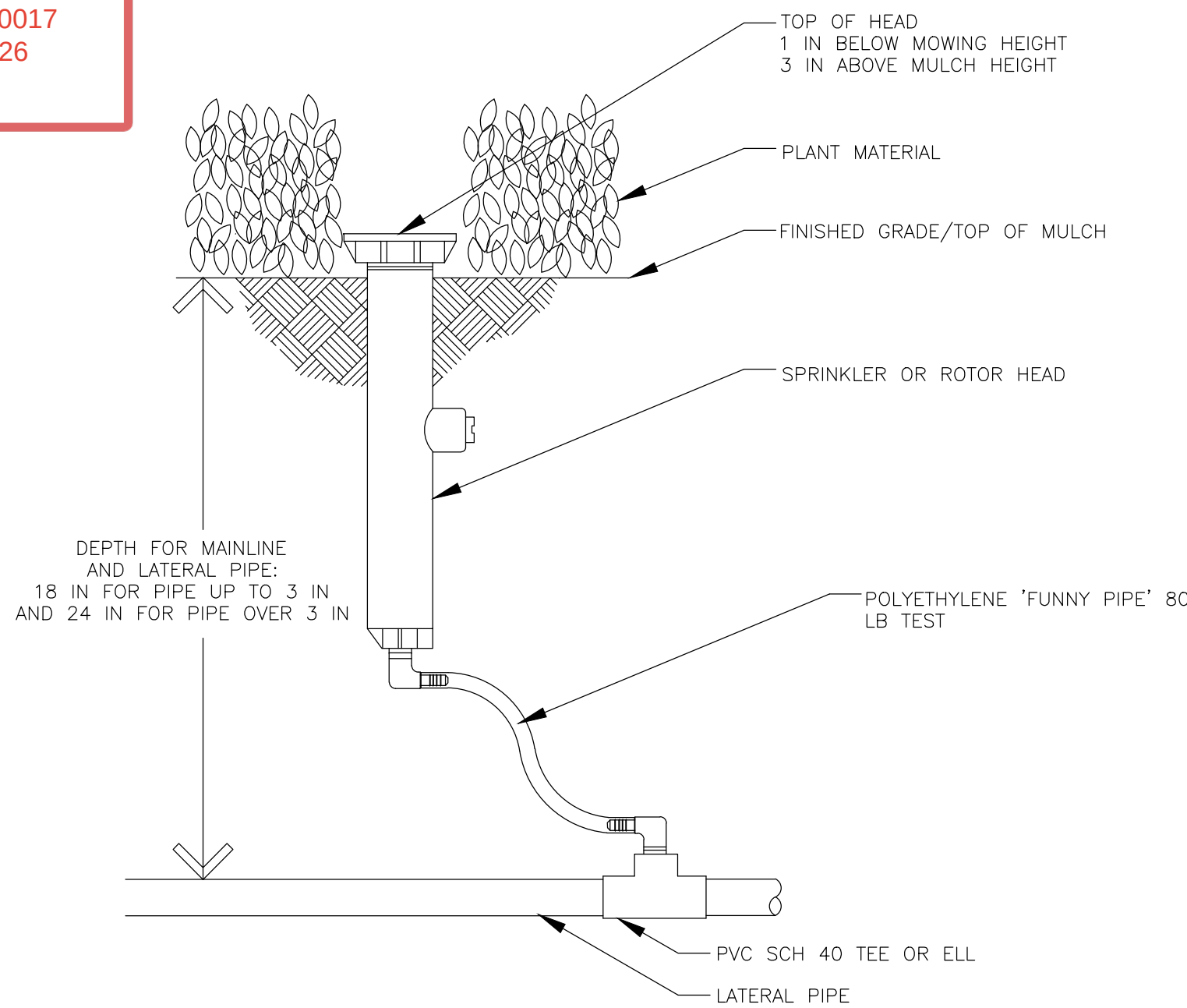
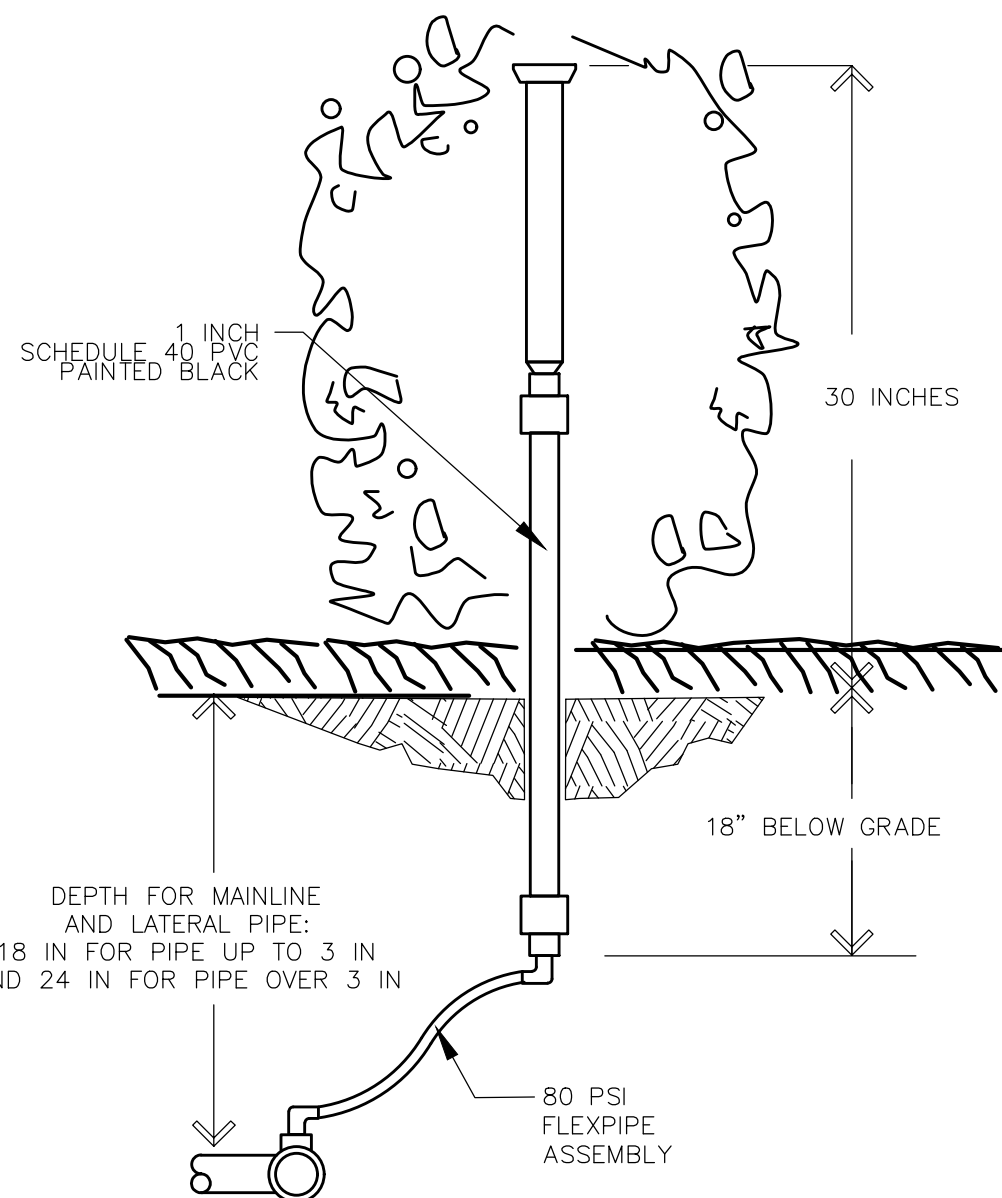




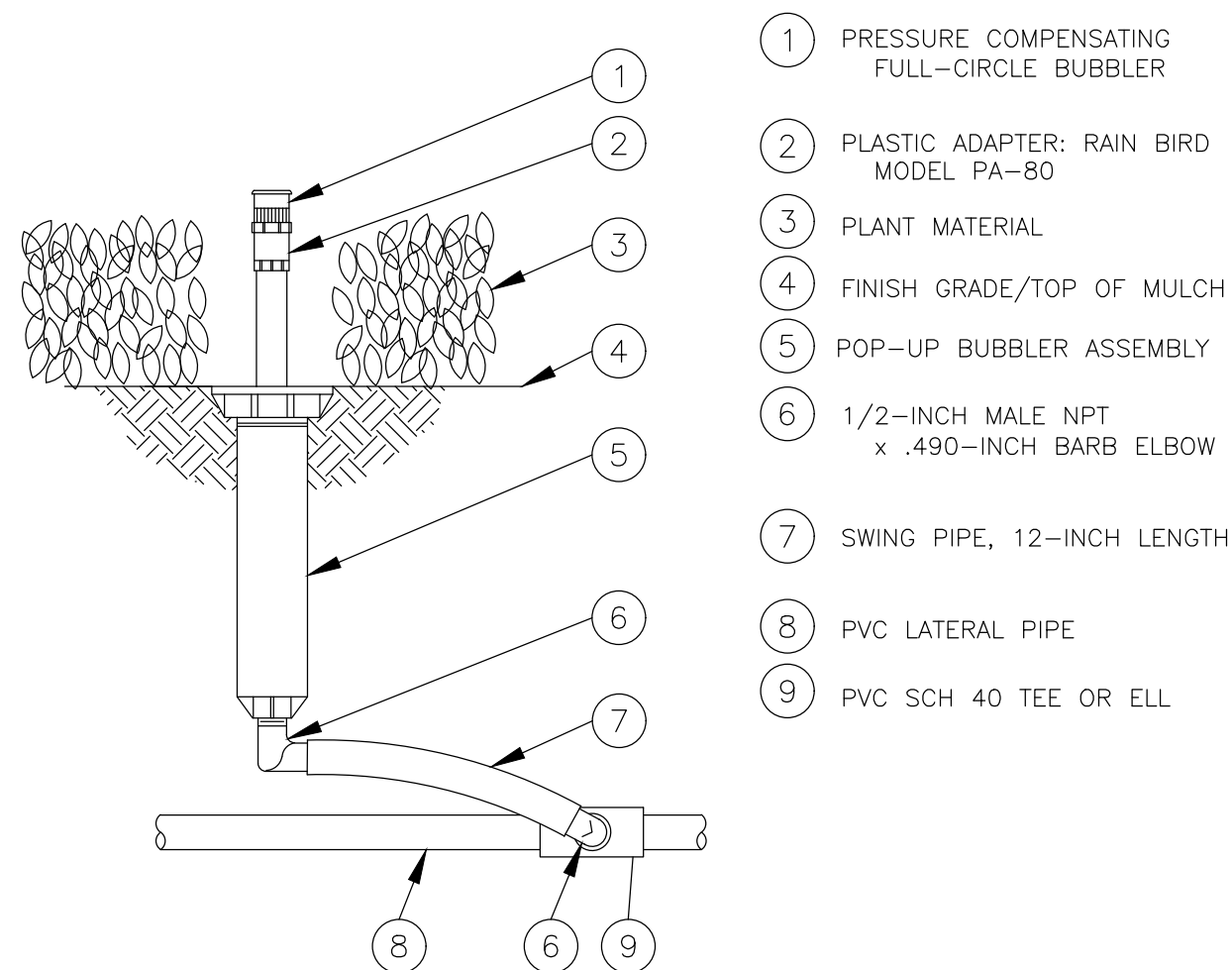
SPRAY HEAD ALONG CURB EDGE

N.T.S.



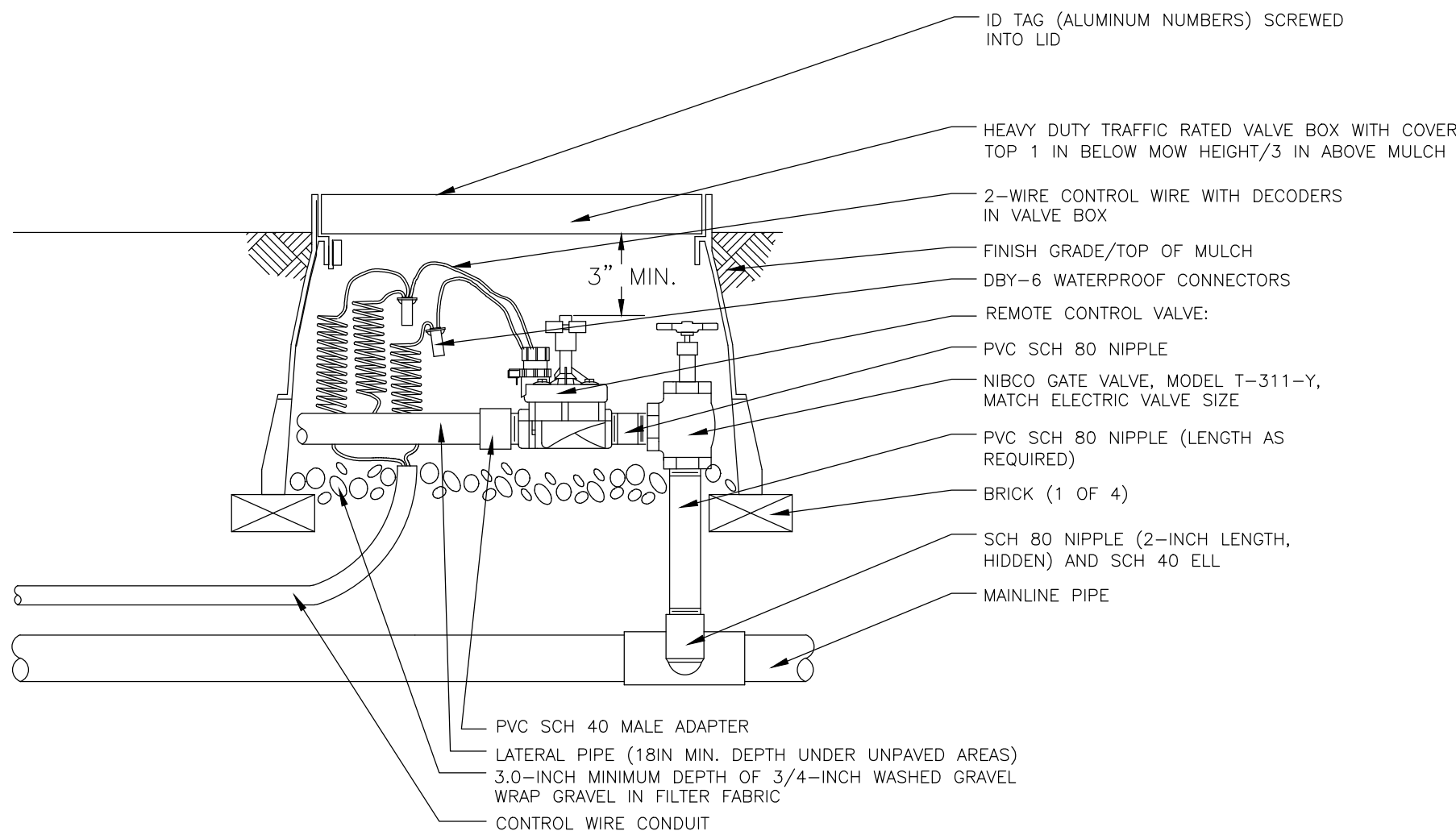
SPRAY HEAD IN SHRUB AREA

N.T.S.



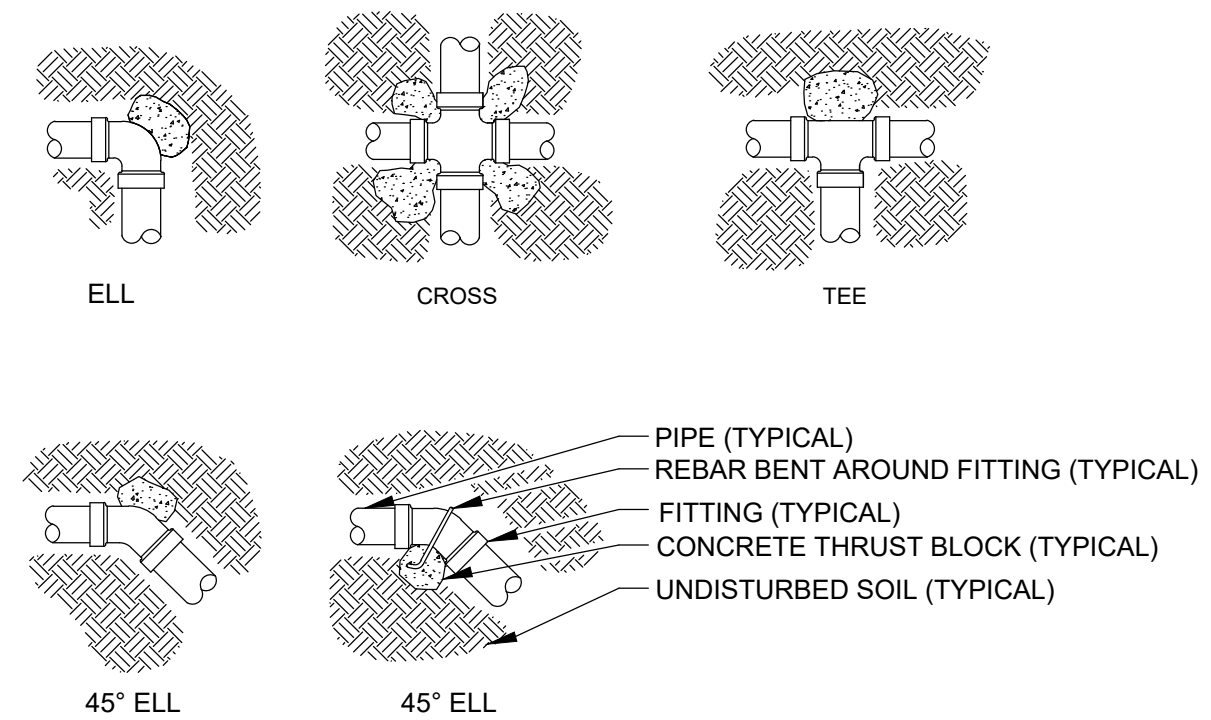
BUBBLER ASSEMBLY

N.T.S.



VALVE ASSEMBLY

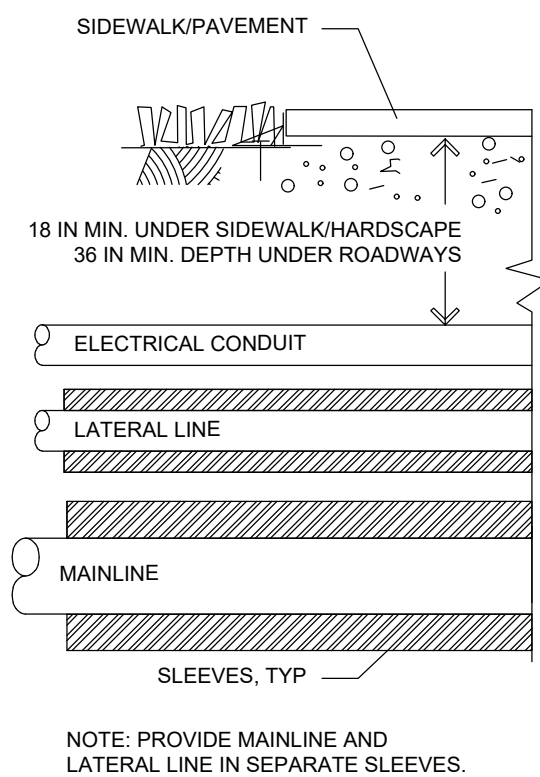
N.T.S.



- NOTES:
- SUPPLY LINES 3-INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
 - SEE SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.

THRUST BLOCKS

N.T.S.



NOTE: PROVIDE MAINLINE AND LATERAL LINE IN SEPARATE SLEEVES.

SLEEVES

N.T.S.

SLEEVE CHART	
PIPE SIZE	SLEEVE SIZE
3/4"	2 1/2"
1"	3"
1 1/4"	3"
1 1/2"	4"
2"	4"
2 1/2"	6"
3"	6"
4"	8"
6"	12"
8"	16"

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 1806 8 Series MPR	20
	Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	30
	Rain Bird 1806 12 Series MPR	17
	Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	22
	Rain Bird 1806 ADJ	22
	Rain Bird 1812 15 Strip Series	34
	Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	23
	Rain Bird 1804-1300AF Flood	4
	Flood Bubbler 4.0in. pop-up, with a PA-80 adapter.	3,508 lf
	Rain Bird PEB	492.4 lf
	1in., 1-1/2in., 2in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.	184.2 lf
	Irrigation Lateral Line: PVC Schedule 40	
	Irrigation Mainline: PVC Schedule 40	
	Pipe Sleeve: PVC Schedule 40	

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI
1	Rain Bird PEB	2"	Bubbler	39.1	40.5
2	Rain Bird PEB	2"	Turf Spray	44.92	38.2
3	Rain Bird PEB	2"	Shrub Spray	36.82	39.2
4	Rain Bird PEB	2"	Turf Spray	34.94	40.5

IRRIGATION NOTES

SYSTEM DESCRIPTION

THIS IS AN EXTENSION OF AN EXISTING SYSTEM. SOURCED FROM TWO EXISTING PUMPS. PROPOSED VALVES ARE TO BE CONNECTED TO PUMP 1 BY AN EXTENSION OF THE EXISTING MAINLINE. PROPOSED IRRIGATION AREAS IN LANDSCAPE ISLANDS ARE TO BE CONNECTED TO EXISTING ZONES. CONTRACTOR TO VERIFY THAT THE CAPACITY OF EXISTING PUMPS AND EQUIPMENT MATCHES THE REQUIREMENTS OF THE PROPOSED DESIGN. CONTRACTOR TO REPLACE EXISTING CONTROLLERS AT BOTH PUMPS WITH NEW 2-WIRE MODELS.

WORK

THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRE-CONSTRUCTION MEETING.

FOLLOW THESE NOTES IN ADDITION TO TOWN REQUIREMENTS AND DESIGN STANDARDS. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS BETWEEN THE PLANS AND CITY/COUNTY REQUIREMENTS.

VERIFY SITE CONDITIONS BEFORE BIDDING. INSTALLATIONS MAY REQUIRE ADDITIONAL EQUIPMENT FOR SPECIFIC SITE CONDITIONS. INCLUDE ALL COSTS TO COMPLETE THE SCOPE OF WORK IN BID.

INCLUDE ALL REQUIRED PERMIT FEES IN BID. OBTAIN ALL REQUIRED PERMITS AT NO ADDITIONAL CHARGE.

IMMEDIATELY REPAIR AND/OR REPLACE ANY ITEM DAMAGED BY CONSTRUCTION OF THE IRRIGATION SYSTEM AT NO CHARGE.

GUARANTEE MATERIALS AND WORKMANSHIP FOR TWO-YEARS FROM FINAL ACCEPTANCE. CORRECT DEFICIENCIES AT NO CHARGE

INSTALLATIONS

PROVIDE MANUFACTURER CUT SHEETS FOR EVERY ITEM TO BE INSTALLED FOR APPROVAL.

PROVIDE ONLY NEW EQUIPMENT AND AS SPECIFIED WITHIN THE PLANS. ANY IRRIGATION SUBSTITUTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.

ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS INDICATED WITHIN THE PLANS ARE PRIOR TO ELECTRICAL PROVIDERS DESIGN. COORDINATE FINAL ELECTRICAL DESIGN REQUIREMENTS WITH THE ELECTRICAL PROVIDER PRIOR TO BID. PROVIDE ANY ADDITIONAL REQUIRED EQUIPMENT AT NO ADDITIONAL COST.

ELECTRICAL SERVICE CONNECTIONS AND ALL OTHER ELECTRICAL WORK IS TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. COORDINATE ELECTRICAL SERVICE CONNECTION WITH THE ELECTRICAL PROVIDER. PERFORM ELECTRICAL SERVICE CONNECTIONS BY A LICENSED ELECTRICIAN.

CONTROLLER AND PUMP STATION GROUNDING: 10 OHMS RESISTANCE MAXIMUM. PROVIDE CERTIFICATION FROM THE ELECTRICIAN SHOWING THE DATE OF TEST, CONTROLLER LOCATION/IDENTIFICATION AND TEST RESULTS.

PLAN ADJUSTMENTS:
PLAN LAYOUT IS SCHEMATIC FOR GRAPHIC CLARITY. INSTALL IN PERVIOUS AREAS, EXCEPT WHERE SLEEVING IS SHOWN.

AS-BUILT PLANS:
PREPARE 'AS-BUILT' PLANS AS THE WORK PROGRESSES, INDICATING THE ACTUAL LOCATION OF EQUIPMENT. KEEP THE AS-BUILT PLAN SET ON SITE DURING CONSTRUCTION. SUBMIT FINAL AS-BUILT TO THE OWNER'S REPRESENTATIVE.

TRENCHING AND PIPE INSTALLATION:
INSTALL PIPE ON A STABLE FOUNDATION. IF NECESSARY, REMOVE UNSTABLE SOIL OR MUCK FROM THE TRENCH BOTTOM AND INSTALL A 9 INCH FOUNDATION OF COMPACTED CLASS 1 BEDDING MATERIAL. REMOVE WATER FROM THE TRENCH BEFORE BACKFILLING. EXCAVATE 8 INCHES BELOW THE PIPE BOTTOM WHEN TRENCHING THROUGH ROCK AND INSTALL CLASS 1 BEDDING MATERIAL. BACKFILL TRENCHES AND

COMPACT TO FINISHED GRADE WITH EXISTING SOILS FREE OF DEBRIS, ROOTS, ROCKS OR OBJECTS THAT COULD DAMAGE THE PIPE, TUNNEL UNDER TREE ROOTS.

MAKE PVC SOLVENT WELD CONNECTIONS IN ACCORDANCE WITH ASTM D2855. APPLY PURPLE COLORED PVC PRIMER IN ACCORDANCE WITH ASTM F856. APPLY PVC CEMENT IN ACCORDANCE WITH ASTM D2964.

PIPE SHOWN FOR GRAPHIC CLARITY. INSTALL IN PERVIOUS AREAS EXCEPT WHERE SLEEVING IS SHOWN.

FLUSHING:
PRIOR TO INSTALLATION OF THE VALVES, FLUSH MAINLINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE CLEAR OF DEBRIS, WHICHEVER IS LONGER.
PRIOR TO INSTALLATION OF THE HEADS, FLUSH LATERAL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE CLEAR OF DEBRIS, WHICHEVER IS LONGER.

MAINLINE LEAK TEST:

- PERFORM MAINLINE LEAK TEST AT 100 PSI FOR 2 HOURS.
- PROVIDE AND OPERATE TEST EQUIPMENT.
- BEFORE TESTING, THE MAINLINE MUST BE COMPLETE. NO CUTTING OR MODIFICATIONS ALLOWED AFTER SUCCESSFUL COMPLETION OF THE LEAK TEST.
- BEFORE TESTING, ISOLATE THE MAINLINE. FILL WITH WATER, AND PRESSURIZE TO THE TEST PRESSURE FOR 24 HOURS TO REMOVE AIR FROM THE MAINLINE AND CORRECT LEAKS.

DETERMINE THE MAXIMUM ALLOWABLE LEAKAGE FOR GASKETTED PVC BY THE FOLLOWING FORMULA:
 $L = (NDVP)/7400$
L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR, THE MAXIMUM QUANTITY OF WATER ALLOWED TO BE PUMPED INTO THE MAINLINE TO MAINTAIN THE TEST PRESSURE.
N = NUMBER OF JOINTS
D = NOMINAL PIPE DIAMETER IN INCHES
P = SQUARE ROOT OF THE TEST PRESSURE IN PSI.

THERE IS NO ALLOWABLE LEAKAGE IN SOLVENT WELDED PVC MAINLINE.

IF LEAKAGE EXCEEDS THIS LIMIT, CORRECT THE PROBLEM AND REPEAT LEAK TEST UNTIL SUCCESSFUL COMPLETION.

SUBMIT LEAK TEST RESULTS TO OWNER'S REPRESENTATIVE.

IRRIGATION HEAD PRESSURE TEST:

PERFORM PRESSURE TEST ON EACH ZONE AT THE FIRST AND LAST IRRIGATION HEADS. THE MAXIMUM ALLOWABLE PRESSURE DEVIATION IS 10 PERCENT.

FINAL ACCEPTANCE

FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN ONLY AFTER THE FOLLOWING HAS BEEN COMPLETED AND APPROVED:

- FINAL WALK THROUGH WITH THE OWNER'S REPRESENTATIVE AND CREATION OF FINAL PUNCH LIST.
- FINAL PUNCH LIST ITEMS HAVE BEEN CORRECTED AND ACCEPTED.
- COMPLETION AND ACCEPTANCE OF THE 'AS-BUILT' DRAWINGS.
- SUBMITTAL AND ACCEPTANCE OF THE GROUNDING TEST RESULTS.
- SUBMITTAL AND ACCEPTANCE OF THE MAINLINE TEST.



REVISIONS	DATE	DESCRIPTION	BY
CAD 9413004E NORTH-SIDES	94-13-00	EM	SW
JOB NO.	94-13-00	EM	SW
DRAWN BY			
CHECK BY			
DATE	04-28-2026		