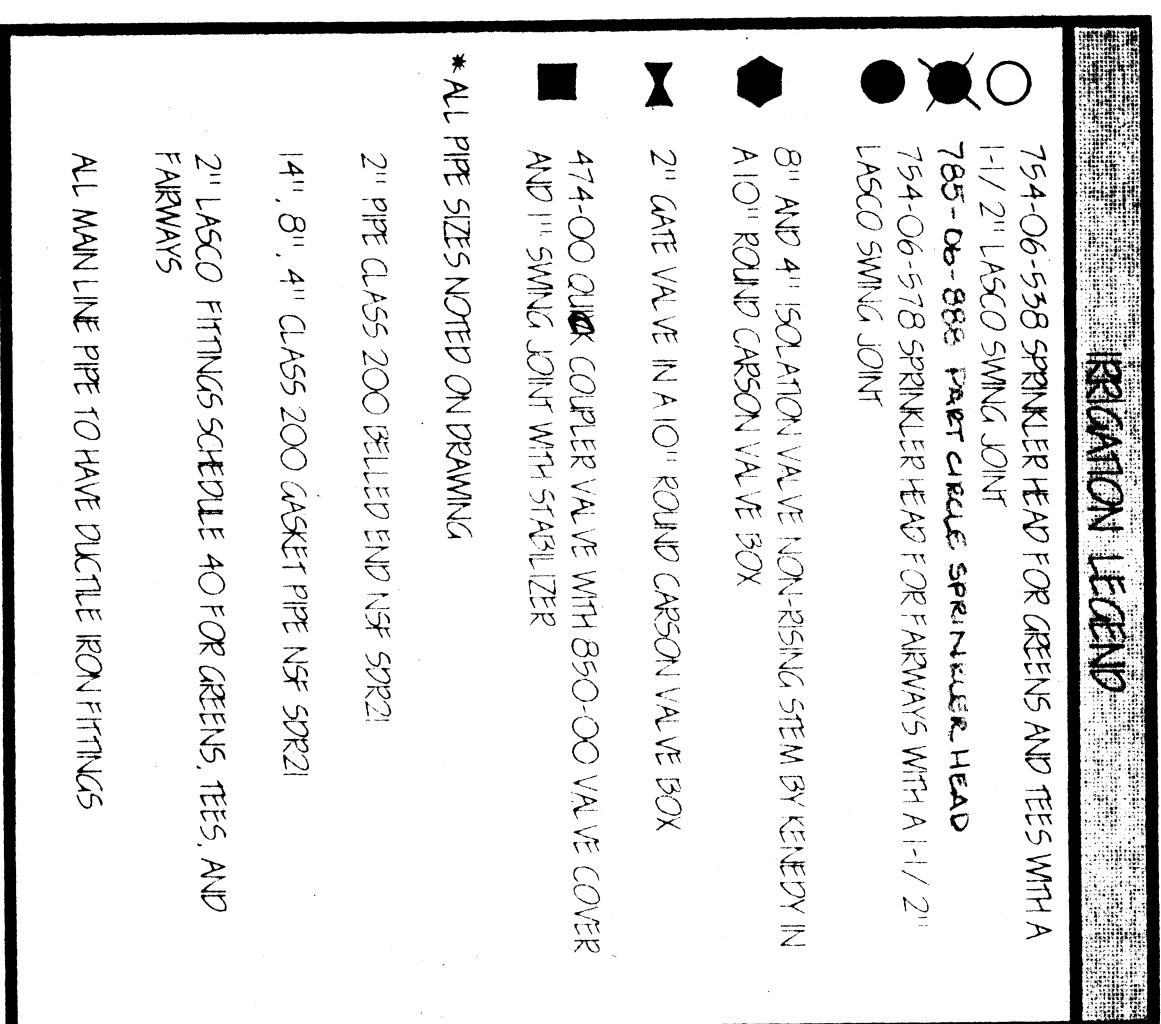


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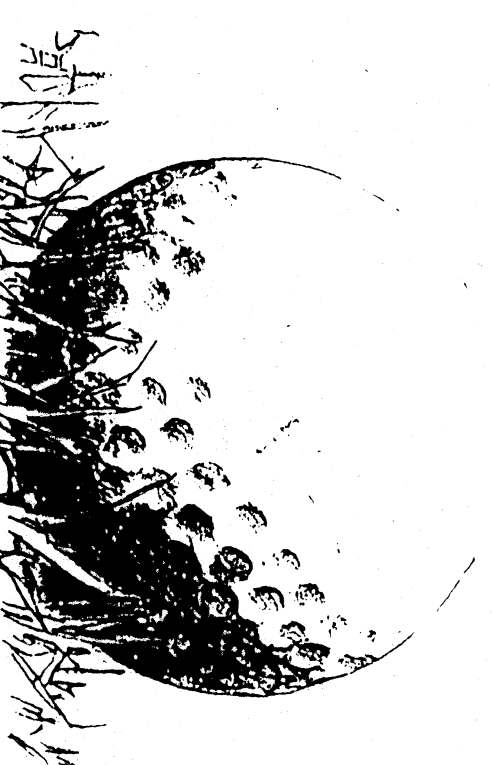
PROGRAMMING



MASSILLON, OHIO

PROGRAMMING LEAGUE

1. ALL: #14 & #12: NO COMMUNICATION (CORE FROM PZ2 ELECTRO)
2. FIELD SATELLITE STAY: BE 1072020ZGM
3. USE AM DIRECT (BRIEF, CONNECTIONS)
4. #12 TO SATELLITE (PZOME #14) (COMMON #12)
5. #12 TO HAVE INDIVIDUAL, HEAVY CONTROL
6. TESTS AND PARASITING AND REVERSE PARASITING
7. INDIVIDUAL #14 FROM #12 TO FIELD SATELLITE
8. HAVE COLOR CODE
9. GREEN FOR GREENS
10. RED FOR REDS
11. BLACK FOR PARASITS
12. WHITE FOR COMMON (#12)
17. ALL OTHER (DQ559505) MUST BE STEEL



PROGRAMMING

 LAWN SPRINKLER SYSTEM	DRAWN BY: <i>A. [signature]</i>	DESIGNED FOR: <i>NEW 1000 sq. ft. [illegible]</i>	DATE: <i>11/2/81</i>	BY:
	PLAN #: <i>503</i>			
	SCALE: <i>1" = 100'</i>			
	DESIGN PRESSURE:			
	STATIC PRESSURE:			

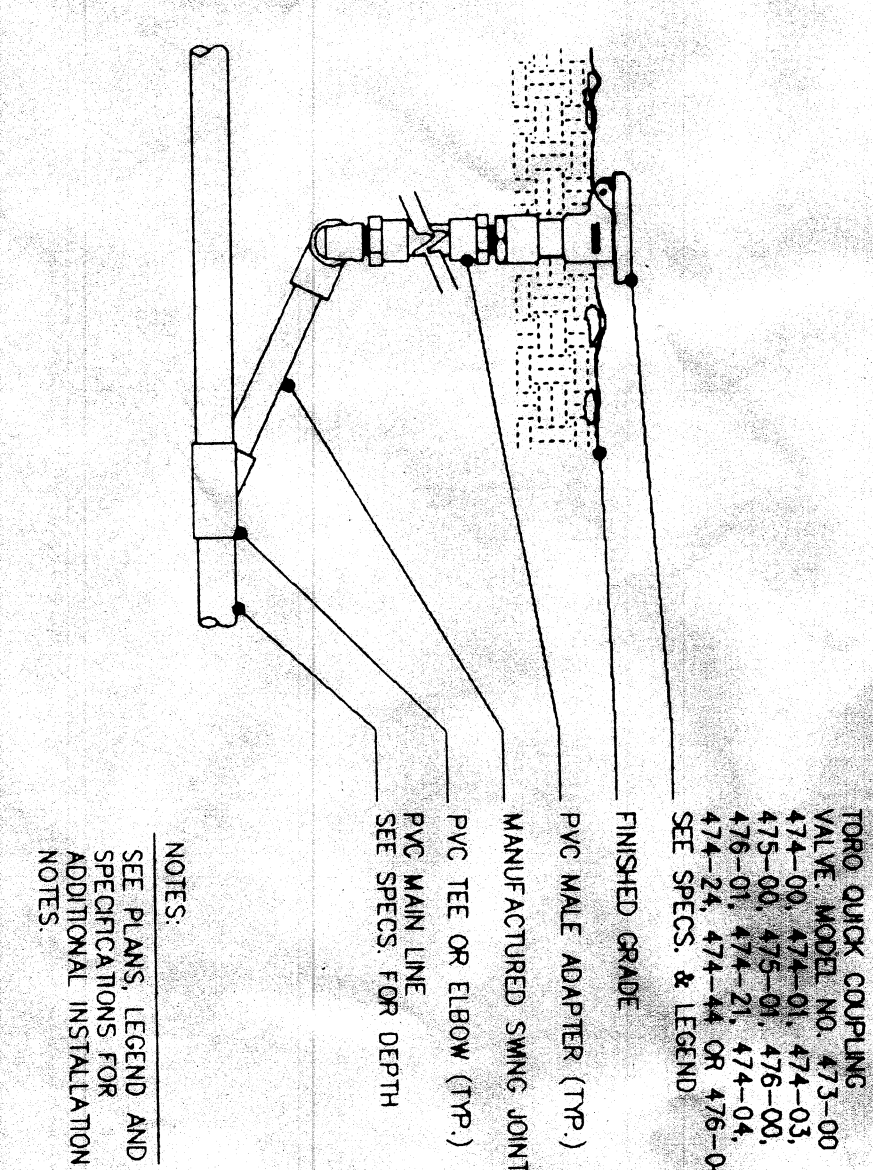
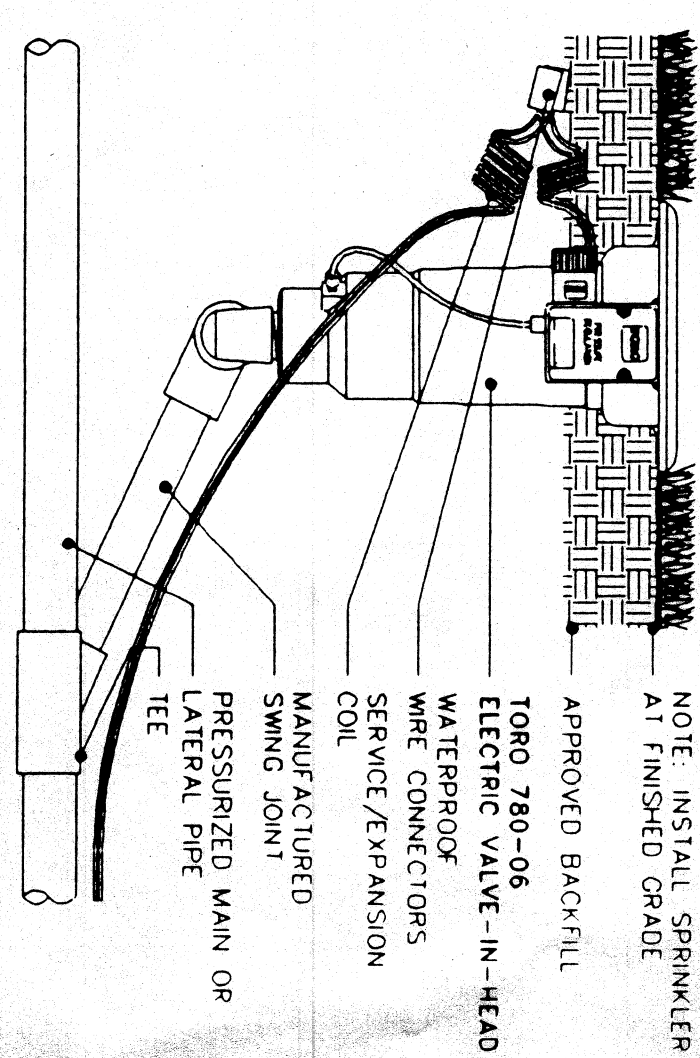
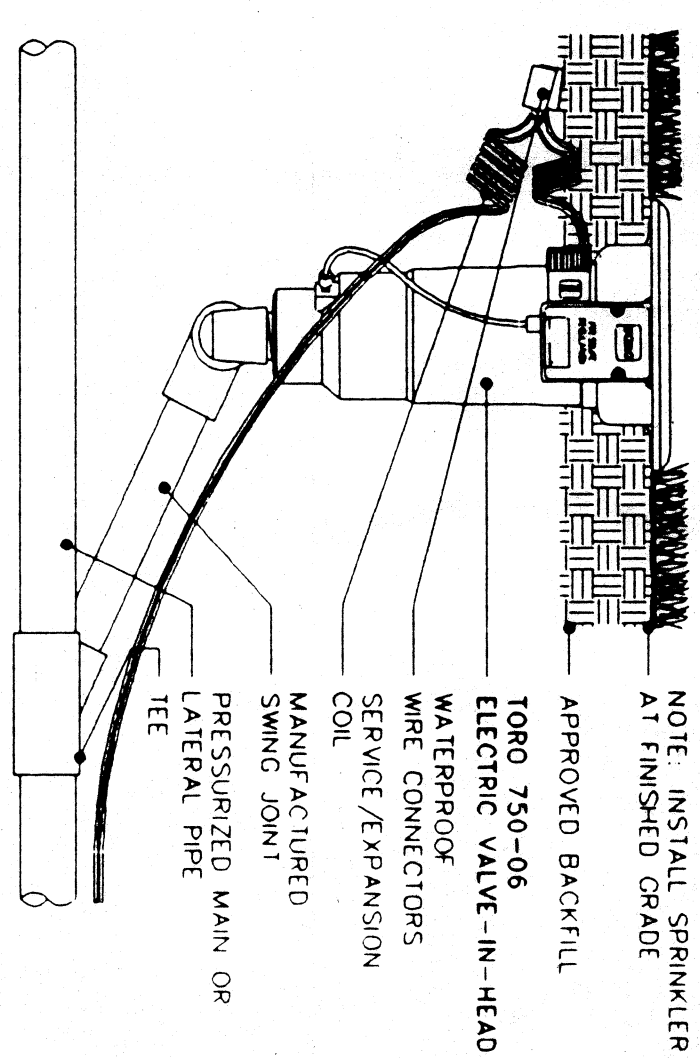
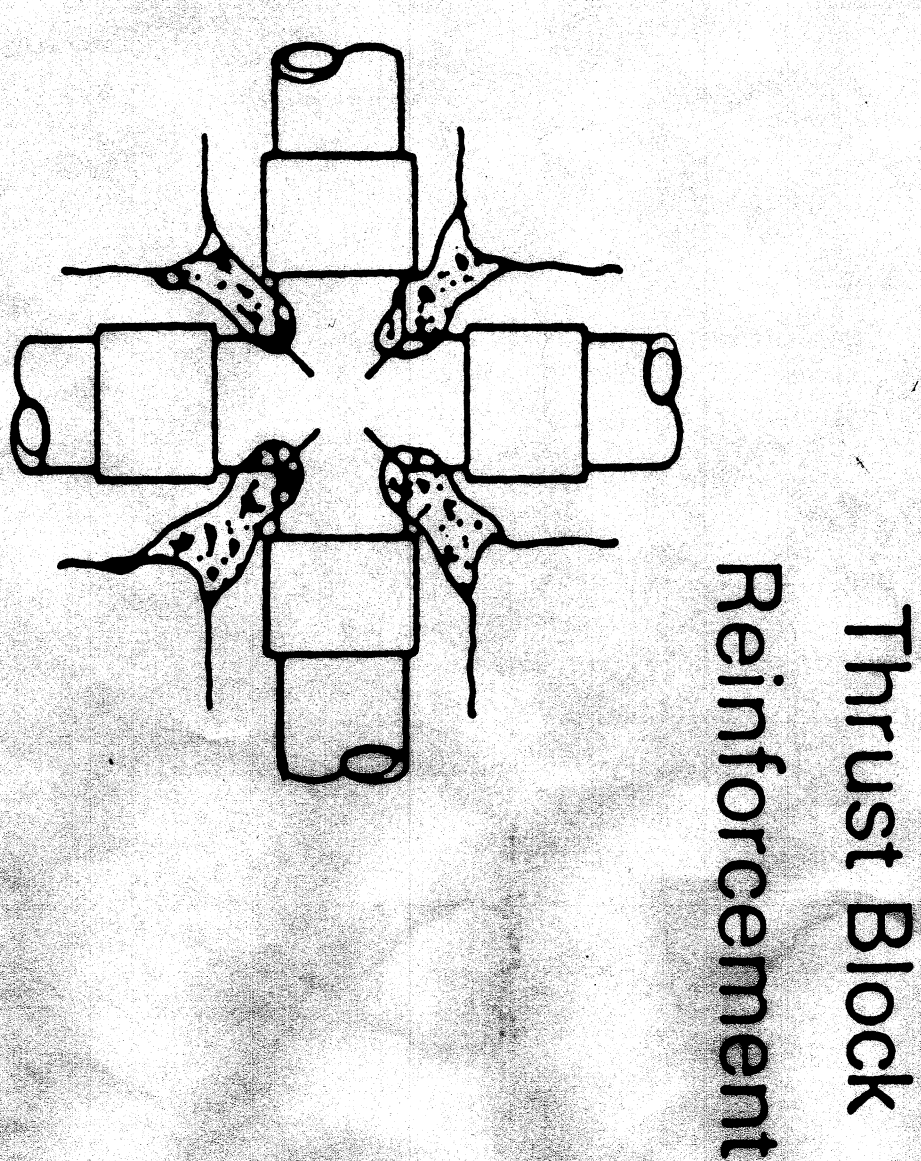
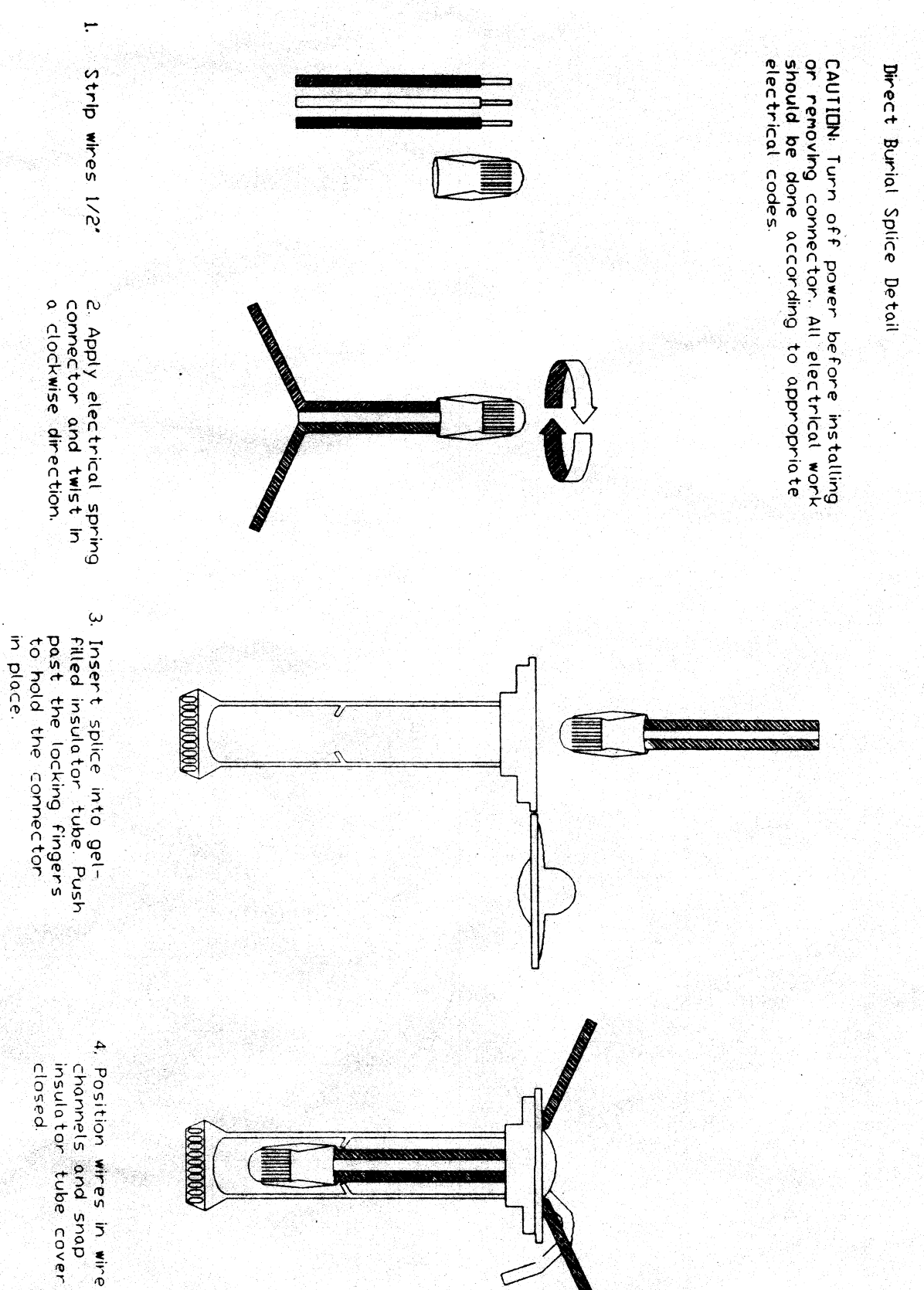
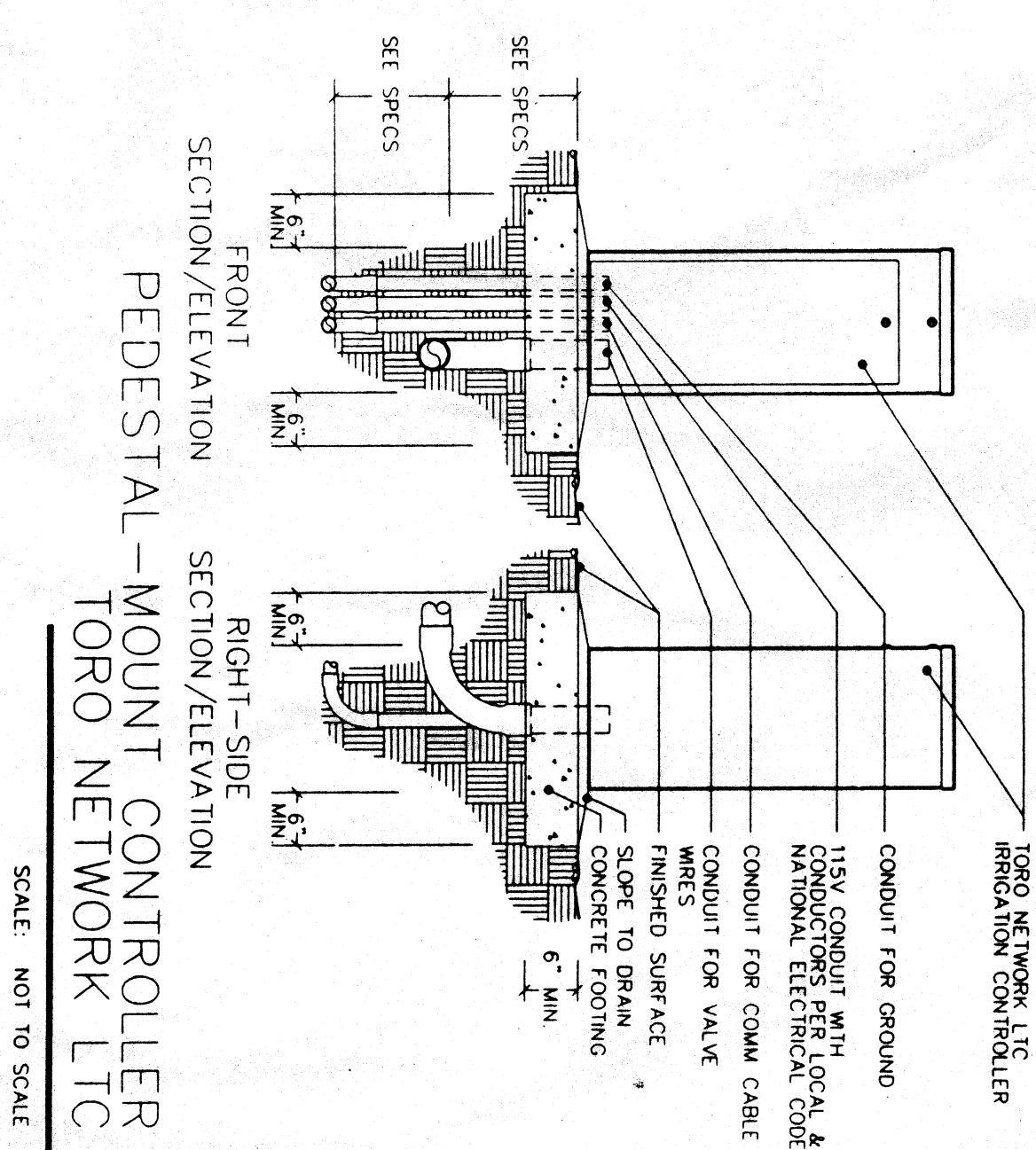
DESIGN DETAILS AND SPECIFICATIONS

1. THE IRRIGATION SYSTEM IS DIAGRAMATIC. ADJUSTMENTS WHICH ARE NECESSARY IN THE FIELD ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL WATER AND ELECTRICAL CONNECTIONS, WHICH SHALL BE MADE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES.
2. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, BACK-FILLING, WARRANTY, OPERATION SYSTEM START-UP, SHUT-DOWN, AND MARKING LOCATIONS OF VALVES, SPRINKLERS, ETC., WITH FLAGS.
3. THE CONTRACTOR HAS THE RESPONSIBILITY OF CHECKING AND OBTAINING THE NEEDED FEDERAL, STATE, AND LOCAL PERMITS REQUIRED PRIOR TO PROJECT GROUND BREAKING.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING OHIO UTILITIES PROTECTION TO MARK ALL EXISTING SERVICES RUNNING THROUGH JOB SITE.
5. CONTRACTOR MUST PROVIDE ONLY NEW MATERIALS, FREE OF DEFECTS OR FLAWS, OF THE HIGHEST QUALITY OF THEIR SPECIFIED CLASS AND KIND. THE CONTRACTOR IS REQUIRED TO SUPPLY OWNER WITH THE FINAL DRAWINGS OF TORO AUTOMATIC UNDERGROUND IRRIGATION SYSTEM (ONT) UPON PROJECT COMPLETION.
6. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING MATERIALS AS REQUIRED FOR MAIN TAP CONNECTION.
7. THIS SYSTEM WILL REQUIRE A QUICK COUPLER VALVE, KEY, AND MANUAL GATE VALVE FOR SYSTEM MAINTENANCE AND WINTERIZATION AT POINT OF CONNECTION.
8. FINAL IRRIGATION SYSTEM LAYOUT SHALL BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
12. AIR RELEASE VALVES NOTED ON DRAWING
13. ALL PIPE MUST BE ADEQUATELY THRUST BLOCKED BY THE CONTRACTOR
14. ALL PIPE MUST BE ADEQUATELY THRUST BLOCKED BY THE CONTRACTOR
14. ALL PIPE SHALL BE PVC, SCHEDULE 40, N.S.F. APPROVED.
15. ALL WIRE SHALL BE DIRECT BURIAL, UL, APPROVED-660 VOLTS.
16. ALL POWER WIRE FROM CONTROLLER TO TORO HEADS
17. #12 CROMWELL WIRE FROM CONTROLLER TO TORO HEADS
18. ALL WIRE CONNECTIONS SHALL BE WATERPROOF DIRECT BURIAL CONNECTIONS.
19. ALL MAINS SHALL BE INSTALLED 18 INCHES TO 24" IN DEPTH, BELOW FINISHED GRADE
20. ALL LATERALS SHALL BE INSTALLED 16 INCHES TO 18 INCHES IN DEPTH FINISHED GRADE.
21. MINOR ADJUSTMENTS IN SYSTEM LAYOUT WILL BE PERMITTED TO CLEAR OBSTRUCTIONS.
22. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONNECTIONS AT MAIN TAP.
23. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY SPRINKLER NECESSARY TO AVOID OBSTACLES OR INTERFERENCE IN THE FIELD DURING INSTALLATION.
24. THE CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF AND ALL UTILITY LINES AND STRUCTURES IN THE PROJECT AREA PRIOR TO ANY EXCAVATING OR DIGGING.
25. 3" AND LARGER FITTINGS SHALL BE DUCTILE IRON FITTINGS.
26. ALL 2" FITTINGS SHALL BE PVC, SCHEDULE 40, N.S.F.
27. USE 10" ROUND CARSON VALVE BOX FOR ALL VALVES.
28. USE 839-00 VALVE COVER ON ALL QUICK COUPLER VALVES.

27. (3) OIL OR ROD END CONTROLLER LOCATION WITH #6 BARE COPPER WIRE (10 OHMS OR LESS)
28. 3M DIRECT BURIAL CONNECTION FOR ALL WIRE SPLICES, PROPERLY SIZED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
29. PIPE SHALL BE CLASS 200 N.S.F. APPROVED, 2" & 2-1/2" TO BE BELLED END.
30. PIPE 3" AND LARGER GASKET N.F. SDN 21 N.S.F. APPROVED.
31. WIRE - 1/4" APPROVED, N.S.F. FROM PLAGE ELECTRIC
32. 1/4" AWG POWER WIRE FROM HEADS TO FIELD SATELLITE INDIVIDUAL HEADS
33. CONTROL
34. #12 AWG COMMON WIRE FROM HEADS TO FIELD SATELLITE
35. GREEN WIRE - COLOR GREEN
36. TEEL WIRE - COLOR RED
37. FAIRWAY WIRE - COLOR BLACK
38. ALL COMMON WIRE - COLOR WHITE
39. 2" TORO #6-40 QUICK COUPLER KEY AND 1 INCH BY 1 INCH HOSE SWIVEL
40. CONTRACTOR SHALL OBTAIN REQUIRED BUILDING PERMITS FOR THE PUMP HOUSE ENCLOSURE FROM THE ERIE COUNTY DEPARTMENT OF BUILDING REGULATIONS
41. ALL CREEK CROSSINGS SHALL BE STEEL PIPE

SPECIAL NOTE:

THIS SYSTEM DESIGN AND PRODUCTS ARE INTENDED TO BE INSTALLED AS SPECIFIED ON DRAWING. NO REVISIONS OR SUBSTITUTIONS WILL BE PERMITTED UNLESS PROPELY AUTHORIZED PRIOR TO PROJECT BIDDING. CONTRACTOR WILL BACKFILL AND ROUGH GRADE ALL DISTURBED AREAS. OWNER SHALL FINE GRADE AND SEED.



LARGE TURF GEARED ROTOR
FULL-CIRCLE TORO 750

SCALE: NOT TO SCALE

**LARGE TURF GEARED ROTOR
FULL/PART-CIRCLE TORO 780**

3/4", 1" & 1-1/2" QUICK COUPLING VALVE
TORO 274, 275 & 276 SERIES