

REVISIONS NO. | DATE | DESCRIPTION

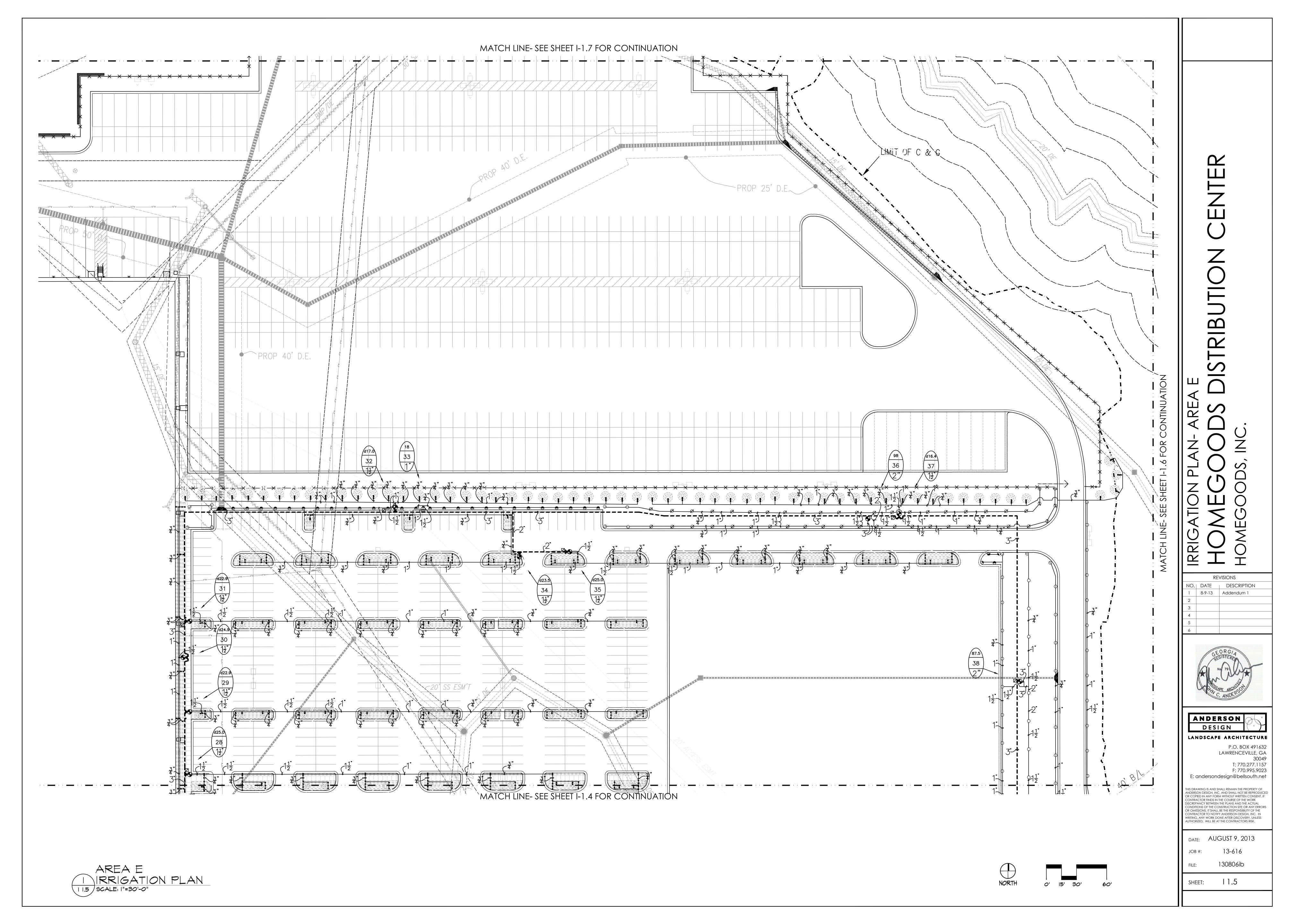
ANDERSON DESIGN LANDSCAPE ARCHITECTURE

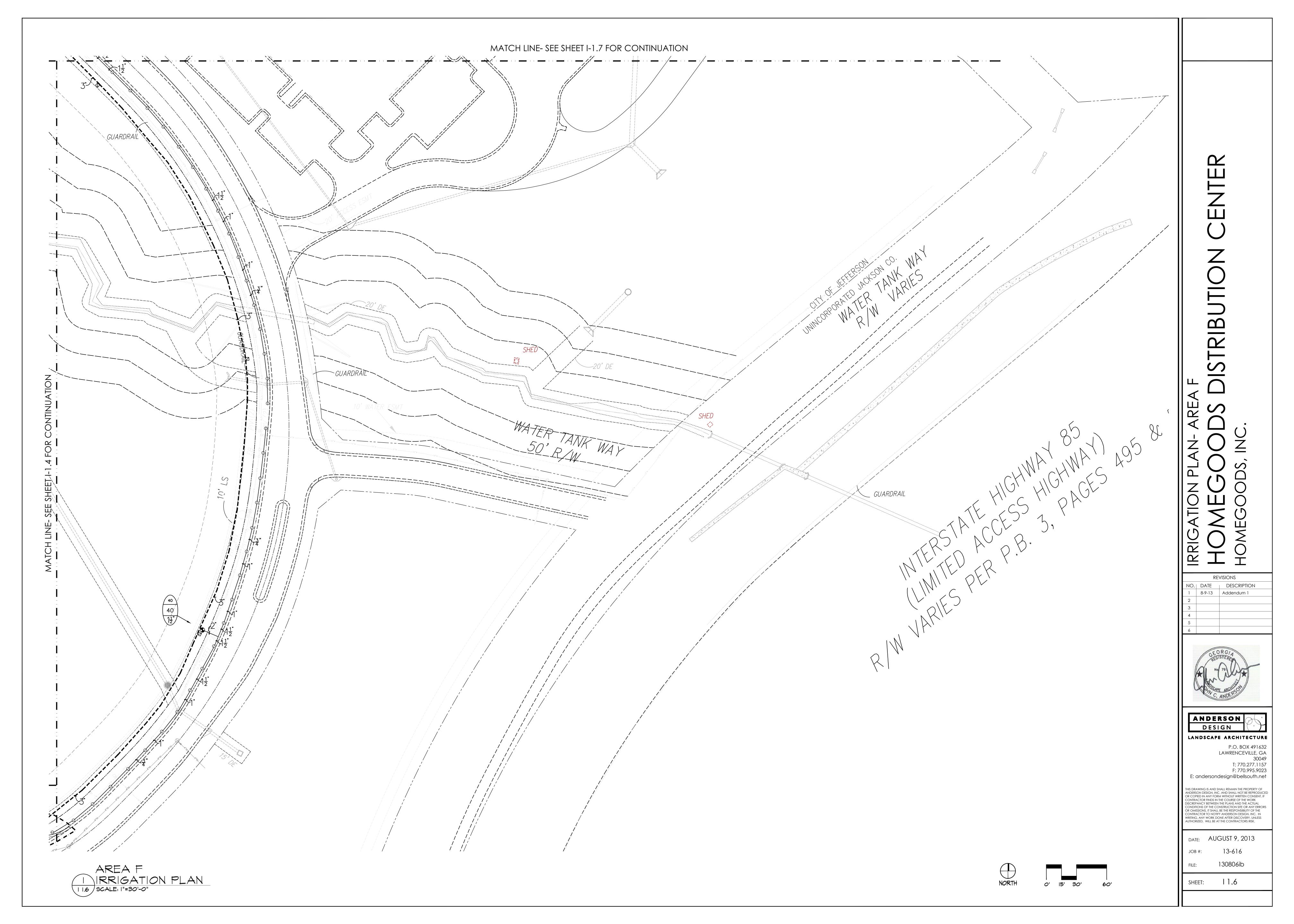
P.O. BOX 491632 LAWRENCEVILLE, GA T: 770.277.1157 F: 770.995.9023

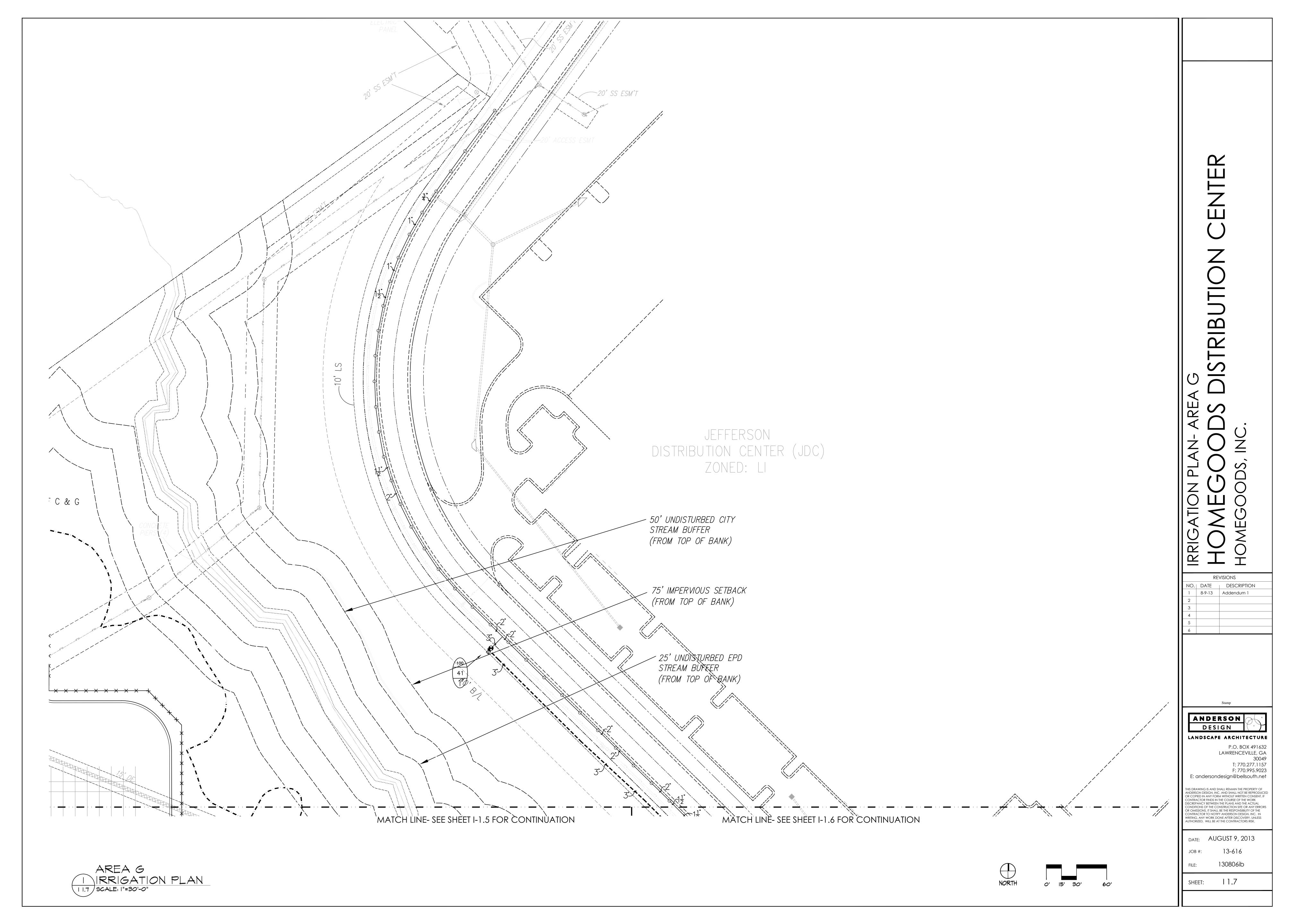
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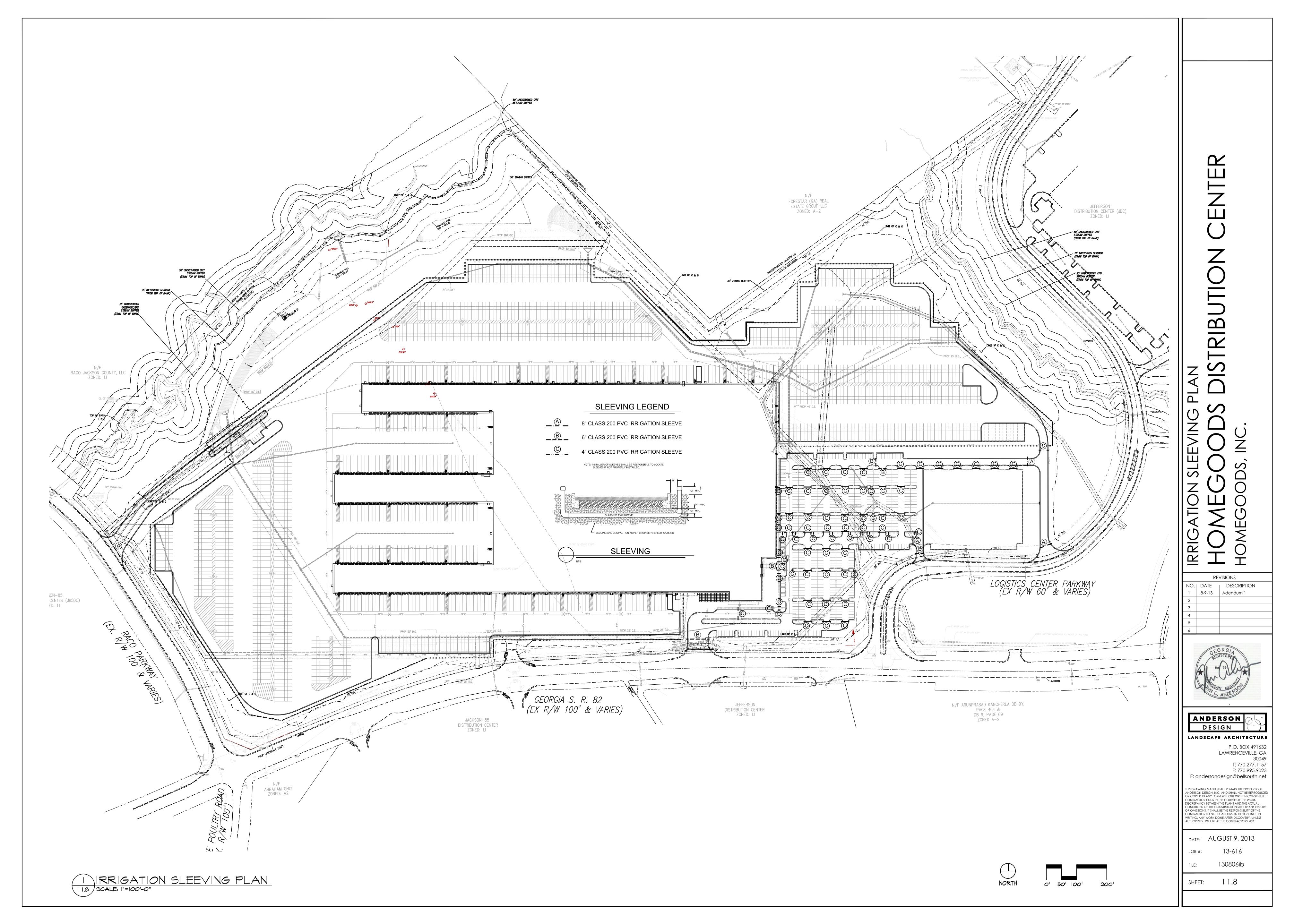
DATE: AUGUST 9, 2013 13-616 JOB #: 130806ib

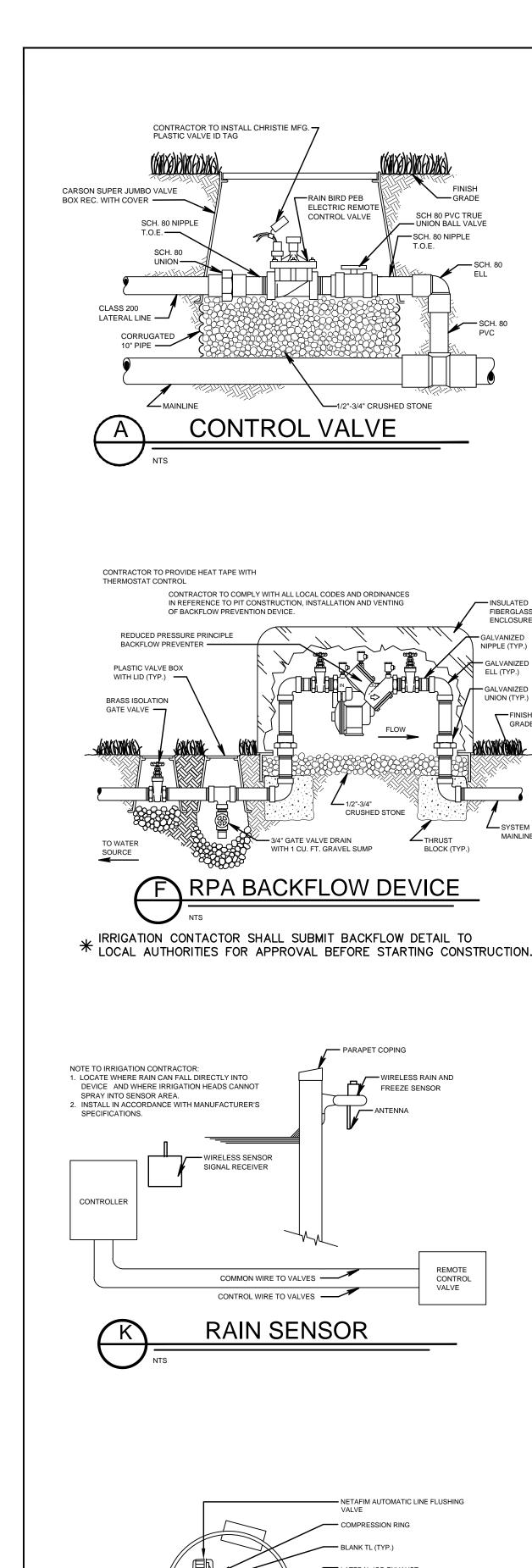
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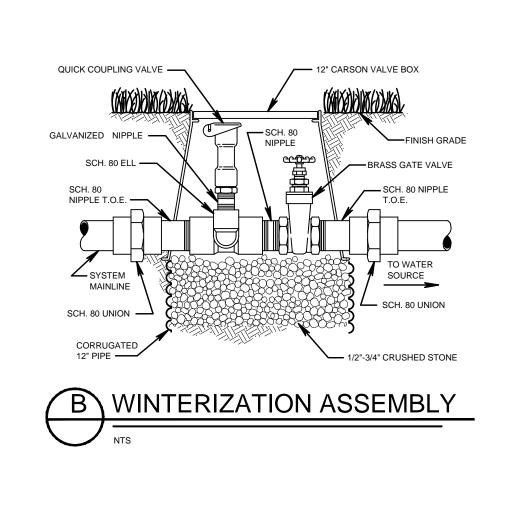












STRIP WIRES APPROXIMATELY 1/2" FROM ENDS

TWIST WIRE NUT ONTO WIRE ENDS.

WIRE CONNECTION

CONTRACTOR TO INSTALL CHRISTIE MFG. 7

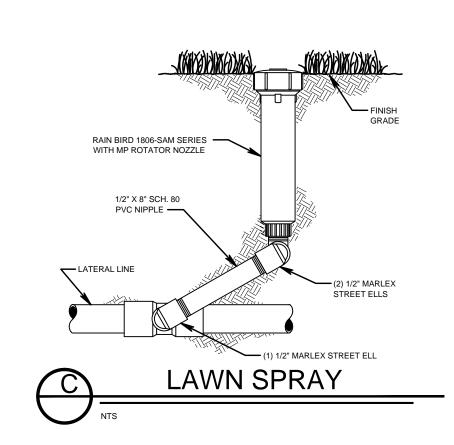
PSI-M40X-100 PRESSURE REGULATOR

RAIN BIRD XCZ-100-PRB-COM DRIP CONTROL
ZONE KIT WITH 100 PESB VALVE, QKCHK100
BASKET FILTER AND PSI-M40X-100 PRESSURE

SUPER JUMBO VALVE BOX

PUSH WIRE NUT

INTO CONNECTOR



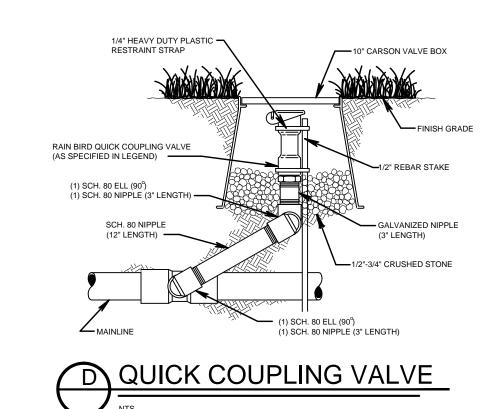
INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE

PIPE MUST EXTEND 6" BELOW

BEDDING AND COMPACTION AS PER ENGINEER'S SPECIFICATIONS

FLOURESCENT PURPLE

SLEEVES IF NOT PROPERLY INSTALLED.



TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.

ALL MAIN SUPPLY LINES

TO BE INSTALLED IN

MANUFACTURER'S INSTAL

TRENCHING

COMPLETED.

MAIN SUPPLY, LATERAL

AND LOW-VOLTAGE WIRING

TUBING OR WIRING

AT 20' INTERVALS.

PVC SUPPLY HEADER TOP OF SLOPE

PLUS 25% ON BOTTOM 1/3

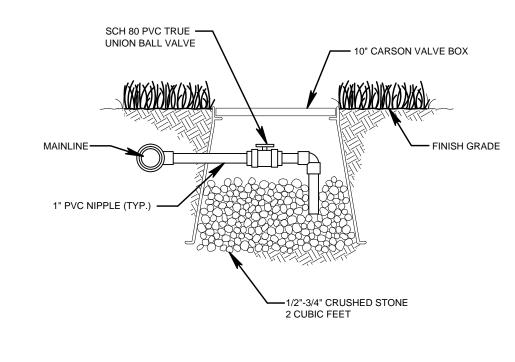
NETAFIM AUTOMATIC AIR/VACUUM RELIEF ASSEMBLY

LINE FLUSHING VALVE ASSEMBLY

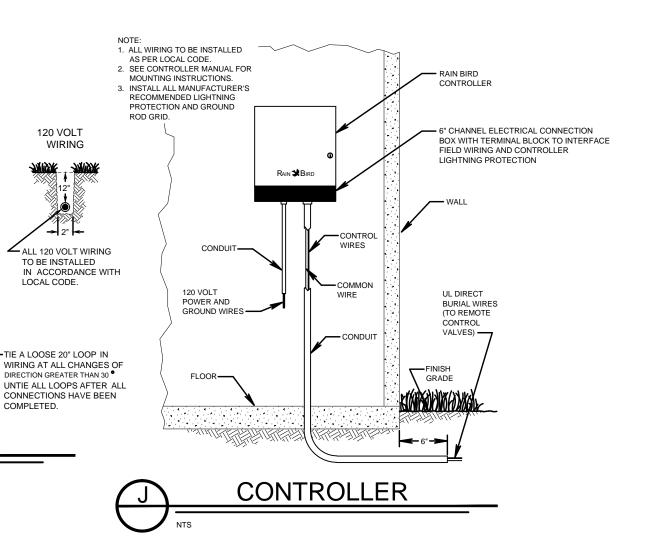
TOE OF SLOPE -

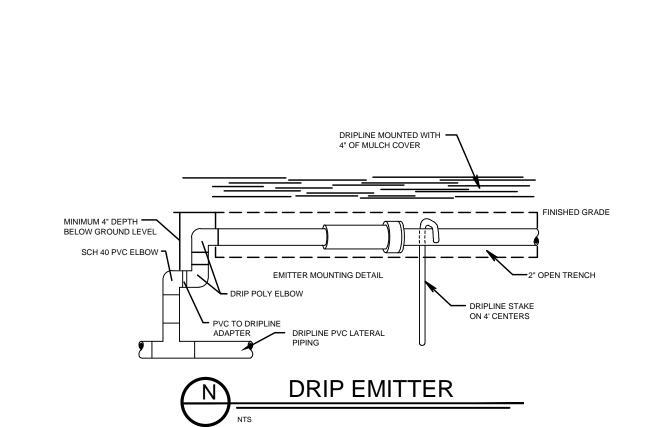
REMOTE CONTROL VALVE

PVC EXHAUST HEADER









IRRIGATION LEGEND

1-1/2" WATER METER, SYSTEM REQUIRES 50 GPM @ 65 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.

MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E. WATTS #909-M1-QT-2", 2" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER. DETAIL-F.

WINTERIZATION ASSEMBLY. DETAIL-B.

QUARTER-0.5 GPM, 40 PSI, DETAIL-C.

RAIN BIRD ESP-48-LXME CONTROLLER: 48 STATION, MODULAR CONTROLLER, FOUR PROGRAMS, WALL MOUNTED. DETAIL-J IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS MINII CLIK II RAIN SENSOR AND A FREEZE-CLIK DEVICE.

RAIN BIRD 150-PEB-PRS OR 200-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" OR 2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.

RAIN BIRD 100-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, DETAIL-A.

HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD-

1806 SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C. HUNTER INDUSTRIES. MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD-

1806 SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM,

HUNTER INDUSTRIES. MP ROTATOR SERIES 1000, MOUNTED ON RAIN BIRD-1806 SPRINKLER IN LAWN, 12-14' RADIUS, FULL-1.0 GPM, HALF-0.5 GPM, QUARTER-0.25 GPM, 40 PSI, DETAIL-C.

HUNTER INDUSTRIES MP ROTATOR SERIES (SIDE STRIP), MOUNTED ON RAIN BIRD 1806 SPRINKLER IN LAWN, 5'x30' RADIUS, 1.0 GPM, 40 PSI, DETAIL-C.

HUNTER INDUSTRIES MP ROTATOR SERIES (END STRIP), MOUNTED ON RAIN BIRD 1806 SPRINKLER IN LAWN, 5'x15' RADIUS, 0.5 GPM, 40 PSI, DETAIL-C.

RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-D.

MAINLINE ISOLATION GATE VALVE, DOMESTIC DUCTILE IRON GASKETED, DETAIL-R.

POINT OF CONNECTION - DRIP LINE TUBING TO PVC PIPE, DETAIL-M,N.

RAIN BIRD DRIP ZONE ASSEMBLY KIT, MODEL #XCZ-100-PRB-COM 0R XCZ-150-PRB-COM. 1" OR 1-1/2" SIZE, SIZE NOTED ON PLANS. DETAIL-L.

DRIP TUBING: RAIN BIRD XFS DRIPLINE DRIP TUBING, .6 GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4', INSTALL NETAFIM AIR RELIEF VALVE KIT IN 10" CIRCULAR VALVE BOX AT HIGH POINT OF EACH ZONE AND INSTALL NETAFIM DRIP DRAIN VALVE(S) IN 10" CIRCULAR VALVE BOX AT LOW POINT(S) OF EACH ZONE. DETAIL-M,N,O,P,Q.

TREE RING DRIP TUBING: RAIN BIRD XFS DRIPLINE DRIP TUBING, .6 GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4', INSTALL NETAFIM AIR RELIEF VALVE KIT IN 10" CIRCULAR VALVE BOX AT HIGH POINT OF EACH ZONE AND INSTALL NETAFIM DRIP DRAIN VALVE(S) IN 10" CIRCULAR VALVE BOX AT LOW POINT(S) OF EACH ZONE. DETAIL-M,N,O,P,Q.

AIR VENT VALVE, BERMAD #4420, 2" SIZE. INSTALLED AT HIGH POINTS OF THE IRRIGATION SYSTEM. 2 TOTAL FOR SYSTEM. TO BE INSTALLED ON MAINLINE HIGH POINTS (LOCATIONS SHOWN ON PLANS ARE FOR REFERENCE PURPOSES

MAINLINE PIPE: 3" SIZE IF NOT NOTED. CLASS 200 PVC. ALL PIPE 2-1/2" AND LARGER SHALL BE UNIBELL GASKETED PVC PIPE AND HARCO PVC GASKETED FITTINGS. THRUST BLOCK AS PER MANUFACTURER'S RECOMMENDATIONS FOR PIPE TYPE, PIPE SIZE, AND LOCAL ENVIRONMENTAL CONDITIONS.

IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.

LATERAL LINE PIPE: CLASS 200 PVC, SIZE NOTED.

1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.

2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.

3. ALL WIRE WILL BE COLOR CODED DIRECT BURIAL UL/UF WIRE: COMMON (WHITE) #12-1, CONTROL (RED) #14-1.

4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC

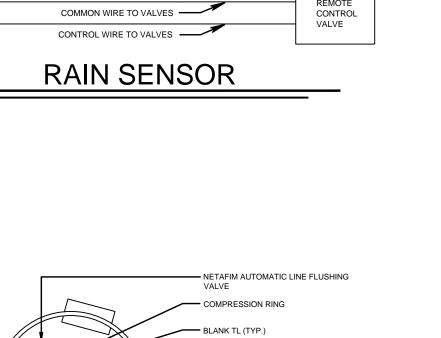
TYPICAL VALVE INDICATOR

GALLONS PER MIN. STATION NUMBER

GENERAL NOTES

- 1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE). 2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER.
- 3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN
- BACKFILLING OF TRENCH.
- 5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID
- 6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
- 10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A
- CONNECTIONS.
- REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
- FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER. 13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO
- BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES. 14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER
- PLANTING, i.e. VERIFY ROOT BALL SIZE FOR PLANTING. 15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
- 18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES. 19. 24 VOLT WIRE SHALL BE COLOR CODED; COMMON-WHITE, CONTROL-RED.
- 20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED (2) 5/8" COPPER CLAD GROUND RODS.

- 23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER: A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
- B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS. C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS. 24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
- 25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
- 26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS. 27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM
- PLANS AND SPECIFICATIONS. 28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL
- 29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF
- SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY. 30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR
- SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE. 31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
- A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE 32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).



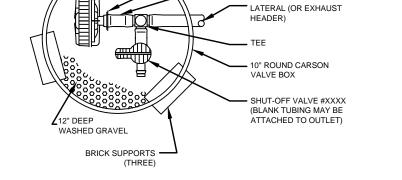
PARAPET COPING

FREEZE SENSOR

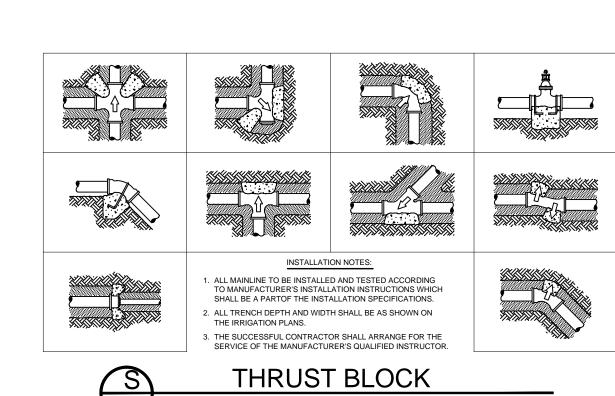
SCH 80 PVC TRUE

SCH. 80 NIPPLE

- UNION BALL VALVE







NETAFIM AUTOMATIC AIR / VACUUM

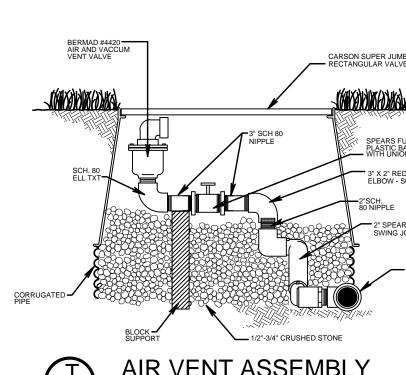
REDUCTION BUSHING

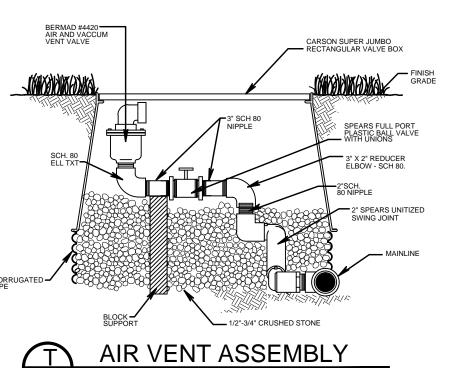
3/4" PVC COUPLING (TxT) -

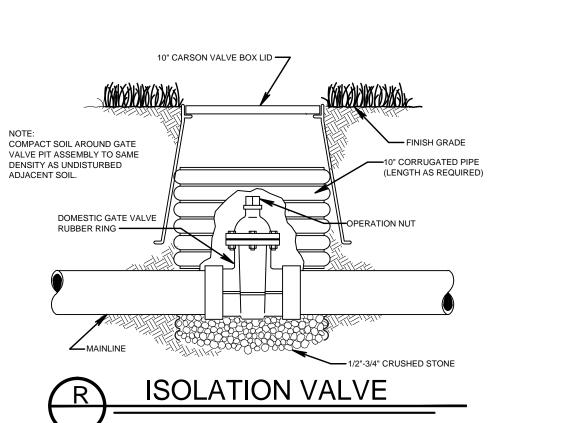
3/4" SCH 80 RISER (LENGTH AS ____

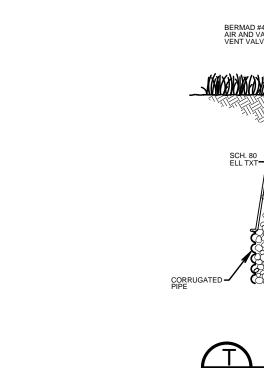
BRICK SUPPORTS (THREE) -

WASHED GRAVEL









(CLASS 200 PVC PIPE).

ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.

7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.

SHOWN ON DETAILS. 9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.

8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS

VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR 11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE

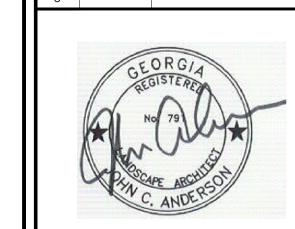
12. ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL

EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER

16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR. 17. ALL SPRINKLERS TO BE MOUNTED ON SWING JOINTS - REFER TO DETAILS.

GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH 21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON

FAULT GROUND AND LIGHTNING PROTECTION. 22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS



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11.9 SHEET: