

5. RELOCATION SPECIFICATIONS

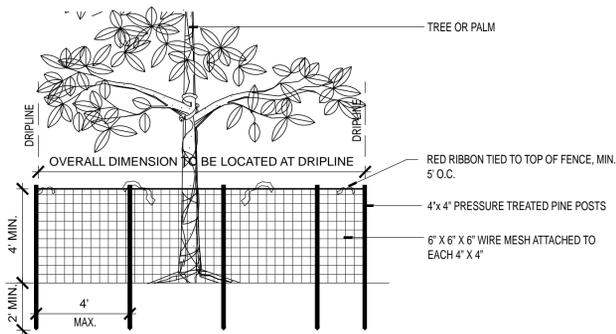
5.1. GENERAL

- 5.1.1. VERIFY AND ENSURE ALL TREES/PALM IDENTIFIED ON THE CONSTRUCTION DRAWINGS AND THOSE TAGGED IN THE FIELD CORRESPOND AS TO NUMBER AND DESCRIPTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY, PRIOR TO PREPARATION.
- 5.1.2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR TREE/PALM PROTECTION OF ALL VERIFIED MATERIAL. INSTALL BARRICADE OF GALVANIZED WELDED WIRE FABRIC OR PLASTIC MESH TO ENCOMPASS THE DRIP LINE OF THE TREE PALM. BARRICADE TO BE REMOVED WHEN DIRECTED BY LANDSCAPE ARCHITECT.
- 5.1.3. TREE ROOT BALL SHALL BE: ROOT PRUNED 50% (EQUALLY AROUND TREE) 60 DAYS PRIOR TO TRANSPLANT, THE REMAINING 50% TO BE PRUNED 30 DAYS PRIOR TO TRANSPLANTING.
- 5.1.4. PALMS TO BE RELOCATED MAY BE IMMEDIATELY RELOCATED AFTER DIGGING. GUMBO LIMBO (BURSERA SIMARUBA) TREES MAY ALSO BE RELOCATED IMMEDIATELY AFTER DIGGING.
- 5.1.5. ROOT TO BE PRUNED WITH CLEAN, SHARP TOOLS. ROOTS 1 INCH AND LARGER IN DIAMETER SHALL BE NEATLY AND CLEANLY CUT WITH A HANDSAW OR OTHER APPROVED CUTTING IMPLEMENT AS DIRECTED BY AN ISA OR ASCA CERTIFIED ARBORIST.
- 5.1.6. LANDSCAPE CONTRACTOR TO APPLY MYCORRHIZA APPLICATION TO ROOTS DURING ROUTE PRUNING AND DIGGING OPERATIONS. ALL PRUNING TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PRUNING.
- 5.1.7. DEADWOOD, CROSSING BRANCHES, AND GENERAL CANOPY PRUNING SHALL BE PERFORMED OR DIRECTED BY AN ISA OR ASCA CERTIFIED ARBORIST IN ACCORDANCE WITH THE LATEST VERSION OF THE ANSI A-300 PRUNING STANDARDS AND GOOD HORTICULTURAL PRACTICES IMMEDIATELY AFTER COMPLETION OF ROOT PRUNING OF EACH SPECIMEN TO BE RELOCATED. ALL PRUNING TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PRUNING.
- 5.1.8. ROOT BALL SIZE TABLE: (NOTE: ROOT BALL SIZES SHALL EXCEED MINIMUM STANDARDS SET FORTH IN GRADES AND STANDARDS FOR NURSERY PLANTS, PART TWO, PALMS AND TREES, FLORIDA DEPARTMENT OF AGRICULTURE).

TREE/PALM CALIPER	MINIMUM ROOTBALL DIAMETER
1" - 1 1/2"	16"
1 1/2" - 2"	20"
2" - 2 1/2"	24"
2 1/2" - 3"	28"
3" - 3 1/2"	32"
3 1/2" - 4"	36"
4" - 4 1/2"	40"
4 1/2" - 5"	44"
5" - 5 1/2"	48"

THE ROOT BALL OF LARGER CALIPER SIZES SHALL BE INCREASED PROPORTIONALLY AT 3 INCHES OF ROOTBALL DIAMETER FOR EVERY INCREASE OF 1 INCH IN CALIPER OR FRACTION THERE OF.

- 5.1.9. MAINTAIN COMPACT ROOT BALLS. ROOT BALL SHALL BE COMPLETELY ENCLOSED WITHIN A BURLAP COVERING OR STRETCH WRAP AS COMMONLY USED WITHIN THE HORTICULTURAL INDUSTRY, INTO COMPLETE LAYERS.
- 5.1.10. ALL TREES TO BE FLOODED FOR FIVE DAYS PRIOR TO TRANSPLANT.
- 5.1.11. ALL PITS TO BE FILLED THE SAME DAY AND WITH CLEAN FILL AND 18 INCH LIFT/LAYERS. EACH THEN COMPACTED BEFORE A SUBSEQUENT 18 INCH LIFT/LAYER IS PLACED. REPEAT UNTIL BACKFILL IS FLUSH WITH SURROUNDING GRADE.
- 5.1.12. CORRECT ALL PROBLEMS RELATED TO SETTLEMENT, EROSION, OR OTHER DISTRESS OF EXCAVATED/BACKFILLED PIT FROM WHICH TREE/PALM HAS BEEN REMOVED, INCLUDING THE COMPLETE AND THOROUGH REMOVAL OF ALL RESIDUAL ROOTS, STUMPS AND PORTIONS AND PARTS THERE OF.
- 5.1.13. RESTORE THE SURFACE WITH MATERIAL TO MATCH ADJACENT AREAS. MATERIAL TO BE APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE A MINIMUM ONE-YEAR WARRANTY ON SETTLING AND PLANT MATERIAL.
- 5.1.14. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL INCLUDING BUT NOT LIMITED TO BACKFILL MATERIAL, PROTECTION FENCING, FLAGGING, ROOT BALL BURLAP OR SHRINK WRAP.
- 5.1.15. ALL RELOCATED TREES AND PALMS MUST BE WATERED TWICE DAILY FOR 2 WEEKS AND DAILY FOR AN ADDITIONAL 2 WEEKS, BEGINNING IMMEDIATELY AFTER TRANSPLANTING HAS OCCURRED..



NOTE: BARRIER TO BE CONTINUOUS AROUND THE TREE OR GROUP OF TREES. SEE LANDSCAPE PLAN FOR LOCATION OF TREES TO REMAIN.

1 TREE PROTECTION DETAIL

ELEVATION SCALE: N.T.S.

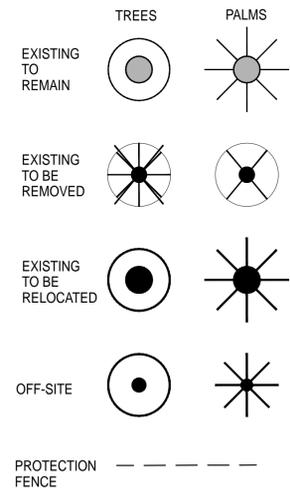
TREE PROTECTION NOTES

1. TREE SURVEY BASED ON ALL AVAILABLE INFORMATION. CONTRACTOR TO REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. TREES SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITY THROUGH THE USE OF PROTECTIVE BARRIERS (SEE PROVIDED DETAIL). TREES THAT ARE TO REMAIN SHALL BE CLEARLY IDENTIFIED WITH TAGS. TREE PROTECTION BARRIERS SHALL BE MAINTAINED AROUND THE TREES IN ACCORDANCE WITH THE TREE PROTECTION PLAN APPROVED BY THE DEPARTMENT.
3. PRIOR TO AND DURING DEMOLITION, DEVELOPMENT, OR CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED AROUND THE PERIMETER OF EACH TREE'S TPZ AND SHALL REMAIN IN PLACE IN ORDER TO PREVENT THE DESTRUCTION OR DAMAGING OF ROOTS, STEMS OR CROWNS OF SUCH TREES. THE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL APPROVED LANDSCAPE OPERATIONS BEGIN.
4. BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION NEEDS, PROVIDED THAT THE MANNER AND PURPOSE FOR SUCH TEMPORARY REMOVAL WILL NOT HARM THE TREES.
5. THE TREES SHALL BE PROPERLY IRRIGATED THROUGHOUT THE BUILDING PROCESS.
6. NO PRUNING OF TREES SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
7. CONTRACTOR SHALL VERIFY ALL EXISTING ABOVE AND UNDERGROUND UTILITIES 48 HOURS PRIOR TO ANY ON-SITE EXCAVATION.
8. CONTRACTOR TO COORDINATE DEMOLITION PLAN WITH ARCHITECTS
9. ANY PLANT MATERIAL SCARRED OR DESTROYED THAT IS DESIGNATED TO REMAIN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH SIMILAR SPECIES AND QUALITY.

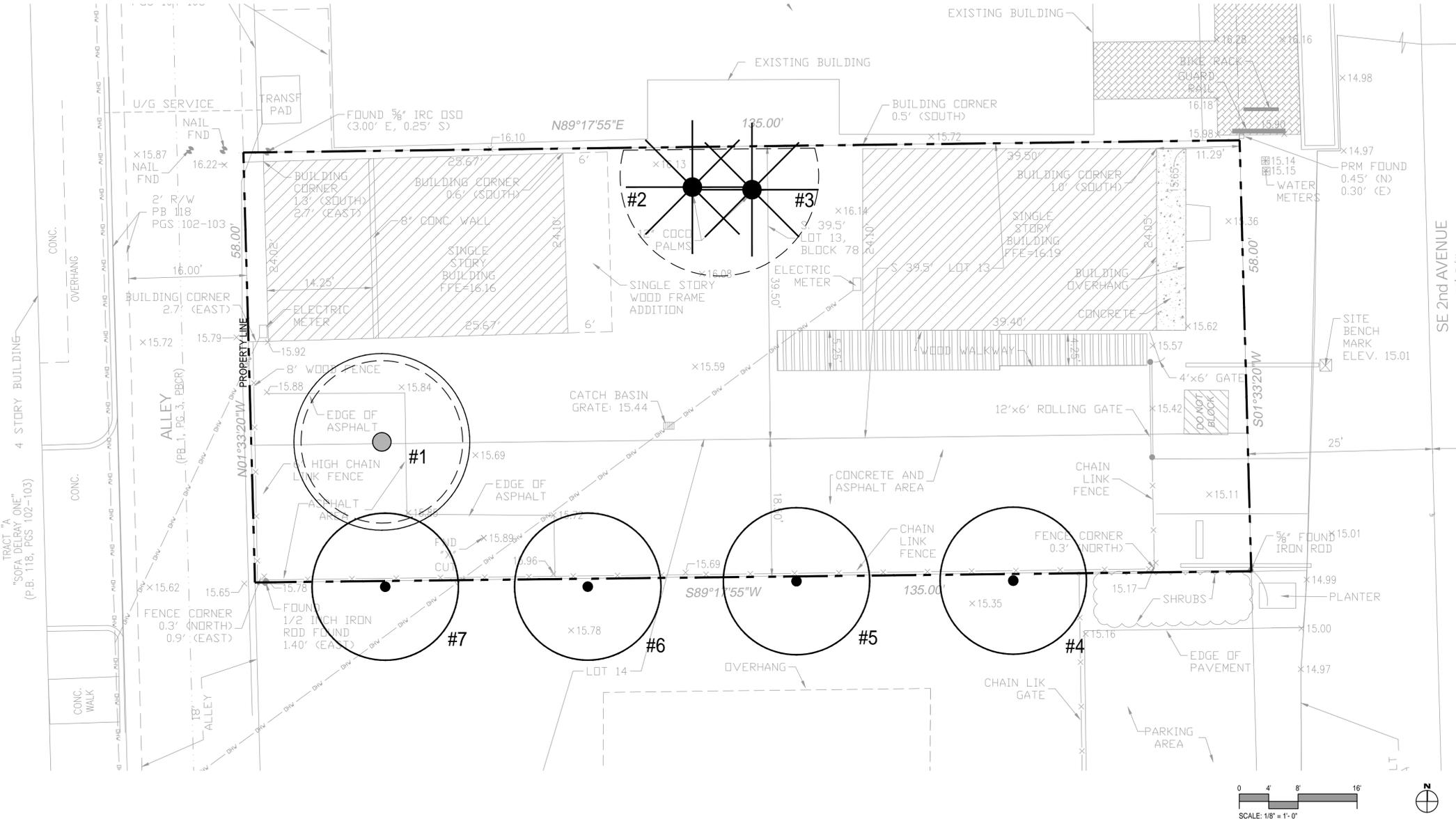
TREE DISPOSITION

Tree Number	Botanical Name	Common Name	DBH (Inches)	Height (FT)	Canopy (FT)	Disposition	Condition
1	Bursera simaruba	Gumbo Limbo	16"	20'	25'	Remain	Good
2	Cocos nucifera	Coconut Palm	12"	25'	25'	Relocate	Good
3	Cocos nucifera	Coconut Palm	12"	25'	25'	Relocate	Good
4	Quercus virginiana	Live Oak	16"	25'	25'	-	Offsite
5	Quercus virginiana	Live Oak	16"	25'	25'	-	Offsite
6	Quercus virginiana	Live Oak	16"	25'	25'	-	Offsite
7	Quercus virginiana	Live Oak	12"	20'	20'	-	Offsite

PLANT SYMBOLS



Know what's below. Call before you dig.



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PROJECT:  
166 SE 2ND AVE, DELRAY BEACH, FL 33444  
**LANDSCAPE PERMIT DRAWINGS**  
CLIENT:  
TAQUIZA

REVISIONS:

No.	Date	Description

SEAL:  
LANDSCAPE ARCHITECT: Christopher Cabezas

REGISTRATION NO. RL4 6667347  
SHEET TITLE:

TREE DISPOSITION

Scale: 1/8" = 1' - 0"  
Drawn By: CC  
Checked By: CC  
Date: 01/15/2020  
SHEET NUMBER:

LR-1





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No. Date Description

SEAL: LANDSCAPE ARCHITECT Christopher Cabezas

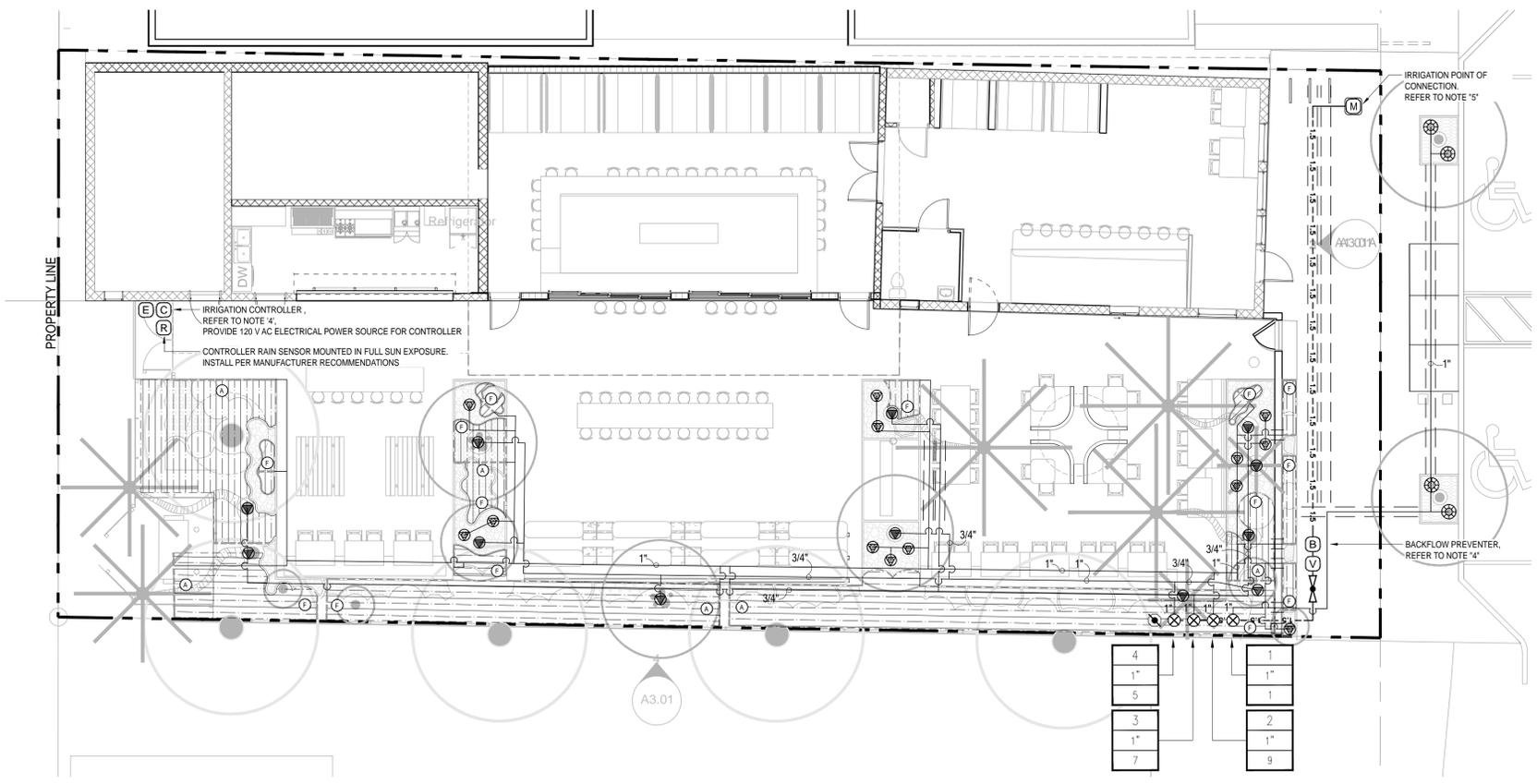
REGISTRATION NO. RL666747

SHEET TITLE: IRRIGATION PLAN, NOTES AND DETAILS

Scale: 1/8" = 1'-0"  
Drawn By: JS  
Checked By: CC  
Date: 01/17/2020

SHEET NUMBER:

**IR-1**



**IRRIGATION MATERIAL LEGEND**

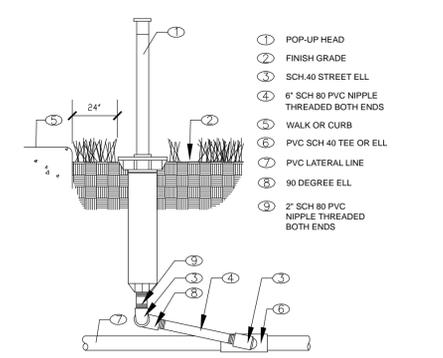
SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION
	HUNTER	PROS-06-PR530-CV POP-UP BUBBLER HEAD W/ MSBN-500 BUBBLE NOZZLE (0.50 GPM EA. AT 30 PSI), EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL.
	RAINBIRD	RWS-M-B-C-1401: MINI ROOT WATERING SYSTEM WITH 18" (45.7 CM) TUBE, 0.25 GPM (0.95 L/M) BUBBLER & CHECK VALVE ON RISER, 4" (10.2 CM) GRATE, 1/2" (15.2) M NPT INLET SPIRAL BARB ELBOW
	HUNTER	PLD-06-12 DRIP TUBING WITH 0.60 GPH EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. EMITTERS SHALL BE PRESSURE COMPENSATING AND EQUIPPED WITH AN INTERNAL CHECK VALVE. USE PLD-06-12 TUBING IN SHRUB AND GROUND COVER AREAS 4" BELOW FINISHED SOIL GRADE AND AT A MAXIMUM TUBING SPACING OF 16" ON CENTER. INSTALL THE ROW ADJACENT TO PAVING OR CURB EDGE A MAXIMUM OF 4" OFF OF THE EDGE. INSTALL 6" GALVANIZED STEEL JUTE WIRE STAPLES A MAXIMUM OF FIVE FEET ON CENTER ALONG THE LENGTH OF THE TUBING.
	HUNTER	SD-T SOLO-DRIP W/ 10-32 THREADS, 360°
	HUNTER	PLD 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING
	HUNTER	PLD-050 17mm BARB X 1/2" MIPT MALE ADAPTERS WITH PVC TEE OR ELL FITTINGS FOR CONNECTION BETWEEN PVC LINES AND DRIP TUBING
	HUNTER	PLD-AVR AIR/VACUUM RELIEF VALVE INSTALLED WITH PLD075BTBEE BARB X 3/4" FIPT TEE FITTING AND A 3/4" X 1/2" PVC REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. INSTALL A MINIMUM OF ONE (1) ARV FOR EVERY 500 FEET OF DRIP TUBING IN ANY GIVEN DRIP ZONE. USING AN AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIPLINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S SHALL BE REQUIRED PER RCV WITHIN UNDULATING AREAS, VERIFY QUANTITY PRIOR TO STARTING WORK.
	HUNTER	GDFN DRIP FLUSH / INDICATOR NOZZLE. ORANGE IN COLOR, INSTALLED ONTO A HUNTER PROS-12 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.
	P.O.C.	1-1/2" POTABLE SUB-METER WITH 1-1/2" SERVICE LINE, VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD
	WILKINS	975XLS, 1-1/2" R/P BACKFLOW PREVENTION DEVICE WITH 1-1/2" WYE STRAINER
	HUNTER	ICV-101G 1" NORMALLY CLOSED, PLASTIC MASTER CONTROL VALVE
	LASCO	SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS, LINE SIZE
	HUNTER	HQ-33DLRC QUICK COUPLER VALVE, INSTALL WITHIN 10" ROUND VALVE BOX
	HUNTER/TORO	ICV-101G-FS (1") SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, INSTALL TORO T-ALFD75159-L, 3/4" DISC FILTER AND SENNINGER PRESSURE REGULATOR PMR-MF-40. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE
	RAIN BIRD	CONTROLLER SHALL BE A ESP-36LXMEF SERIES, 12-STATION BASE CONTROLLER WITH FLOW SMART MODULE AND 2x ESPLXMSM12 12-STATION MODULES FOR TOTAL CAPACITY OF 36-STATIONS. CONTROLLER SHALL BE INSTALLED AT LOCATION SHOWN ON PLANS, APPROXIMATELY 4'-6" ABOVE FINISH GRADE. COORDINATE FINAL LOCATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.
	RAIN BIRD	RSD-BEX SERIES RAIN SENSOR WITH METAL BRACKET, MOUNT TO TOP OF WALL IN FULL SUN EXPOSURE AND WIRE TO CONTROLLER
	N/A	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD
	AS APPROVED	PVC PIPE 3/4" - 1-1/4" SCH. 40 AS LATERAL LINES 12" BELOW GRADE
	AS APPROVED	PVC PIPE 1-1/2" SCH. 40 SOLVENT WELD AS MAINLINES 18" BELOW GRADE, ALL FITTINGS SHALL RECEIVE THRUST BLOCKING
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE WITH MOLDED THREADS.
	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)
	GPH IRRIGATION	GBDBRY6 DIRECT BURIAL WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS
	RAIN BIRD	VB SERIES VALVE BOXES. BLACK BOXES AND BLACK LIDS WITH PENTA HEAD BOLT, WASHER AND CLIP

DESCRIPTION	(BLACK BOXES AND BLACK LIDS)
7" ROUND BOXES	VB-7RND (BOX) AND VB-7RNDL (LID)
10" ROUND BOXES	VB-10RND (BOX) AND VB-10RNDL (LID)
STANDARD RECTANGULAR BOXES	VB-STDB (BOX) AND VB-STDBL (LID)
JUMBO RECTANGULAR BOXES	VB-JMB (BOX) AND VB-JMBL (LID)

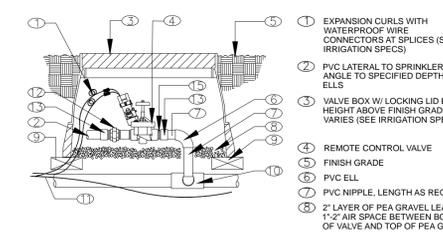
STATION	VALVE	GPM
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**IRRIGATION NOTES**

- PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
- ALL MAINLINE, LATERAL LINE AND CONTROL WIRE CONDUIT UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. SLEEVES SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED.
- INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER AS PER LOCAL CODES.
- FINAL LOCATION OF THE BACKFLOW PREVENTER AND AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- VERIFY THE ACTUAL METER LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT.
- 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM SPRAY WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS, ETC.
- THIS DESIGN IS DIAGRAMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREAS WHERE POSSIBLE.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
- DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE IRRIGATION CONTRACTOR SHALL INSTALL CHECK VALVES ON ALL HEADS IN AREAS WHERE FINISH GRADE EXCEEDS 4:1, WHERE POST VALVE SHUT-OFF DRAINING, OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE 1800 PCS (PRESSURE COMPENSATING SCREENS) AS NECESSARY TO REDUCE OR ELIMINATE OVERSPRAY ONTO STREETS, WALKS OR OTHER AREAS AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL CONTROL WIRES SHALL BE INSTALLED IN PVC CONDUIT.
- ALL REMOTE CONTROL VALVES, GATE VALVES, QUICK COUPLERS, CONTROL WIRE AND COMPUTER CABLE PULL POINTS SHALL BE INSTALLED IN APPROVED VALVE BOXES WITH COVERS.
- LATERAL LINE AND MAINLINE PIPING WITHIN BUILDING SHALL BE TYPE B COPPER AND IS SHOWN FOR CLARITY ONLY. ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR. ALL PIPING THROUGH THE BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

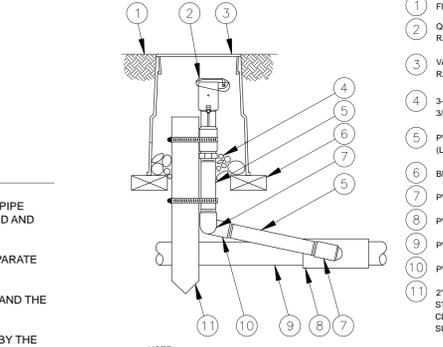


**1 POP-UP SPRINKLER/TREE BUBBLER**  
N.T.S.

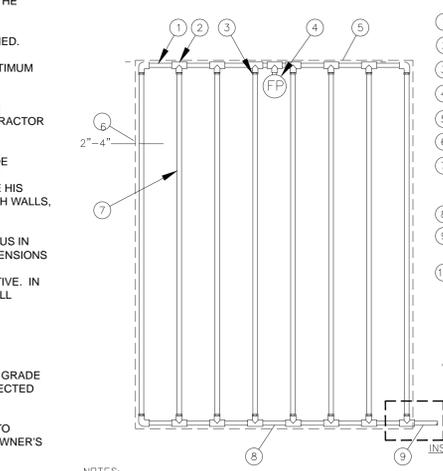


- EXPANSION CURLS WITH WATERPROOF WIRE CONNECTORS AT SPLICES (SEE IRRIGATION SPECS)
- PVC LATERAL TO SPRINKLERS ANGLE TO SPECIFIED DEPTH W/ 45 ELLS
- VALVE BOX W/ LOCKING LID BOX HEIGHT ABOVE FINISH GRADE VARIES (SEE IRRIGATION SPECS)
- REMOTE CONTROL VALVE
- FINISH GRADE
- PVC ELL
- PVC NIPPLE, LENGTH AS REQ.
- 2" LAYER OF PEA GRAVEL LEAVE 1" AIR SPACE BETWEEN BOTTOM OF VALVE AND TOP OF PEA GRAVEL
- BRICK SUPPORT (1) AT EACH CORNER
- PVC MAINLINE FITTINGS
- CONTROLLER WIRES
- LASCO SCH.80 UNION
- PVC MALE ADAPTER

**3 REMOTE CONTROL VALVE**  
N.T.S.

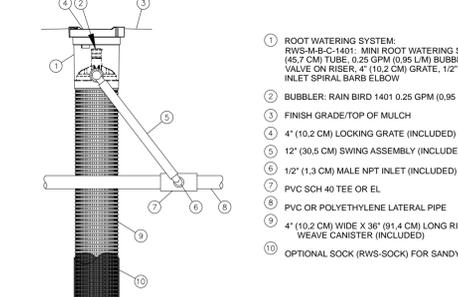


**6 QUICK COUPLER VALVE**  
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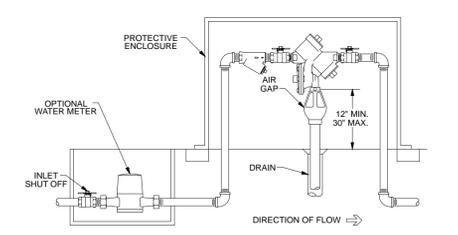


- PVC EXHAUST HEADER
- PVC SCH 40 TEE OR EL (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XF--MA FITTING (TYPICAL)
- FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFC FLUSH POINT"
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
- ON--SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFCV DRIPLINE
- PVC SUPPLY HEADER
- PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- PVC SCH 40 RISER PIPE

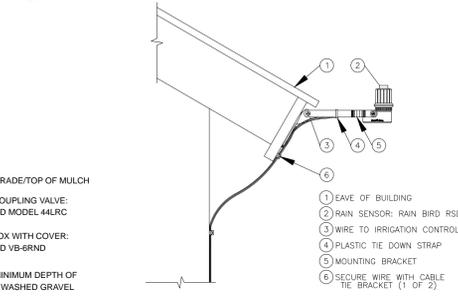
**8 DRIP IRRIGATION**



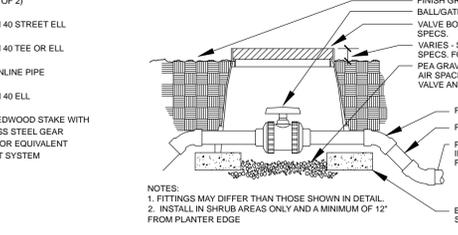
**2 ROOT WATERING SYSTEM**



**4 R/P BACKFLOW PREVENTER - HORIZONTAL**  
N.T.S.



**5 RAIN SENSOR (RSD-BEX)**  
N.T.S.



**7 BALL VALVE**  
N.T.S.

FLORIDA BUILDING CODE- APPENDIX F PART V- A-6	
WATER PIPE SIZE	SLEEVE SIZE
3/4"	1 1/2"
1"	2"
1 1/4"	2 1/2"
1 1/2"	3"
2"	4"
3"	6"
4"	8"

SLEEVES TO EXTEND A MIN. 3" BEYOND ALL PAVED AREAS, BACKFILL AND COMPACTION PER APPENDIX F

FLORIDA BUILDING CODE- APPENDIX F PIPE INSTALLATION-DEPTH OF COVER	
VEHICLE TRAFFIC AREAS	
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)
1/2" TO 2 1/2"	18" TO 24"
3" TO 5"	24" TO 30"
6" OR GREATER	30 TO 36"
NON-TRAFFIC AND NON-CULTIVATED AREAS	
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)
1/2" TO 1 1/4"	6" TO 12"
1 1/2" TO 2"	12" TO 18"
2 1/2" TO 3"	18" TO 24"
4" OR LARGER	24" TO 36"

XFCV Dripline Maximum Lateral Lengths (Feet)				
Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
0.6	0.6	0.9	0.6	0.9
20	192	136	254	215
30	289	205	402	337
40	397	248	498	416
50	397	281	573	477
60	436	309	637	529