IRRIGATION GENERAL NOTES

1. THE HAYMEADOW METROPOLITAN DISTRICT WILL OWN AND OPERATE THE RAW WATER IRRIGATION SYSTEM SERVING THE DEVELOPMENT.
2. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
4. ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT A THOROUGH SITE INSPECTION AND REVIEW OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LANDSCAPE PLAN, UTILITY PLAN, CIVIL UTILITY PLAN, ARCHITECTURE PLAN, GRADING AND DRAINAGE PLAN AND ALL OTHER ASSOCIATED PLANS AND SPECIFICATIONS THAT AFFECT THIS WORK PRIOR TO START OF WORK. IF THE AND CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS ON SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
6. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN ALL IRRIGATION DISTRIBUTION LINES AND ALL UTILITIES (EXISTING OR PROPOSED), CONDUIT, STORM WATER COMPONENTS, DRAINS, ETC.
8. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS AND INSTALL THE IRRIGATION SYSTEM AND ITS COMPONENTS PER MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS REQUIRED BY ANY LOCAL AND STATE AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE.
9. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN LANDSCAPE AREAS AND WITHIN THE PROJECT LIMITS. EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHIC CLARITY ONLY. IF THERE IS A QUESTION REGARDING THE LOCATION OF ANY COMPONENT OF THE IRRIGATION SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR NEGLECTS TO NOTIFY THE NECESSARY PARTIES, THE CONTRACTOR SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO ENSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYSTEM AND ITS COMPONENTS.
10. ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS, OR AS STIPULATED IN THE GEOTECHNICAL REPORT , WHICHEVER IS GREATER. EQUIPMENT MAY BE SHOWN IN THIS AREA FOR GRAPHIC CLARITY. COORDINATE ALL REQUIRED SETBACKS WITH OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
11. EACH VALVE SHALL BE INSTALLED IN A SEPARATE VALVE BOX AS DETAILED. ALL VALVE BOXES AND LIDS SHALL BE COMMERCIAL GRADE, PLASTIC WITH SELF LOCKING COVERS. LID COLOR TO BE PURPLE. INSTALL FLUSH TO FINISH GRADE AND PER CONSTRUCTION DETAILS. DO NOT INSTALL IN PAVED AREAS OR IN BOTTOMS OF DRAINAGE SWALES/BASINS.
12. CONTRACTOR SHALL INSTALL DETECTABLE MARKING TAPE OR #14g DIRECT BURY TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
13. PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER ROUTING OF IRRIGATION PIPING. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
14. THE CONTRACTOR SHALL MARK THE LOCATION OF THE MAINLINE, CONTROL VALVES, GATE VALVES AND HEAD LAYOUT OF A REPRESENTATIVE SPRAY ZONE. SCHEDULE A REVIEW WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
15. INSTALL SCH. 40 BALL WITH OPERATIONAL INDICATOR AT ENDS OF ALL DRIP LATERALS AS DETAILED. FLUSH ALL LATERALS THOROUGHLY BEFORE INSTALLING EMITTERS AND BUBBLERS.
16. CONTRACTOR SHALL FINE TUNE AND ADJUST NOZZLE DIRECTION AND RADIUS TO REDUCE OVERSPRAY ONTO PAVING OR HARD SURFACES.
17. CONTRACTOR SHALL INSTALL A QUICK COUPLER IN 10" VALVE BOX AT THE END OF ALL BRANCHES OF THE MAINLINE, OR AS SHOWN ON PLANS, FOR WINTERIZATION AND FLUSHING OF MAINLINE.
18. THE CONTRACTOR SHALL PERFORM A PRESSURE TEST ON ALL MAINLINES. CONTRACTOR SHALL PRESSURIZE MAINLINES TO 120 PSI AND MAINTAIN PRESSURE AT 120 PSI FOR A MINIMUM CONTINUOUS PERIOD OF TWO (2) HOURS TO ACHIEVE FINAL ACCEPTANCE.
19. THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE DURING A THREE(3) NIGHT PER WEEK, SIXTEEN(16) HOURS PER NIGHT WATERING WINDOW. DRIP IRRIGATION ZONES MAY BE ALLOWED TO RUN ON A SEPARATE SCHEDULE FROM THIS WATER WINDOW DEPENDING JURISDICTION. LANDSCAPE ESTABLISHMENT WILL REQUIRE INCREASED IRRIGATION WATER FOR DURATION OF THE ESTABLISHMENT PERIOD AND MAY REQUIRE TWICE THE AMOUNT OF WATER AS ESTABLISHED PLANT MATERIAL. THE CONTRACTOR SHALL COORDINATE WATERING SCHEDULES AND APPLICATION RATES WITH THE OWNER'S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE.
20. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED PEAK SEASON WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND VARIABLE WEATHER CONDITIONS.
    - FESCUE/BLUEGRASS BLEND TURF 1.75" PER WEEK PEAK SEASON
    - TREE, SHRUB, AND PERENNIAL PLANT MATERIAL 1.00" PER WEEK PEAK SEASON
    - NATIVE DROUGHT TOLERANT SEED MIX 0.75" PER WEEK PEAK SEASON
21. THE CONTRACTOR SHALL PROVIDE A SEASONAL MAINTENANCE SCHEDULE WHICH SHALL BEGIN ON MAY 1ST AND END ON OCTOBER 1ST TO ENSURE THE EFFICIENCY AND LONGEVITY OF THE IRRIGATION SYSTEM. THE MAINTENANCE SCHEDULE SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING LIST OF BEST MANAGEMENT PRACTICES:
    - CHECK HEADS FOR COVERAGE AND LEAKAGE.
    - CHECK CONTROLLER PROGRAMMING AND ADJUST FOR SEASONAL CHANGES AS NECESSARY.
    - VERIFY THAT THE WATER SUPPLY AND PRESSURE ARE AS STATED IN THE DESIGN.
    - CERTIFY THE BACKFLOW PREVENTION DEVICE AND SUBMIT TEST RESULTS TO THE PROPERTY MANAGER.
    - PERIODICALLY VERIFY THE THE SENSORS IN THE IRRIGATION SYSTEM ARE OPERATING CORRECTLY.
    - WINTERIZATION AND SPRING START UP PROCEDURES.

IRRIGATION POINT OF CONNECTION NOTES

1. POINT OF CONNECTION: THERE IS ONE (1) POINT OF CONNECTION ON THIS PROJECT.
   POC #1 : 2" DEDICATED IRRIGATION WATER METER LOCATED AT SOUTHWEST CORNER OF RMF 4-5.
    - CONTRACTOR IS TO LOCATE AND CONNECT DOWNSTREAM OF THE DEDICATED NON-POTABLE IRRIGATION POINT OF CONNECTION (PROVIDED BY OTHERS) WITH CLASS 200 PVC AT A DEPTH OF 24" OR PER LOCAL CODE, WHICHEVER IS GREATER. EXTEND PVC PIPING MINIMUM 30" HORIZONTAL FROM CONNECTION AND INSTALL ONE MANUAL DRAIN, TRANSITION TO AND EXTEND CLASS 200 PVC MAINLINE TO GATE VALVE, MASTER VALVE, FLOW SENSOR, 1" QUICK COUPLER, AND EXTEND MAINLINE TO VALVES AS SHOWN.
    - THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES, OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS ASSOCIATED WITH THIS WORK.
2. CONTROLLER LOCATION: THERE IS ONE (1) CONTROLLER ON THIS PROJECT.
   CONTROLLER A : PEDESTAL MOUNTED CONTROLLER LOCATED AT SOUTHWEST CORNER OF RMF 4-5.
    - CONTROLLER SHALL BE PROGRAMMED TO RUN MULTIPLE VALVES AT ONE TIME WITH A MAXIMUM TOTAL OF 50 GPM .
    - CONTROLLER TO BE MOUNTED PER DETAILS AND MANUFACTURER'S SPECIFICATIONS.
    - CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND ELECTRICAL PLANS FOR POWER SERVICE. ALL ELECTRICAL EQUIPMENT AND POWER CONNECTION INSTALLATION SHALL CONFORM TO ALL LOCAL CODES. INSTALL A LINE VOLTAGE SURGE DEVICE (INTERMATIC AG2401C3/ OR SQUARE D SDSA1175) FOR 120V IN A JUNCTION BOX PRIOR TO CONTROLLER.
    - RAIN/FREEZE SENSOR: MOUNT THE RAIN SENSOR ON POLE IN PROXIMITY TO THE CONTROLLER. THE SENSOR SHALL BE MOUNTED IN A LOCATION IN FULL SUN AND OPEN TO RAINFALL. SENSOR SHALL BE NO MORE THAN 200' FROM WIRELESS RECEIVER. MOUNT WIRELESS RECEIVER ON OR ADJACENT TO THE IRRIGATION CONTROLLER.
3. SYSTEM PRESSURE: THE SYSTEM HAS BEEN DESIGNED PER THE FOLLOWING SPECIFICATIONS: REQUIRED MINIMUM STATIC PRESSURE OF 75 PSI AND MAXIMUM SAFE VELOCITY OF 5 FPS IN ANY PVC PIPE AND 7.5 FPS IN ANY COPPER PIPE.
    - PER (WATER PURVEYOR/CITY WATER) THE STATIC PRESSURE ON SITE IS APPROXIMATELY TBD PSI.
    - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESSURE IN THE FIELD AT THE POINT OF CONNECTION BEFORE CONSTRUCTION BEGINS AND FOR NOTIFYING THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DESIGN PRESSURE OF THE SYSTEM AND THE MEASURED PRESSURE IN THE FIELD. IF THE CONTRACTOR FAILS TO NOTIFY OWNER'S REPRESENTATIVE OF SUCH DISCREPANCIES, THEN THE CONTRACTOR ASSUMES ALL LIABILITY AND COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS TO ACCOMMODATE THE ACTUAL PRESSURE.
4. FLOW SENSOR: SENSOR REQUIRES A MINIMUM FLOW FOR PROPER READINGS. MULTIPLE ZONES MAY BE REQUIRED TO RUN SIMULTANEOUSLY TO ACHIEVE THE MINIMUM FLOWS REQUIRED. CONTRACTOR TO SET 'K' VALUES PER MANUFACTURER.
    - FLOW SENSOR REQUIRES A MINIMUM FLOW OF 1 GPM.
5. COMMUNICATION: IT IS RECOMMENDED THAT THE IRRIGATION CONTROLLER BE CONNECTED TO A WATER MANAGEMENT CONTROL SOFTWARE FOR OPTIMUM FUNCTION OF THE IRRIGATION SYSTEM. COORDINATE WITH OWNER'S REPRESENTATIVE AND CONTACT THE LOCAL CONTROLLER MANUFACTURER REPRESENTATIVE OR AUTHORIZED VENDOR PRIOR TO ORDERING CONTROLLER FOR COMMUNICATION AND CONNECTIVITY OPTIONS.

TWO WIRE NOTES

1. GROUNDING FOR THE IRRIGATION CONTROLLER AND DECODERS ARE TO BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND PER THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS GUIDELINE 100-2002 FOR EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS FOUND AT WWW.ASIC.ORG. FOR ADDITIONAL TECHNICAL SUPPORT REGARDING THE IRRIGATION CONTROLLER OR GROUNDING PLEASE CONTACT THE MANUFACTURER.
2. DO NOT LOOP TWO WIRE PATH. STAR PATTERN FROM CONTROLLER FOR EACH BRANCH OF MAINLINE.
3. CONTRACTOR IS RESPONSIBLE FOR GROUNDING THE TWO-WIRE PATH AT THE FOLLOWING LOCATIONS, BUT ARE NOT LIMITED TO:
    - CONTROLLER TO BE GROUNDED INDEPENDENTLY FROM BUILDING.
    - GROUND 1ST DECODER ON WIRE PATH FROM CONTROLLER.
    - GROUND EVERY 8TH DECODER OR EVERY 500 FEET BETWEEN DECODERS, WHICH EVER LENGTH IS SMALLER.
    - GROUND EVERY END OF WIRE PATH.
4. THE TWO-WIRE CONTROLLER REQUIRES EACH CONTROL VALVE AND SENSOR TO HAVE A DECODER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE PROPER DECODERS, SURGE SUPPRESSION AND GROUNDING. THE RAIN SENSOR AND FLOW SENSOR REQUIRE A SENSOR DECODER.
5. QTY OF STATIONS (VALVES) PER MANIFOLD REQUIRED DECODER
    - SINGLE STATION RAIN BIRD IVMSOL
    - FLOW SENSOR RAIN BIRD IVMSEN
6. CONTROLLER TWO-WIRE PATH SHALL BE MANUFACTURER'S APPROVED WIRE OR APPROVED EQUAL.
7. CONTRACTOR SHALL USE UL APPROVED WIRE STRIPPER AND WATERPROOF CONNECTIONS (DBR/Y-6 OR APPROVED EQUAL) AT ALL SPLICES AND CONNECTIONS POINTS.
8. PROVIDE 30" MINIMUM TWO WIRE PATH IN EACH VALVE BOX FOR MAINTENANCE.
9. CONTRACTOR SHALL INCLUDE TWO-WIRE RUN PATHS ON AS-BUILT DRAWINGS.

SLEEVING COORDINATION NOTES

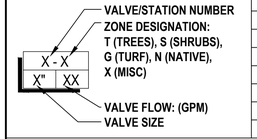
1. INSTALLATION OF IRRIGATION SLEEVING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR FOR LOCATION AND SIZING OF SLEEVES PRIOR TO THE START OF CONSTRUCTION.
2. SLEEVES SHALL BE INSTALLED PRIOR TO THE START OF PAVING OPERATIONS.
3. THE CONTRACTOR SHALL SLEEVE ALL IRRIGATION DISTRIBUTION LINES, VALVE CONTROL WIRES AND COMMUNICATION WIRES UNDER ALL PAVED SURFACES, WALL FOOTERS, DRAINAGE CHANNELS, INLETS, CATCH BASINS, ETC.
4. ALL SLEEVES SHALL EXTEND A MINIMUM OF 12" BEYOND EDGE OF ALL OBSTRUCTIONS. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER ANY OBSTRUCTIONS.
5. EACH PIPE SHALL BE IN A SEPARATE SLEEVE. WIRES SHALL BE IN A SEPARATE PIPE UNDER ALL PAVED SURFACES.
6. SLEEVING SHALL BE INSTALLED PER THE SIZES AND QUANTITIES SHOWN ON THE PLANS BASED ON THE CHART BELOW.

PIPING	REQUIRED SLEEVE SIZE
MAINLINE PIPING	4" CLASS 200 PVC
LATERAL PIPING	2X NOMINAL DIAMETER OF LATERAL
CONTROL WIRES	2" CLASS 200 PVC (2.5" 45 WIRES +)

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	MODEL NO. DESCRIPTION	DETAIL #	AND SHEET
C	IRRIGATION CONTROLLER	**RAIN BIRD ESPLXIVMP W/ IQ-NCC-4G COMMUNICATION MODULE, LXMM ENCLOSURE, & LXMMPED PEDESTAL** 120VAC POWER REQUIRED - SEE PLANS FOR LOCATION(S)	1	LI501
	RAIN SENSOR	**RAIN BIRD WR2-RFC** REFER TO CONTROLLER NOTES	2	LI501
A	AIR & VACUUM RELIEF VALVE	**CRISPIN AL SERIES** INSTALLED VERTICAL IN AEP 1015-1G2G VALVE BOX WITH PURPLE LID	NA	NA
M	MANUAL DRAIN VALVE	**MATCO-NORCA 3/4" 201X** INSTALLED IN AEP 910L-1G2G VALVE BOX WIITH PURPLE LID	3	LI501
MV	MASTER VALVE	**RAIN BIRD IVM-200-EFB SERIES** WITH SCH 40 BALL VALVE AND PREINSTALLED IVM SOLENOID DECODER, INSTALLED IN AEP 1015-1G2G VALVE BOX PURPLE LID	4	LI501
FS	FLOW SENSOR	**RAIN BIRD UFS-200** WITH IVM-SEN SENSOR DECODER, INSTALLED IN AEP 1015-1G2G VALVE BOX WITH PURPLE LID	5	LI501
	ISOLATION GATE VALVE	**MATCO-NORCA 10RS** MATCH LINE SIZE, INSTALLED IN AEP 910L-1G2G VALVE BOX WITH PURPLE LID	6	LI501
	QUICK COUPLER	**RAIN BIRD 44-NP** INSTALLED IN AEP 910L-1G2G VALVE BOX WITH PURPLE LID	7	LI501
	TURF VALVE ASSEMBLY	**RAIN BIRD PESB-R SERIES** WITH SCH 40 BALL VALVE AND PREINSTALLED IVM SOLENOID DECODER, INSTALLED IN AEP 1015-1G2G VALVE BOX WITH PURPLE LID, SIZED PER PLAN	1	LI502
	DRIP VALVE ASSEMBLY	**RAIN BIRD XCZ-100-PRBR** WITH SCH 40 BALL VALVE, AND PREINSTALLED IVM SOLENOID DECODER, INSTALLED IN AEP 1320-1G2G VALVE BOX WITH PURPLE LID, SIZED PER PLAN	2	LI502
G	GROUNDING / LINE SURGE SUPRESSION	**COPPER-CLAD GROUNDING ROD OR GROUNDING PLATE** WITH WATERPROOF WIRE CONNECTORS AND IVM-SD SURGE ARRESTING DECODER, INSTALLED IN AEP 910L-1G2G VALVE BOX WITH PURPLE LID.	3	LI502
STRIP / R-VAN14 / R-VAN18 / R-VAN24	TURF ROTARY	**RAIN BIRD RD06-S-P45-NP WITH R-VAN SERIES NOZZLE** NOZZLE PER PLAN	4	LI502
A Q T H F	TURF SPRAY	**RAINBIRD RD06-S-P30-NP WITH U-SERIES NOZZLE** 6" POP-UP RISER WITH 30 PSI PRESSURE REGULATED BODY AND BUILT-IN CHECK VALVE ON 1/2" FLEXIBLE SWING JOINT. NOZZLE PER PLAN, REFER TO MANUFACTURERS SPECIFICATIONS.	4	LI502
	NATIVE ROTOR	**HUNTER I-20-12-R WITH STANDARD (BLUE) NOZZLE** NOZZLE PER PLAN	6	LI502
R-VAN STRIP / R-VAN14 / R-VAN18 / R-VAN24	NATIVE SEED ROTARY	**RAIN BIRD RD12-S-P45-NP WITH R-VAN SERIES NOZZLE** NOZZLE PER PLAN	5	LI502
	TREES IN NATIVE	**HUNTER RD12-S-P30-NP WITH PCN-50 BUBBLER** TWO (2) BUBBLER ASSEMBLIES PER TREE	7	LI502
	SLEEVING	**CLASS 200 PVC** REFER TO SLEEVING NOTES	8	LI501
	PVC MAINLINE	**CLASS 200 PVC BE - PURPLE** SIZE: 2" UNLESS OTHERWISE NOTED	9	LI501
	PVC TURF LATERAL	**CLASS 200 PVC BE - PURPLE** SIZE: 1" MINIMUM UNLESS OTHERWISE NOTED	9	LI501
	PVC TREE LATERAL	**CLASS 200 PVC - PURPLE** SIZE: 1" UNLESS OTHERWISE NOTED	9	LI501
	DRIP LATERAL	**UV RESISTANT POLYETHYLENE - PURPLE STRIPE** SIZE: 3/4" MINIMUM UNLESS OTHERWISE NOTED	1-3	LI503
	DRIP FLUSH VALVE & INDICATOR	**SCH 40 BALL VALVE WITH HUNTER ECO-ID-12-R OPERATIONAL INDICATOR** INSTALLED IN AEP 910L-1G2G VALVE BOX	4	LI503

VALVE CALLOUT



- **VALVE/STATION NUMBER**
- **ZONE DESIGNATION: T (TREES), S (SHRUBS), G (TURF), N (NATIVE), X (MISC)**
- **VALVE FLOW: (GPM)**
- **VALVE SIZE**

EMITTER SCHEDULE

PLANT TYPE	EMITTER	QTY.	TOTAL GPH
PERENNIAL / GRASSES	0.5 GPH	TWO EACH	1.0 GPH
DECIDUOUS SHRUBS	1.0 GPH	TWO EACH	2.0 GPH
EVERGREEN SHRUBS	1.0 GPH	TWO EACH	2.0 GPH
DECIDUOUS TREE	1.0 GPH	EIGHT EACH	8.0 GPH
EVERGREEN TREE	1.0 GPH	EIGHT EACH	8.0 GPH
TREES IN NATIVE	ROOT ZONE WATERING / TREE RING ASSEMBLY		
SPADE TREE	2.0 GPH	TEN EACH	20.0 GPH

EMITTER NOTES

1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAIN BIRD XB SERIES PRESSURE COMPENSATING EMITTERS.
2. EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTER AND NUMBER OF EMITTERS BASED ON THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES.
3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH.
4. RAIN BIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING EMISSION POINTS.
5. REFER TO DRIP IRRIGATION DETAILS 1-3, SHEET LI-503

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

811

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P.O. BOX 2320
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WILDFLOWER COTTAGES AT HAYMEADOW
EAGLE, COLORADO

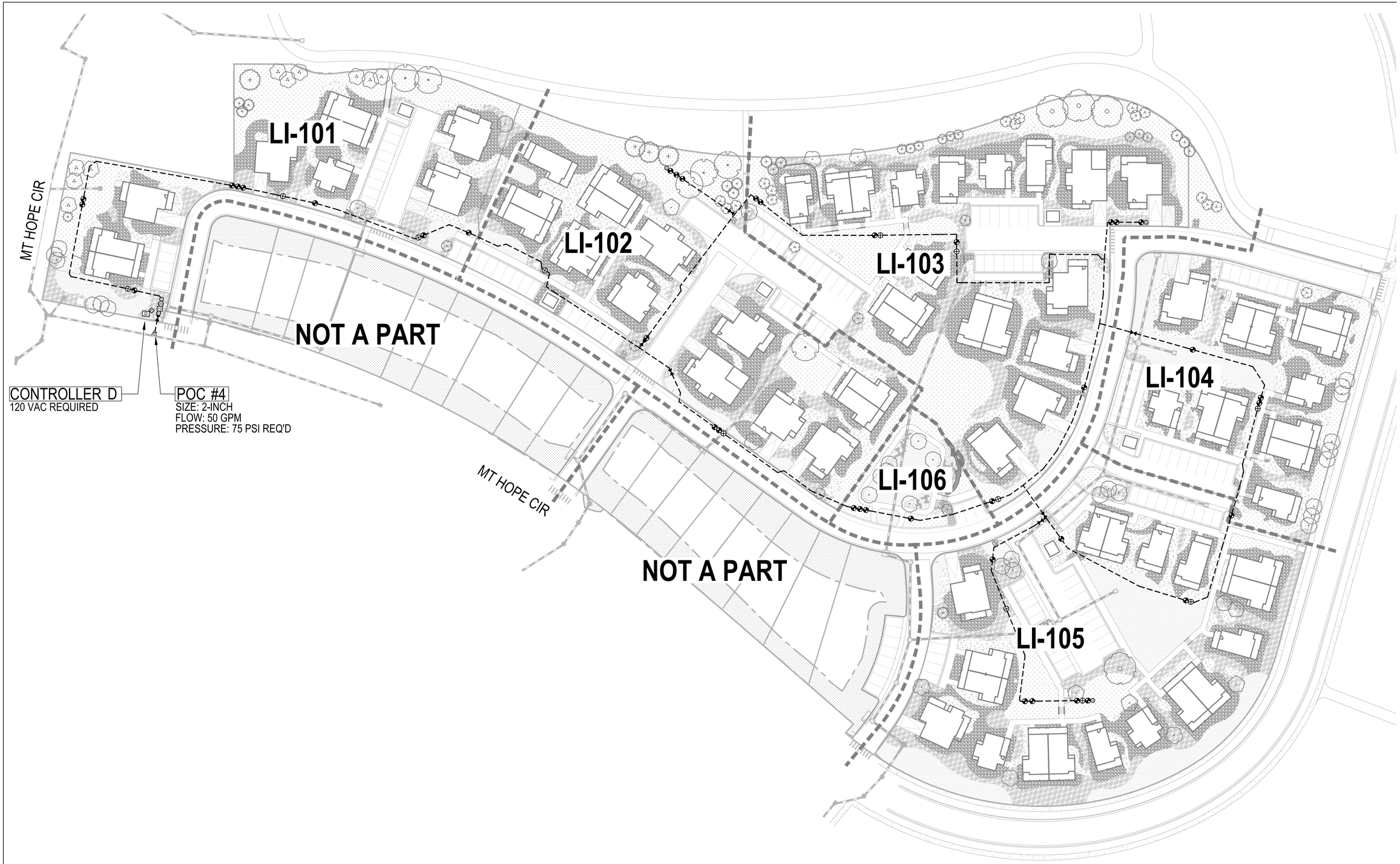
OWNER:
ABRIKA PROPERTIES, LLC
8250 SW 27TH AVE
OCALA FL, 34476
352.854.7753

NOT FOR CONSTRUCTION

DATE:
08/01/25 MAJOR DEVELOPMENT PLAN
01/07/26 MAJOR DEVELOPMENT PLAN 02

SHEET TITLE:
IRRIGATION NOTES

LI-001



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SHEET TITLE:
IRRIGATION OVERALL

LI-100

NORTH

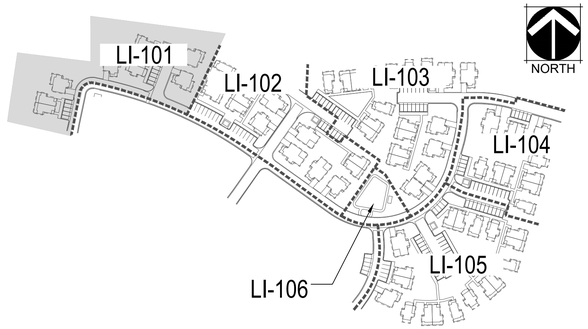
SCALE 1" = 40'

0 20 40 80

811

CHECKED BY: OG, MT
DRAWN BY: BP, CG, LF, NP

KEY MAP N.T.S.



NORTH 0 10 20 40 SCALE 1" = 20'

811

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DRAWN BY: BP, CG, LF, NP

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DATE:
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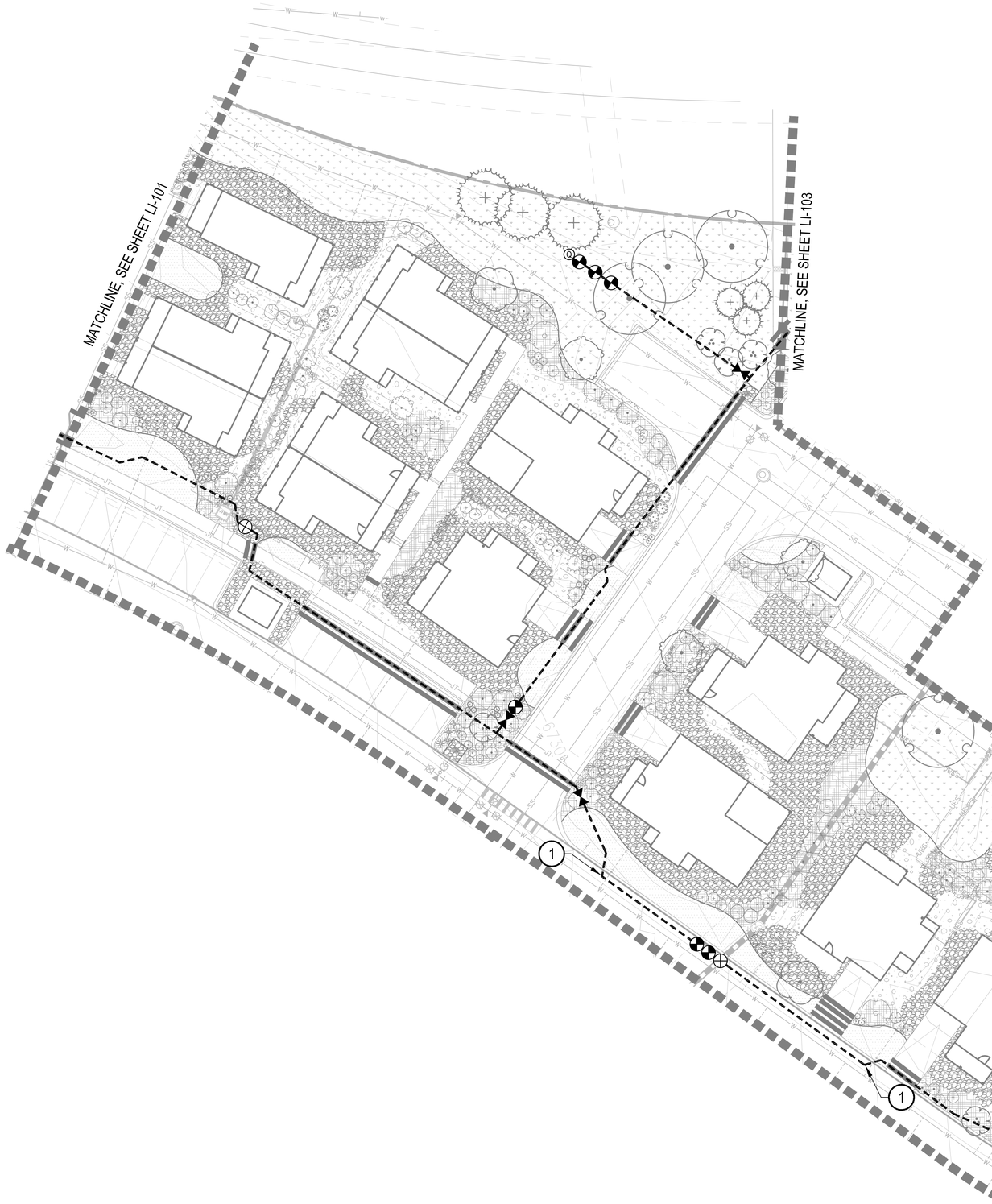
01/07/26 MAJOR DEVELOPMENT PLAN 02

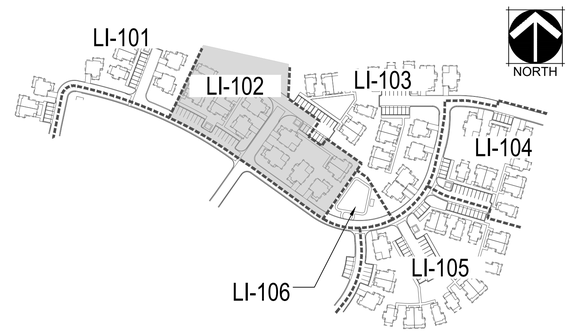
SHEET TITLE:
IRRIGATION PLAN

LI-101



KEY MAP

N.T.S.



IRRIGATION KEY NOTES

1. IRRIGATION EQUIPMENT IS SHOWN HERE FOR GRAPHIC CLARITY. ALL MAINLINES, LATERALS, VALVES ETC SHALL BE LOCATED WITHIN PLANTING AREAS.

NORTH

0 10 20 40

SCALE 1" = 20'

811

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

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DATE:
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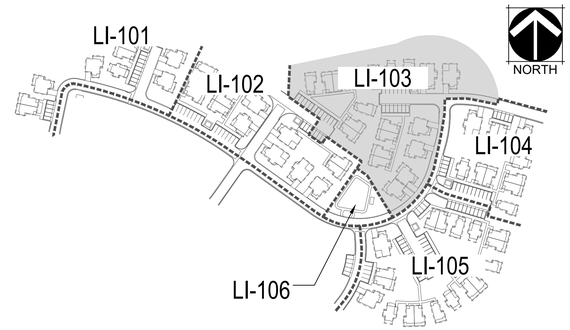
01/07/26 MAJOR DEVELOPMENT PLAN 02

SHEET TITLE:
IRRIGATION PLAN

LI-102

KEY MAP

N.T.S.



NORTH

0 10 20 40

SCALE 1" = 20'

811

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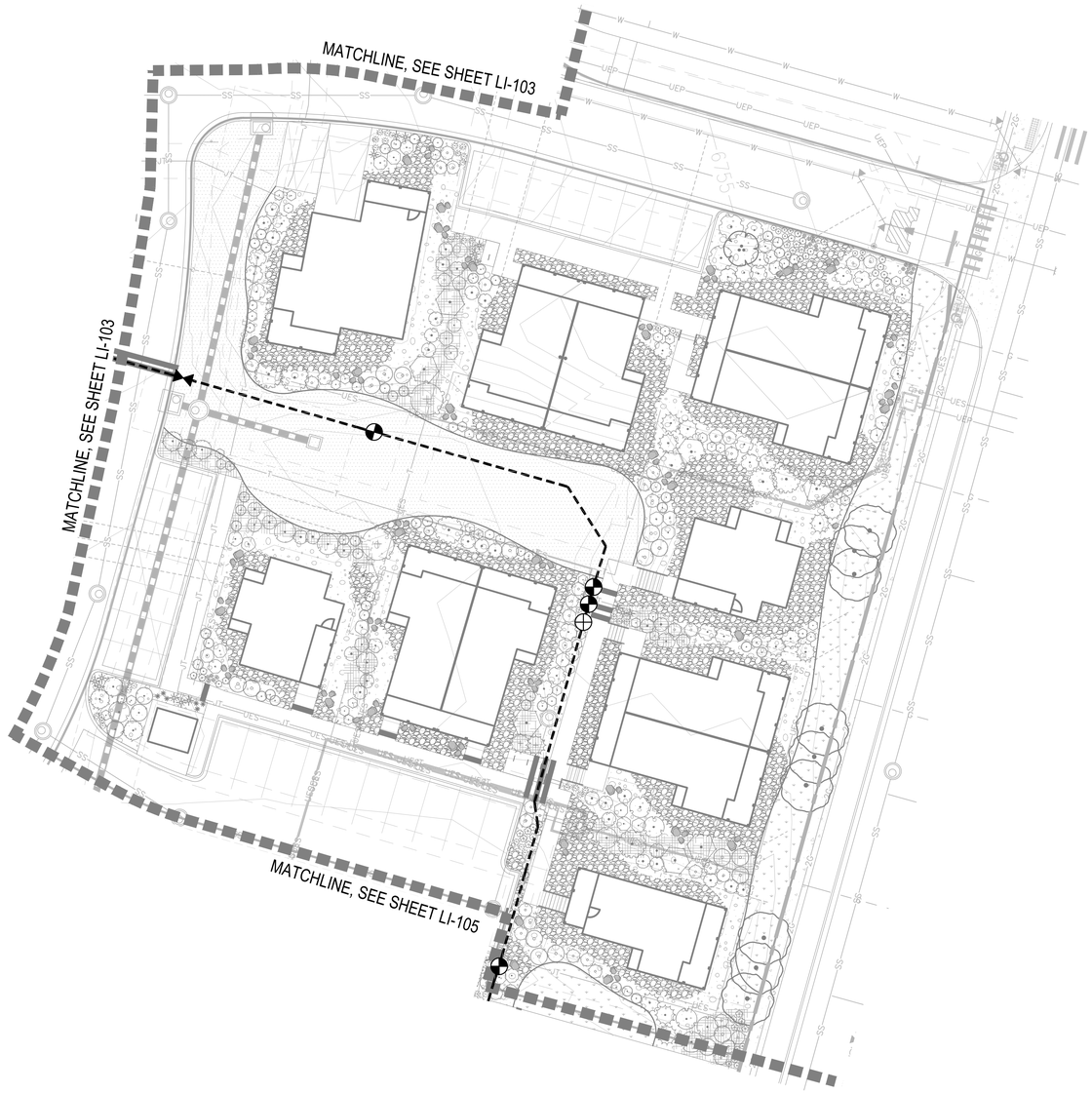
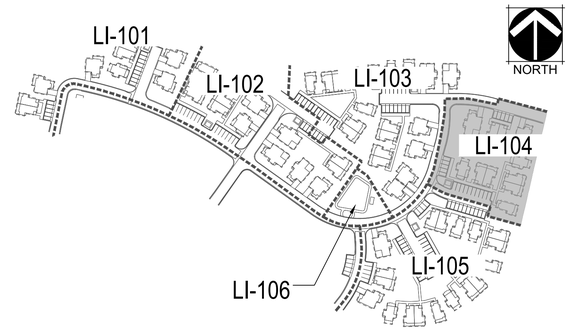
01/07/26 MAJOR DEVELOPMENT PLAN 02

SHEET TITLE:
IRRIGATION PLAN

LI-103



KEY MAP N.T.S.



IRRIGATION KEY NOTES

1. IRRIGATION EQUIPMENT IS SHOWN HERE FOR GRAPHIC CLARITY. ALL MAINLINES, LATERALS, VALVES ETC SHALL BE LOCATED WITHIN PLANTING AREAS.

NORTH

0 10 20 40
SCALE 1" = 20'

811

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

NORRIS DESIGN
PEOPLE + PLACEMAKING
409 MAIN STREET
SUITE 207
P.O. BOX 2320
FRISCO, CO 80443
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NORRIS-DESIGN.COM

WILDFLOWER COTTAGES AT HAYMEADOW
EAGLE, COLORADO

OWNER:
ABRIKA PROPERTIES, LLC

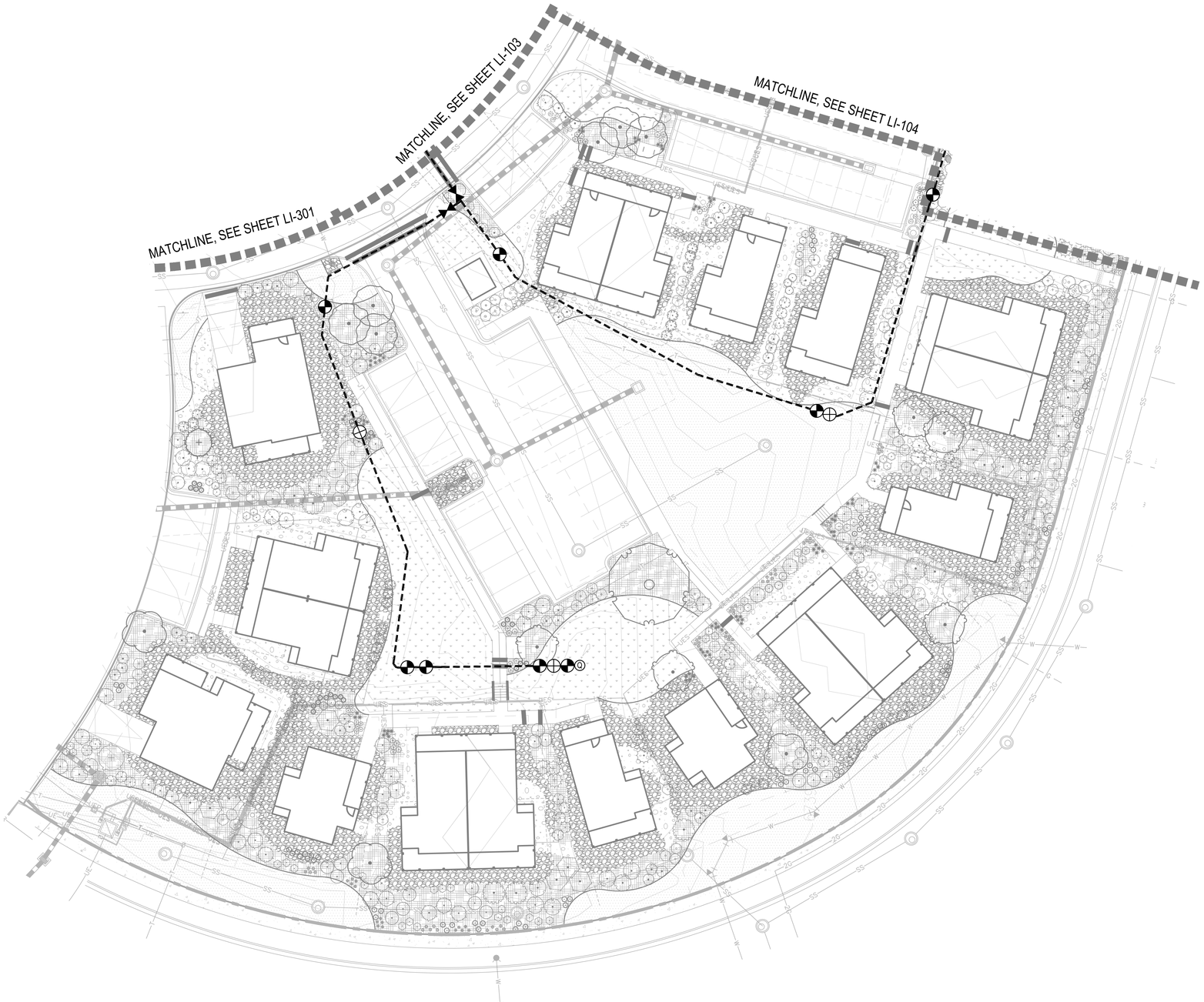
8250 SW 27TH AVE
OCALA FL, 34476
352.854.7753

NOT FOR CONSTRUCTION

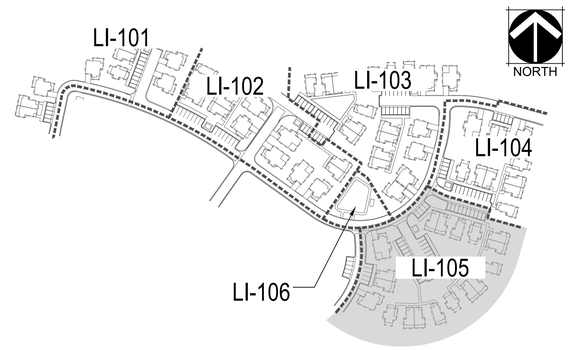
DATE:
08/01/25 MAJOR DEVELOPMENT PLAN
01/07/26 MAJOR DEVELOPMENT PLAN 02

SHEET TITLE:
IRRIGATION PLAN

LI-104



KEY MAP N.T.S.



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01/07/26 MAJOR DEVELOPMENT PLAN 02

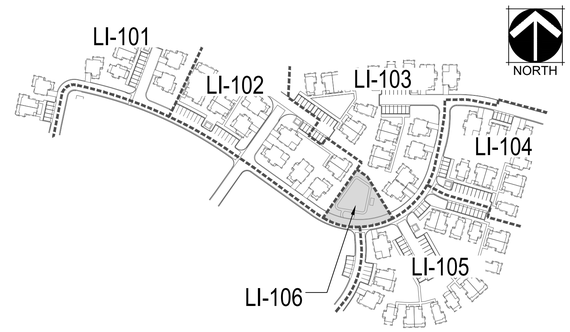
SHEET TITLE:
IRRIGATION PLAN

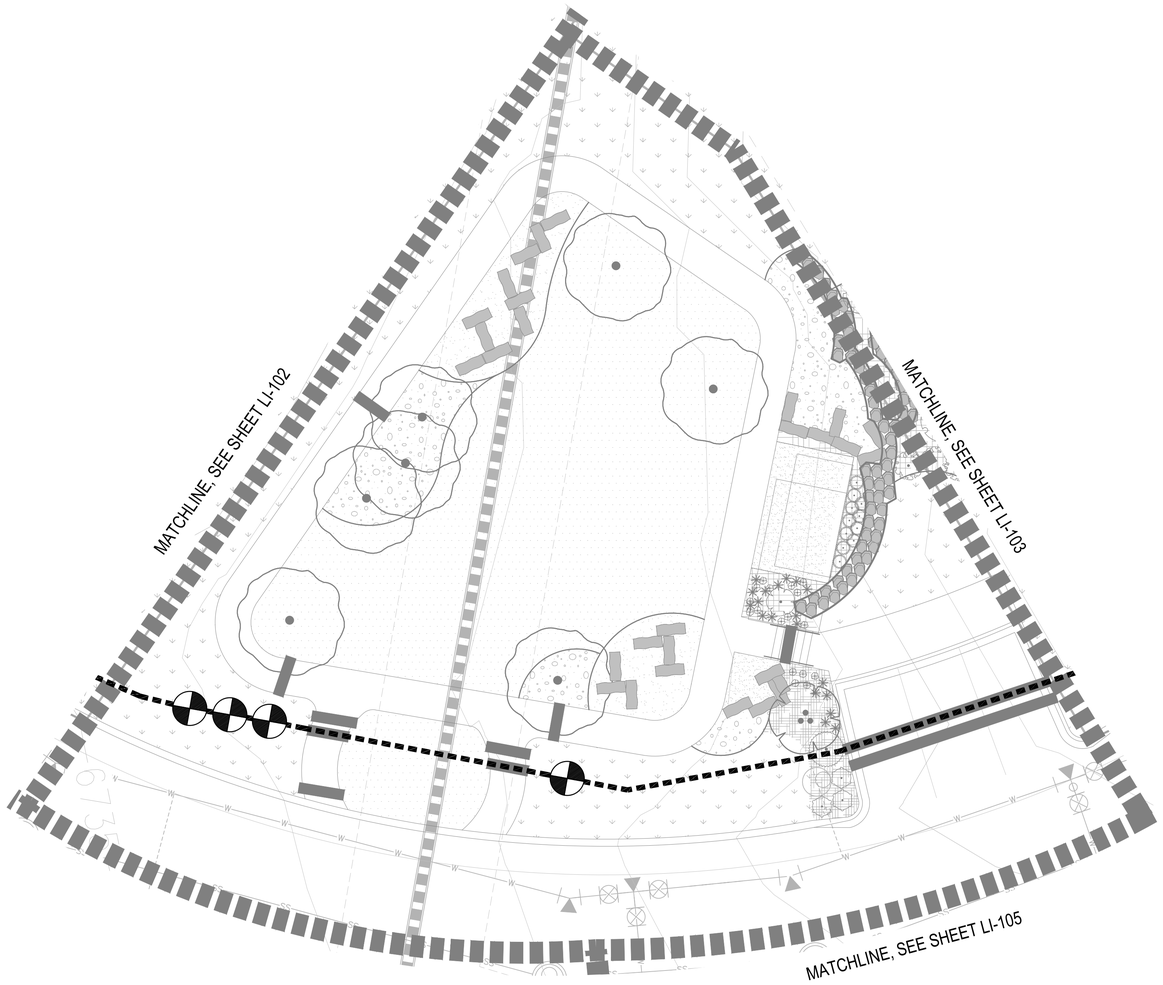
LI-105

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

NORTH 0 10 20 40 SCALE 1" = 20'

KEY MAP N.T.S.





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WILDFLOWER COTTAGES AT HAYMEADOW
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DATE:
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01/07/26 MAJOR DEVELOPMENT PLAN 02

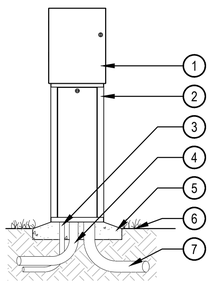
SHEET TITLE:
IRRIGATION PLAN

LI-106

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

NORTH 0 5 10 20 SCALE 1" = 10'

811

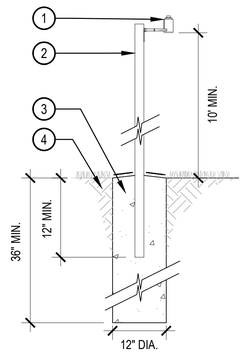


1. METAL ENCLOSURE CONTROLLER PER SCHEDULE
2. METAL PEDESTAL MOUNT ENCLOSURE PER SCHEDULE
3. 1" ELECTRICAL SUPPLY CONDUIT: SIZE, TYPE, DEPTH PER LOCAL CODE
4. GROUND WIRE CONDUIT MIN. 1-1/2". GROUND PER ASIC GUIDELINES.
5. 6" THICK CONCRETE BASE WITH SLEEVES FOR CONDUIT
6. FINISH GRADE
7. CONDUIT FOR DIRECT BURY CONTROL WIRES. EXTEND CONDUIT 5' FROM CONTROLLER

NOTE:
1. ALL ELECTRICAL AND CONTROLLER WIRE TO BE INSTALLED PER LOCAL CODE AND MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE LOCK AND KEY FOR ENCLOSURE.
3. GROUND CONTROLLER PER LOCAL CODE, MANUFACTURER AND ASIC SPECIFICATIONS.
4. PROVIDE WATERPROOF SEALANT FOR ALL CONDUIT AND WIRE ACCESS POINTS.

1 CONTROLLER PEDESTAL

SCALE: NTS

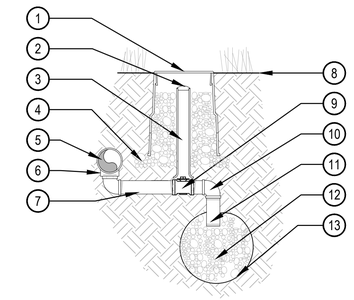


1. WIRELESS RAIN SENSOR, LOCATE WITHIN 500' OF THE CONTROLLER.
2. 2" SQ., 12 GUAGE GALVANIZED STEEL POST. COLOR TO BE POWDERCOAT BLACK
3. CONCRETE BASE-FORM WITH SONOTUBE OR EQ. POST SHALL BE CENTERED WITHIN BASE. ALL CONCERET SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS OR PER SOILS REPORT.
4. COMPACTED SUBGRADE

NOTE:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. SLOPE TOP OF FOOTER AWAY FROM POLE.
3. FINAL LOCATION AND MOUNTING SYSTEM TO BE APPROVED BY OWNER.
4. SENSOR SHOULD NOT BE MOUNTED UNDER TREES, IN AREAS AFFECTED BY SPRINKLER SYSTEM OR UNDER EAVE OF HOUSE.

2 RAIN SENSOR POLE MOUNT

NTS

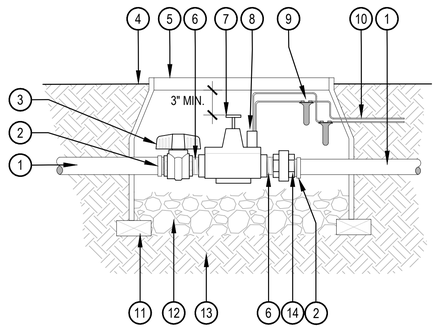


1. 10" LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE.
2. 2" VALVE MARKER
3. 2" CL160 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
4. 3" DEPTH 3/4" CRUSHED GRAVEL 6" BEYOND EDGE OF BOX
5. PVC PRESSURE MAIN LINE
6. SCH. 80 TEE PER MAINLINE SIZE. ALIGN IN A DOWNWARD POSITION
7. SCH. 80 PVC NIPPLE
8. FINISH GRADE
9. 1" BRONZE STOP VALVE WITH SLOTTED KEY OPERATOR
10. SCH. 80 PVC ELL
11. SCH. 80 PVC NIPPLE
12. 3/4" GRAVEL SUMP - 1 CU. FT. MIN
13. SOIL BLANKET ENCLOSING SUMP AMOCO ENG. FABRIC 4545 - 4.5 OZ. OR EQUAL

NOTE:
1. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
2. LOCATE DRAIN VALVE AT POINT OF CONNECTION AND AT ALL LOW POINT(S) ALONG THE IRRIGATION MAINLINE AS NEEDED.

3 MANUAL DRAIN VALVE

SCALE: NTS

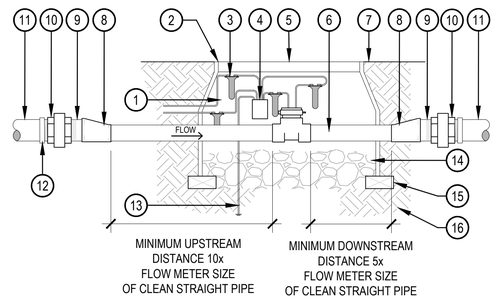


1. PVC MAINLINE
2. SCH. 80 PVC MALE ADAPTER
3. SCH. 80 PVC BALL VALVE
4. FINISH GRADE
5. LOCKING VALVE BOX
6. SCH. 80 PVC NIPPLE (THREADED)
7. MASTER VALVE
8. IVM-SOL SOLENOID
9. WATERPROOF ELECTRICAL CONNECTIONS
10. WIRES TO CONTROLLER
11. BRICK SUPPORTS 2 MIN.
12. 3/4" GRAVEL SUMP - 8" DEPTH
13. COMPACTED SUBGRADE
14. SCH. 80 PVC UNION (THREADED)

NOTE:
1. INSTALL MASTER VALVE PER MANUFACTURER'S SPECIFICATIONS FOR WIRING AND GROUNDING.

4 MASTER VALVE WITH IVM SOLENOID

SCALE: NTS

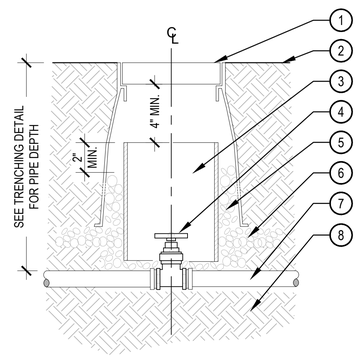


1. WIRES TO CONTROLLER
2. LOCKING VALVE BOX
3. WATERPROOF ELECTRICAL CONNECTIONS
4. SENSOR DECODER
5. FLOW SENSOR PER SCHEDULE
6. DOWNSIZED MAINLINE
7. FINISH GRADE
8. SCH. 80 PVC ECCENTRIC COUPLING (S x S) - SIZE & QTY TO BE DETERMINED IN FIELD
9. SCH. 80 PVC NIPPLE (MPT x S)
10. SCH. 80 PVC UNION (THREADED)
11. PVC MAINLINE
12. SCH. 80 PVC MALE ADAPTER
13. TO EARTH GROUND, INSTALLED PER ASIC GUIDELINES
14. 3/4" GRAVEL SUMP 8" DEPTH
15. BRICK SUPPORTS 2 MIN.
16. COMPACTED SUB-GRADE

NOTE:
1. INSTALL FLOW SENSOR AND SENSOR DECODER PER MANUFACTURER'S SPECIFICATIONS FOR WIRING AND GROUNDING.

5 FLOW SENSOR WITH DECODER

SCALE: NTS

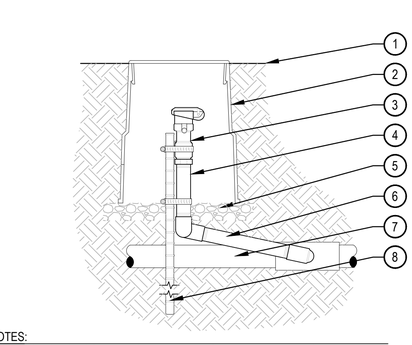


1. LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
2. FINISH GRADE
3. 8" SCH 40 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
4. GATE VALVE W/ CROSS HANDLE AND SOLID WEDGE DISC PER SCHEDULE
5. 3/4" GRAVEL SUMP FILL IN AND AROUND BOX AS REQUIRED.
6. 3" DEPTH 3/4: GRAVEL EXTEND 6" BEYOND EDGE OF BOX
7. PVC MAINLINE
8. COMPACTED SUBGRADE

NOTE:
1. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.
2. DO NOT REST VALVE BOX OR ACCESS SLEEVES ON MAINLINE OR LATERAL LINE.
3. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.

6 GATE VALVE 2" AND SMALLER

SCALE: NTS

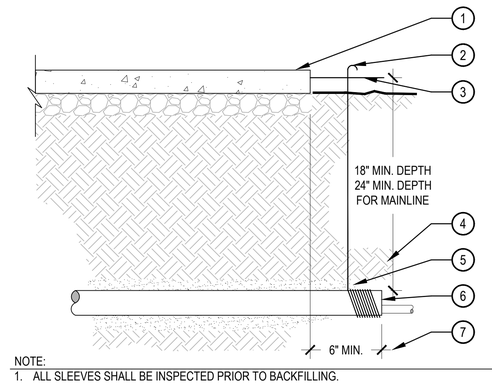


1. SNAKE PVC OR POLYETHYLENE PIPE IN TRENCH
2. EXCAVATED COVER MATERIAL (SEE NOTES)
3. FINISH GRADE/TOP OF MULCH
4. POLYETHYLENE DRIP LATERAL (INSTALL JUST BELOW ROUGH GRADE TO PROVIDE UV COVER PRIOR TO MULCH LAYER)
5. MAINLINE MARKING TAPE (PURPLE MARKING TAPE IF RECLAIMED)
6. IRRIGATION SPRAY LATERAL PIPE 12" DEPTH FOR SPRAY LATERALS 18" FOR ROTOR LATERALS
7. IRRIGATION MAINLINE PIPE
8. VALVE WIRING. BUNDLE AND TAPE PER IRRIGATION NOTES
9. BEDDING MATERIAL (SEE NOTES)

NOTE:
1. ALL MAINLINES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER' SPECIFICATIONS.
2. ALL PVC PIPING TO BE SNAKED IN TRENCHES AS SHOWN IN PLAN VIEW ABOVE.
3. PROVIDE HORIZONTAL OFFSET FOR PIPING IN SHARED TRENCHES.
4. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED AS PER LOCAL CODES.
5. ALL ELECTRICAL WIRE CONNECTIONS TO VALVES AND SPLICES TO BE INSTALLED WITHIN A VALVE BOX AND MADE WITH DBY WATERPROOF CONNECTORS, OR APPROVED EQUAL.
6. BUNDLE AND TAPE CONTROLLER WIRING PER NOTES AND INSTALL WITHIN MAINLINE TRENCH WHEREVER POSSIBLE.
7. CONTROLLER WIRE TO BE BURIED AT 18" MIN DEPTH IF NOT LOCATED WITH MAINLINE.
8. MANILINE BEDDING MATERIAL SHALL BE 1/4" MINUS SAND, AND SHALL BE 3" BELOW PIPE OR WIRE AND 3" ABOVE MAINLINE.
9. BEDDING IS NOT REQUIRED IN POLYETHYLENE TUBING TRENCHES OR SHARED TRENCHES.
10. EXCAVATED COVER MATERIAL SHALL BE FREE FROM DEBRIS AND ROCKS 1/2" OR GREATER.

9 PIPE TRENCH

SCALE: NTS



1. PAVING
2. WRAP 12 GAUGE GALVANIZED WIRE AROUND EACH END OF SLEEVE (10 WRAPS MIN.) AND EXTEND TO SURFACE AS A LOCATING DEVICE
3. FINISH GRADE / TOP OF DG
4. COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL
5. WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS
6. PVC SLEEVE PER SCHEDULE, TWICE DIAMETER OF THE SUM OF THE PIPES/ WIRES
7. EXTEND SLEEVES 6" BEYOND EDGES OF PAVING

NOTE:
1. ALL SLEEVES SHALL BE INSPECTED PRIOR TO BACKFILLING.
2. CAP SLEEVES UNTIL USE.
3. MULTIPLE SLEEVES REQUIRE 4" HORIZONTAL SEPARATION WITHIN SAME SLEEVE TRENCH.
4. IRRIGATION PIPE AND WIRE SHALL NOT SHARE THE SAME SLEEVE.
5. MARK / STAMP - 'X' AND/OR INSTALL PLACARD AT BACK OF CURB.

8 PIPE SLEEVE

SCALE: NTS

NOTES:
1. EACH QUICK COUPLER SHALL BE IN A SEPARATE VALVE BOX.
2. PROVIDE (1) QUICK COUPLER KEY FOR EACH QUICK COUPLER VALVE.
3. QUICK COUPLER SHALL HAVE LOCKING RUBBER COVER. COLOR PER LEGEND.
4. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUB-GRADE.
5. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.

1. FINISH GRADE
2. 10" ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO FLUSH WITH FINISH GRADE
3. QUICK COUPLING VALVE W/ LOCKING COVER PER SCHEDULE
4. SCH. 80 PVC RISER (T x T)
5. 3" DEPTH 3/4" GRAVEL BASE EXTEND 6" BEYOND EDGE OF BOX
6. PVC SWING JOINT
7. PVC MAINLINE
8. 24" LONG #4 REBAR TO HOLD QUICK COUPLER IN PLACE W/ (2) STAINLESS STEEL CLAMPS

7 QUICK COUPLER

SCALE: NTS

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

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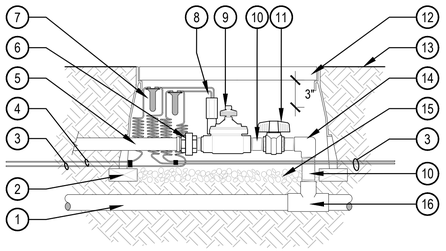
SHEET TITLE:
IRRIGATION DETAILS

LI-501

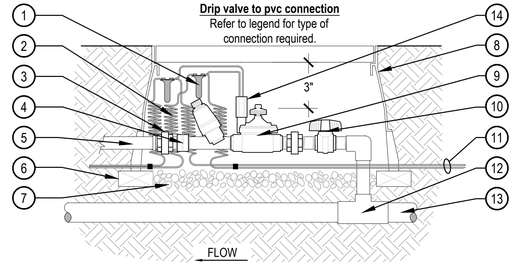


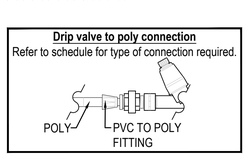
1. PVC MAINLINE
2. BRICK SUPPORT (4 MIN.)
3. CONTROL WIRE
4. COMMON WIRE TO NEXT VALVE(S)
5. PVC LATERAL W/ MALE ADAPTER
6. SCH. 80 PVC UNION (THREADED)
7. WATERPROOF CONNECTORS
8. IVM-SOL SOLENOID
9. CONTROL VALVE
10. (4) SCH. 80 PVC NIPPLE/ RISER (LENGTH & SIZE VARY)
11. SCH. 80 PVC BALL VALVE
12. LOCKING VALVE BOX
13. FINISH GRADE
14. PVC ELBOW (TxT)
15. 3/4" GRAVEL SUMP - 4" DEPTH
16. PVC TEE (SxSxT)

NOTE:
1. BUNDLE & TAPE WIRE EVERY 10 FT. SEAL WIRE ENDS WITH WATERPROOF SPLICING MATERIAL.
2. 30" MINIMUM LENGTH OF CONTROL WIRE, COILED AND PLACED IN BOX AT WATERPROOF CONNECTION TO SOLENOID.
3. INSTALL IVM SOLENOID PER MANUFACTURE'S SPECIFICATIONS FOR WIRING AND GROUNDING.

1 CONTROL VALVE WITH IVM SOLENOID

SCALE: NTS



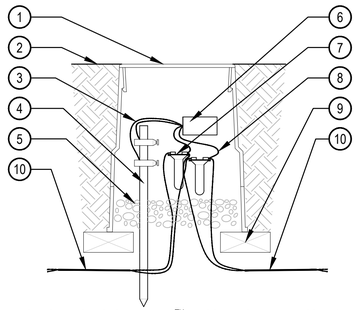


1. WATERPROOF CONNECTORS
2. 30" COIL OF WIRE MINIMUM PLACED IN BOX
3. (2) SCH. 80 PVC UNION (THREADED)
4. PVC COUPLING (FPTxFPT)
5. PVC LATERAL
6. BRICK SUPPORT (4 MIN)
7. 4" DEPTH GRAVEL SUMP
8. VALVE BOX PER IRRIGATION SCHEDULE, FLUSH TOP OF BOX W/ GRADE
9. CONTROL VALVE
10. SCH. 80 PVC BALL VALVE
11. CONTROL AND COMMON WIRES FROM CONTROLLER
12. SCH. 80 TEE (SxSxT)
13. PVC MAINLINE
14. IVM-SOL SOLENOID

NOTES:
1. BUNDLE & TAPE WIRE EVERY 10 FT. SEAL WIRE ENDS w/ WATERPROOF SPLICING MATERIAL.
2. 30" MINIMUM LENGTH OF CONTROL WIRE COILED AND PLACED IN BOX AT WATER PROOF CONNECTION TO SOLENOID.
3. INSTALL DECODERS PER MANUFACTURER'S SPECIFICATIONS FOR WIRING AND GROUNDING.

2 DRIP CONTROL ZONE KIT WITH IVM SOLENOID

SCALE: NTS

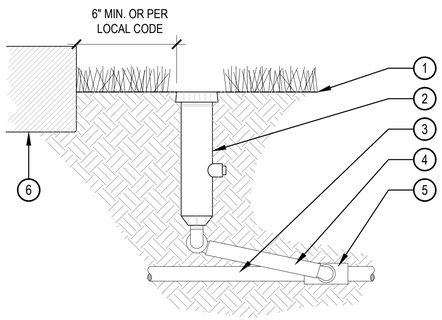


1. VALVE BOX PER SCHEDULE
2. FINISH GRADE
3. WIRE FROM LINE SURGE PROTECTOR TO GROUNDING ROD BRASS CLAMPS (1 OF 2)
4. GROUNDING ROD: 10 OHMS OR LESS
5. 3 INCH MINIMUM DEPTH OF 3/4 INCH WASHED GRAVEL
6. LINE SURGE ARRESTOR
7. WATERPROOF CONNECTORS
8. WIRE FROM DECODER TO WIRE CONNECTOR
9. BRICK (2 MINIMUM)
10. TWO-WIRE CABLE/COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR CONTROLLER)

NOTES:
1. INSTALL A LINE SURGE PROTECTOR EVERY 8TH DECODER OR EVERY 500 FT (WHICHEVER IS SHORTER), AND AT THE END OF EACH WIRE RUN.
2. INSTALL THE GROUNDING WIRE GROUNDING HARDWARE AT RIGHT ANGLES FROM THE TWO-WIRE PATHS, WHEN POSSIBLE.
3. EACH GROUND SYSTEM SHALL MAINTAIN A MAXIMUM GROUND RESISTANCE OF 10 OHMS OR LESS. REFER TO TWO-WIRE COMPONENTS MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS FOR INSTALLATION.
4. INSTALL GROUNDING PER ASIC'S GUIDELINES.

3 LINE SURGE PROTECTION

SCALE: NTS

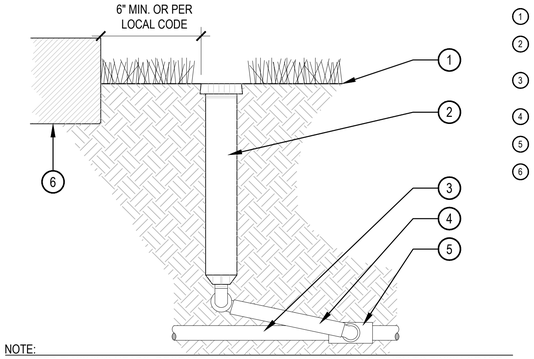


1. FINISH GRADE
2. POP-UP SPRAY HEAD PER SCHEDULE
3. PVC LATERAL PIPE
4. SWING JOINT ASSEMBLY
5. PVC SCH. 40 TEE OR ELL (S x T)
6. WALLS, WALKS, COURTS, CURB, ETC.

NOTE:
1. AFTER FLUSHING HEADS, REGRADE AND COMPACT AS NEEDED TO RETURN TO FINISH GRADE.
2. SPRINKLERS SHALL BE MIN. 6" FROM ANY WALLS, WALKS, COURTS, AND 12" FROM TURF EDGE.
3. ADJUST ALL SPRINKLERS HEADS SO THAT NO OVERSPRAY OCCURS ON ANY WALLS, WALKS, COURTS, ETC.
4. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
5. COMPACT SOIL AROUND HEAD TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.

4 POP-UP SPRAY

SCALE: NTS

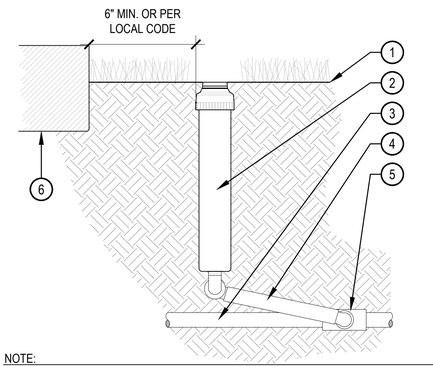


1. FINISH GRADE
2. 12" POP-UP SPRAY HEAD PER SCHEDULE
3. PVC LATERAL PIPE PER SCHEDULE
4. SWING JOINT ASSEMBLY
5. PVC SCH. 40 TEE OR ELL (S x T)
6. WALLS, WALKS, COURTS, CURB, ETC.

NOTE:
1. AFTER FLUSHING HEADS, REGRADE AND COMPACT AS NEEDED TO RETURN TO FINISH GRADE.
2. SPRINKLERS HEAD SHALL BE LEVEL WITH SURROUNDING FINISHED GRADE.
3. ADJUST ALL SPRINKLERS HEADS SO THAT NO OVERSPRAY OCCURS ON ANY WALLS, WALKS, COURTS, ETC.
4. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
5. COMPACT SOIL AROUND HEAD TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.

5 12 INCH POP-UP SPRAY

SCALE: NTS

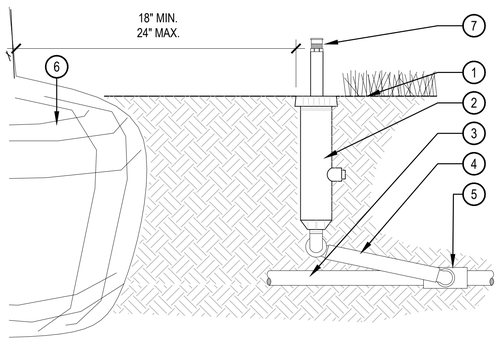


1. FINISH GRADE
2. ROTOR - SIZE PER PLAN
3. PVC LATERAL PIPE
4. SWING JOINT ASSEMBLY
5. PVC SCH. 40 TEE OR ELL (S x T)
6. WALLS, WALKS, COURTS, CURB, ETC.

NOTE:
1. SET TOP OF HEAD FLUSH WITH FINISH GRADE.
2. ADJUSTABLE ARC NOZZLES SHALL BE USED ON CURVED OR NON-STANDARD ANGLED EDGES.
3. ROTORS SHALL BE INSTALLED 6" MININUM FROM ANY WALLS, WALKS, COURTS, ETC. PER LOCAL CODES
4. ADJUST ALL ROTOR HEADS SO THAT NO OVERSPRAY OCCURS ON ANY WALLS, WALKS, COURTS, ETC.
5. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.

6 12 INCH POP-UP ROTOR

SCALE: NTS

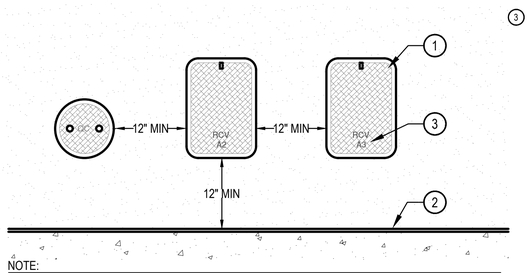


1. FINISH GRADE
2. POP-UP SPRAY HEAD PER SCHEDULE
3. PVC LATERAL PIPE
4. SWING JOINT ASSEMBLY
5. PVC SCH. 40 TEE OR ELL, (S x T)
6. TREE ROOT BALL
7. FULL CIRCLE BUBBLER (MODEL PER LEGEND)

NOTE:
1. AFTER FLUSHING HEADS, REGRADE AND COMPACT AS NEEDED TO RETURN TO FINISH GRADE.
2. SPRINKLERS SHALL BE MIN. 6" FROM ANY WALLS, WALKS, COURTS, AND 24" FROM ROOT BALL.
3. ADJUST ALL SPRINKLERS BODIES SO THAT NO FLOODING OCCURS ON ANY WALLS, WALKS, COURTS, ETC.
4. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
5. COMPACT SOIL AROUND HEAD TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUB-GRADE.

7 POP-UP BUBBLER

SCALE: NTS

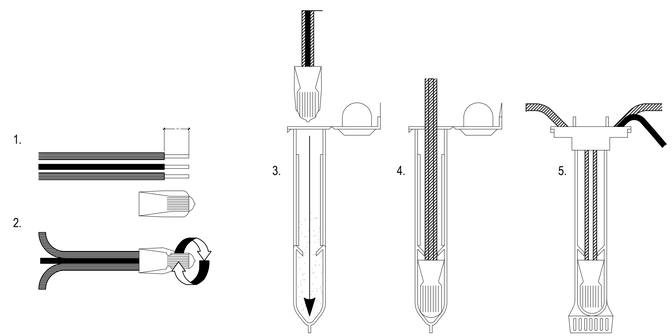


1. VALVE BOX; ALIGN EVENLY AND SPACE EVENLY FROM SIDEWALK, STRUCTURE, WALL, OR CURB
2. SIDEWALK OR PAVING
3. VALVE BOX LID BRANDED WITH CONTROLLER & STATION NUMBER

NOTE:
1. INSTALL ONLY ONE RCV TO VALVE BOX. LOCATE AT LEAST 12-INCHES FROM AND ALIGN WITH NEARBY WALLS OR EDGES OF PAVED AREAS. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL.
2. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL, BUT AVOID GROUPING MORE THAN THREE (3) STANDARD VALVE BOXES TOGETHER IN A SERIES.
3. ARRANGE GROUPED VALVE BOXES IN RECTANGULAR PATTERNS.

8 VALVE BOX PLACEMENT

SCALE: NTS



NOTE:

1. STRIP ENDS OF WIRE - 1/2"
2. SECURE WIRES INTO WIRE NUT
3. INSERT WIRE NUT INTO CAPSULE
4. PUSH WIRE INTO BOTTOM OF CAPSULE
5. CLOSE COVER OF CAPSULE, SEPARATING WIRES INTO CHANNELS
6. VISUALLY CHECK THAT CONNECTOR IS BELOW LOCKING "FINGERS"

9 DIRECT BURY WIRE SPLICE

SCALE: NTS

CHECKED BY: CG, MT
DRAWN BY: BP, CG, LF, NP

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WILDFLOWER COTTAGES AT HAYMEADOW
EAGLE, COLORADO

OWNER:
ABRIKA PROPERTIES, LLC

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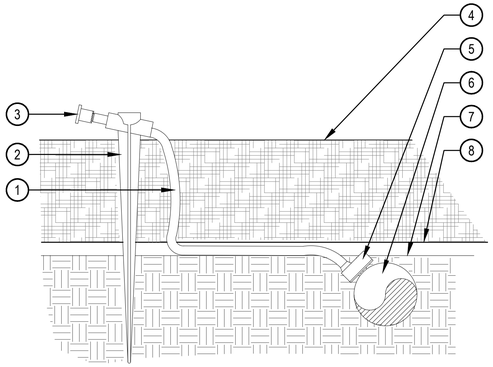
OCALA FL, 34476
352.854.7753

NOT FOR CONSTRUCTION

DATE:
08/01/25 MAJOR DEVELOPMENT PLAN
01/07/26 MAJOR DEVELOPMENT PLAN 02

SHEET TITLE:
IRRIGATION DETAILS

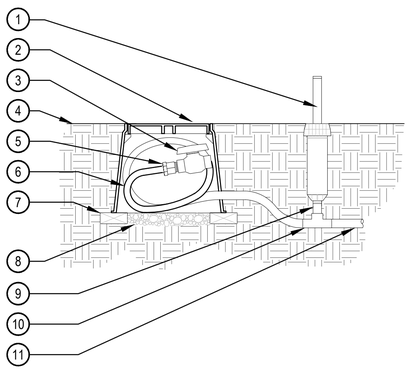
LI-502



1. 1/4" DISTRIBUTION TUBING. RUN TUBING UNDER WEED BARRIER FABRIC TO PLANT. LENGTH NOT TO EXCEED 8'
2. UNIVERSAL 1/4" STAKE
3. DIFFUSER CAP
4. TOP OF MULCH
5. PRESSURE COMPENSATING EMITTER PER EMITTER SCHEDULE. INSTALL EMITTER AT 45° TO 60° ANGLE
6. 3/4" POLYETHYLENE TUBING SET WITH TOP OF TUBING FLUSH WITH FINISH GRADE OF SOIL
7. FINISH GRADE OF SOIL
8. WEED BARRIER FABRIC

1 SINGLE OUTLET EMITTER

SCALE: NTS

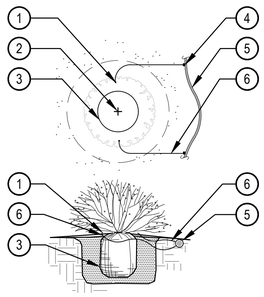


1. 12" MIN. POP-UP HEAD WITH ENCLOSED NOZZLE AND SWING PIPE. (ZONE OPERATIONAL INDICATOR)
2. LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
3. 3/4" SCH. 40 PVC BALL VALVE
4. FINISH GRADE
5. 3/4" MxI MALE ADAPTER W/ CLAMPS
6. 3/4" POLYETHYLENE DRIP TUBING - 24" COIL IN BOX FOR MAINTENANCE
7. BRICK (2 REQUIRED MIN.)
8. 3/4" GRAVEL SUMP, 4" DEPTH
9. 1/2" SCH. 80 NIPPLE (LENGTH AS NEEDED)
10. 3/4"x3/4"x1/2" IxIxF INSERT TEE
11. POLY LATERAL

NOTE:
1. COMPACT SOIL AROUND VALVE BOX TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.
2. INSTALL OPERATIONAL INDICATOR WITHIN 24" OF FLUSH VALVE.
3. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.

4 DRIP FLUSH VALVE WITH OPERATIONAL INDICATOR

SCALE: NTS

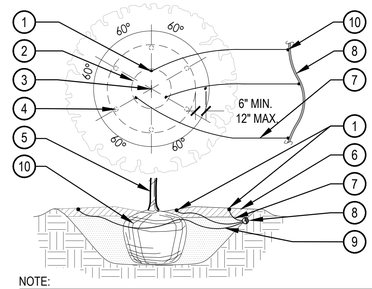


1. DIFFUSER CAP W/ DRIP STAKE
2. PLANT CENTER
3. PLANT ROOTBALL
4. SINGLE OUTLET EMITTER
5. 3/4" POLYETHYLENE DRIP TUBING
6. 1/4" DISTRIBUTION TUBING (LENGTH NOT TO EXCEED 8')

NOTE:
1. EMITTERS SHALL BE EQUALLY SPACED AROUND ROOTBALL.
2. FLUSH ALL LINES THOROUGHLY PRIOR TO EMITTER INSTALLATION.
2. IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL EMITTERS ON THE UPHILL SIDE OF PLANT.
3. EMITTERS SHALL BE SELF-FLUSHING PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE.
4. DRIP VALVE ZONES (HYDROZONES) ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS AND SUN EXPOSURE.
5. CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.

2 SINGLE OUTLET EMITTER PLACEMENT

SCALE: NTS



1. EMISSION POINT. DIFFUSER CAP W/ DRIP STAKE (TYP.)
2. PLANT ROOT BALL (TYP.)
3. PLANT CENTER (TYP.)
4. SECOND EMISSION POINTS SEE NOTE 3 BELOW
5. TREE TRUNK
6. MULCH LAYER
7. 1/4" DISTRIBUTION TUBING (LENGTH NOT TO EXCEED 8')
8. 3/4" POLYETHYLENE DRIP TUBING
9. SINGLE OUTLET EMITTER
10. ROOTBALL

NOTE:
1. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 8'.
2. ALL EMISSION POINTS SHALL BE LOCATED ON UPHILL SIDE OF PLANT MATERIAL. ONE EMISSION POINT SHALL BE DIRECTLY TO PLANT BALL AS INDICATED. ADDITIONAL EMISSION POINTS SHALL BE WITHIN PLANT PIT PERIMETER AS DIRECTED IN THE EMITTER SCHEDULE.
3. SECOND EMISSION POINTS (IF NEEDED) AS PER THE EMITTER SCHEDULE FOR TREES WITH 3" CALIPER OR GREATER OR CONIFEROUS TREES 10' OR GREATER IN HEIGHT.
4. THIS IS A WATERING GUIDE ONLY. SITE, SOIL AND PLANT CONDITIONS VARY GREATLY. CONTRACTOR MUST OBSERVE THE PLANT MATERIAL AND MAKE ADJUSTMENTS AS NECESSARY FOR PROPER PLANT WATER REQUIREMENT.

3 TREE EMITTER PLACEMENT

SCALE: NTS

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SHEET TITLE:
IRRIGATION DETAILS

LI-503

CHECKED BY: GG, MT
DRAWN BY: BP, CG, LF, NP