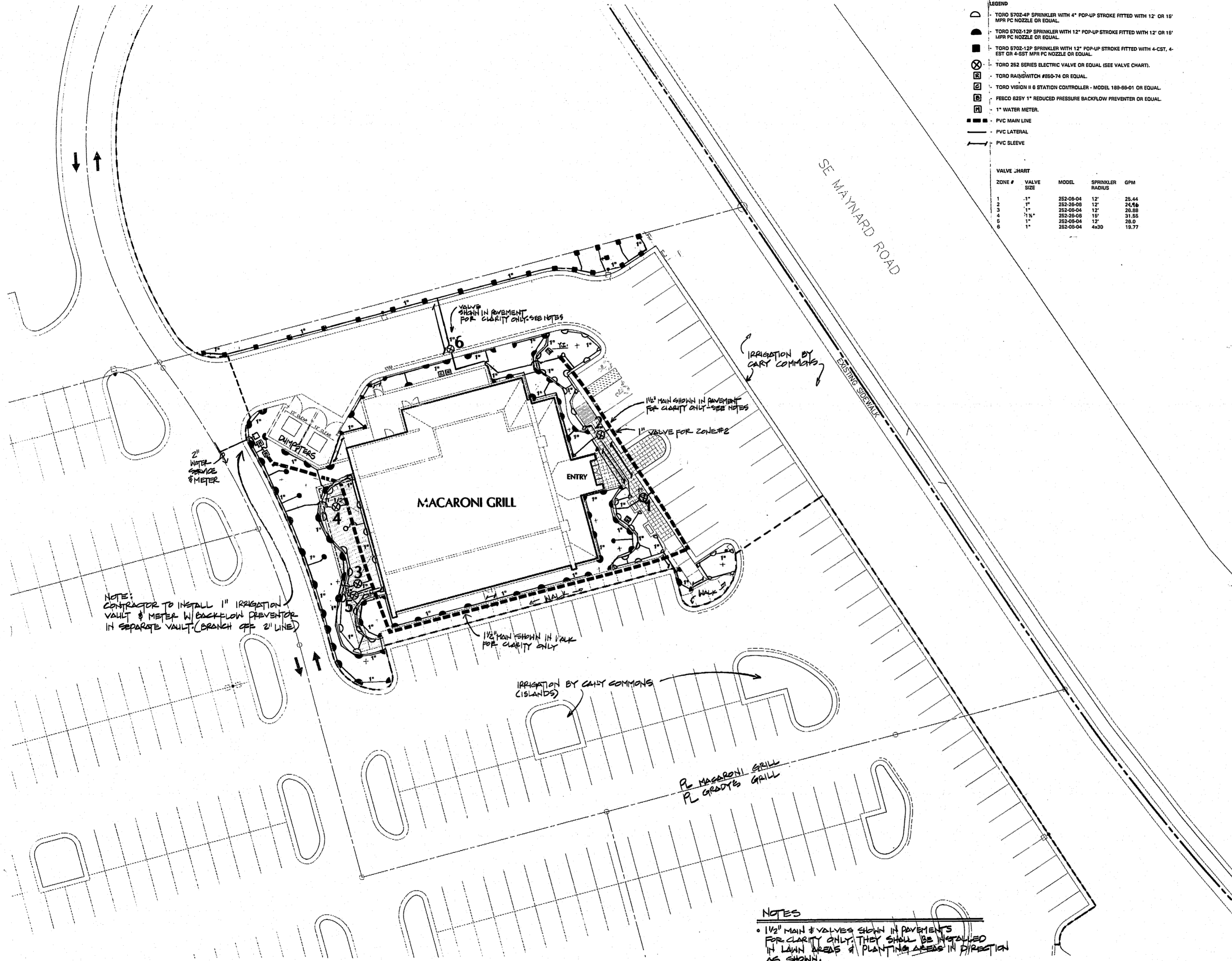


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LEGEND

- TORO 8702-AP SPRINKLER WITH 4" POP-UP STROKE FITTED WITH 12" OR 15" MPR PC NOZZLE OR EQUAL.
- TORO 8702-12P SPRINKLER WITH 12" POP-UP STROKE FITTED WITH 12" OR 15" MPR PC NOZZLE OR EQUAL.
- TORO 8702-12P SPRINKLER WITH 12" POP-UP STROKE FITTED WITH 4-CST, 4-EST OR 4-SST MPR PC NOZZLE OR EQUAL.
- ⊗ TORO 282 SERIES ELECTRIC VALVE OR EQUAL (SEE VALVE CHART).
- ⊠ TORO RAINSWITCH #850-74 OR EQUAL.
- ⊡ TORO VISION II 8 STATION CONTROLLER - MODEL 189-86-01 OR EQUAL.
- ⊞ FERC0 825V 1" REDUCED PRESSURE BACKFLOW PREVENTER OR EQUAL.
- ⊞ 1" WATER METER.
- PVC MAIN LINE
- PVC LATERAL
- PVC SLEEVE

VALVE CHART

ZONE #	VALVE SIZE	MODEL	SPRINKLER RADIUS	GPM
1	1"	282-09-04	12'	28.44
2	1"	282-28-08	12'	24.46
3	1"	282-09-04	12'	28.88
4	1 1/2"	282-28-08	15'	31.55
5	1"	282-09-04	12'	28.0
6	1"	282-09-04	4x30	19.77

NOTES:

ALL FIXED SPRAY SPRINKLERS IN LAWN AREAS SHALL BE MOUNTED ON TORO FLEXIBLE POLYETHYLENE TUBING.

ALL LAWN SPRINKLERS ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 4" FROM THE EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTENANCE OPERATIONS. ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFELON THREAD SEALING TAPE.

PVC

ALL PVC MAINLINE PIPING SHALL BE SCHEDULE 40 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS UNLESS OTHERWISE NOTED AND SHALL HAVE A MINIMUM DEPTH OF COVER OF 18".

ALL PVC LATERAL LINE PIPING SHALL BE PR 180 OR PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS UNLESS OTHERWISE NOTED AND SHALL HAVE A MINIMUM DEPTH OF COVER OF 12".

ALL PIPING RUNS SHALL BE "SNAKED" IN THE TRENCH DURING INSTALLATION TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL EXPANSION OR CONTRACTION.

ALL MAIN LINE PIPING SHALL BE THRUST BLOCKED AT ELBOWS, BENDS, REDUCERS AND TEES.

VALVES

ALL VALVES SHALL BE INSTALLED IN AMETEX VALVE BOXES WITH LIDS MOUNTED AT GROUND LEVEL. SINGLE VALVES MAY BE INSTALLED IN AN AMETEX 10" CIRCULAR VALVE BOX WITH COVER WHILE MULTIPLE VALVES (UP TO THREE 1" TO 1 1/2"; ONLY TWO 2") SHALL BE INSTALLED IN AN AMETEX 12" STANDARD BOX WITH COVER.

CONTROL WIRING

ALL 24 V.A.C. CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE WITH POLYETHYLENE UNBraid INSULATION RATED FOR 200 V.A.C. VALVE "COMMON" WIRES SHALL HAVE BLACK INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE RED INSULATION. THE "COMMON" WIRES SHALL BE #12 AWG. "HOT" WIRES SHALL BE #14 AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN A COMMON TRENCH WITH THE MAINLINE PIPING AND TO THE RIGHT SIDE OF THE PIPE IN THE BOTTOM OF THE TRENCH AS ONE FACES IN THE DIRECTION OF WATER FLOW. WIRING SHALL BE "BUNDLED" AND TAPED AT INTERVALS OF APPROXIMATELY TEN FEET. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE MAJOR CONCENTRATIONS OF SPLICES ARE NECESSARY, SPLICES SHALL BE PLACED IN A VALVE BOX WITH COVER INSTALLED BELOW GRADE. SPLICES AT VALVE LOCATIONS SHALL BE MADE INSIDE THE VALVE BOX.

WIRE RUNS SHALL BE INSTALLED WITH ENOUGH SLACK AND/OR OCCASIONAL EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION.

ALL WIRE SPLICES SHALL BE MADE USING MODEL 891403 TYPE Y 3M SCOTCH CONNECTOR AND WATERPROOFED USING MODEL 801408 #4 3M RESIN LAMPK (SK-11) OR APPROVED EQUAL.

WIRES UNDER PAVEMENT SHALL BE INSTALLED IN PVC SLEEVING OR OTHER MATERIAL AS REQUIRED BY LOCAL CODES.

ELECTRICAL SOURCE

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY MATERIALS AND HARDWARE TO CONNECT TO THE ELECTRICAL SOURCE AT THE CONTROLLER. THE CONTRACTOR SHALL FOLLOW ALL LOCAL ELECTRICAL CODES AND APPLICABLE REQUIREMENTS.

THE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR RELATIVE TO THE LOCATION OF THE ELECTRICAL SOURCE FOR THE CONTROLLER.

CONTROLLERS

THE CONTROLLER SHALL BE A WALL MOUNTED MODEL AND SHALL BE INSTALLED FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS AT THE LOCATION SHOWN ON THE IRRIGATION DRAWINGS.

THE RAIN SWITCH SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

ALL ELECTRICAL CONNECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

BACKFLOW PREVENTION DEVICE

THE CONTRACTOR SHALL SUPPLY AND INSTALL THE REDUCED PRESSURE BACKFLOW PREVENTION DEVICE ON THE IRRIGATION SUPPLY LINE IMMEDIATELY DOWNSTREAM OF THE WATER METER.

WATER SUPPLY

THE CONTRACTOR SHALL TAP THE EXISTING WATER SERVICE IN THE LOCATION SHOWN ON THE IRRIGATION DRAWINGS AS POINT OF CONNECTION.

THE CONTRACTOR SHALL SUPPLY AND INSTALL THE WATER METER IN THE LOCATION SHOWN ON THE IRRIGATION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPE AND FITTINGS AND METHOD OF INSTALLATION TO SATISFY THE CODE REQUIREMENTS FOR INSTALLATION OF WATER METERS.

SPECIAL NOTES

VALVES AND IRRIGATION PIPING MAY BE SHOWN IN PAVED AREAS FOR CLARITY ONLY. PIPE SHOWN IN PAVED AREAS SHALL BE INSTALLED WITH SLEEVING SHALL BE PLACED IN THE ADJACENT LAWN OR PLANTING AREA.

JERRY TURNER & ASSOCIATES

LANDSCAPE ARCHITECTURE
LAND PLANNING
ENVIRONMENTAL DESIGN

905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
(919) 851-7150

82 S.E. 6TH AVENUE
DELRAY BEACH, FLORIDA 33483
(407) 276-0453

PROJECT
MACARONI AMERICAN GRILL
CARY, NORTH CAROLINA

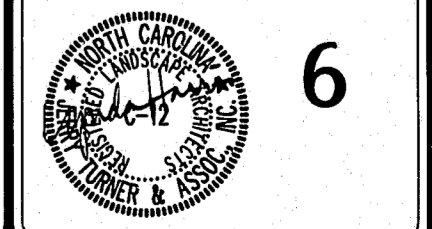
DEVELOPED BY:
BRINKER INTERNATIONAL
TUCKER, GEORGIA

REVISIONS
7/19/95 TRANS./DUMP. AREA

DRAWN	TC	CHECKED	LH
SCALE	1"=20'	DATE	7/5/95
TITLE	IRRIGATION PLAN		

IRRIGATION PLAN

FILE NO. 170 JOB NO. 2093.04
SEAL SHEET NO.



NOTES

- 1/2" MAIN & VALVES SHOWN IN PAVEMENTS FOR CLARITY ONLY. THEY SHALL BE INSTALLED IN LAWN AREAS & PLANTING AREAS IN DIRECTION AS SHOWN.
- CONTRACTOR RESPONSIBLE FOR INSTALLING MACARONI GRILL PLANTING & IRRIGATION. SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING CARY COMMONS IRRIGATION SYSTEM.
- CONTRACTOR TO COORDINATE INSTALLATION OF MACARONI PLANTING & IRRIGATION WITH CONSTRUCTION OF PARKING LOT.

