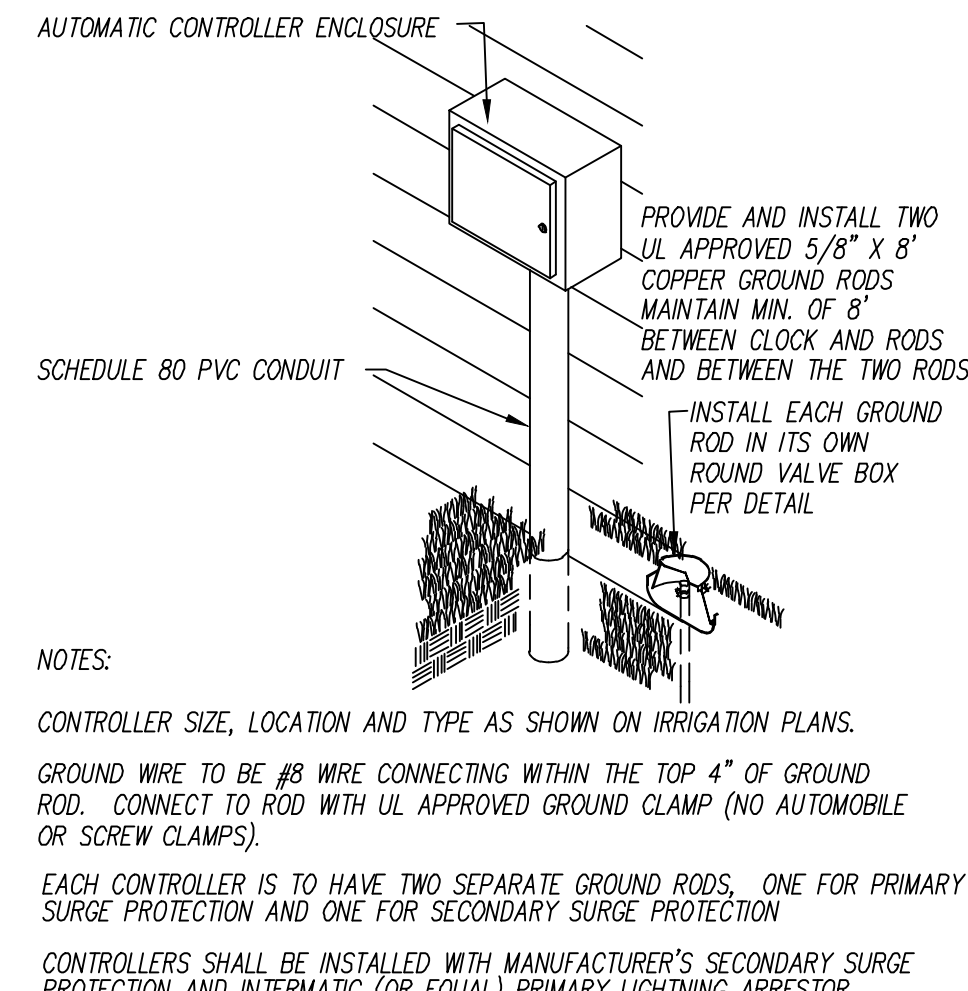
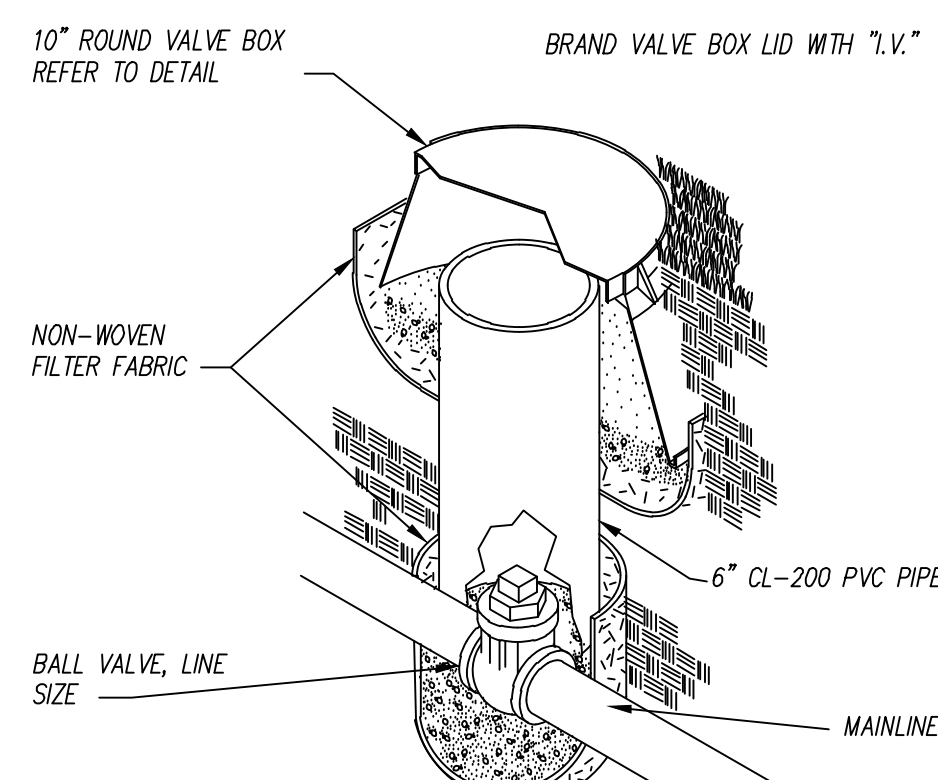


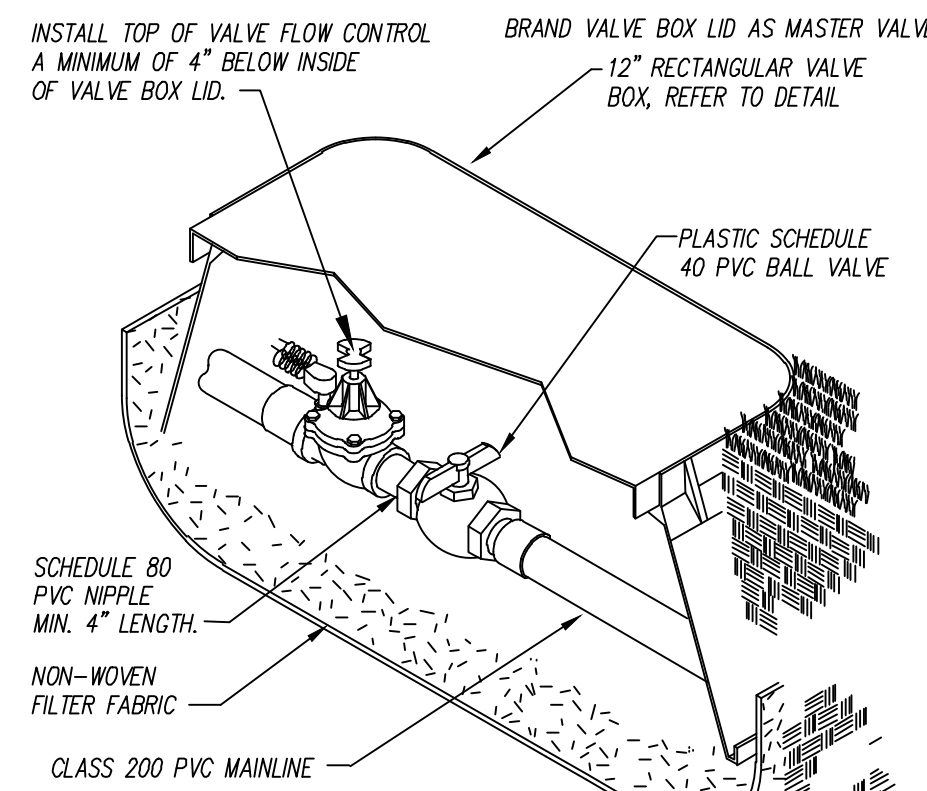
POINT OF CONNECTION, WATER METER AND BACKFLOW PREVENTER ARE PROVIDED AND INSTALLED BY OTHERS AND ARE NOT PART OF THE SCOPE OF THE IRRIGATION SYSTEM.



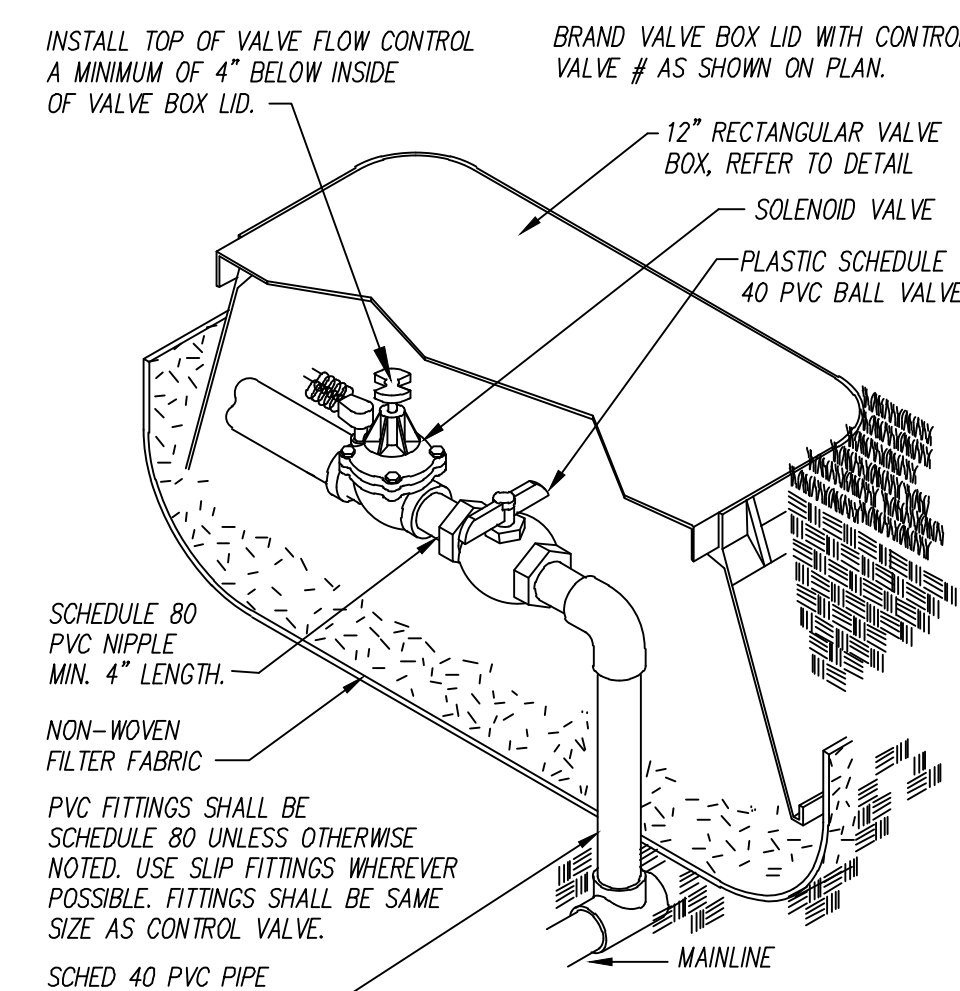
1 POINT OF CONNECTION
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



2 CONTROLLER DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



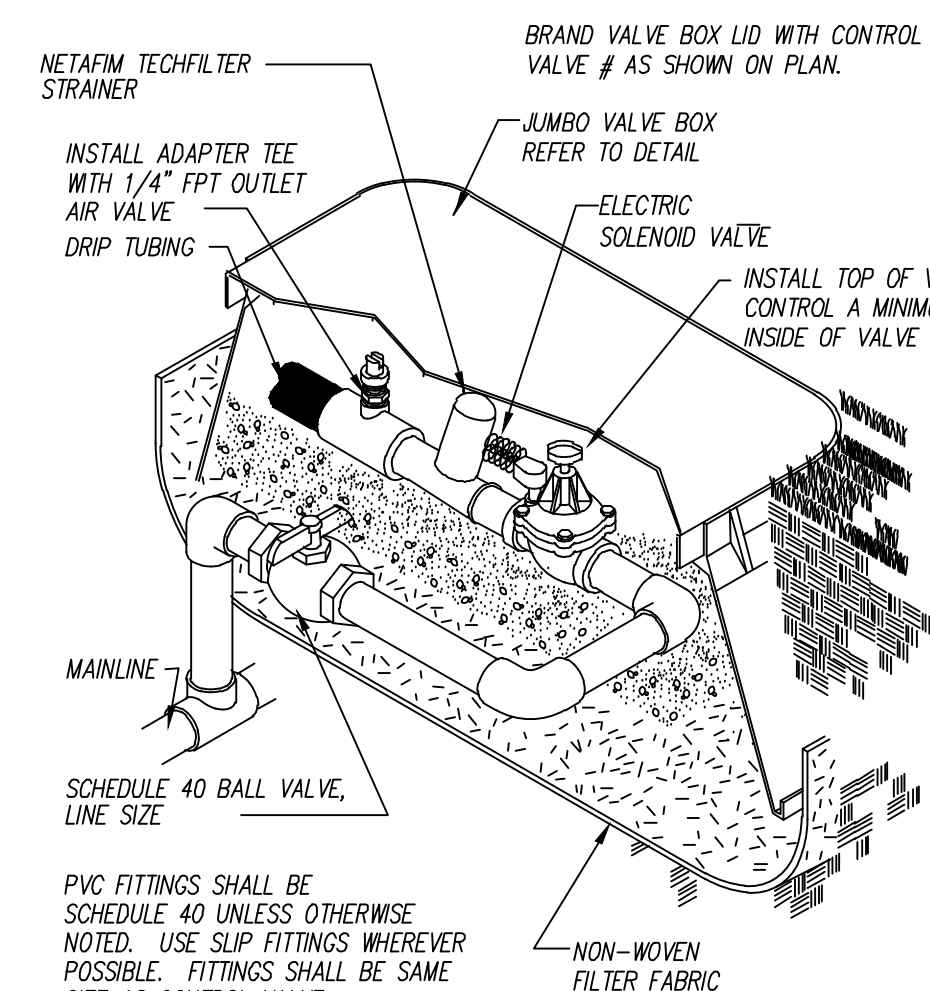
3 ISOLATION VALVE DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



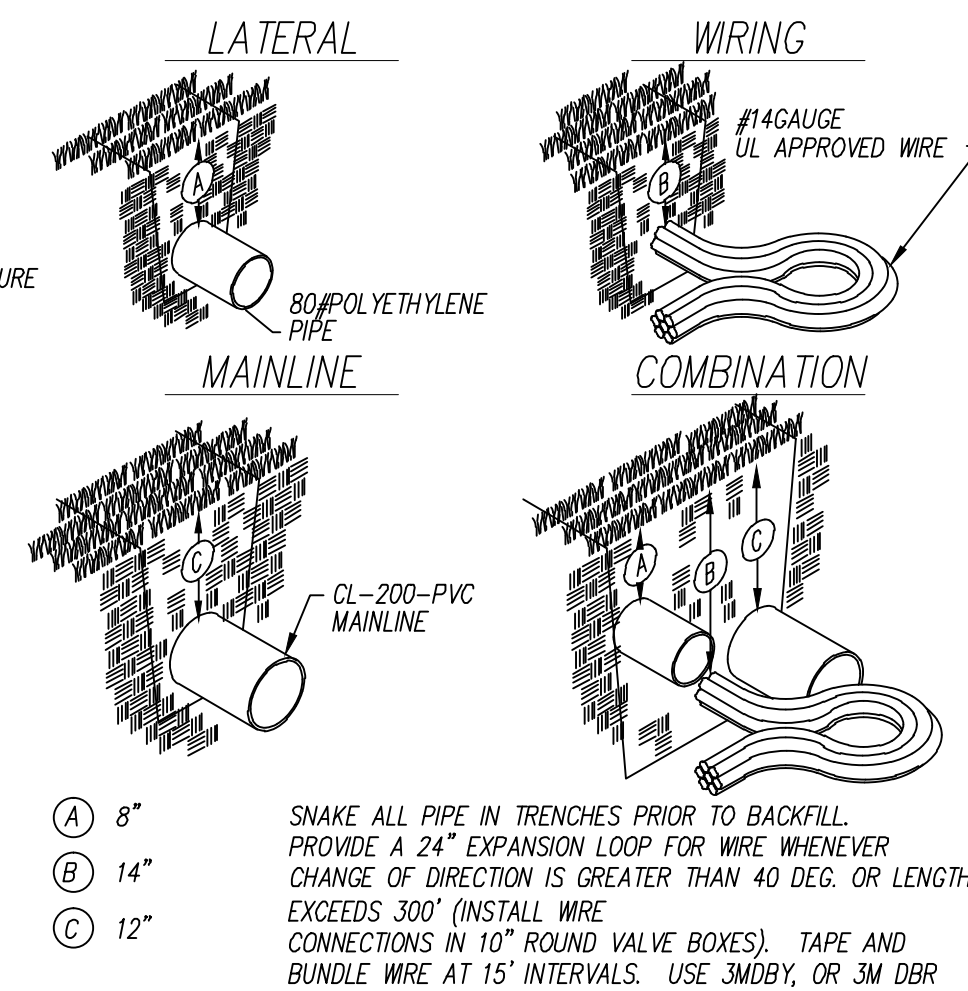
4 MASTER VALVE DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE

NOTES

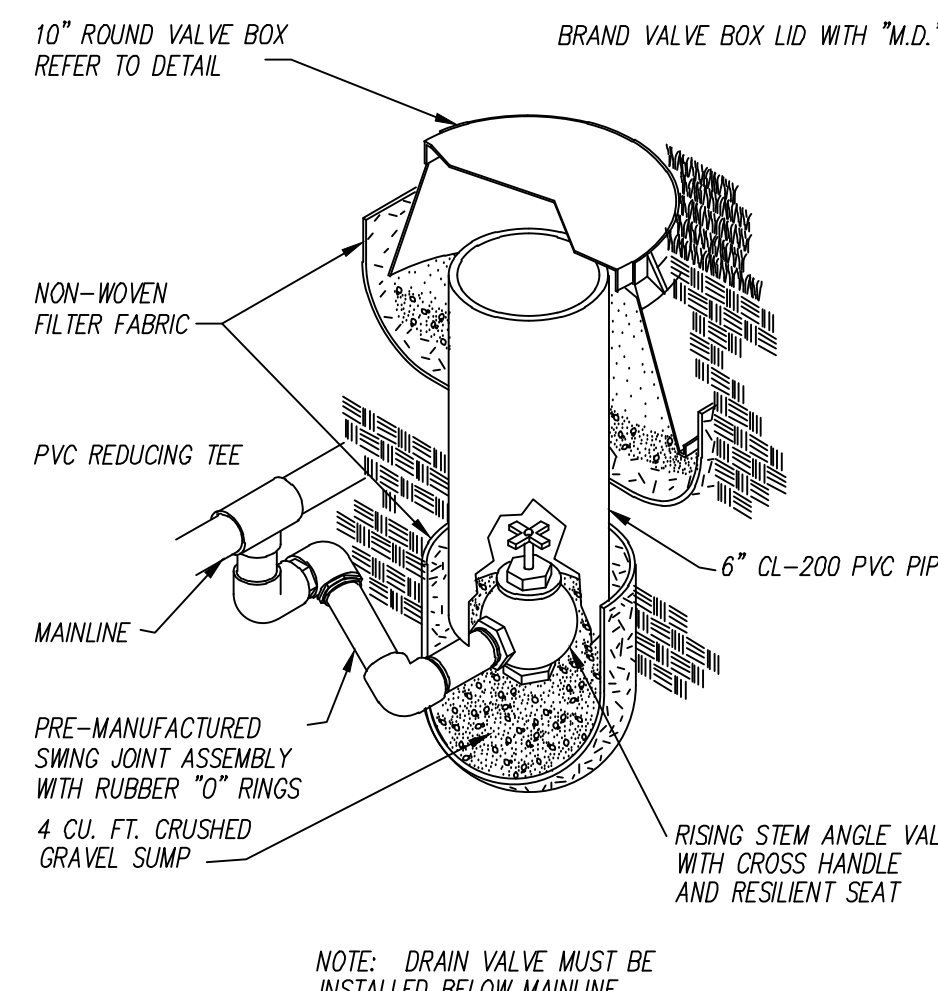
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, AND SALES TAXES APPLICABLE TO THIS PROJECT.
- ALL TRENCHES TO BE PUDDLED AND COMPACTED TO THE SAME DENSITY AS THE UNDISTURBED ADJACENT SOIL. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND UTILITIES CAUSED BY EXECUTION OF CONTRACT.
- CONTRACTOR SHALL REFER TO AND COORDINATE IRRIGATION SYSTEM INSTALLATION WITH LANDSCAPE PLANS & EXISTING LANDSCAPE.
- DESIGN IS BASED ON A MINIMUM AREA WATER PRESSURE OF 75 PSI AT POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE AND NOTIFY WATER SCAPE, INC. OF SUBSTANTIAL VARIATION (+/- 5 PSI) PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. FAILURE TO NOTIFY WATER SCAPE, INC. WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY PRESSURE CHANGES TO THE IRRIGATION SYSTEM.
- ALL IRRIGATION HEADS MUST BE ADJUSTED TO PROVIDE PROPER COVERAGE AND MINIMIZE OVERSPRAY. CONTRACTOR MUST HAVE HEADS PROPERLY ADJUSTED BEFORE FINAL INSPECTION.
- THIS DESIGN IS DIAGRAMMATIC, ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DRAWING CLARIFICATION ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREA AS NECESSARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- MAINLINE AND CONTROL VALVES SHALL NOT BE INSTALLED AT LOW POINTS OF EXISTING SLOPES.
- CONTRACTOR SHALL INCLUDE COPIES OF DRAWING NOTES AND OPERATING INSTRUCTIONS IN OPERATING & MAINTENANCE MANUAL.
- CONTRACTOR IS TO USE A BRANDING IRON TYPE OF TOOL TO IMPRINT VALVE BOX LIDS WITH NUMBERS (CHARACTERS TO BE 2" IN HEIGHT). USE NUMBERING SYSTEM AS INDICATED ON PLANS.
- CONTRACTOR SHALL PROVIDE AND INSTALL RAIN AND FREEZE SENSORS IN VANDAL RESISTANT ENCLOSURE FOR EACH CONTROLLER. INSTALL BYPASS SWITCHES FOR ALL RAIN SENSORS. SENSORS AND OTHER ACCESSORIES SHALL BE HUNTER MINI-CLIK.
- INSTALL TWO EXTRA CONTROL WIRES FROM EACH CONTROLLER ALONG ENTIRE LENGTH OF IRRIGATION MAINLINE WITH VALVES OPERATED BY THAT ZONE.



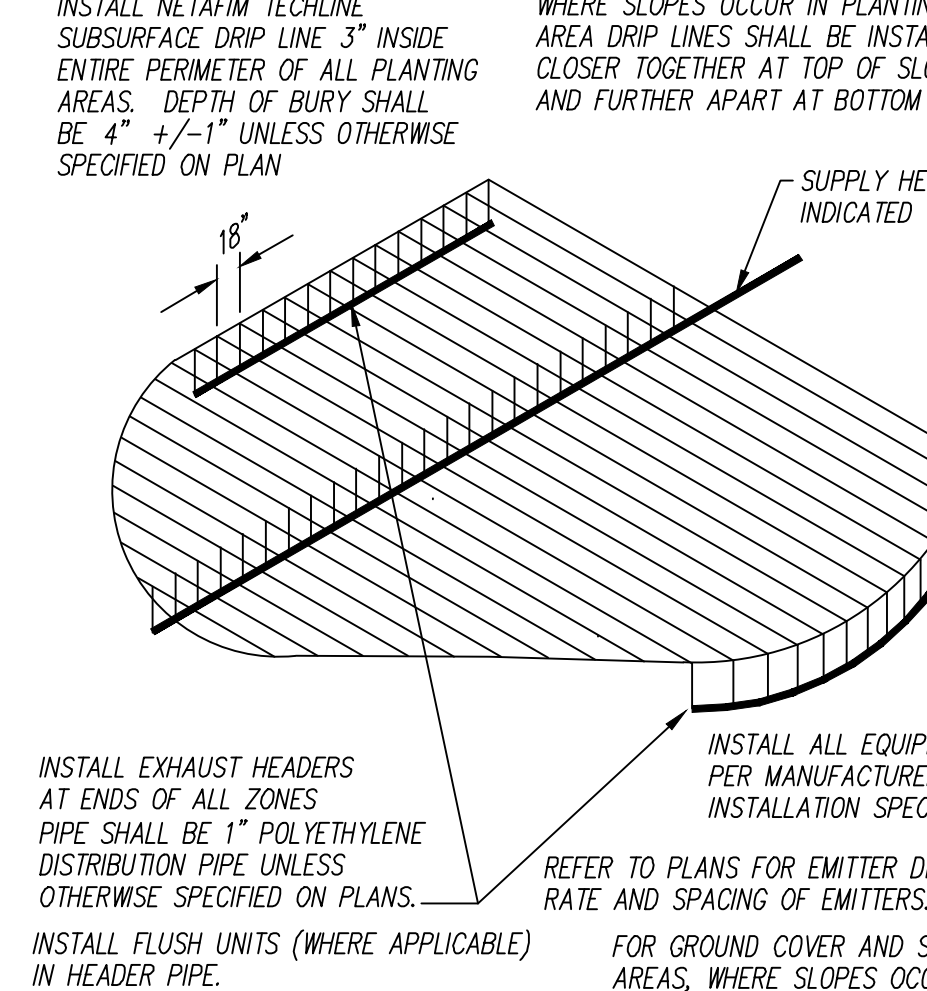
5 SUBSURFACE ZONE VALVE DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



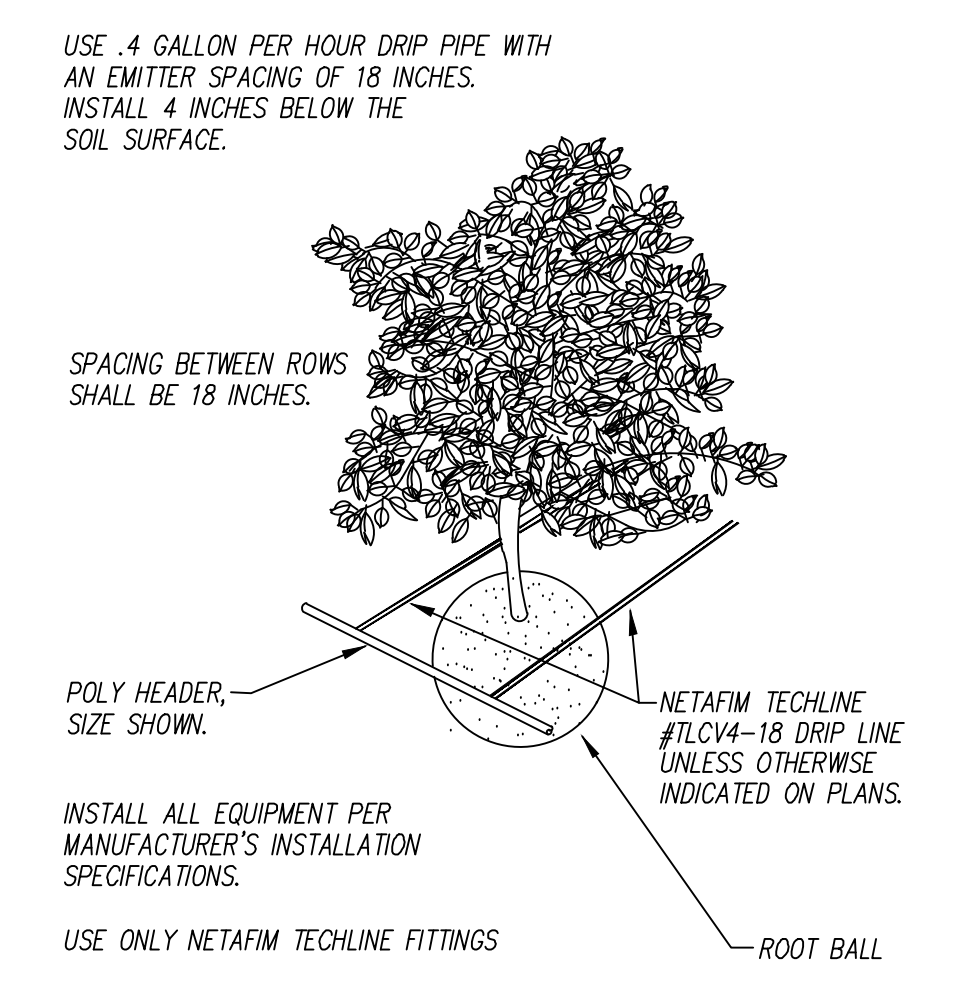
6 MAINLINE, LATERAL & WIRING
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



7 MANUAL DRAIN VALVE DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



8 GRID DRIPPERLINE LAYOUT
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



9 SHRUB SUBSURFACE DRIP DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE

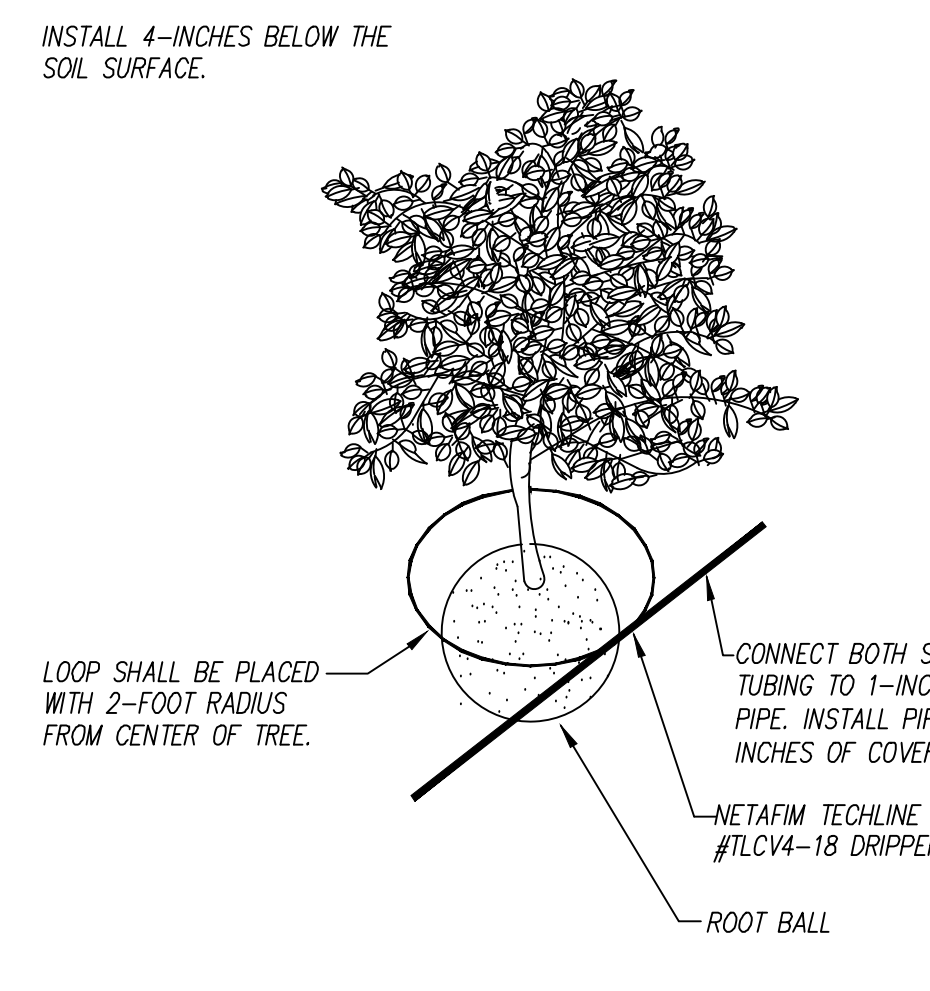
OPERATING INSTRUCTIONS

- SYSTEM HAS BEEN DESIGNED WITH THE INTENT TO OPERATE ONE ZONE AT A TIME. IF OPERATOR SCHEDULES CONTROLLER(S) TO IRRIGATE DIFFERENTLY THAN PREVIOUSLY STATED SYSTEM PRESSURE WILL DECREASE AND CREATE OPERATING AND COVERAGE DEFICIENCIES.
- ALL IRRIGATION SYSTEMS INCORPORATING CHECK VALVES IN HEADS MUST BE WINTERIZED BY MEANS OF FORCED AIR.
- TURF WATER REQUIREMENTS WILL VARY FROM 1/2" TO 2" PER WEEK DEPENDING ON THE SEASON:

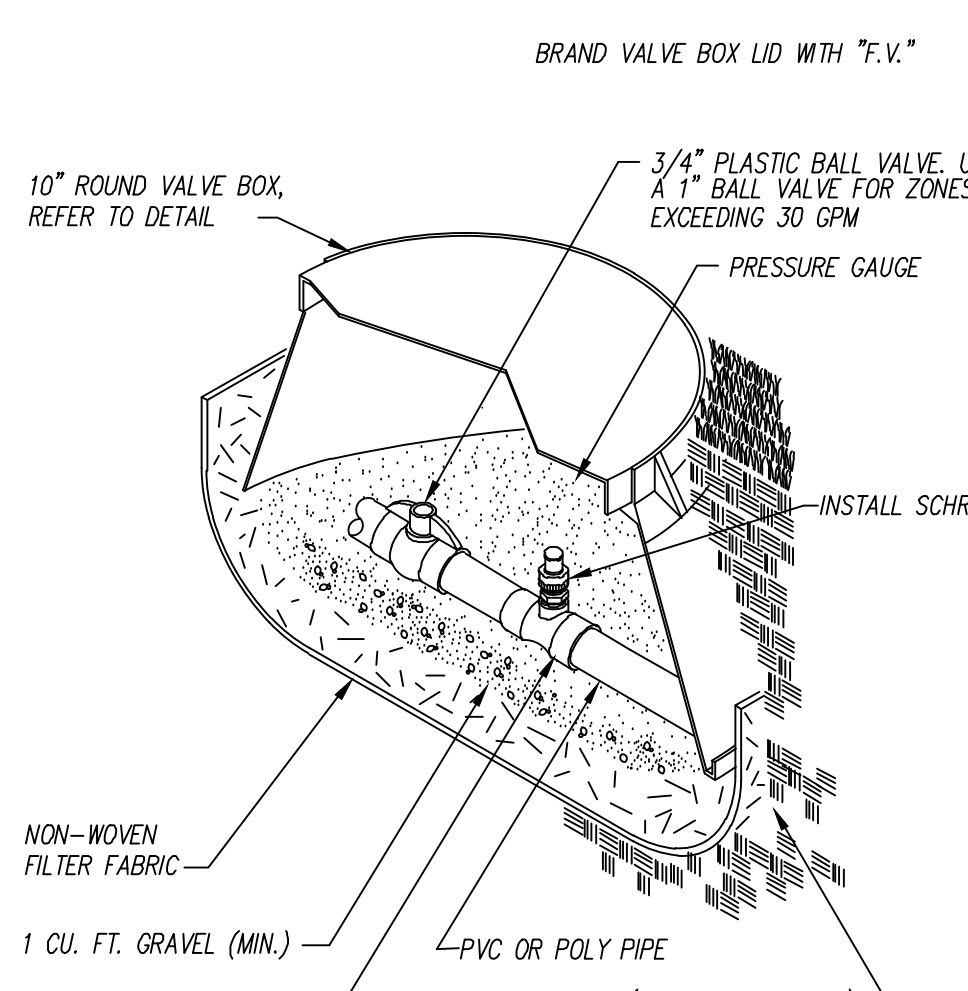
TYPE	PRECIPITATION RATE	TIME REQUIRED TO APPLY 1"
MP ROTATOR HEADS	.40"/HR	150 MINUTES
NETAFIM TLCV4-18 (PLANTING BEDS)	0.30"/HR	200 MINUTES
NETAFIM TLCV4-12 (TURF AREAS)	0.45"/HR	135 MINUTES

CONTROLLERS SHALL BE SET TO APPLY WATER FOR PEAK DEMAND AND SHALL BE ADJUSTED THROUGHOUT GROWING SEASON.

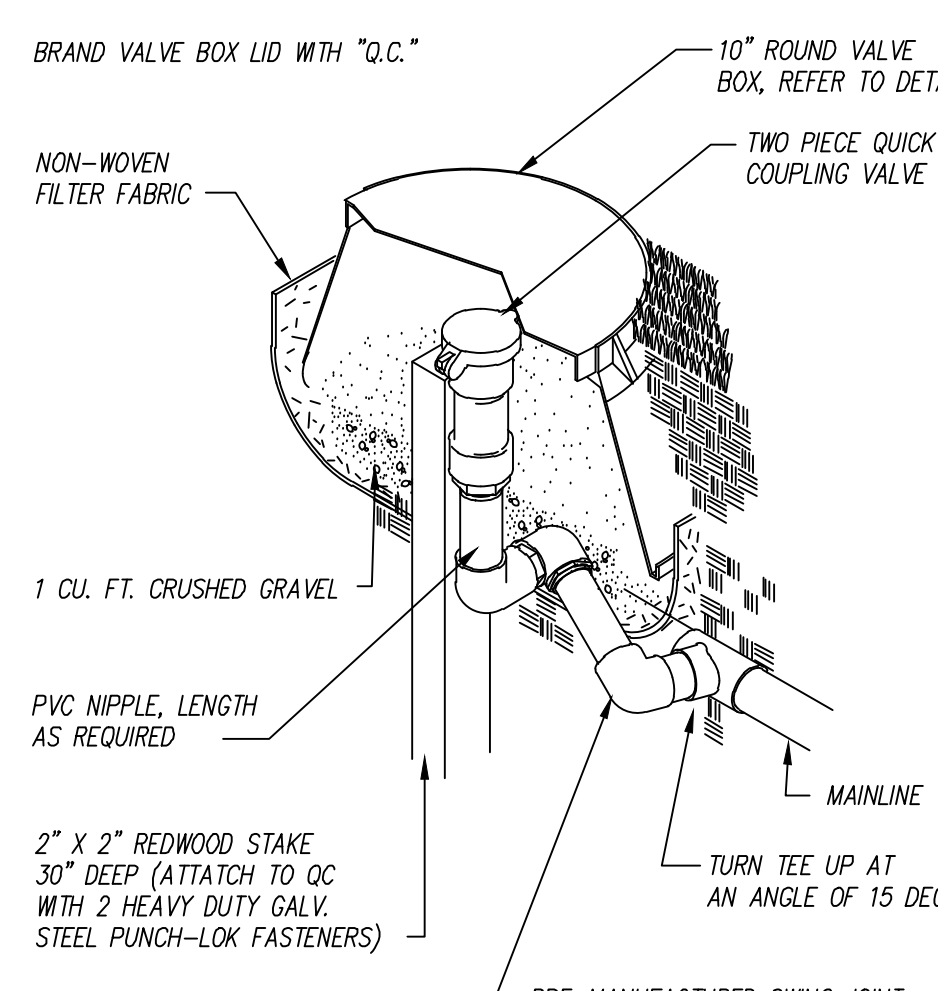
- THE PRIMARY RESPONSIBILITY OF MAINTAINING THE ORIGINAL DESIGN INTENT RESTS WITH THE SYSTEM OPERATOR. WHILE THE DESIGN INTENT IS NOT LISTED IN EVERY SPECIFIC DETAIL CHANGES SHOULD BE MADE WITHIN THE ORIGINAL DESIGN CONTEXT. THE OPERATOR SHOULD BE AWARE THAT ALL DESIGN DECISIONS WERE DELIBERATE AND CHANGING THE SYSTEM WILL UPSET THE WATER MANAGEMENT PROGRAM.



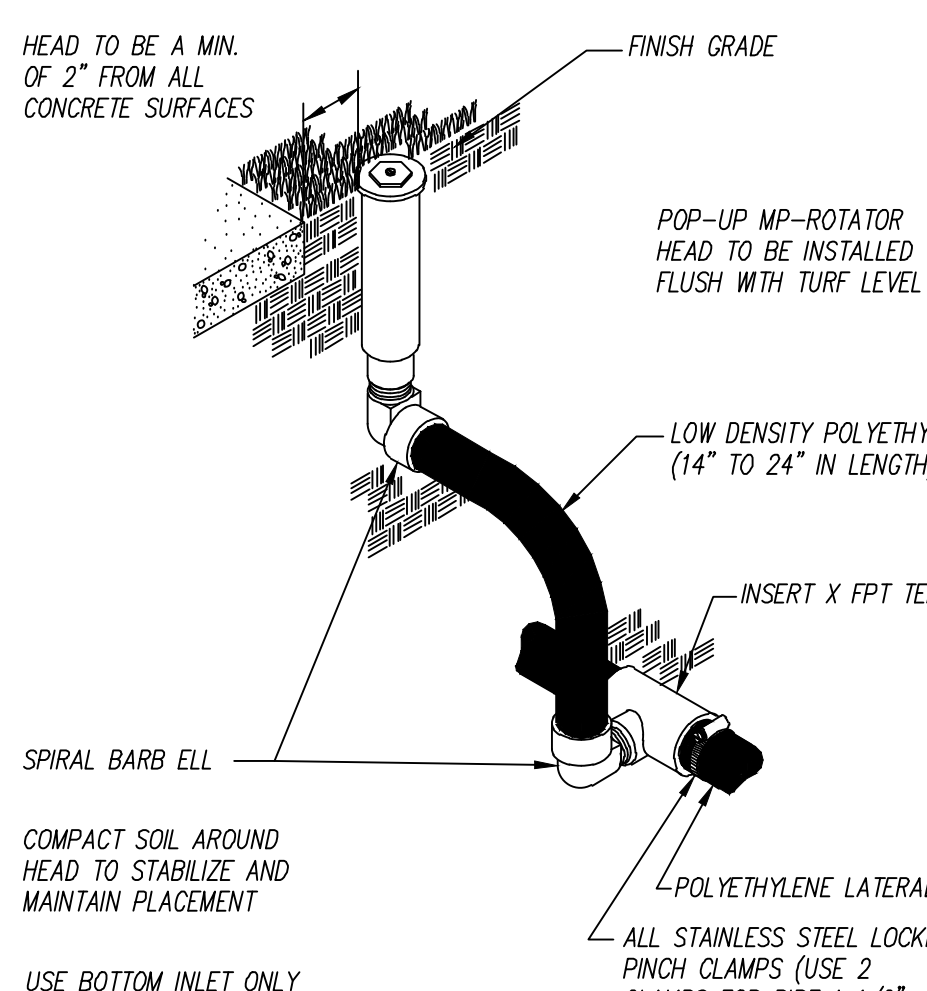
10 TREE SUBSURFACE DRIP DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



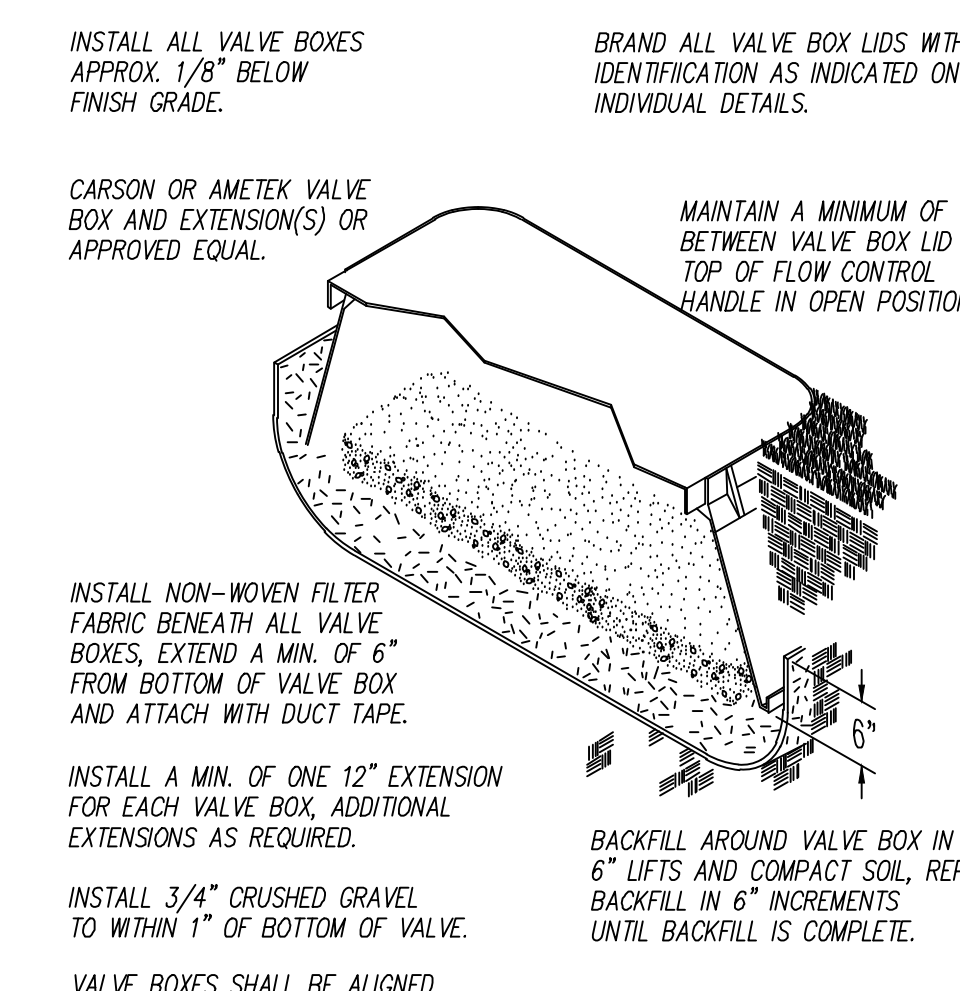
11 FLUSH VALVE DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



12 QUICK COUPLER DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



13 MP-ROTATOR DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE



14 VALVE BOX DETAIL
WATER SCAPE, INC.
LINCOLN, NEBRASKA
NOT TO SCALE

CALL UTILITY NOTIFICATION CENTER OF NEBRASKA 811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

CAUTION: NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

WATER SCAPE, INC.
Irrigation Design-Consulting-System Evaluation
4631 Birch Hollow Drive
Lincoln, Nebraska 68516
Phone 402-423-7896
Kenneth L. Merboth, CID, CLIA, LEED AP

PROJECT CONSULTANTS
 MECHANICAL ENGINEER
 ELECTRICAL ENGINEER
 CIVIL ENGINEER
 STRUCTURAL ENGINEER
 LPS District Office
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