

PERIMETER BUFFER REQUIREMENTS			
FRONT	105 LINEAR FEET - KINGSLEY AVENUE	REQUIRED	PROVIDED
SOUTH	MINIMUM WIDTH	10'	10'
	1 CANOPY TREE PER 30 LINEAR FEET	4	4
	SCREENING SHRUB	YES	YES
EAST	435 LINEAR FEET		
	MINIMUM WIDTH	5'	5'
	1 CANOPY TREE PER 30 LINEAR FEET	15	15*
	SCREENING SHRUB	YES	YES
WEST	535 LINEAR FEET		
	MINIMUM WIDTH	9'	5'
	1 CANOPY TREE PER 30 LINEAR FEET	18	18*
	SCREENING SHRUB	YES	YES
NORTH	230 LINEAR FEET		
	MINIMUM WIDTH	20'	20'
	1 CANOPY TREE PER 30 LINEAR FEET	8	8
	SCREENING SHRUB	YES	YES

* EXISTING TREES SATISFY A PORTION OF THE REQUIRED TREES. SEE PLAN.

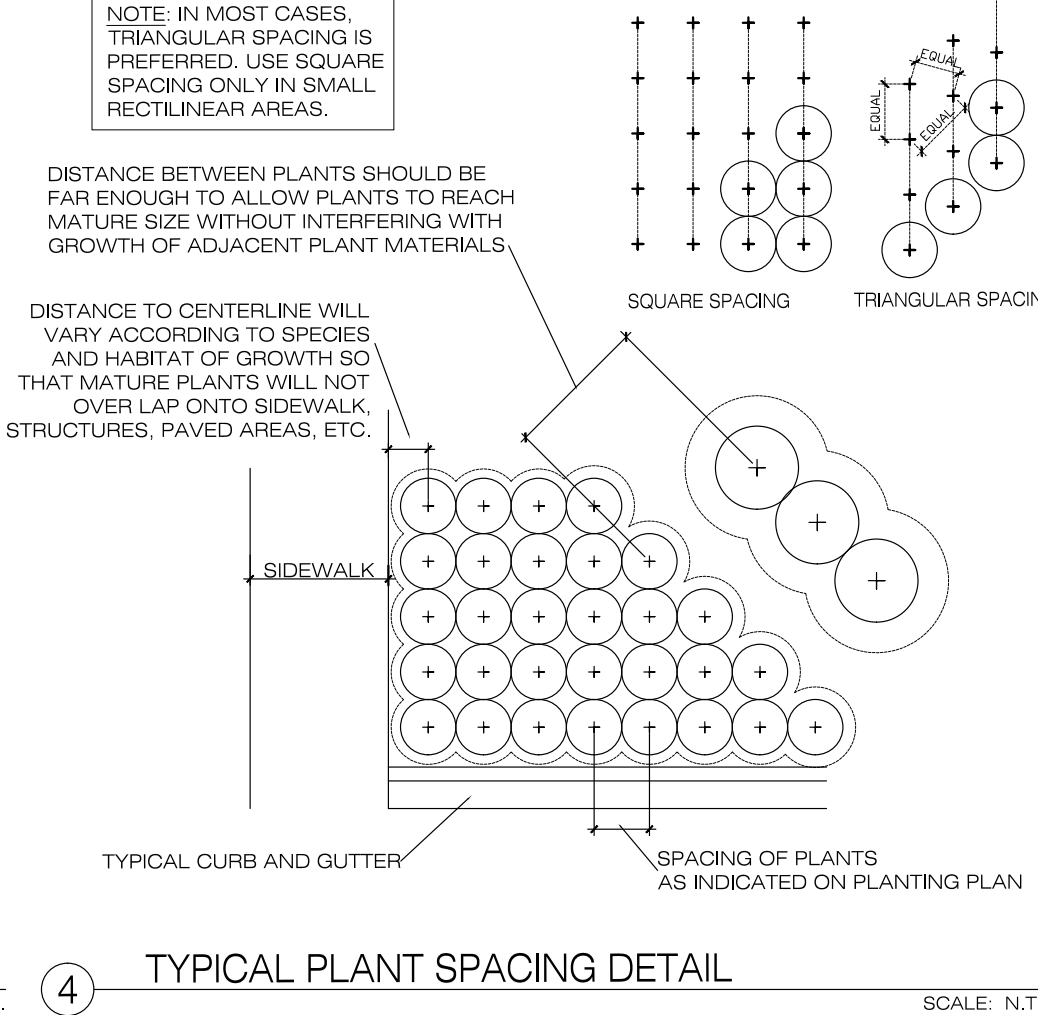
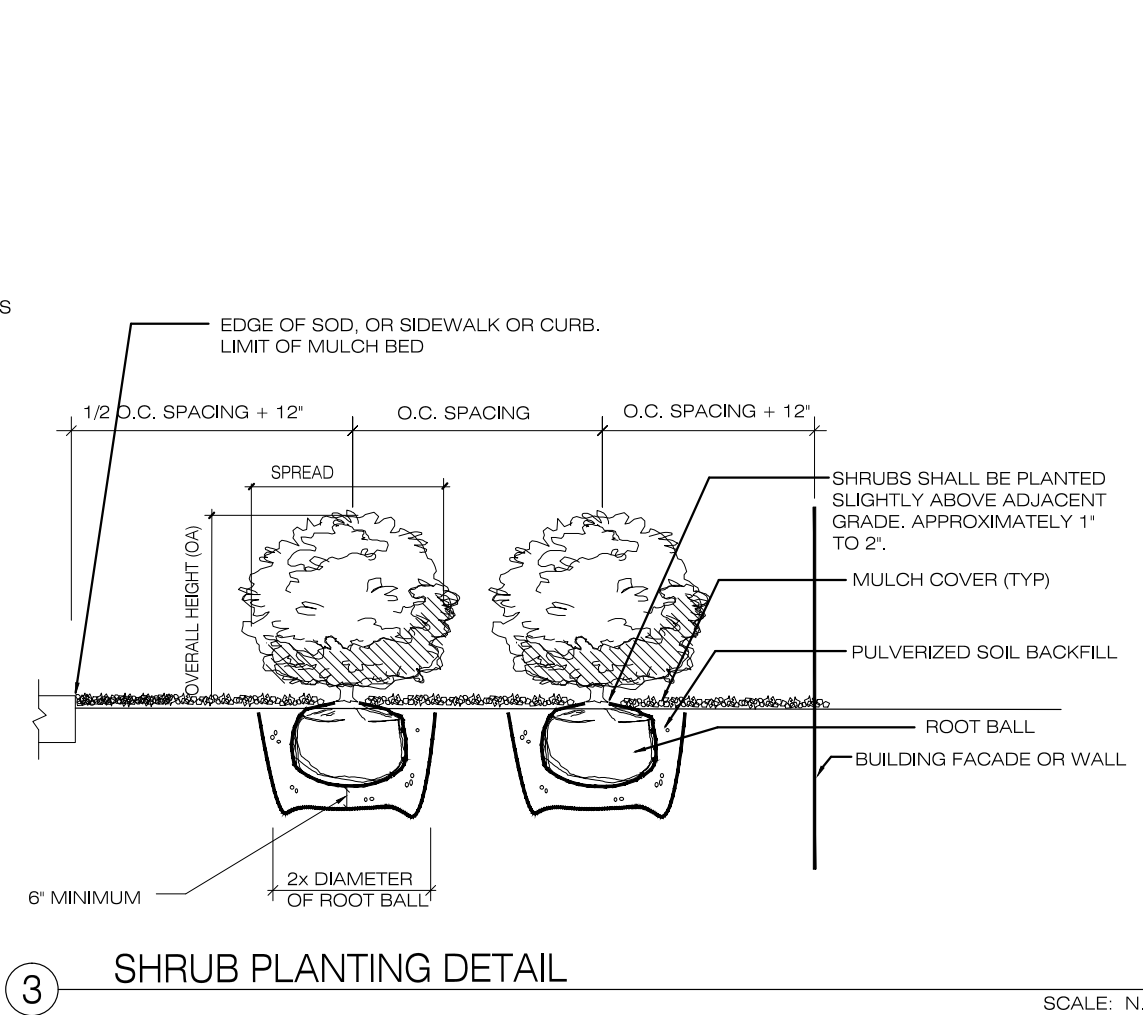
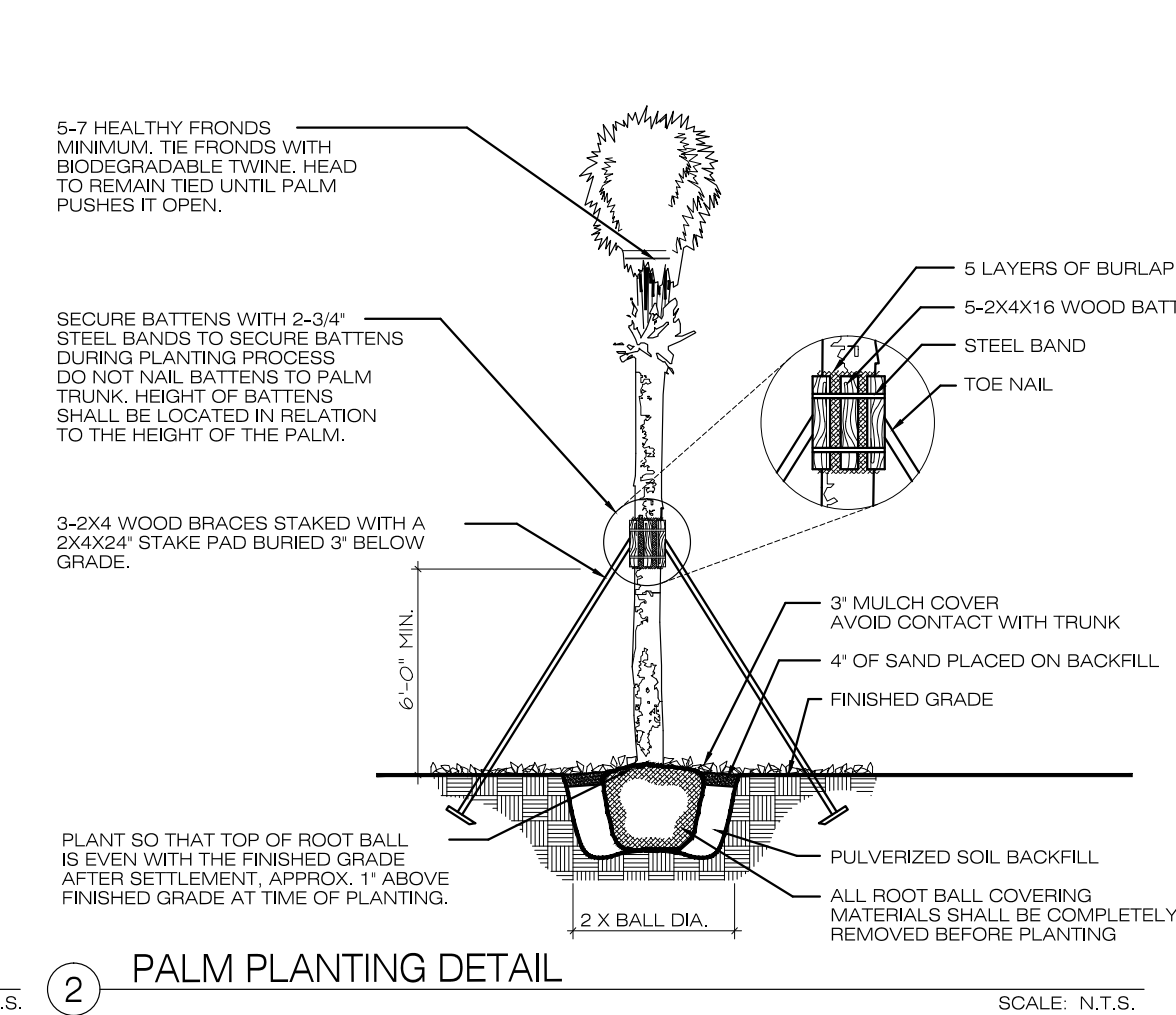
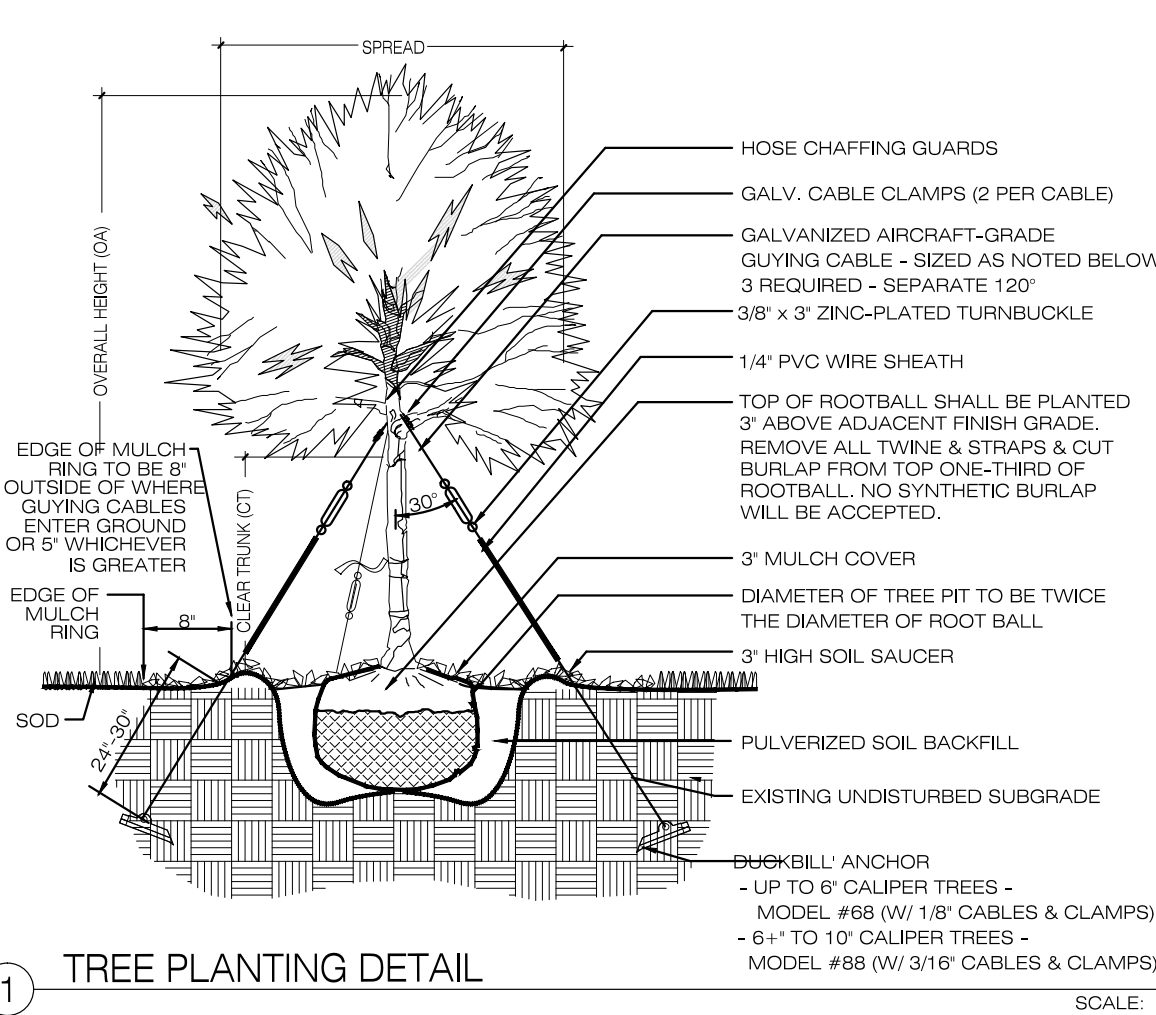
PARKING AREA LANDSCAPING (5.03.00.4)	
PARKING AREA	18,000 SF
LANDSCAPE AREA REQUIRED	2,700 SF (CALCULATION: 18,000 x 15% = 2,700)
TREES REQUIRED	6 (CALCULATION: 2,700 / 450 = 6)
LANDSCAPE AREA PROVIDED	3,000 SF
TREES PROVIDED	6

ON SITE TREE CALCULATIONS (5.04.00.B)	
SITE AREA	80,190 SF (1.84 AC)
TREE INCHES REQUIRED	10,416 TRESS (CALCULATION: 80,190 x 8,000 = 10,416)
TREE INCHES PROVIDED	42,416 TRESS (CALCULATION: 33 + 9 = 42)
4" TREES PRESERVED	33
4" TREES PROVIDED	9

LANDSCAPE GENERAL NOTES

- FLORIDA #1: ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO. 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF GRASSES AND STANDARDS FOR NURSERY PLANTS, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- EXISTING PLANTS: IF PROPOSED PLANTINGS SHOWN ON PLAN INTERFERE WITH EXISTING LANDSCAPING, THE EXISTING LANDSCAPING IS TO BE REMOVED IN FAVOR OF THE NEW PLANTINGS.
- MULCH: ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 3" PINE BARK MULCH. ALL TREES NOT IN BEDS SHALL HAVE A 5" DIAMETER MULCH RING. ALL PALMS NOT IN BEDS SHALL HAVE A 3" DIAMETER MULCH RING.
- SOD: SOD SHALL BE ARGENTINE BAHIA. ALL SOD SHALL BE ROLLED AFTER INSTALLATION. CONTRACTOR TO SOD ALL AREAS DISTURBED BY CONSTRUCTION RELATED ACTIVITIES.
- QUANTITIES: IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LIST AND THE ACTUAL QUANTITY OF PLANTS SHOWN ON THE PLAN, THE PLAN SHALL CONTROL. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNFORESEEN CONFLICTS: CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SUBSTITUTIONS: NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL FROM THE LANDSCAPE ARCHITECT.
- CONTAINERS: IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE ACCEPTED. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.
- PLANTING SOIL: CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROPER SUBSTITUTIONS SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ADDITIONALLY, IF PRESENT, THE CONTRACTOR SHALL REMOVE LIME ROCK, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. LASTLY, ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A PH RANGE BETWEEN 5.8 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.
- TOPSOIL: TOPSOIL MATERIAL, IF REQUIRED, SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS PLANTS, SOD, INSECTS, OR OTHER UNDESIRABLE PLANTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH AND SHALL BE CERTIFIED AS STERILE.
- WEEDS: IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.
- GRADING: UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SODDED IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REGRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- STAKING: ALL TREES, AND PALMS ARE TO BE STAKED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERENCES TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES ON SITE, AT THEIR OWN EXPENSE.
- CURVILINEAR: CURVILINEAR LANDSCAPE BEDS ARE TO BE EDGED WITH SMOOTH FLOWING CURVES. STRAIGHT-LINE LANDSCAPE BEDS ARE TO BE EDGED IN A STRAIGHT LINE PARALLEL TO PARKING LOTS AND STRUCTURES UNLESS DESIGNED OTHERWISE.
- FERTILIZER: OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GROUNDCOVER PLANTING AREAS AT THE RATE OF THREE (3) TABLETS/POONS PER 2 S.F. OF PLANTING AREA.
- DRAINAGE: THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY SHOULD A CONFLICT ARISE.
- SPECIFICATIONS: THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION, TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.
- TURNOVER: CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND REINSPECTED AS SCHEDULED.
- MAINTENANCE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, MULCHING, MOVING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.
- GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE SHOULD WORK BE FOUND ACCEPTABLE. ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.

SYM.	QTY.	SPECIES	COMMON NAME	SPECIFICATIONS
TREES				
BN	2	BETULA NIGRA 'BNTM' DURA-HEAT	DURA-HEAT RIVER BIRCH	30 GAL., 2" CAL., 12' HT., TRIPLE TRUNK (6" CALIFER)
CC	3	CERCIS CANADENSIS	EASTERN REDBUD	45 GAL., 2" CAL., 12' HT.
JV	3	JUNIPERUS VIRGINIANA	SOUTHERN RED CEDAR	45 GAL., 2" CAL., 12' HT.
QV	9	QUERCUS VIRGINIANA	LIVE OAK	100 GAL., 4" CAL., 12' HT.
UA	4	ULMUS ALATA	WINGED ELM	45 GAL., 2" CAL., 12' HT.
PALMS				
SP	14	SABAL PALMETTO	CABBAGE PALM	SLICK, SEE PLAN FOR CLEAR TRUNK HEIGHTS
SHRUBS & GROUNDCOVER				
AA	97	AGAPANTHUS AFRICANUS ELAINE	LILY OF THE NILE	3 GAL., 18" HT. X 12" SPRD., 18" O.C.
CA	5	CRINUM ASIATICUM QUEEN EMMA	CRINUM LILY	7 GAL., 36" O.A., SPECIMEN
DR	44	ROSA MEIGALPHO	RED DRIFT ROSE	3 GAL., 12" HT. X 12" SPRD., 30" O.C.
EG	115	EVOLVULUS GLOMERATA	RED DRIFT ROSE	3 GAL., 12" SPRD., 24" O.C.
MC	23	MYRICA CERIFERA	WAX MYRTLE	15 GAL., 48" HT. X 24" SPRD., FULL, 5" O.C.
MUC	80	MUHLENBERGIA CAPILLARIS	MUHL Y GRASS	1 GAL., 18" HT. X 12" SPRD., 30" O.C.
ND	65	NANDINA DOMESTICA 'FIREPOWER	FIREPOWER NANDINA	3 GAL., 18" HT. X 18" SPRD., 24" O.C.
PA	36	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	3 GAL., 12" HT., FULL, 30" O.C.
PM	130	PODOCARPUS MACROPHYLLA	YEW PODOCARPUS	3 GAL., 24" HT. X 18" SPRD., 24" O.C.
RR	55	RHOEDEODENDRON 'ROBLEG'	AUTUM ANGEL ENCORE AZALEA	3 GAL., 24" HT. X 24" SPRD., 30" O.C.
TAN	100	TRACHELOSPERMUM ASIATICUM 'NANA'	DWARF ASIATIC JASMINE	1 GAL., 12" HT., 18" O.C.
VO	171	VIBURNUM OBOVATUM 'SELECT'	WALTERS VIBURNUM	3 GAL., 24" HT. X 24" SPRD., 30" O.C.
VOB	35	V. OBOVATUM 'MRS. SCHILLERS DELIGHT'	DWARF WALTERS VIBURNUM	3 GAL., 24" HT. X 24" SPRD., 30" O.C.



IRRIGATION GENERAL NOTES

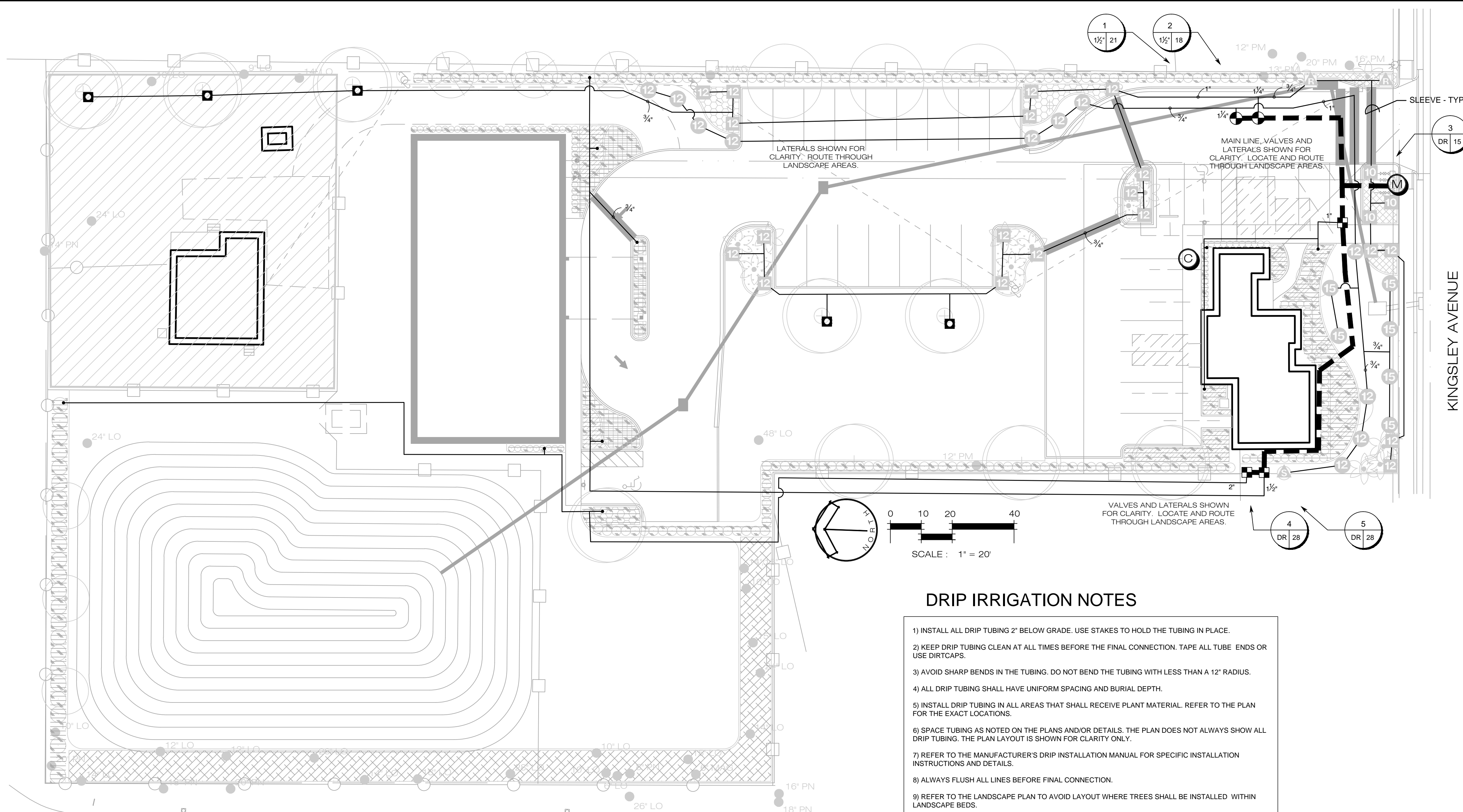
- AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS. AN IRRIGATION PLAN WILL BE PROVIDED UPON SUBSTANTIAL APPROVAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION TO UNIRRIGATED BAHIA GRASS IF NATURAL RAINFALL IS INSUFFICIENT FOR ESTABLISHMENT. TO BE CONSIDERED ESTABLISHED, SOD SHALL BE GREEN, THRIVING AND FIRMLY ROOTED. CONTRACTOR SHALL REPLACE TURF WHICH DOES NOT MEET THE ABOVE SPECIFICATIONS AT TIME OF FINAL INSPECTION AND/OR TURNOVER.

NO.	DATE	BY	DESCRIPTION

D. WARE HOUSE
LANDSCAPE PLAN & DETAILS
 TOWN OF ORANGE PARK, FLORIDA



PROJECT NO: D. WARE HOUSE
 ISSUE DATE: 5/10/2019
 DRAWING FILE: D. WARE HOUSE XREFS
 DRAFTED BY: JD
 DESIGNED BY: JD
 CHECKED BY: SBK
 SCALE: 1" = 20'
 NOT VALID WITHOUT SEAL



DRIP IRRIGATION NOTES

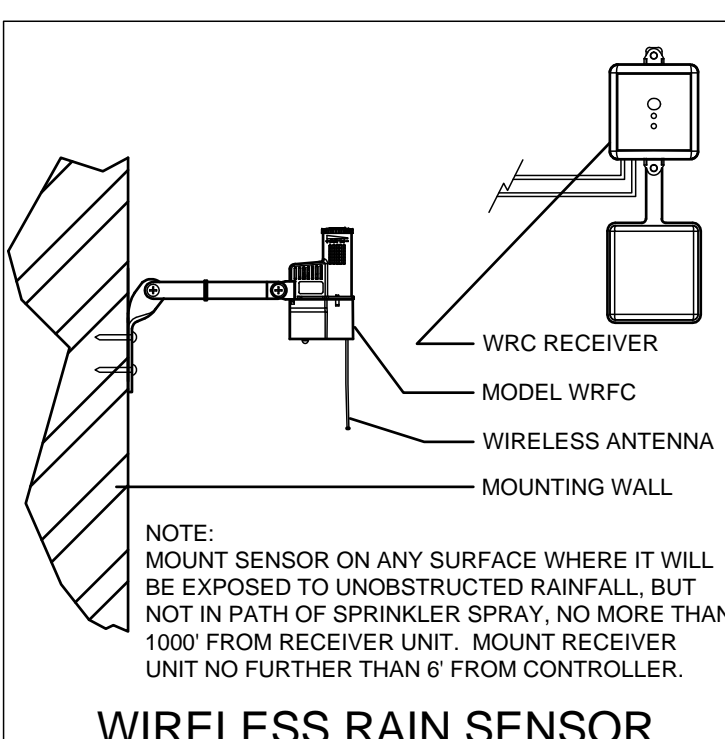
- 1) INSTALL ALL DRIP TUBING 2" BELOW GRADE. USE STAKES TO HOLD THE TUBING IN PLACE.
- 2) KEEP DRIP TUBING CLEAN AT ALL TIMES BEFORE THE FINAL CONNECTION. TAPE ALL TUBE ENDS OR USE DIRT CAPS.
- 3) AVOID SHARP BENDS IN THE TUBING. DO NOT BEND THE TUBING WITH LESS THAN A 12" RADIUS.
- 4) ALL DRIP TUBING SHALL HAVE UNIFORM SPACING AND BURIAL DEPTH.
- 5) INSTALL DRIP TUBING IN ALL AREAS THAT SHALL RECEIVE PLANT MATERIAL. REFER TO THE PLAN FOR THE EXACT LOCATIONS.
- 6) SPACE TUBING AS NOTED ON THE PLANS AND/OR DETAILS. THE PLAN DOES NOT ALWAYS SHOW ALL DRIP TUBING. THE PLAN LAYOUT IS SHOWN FOR CLARITY ONLY.
- 7) REFER TO THE MANUFACTURER'S DRIP INSTALLATION MANUAL FOR SPECIFIC INSTALLATION INSTRUCTIONS AND DETAILS.
- 8) ALWAYS FLUSH ALL LINES BEFORE FINAL CONNECTION.
- 9) REFER TO THE LANDSCAPE PLAN TO AVOID LAYOUT WHERE TREES SHALL BE INSTALLED WITHIN LANDSCAPE BEDS.
- 10) INSTALL ALL AIR RELIEF AND FLUSH VALVES INSIDE A VALVE BOX.
- 11) CLEARLY AND NEATLY MARK THE TOP OF EACH VALVE BOX WITH THE TYPE OF EQUIPMENT THAT IT CONTAINS. (I.E. AIR RELIEF VALVE, FLUSH VALVE, ETC.)
- 12) ALL VALVE BOXES SHALL HAVE A 6" LAYER OF PEA GRAVEL IN THE BASE.

LEGEND

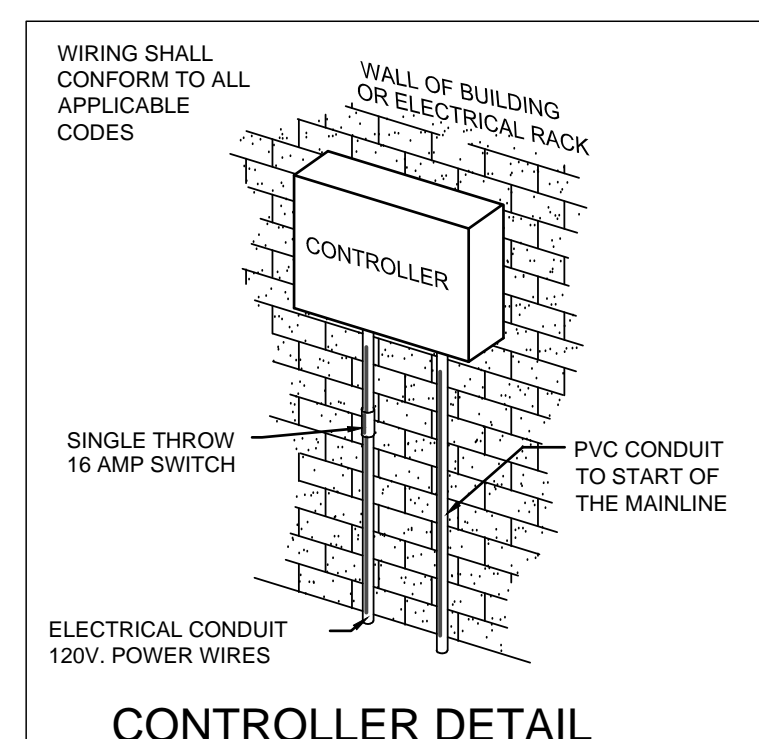
	RAIN BIRD 1806-PRS 6" POP-UP HEAD WITH VARIABLE ANGLE NOZZLES. SYMBOL INDICATES RADIUS. FIXED ANGLE NOZZLES MAY BE USED WHERE APPROPRIATE.
	RAIN BIRD 1812-PRS 12" POP-UP HEAD WITH 15 STRIP SERIES. SYMBOL INDICATES PATTERN. R-RIGHT, L-LEFT AND SST-SIDE.
	RAIN BIRD 1812-PRS 12" POP-UP HEAD WITH VARIABLE ANGLE NOZZLES. 12" RADIUS. FIXED ANGLE NOZZLES MAY BE USED WHERE APPROPRIATE.
	RAIN BIRD 1402 FULL CIRCLE BUBBLER HEAD. EACH SYMBOL REPRESENTS TWO BUBBLERS.
	RAIN BIRD XFS-09-12 DRIPLINE INSTALLED AT 12" O.C. WITH EMITTERS IN A TRIANGULAR PATTERN 1" BELOW GRADE. RAIN BIRD COMPRESSION FITTINGS AND BARBED TUBE STAKES SHALL BE USED. EACH ZONE SHALL HAVE A MIN. OF ONE FLUSH VALVE, ONE AIR RELIEF VALVE, AND ONE OPERATION INDICATOR. INSTALL ALL DRIPLINE PER RAIN BIRD SPECIFICATIONS AND DETAILS.
	RAIN BIRD PEB SERIES ELECTRIC CONTROL VALVE. INSTALL VALVE IN A RAIN BIRD VB-STD VALVE BOX. CONNECT WITH RAIN BIRD DB WIRE CONNECTORS. SEE GENERAL NOTE #19 FOR GROUNDING INFORMATION. INDICATE ZONE NUMBER ON VALVE BOX LID. VALVE LOCATIONS SHOWN FOR CLARITY. LOCATE WITHIN LANDSCAPE AREAS.
	RAIN BIRD XGZ-150-00M CONTROL ZONE KIT. INSTALL VALVE IN A RAIN BIRD VB-STD VALVE BOX. CONNECT WITH RAIN BIRD DB WIRE CONNECTORS AND. SEE GENERAL NOTE #19 FOR GROUNDING INFORMATION. INDICATE ZONE NUMBER ON VALVE BOX LID. VALVE LOCATIONS SHOWN FOR CLARITY. LOCATE WITHIN LANDSCAPE AREAS.
	ZONE TAG
	VALVE SIZE (DR+DRIP)
	SCHEDULE 40 PVC MAINLINE - 2 1/2"
	CLASS 160 PVC LATERAL LINE - SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. (3/4" MIN.)
	SCHEDULE 40 PVC SLEEVE. CONTRACTOR TO CONFIRM SLEEVE SIZES. SLEEVES SHALL BE TWO SIZES LARGER THAN LATERAL. SLEEVE UNDER ALL SIDEWALKS AND PAVEMENT, NO TUNNELING/JETTING CONTROL WIRE SLEEVES SHALL BE 2".
	RAIN BIRD ESP-12LXME MODULAR CONTROLLER. INSTALL WITH ONE (1) ESP-LXMSM4 EXPANSION MODULE. INSTALL WITH A RAIN BIRD WR2-RFC RAIN FREEZE SENSOR. GROUND WITH A #8 MINIMUM COPPER CLAD ROD. SLEEVE TO AS REQUIRED. CONTRACTOR TO COORDINATE POWER TO CONTROLLER LOCATION.
	1" IRRIGATION METER AND REDUCED PRESSURE BACKFLOW PREVENTER. CONTRACTOR TO VERIFY A MINIMUM OF 28 GPM AND 55 STATIC PSI. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF FIELD CONDITIONS DO NOT MEET THESE SPECIFICATIONS.

GENERAL NOTES

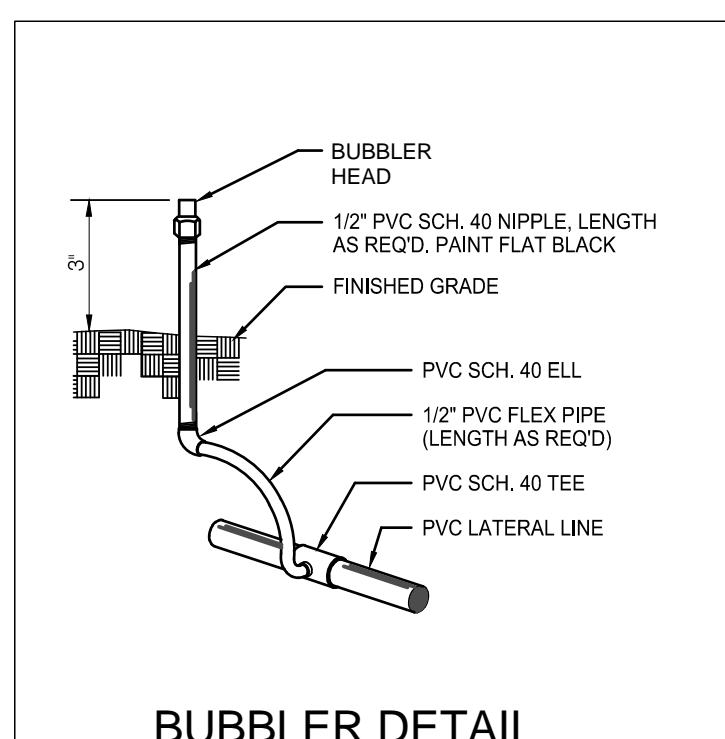
1. CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS.
2. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA (SUNSHINE 811) PRIOR TO COMMENCING ANY UNDERGROUND WORK. IRRIGATION EQUIPMENT, WELLS, MAIN LINE, LATERALS AND HEADS MAY BE ADJUSTED BASED ON UTILITY LOCATIONS AND FIELD CONDITIONS. HEAD TO HEAD COVERAGE MUST BE MAINTAINED.
3. ALL SLEEVES SHALL BE INSTALLED SUCH THAT THE TOP OF THE SLEEVE SHALL BE A MINIMUM OF 18" BELOW THE BOTTOM OF THE PAVED SURFACE ABOVE. CONTRACTOR SHALL VERIFY MAIN LINE AND LATERAL SIZES PRIOR TO SLEEVE INSTALLATION. SEE DETAIL.
4. ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER AND ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
5. ALL POP-UP ROTOR AND SPRAY HEADS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. CONTRACTOR SHALL NOT USE FUNNY PIPE.
6. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. THE SMALLEST LATERAL PIPE SIZE TO A SINGLE SPRAY OR ROTOR HEAD SHALL BE 3/4".
7. ALL REMOTE CONTROL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. ALL VALVE BOXES SHALL BE INSTALLED TO PROVIDE A NEAT AND ORDERED APPEARANCE. VALVE BOXES INSTALLED ADJACENT TO EACH OTHER SHALL BE ORIENTED IN THE SAME DIRECTION AND SHALL BE EVENLY SPACED.
8. CONTROL WIRE SHALL BE 14-1 UF DIRECT BURIAL, COLORED RED FOR CONTROL WIRES AND WHITE FOR COMMON WIRES. NO CROSS CONNECTION BETWEEN CONTROLLERS SHALL BE ALLOWED. WIRE SPLICES SHALL BE MADE ONLY IN VALVE BOXES USING RAIN BIRD DB WIRE CONNECTORS.
9. IT IS THE RESPONSIBILITY OF ALL SITE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH, AND EXERCISE CARE SO AS TO NOT DAMAGE ANY EXISTING IRRIGATION COMPONENTS (TO REMAIN), BERMS, WALLS, STRUCTURES, PLANT MATERIALS AND UTILITIES. ANY CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIR OR REPLACEMENT OF ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF SLEEVES AND PIPING THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
10. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE SYSTEM DESIGN. 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.
11. FINAL LOCATION OF THE AUTOMATIC CONTROLLER(S) SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING POWER SUPPLY TO THE CONTROLLER LOCATION.
12. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL CONNECTION FROM THE JUNCTION BOX TO ALL EQUIPMENT.
13. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES TO PROVIDE OPTIMUM COVERAGE WITH MINIMAL OVSERPRAY ONTO WALKS, STREETS, WALLS, ETC. IN ORDER TO ACCOMPLISH THIS, THE CONTRACTOR MAY SUBSTITUTE VARIABLE ARC NOZZLES IN PLACE OF THE SPECIFIED FIXED ARC NOZZLES WHERE NECESSARY.
14. THE CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH ALL PREVAILING LAWS, CODES AND REGULATIONS.
15. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
16. THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING, THE AS-BUILT DRAWING SHALL LOCATE ALL CONTROLLERS, WELLS, MAINLINE ROUTE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. HEADS TO BE SHOWN IN THEIR GENERAL LOCATION.
17. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.
18. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE WATER PRODUCED BY THE WELL DOES NOT INCLUDE IRONS OR OTHER MINERALS WHICH MAY CAUSE STAINING OR DISCOLORATION TO BUILDINGS, SIDEWALKS, SIGNS OR OTHER SITE ELEMENTS/FIXTURES. THE CONTRACTOR SHALL INCLUDE AND CONDUCT ANY NECESSARY TESTING TO ANALYZE THE WATER CHEMISTRY TO DETERMINE IF STAINING OR DISCOLORATION WILL OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY MITIGATION STEPS (WATER SOFTENER SYSTEM, CHEMICAL INJECTION SYSTEM, ETC.) REQUIRED TO PREVENT STAINING OR DISCOLORATION FROM OCCURRING. FURTHERMORE, THE CONTRACTOR SHALL VERIFY HEAD LAYOUT AND SPRAY ZONES DO NOT CONTACT ADJACENT BUILDINGS OR STRUCTURES WHILE OPERATING AND MAY SUBSTITUTE LOW ANGLE AND /OR ADJUSTABLE ARC NOZZLES OR ADJUST SPACING AND LAYOUT.
19. CONTRACTOR SHALL INSTALL GROUNDING AT THE CONTROLLER LOCATION. CONTRACTOR TO FOLLOW ALL RAIN BIRD REQUIREMENTS AND AMERICAN SOCIETY OF IRRIGATION CONSULTANTS (ASCI) EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS DATED JANUARY 2, 2009) AND LOCAL CODE TO ENSURE THE SYSTEM IS GROUND PER SPECIFICATIONS. IT IS THE SOLE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO PROPERLY GROUND THE SYSTEM. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THIRD PARTY VERIFICATION/CERTIFICATION INCLUDING THE ENTIRE SYSTEM IS GROUNDED TO MEET SPECIFICATIONS.



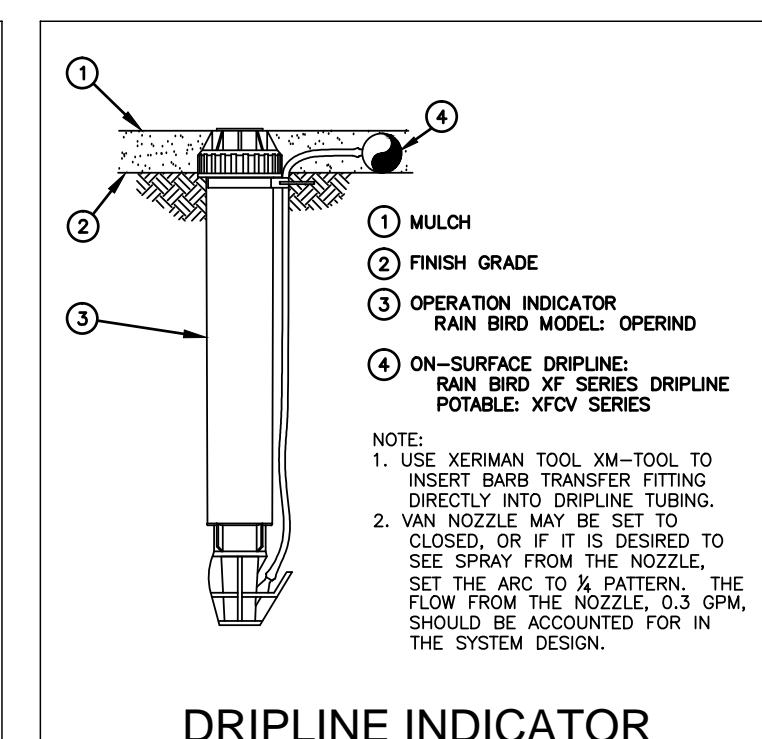
WIRELESS RAIN SENSOR



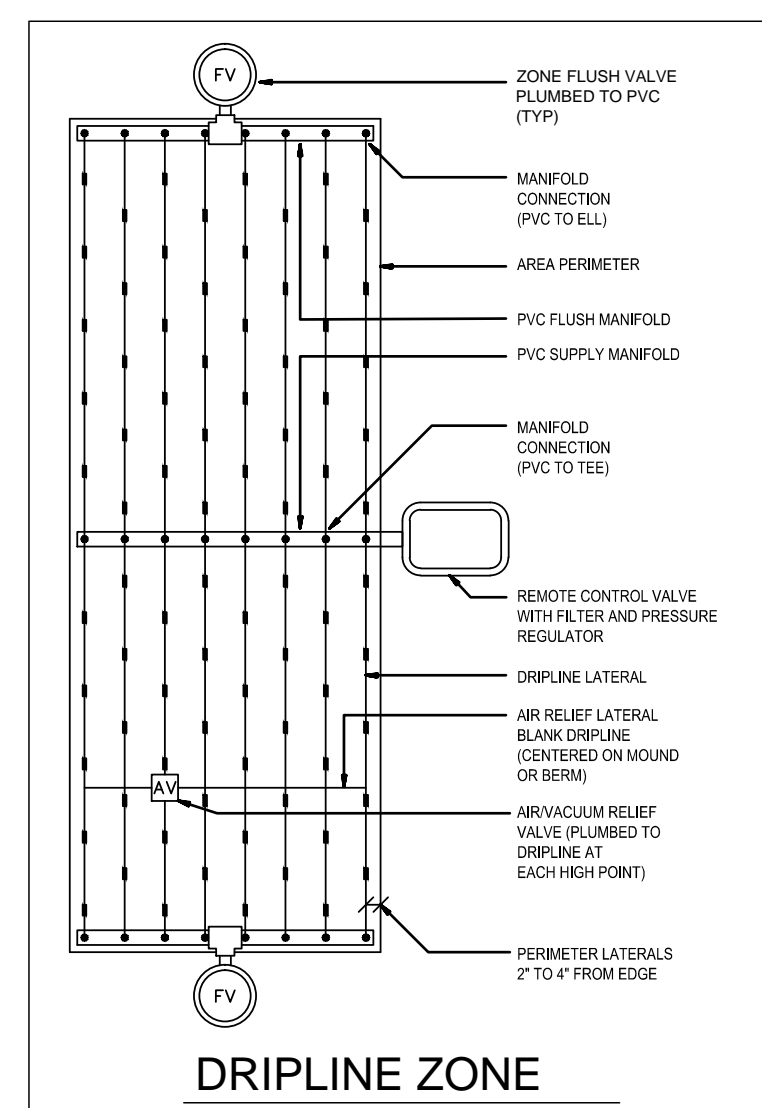
CONTROLLER DETAIL



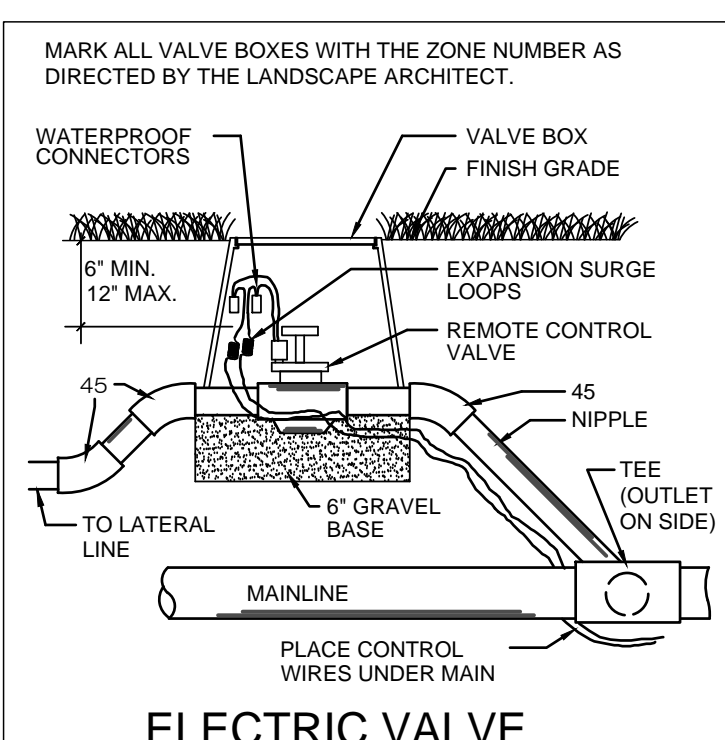
BUBBLER DETAIL



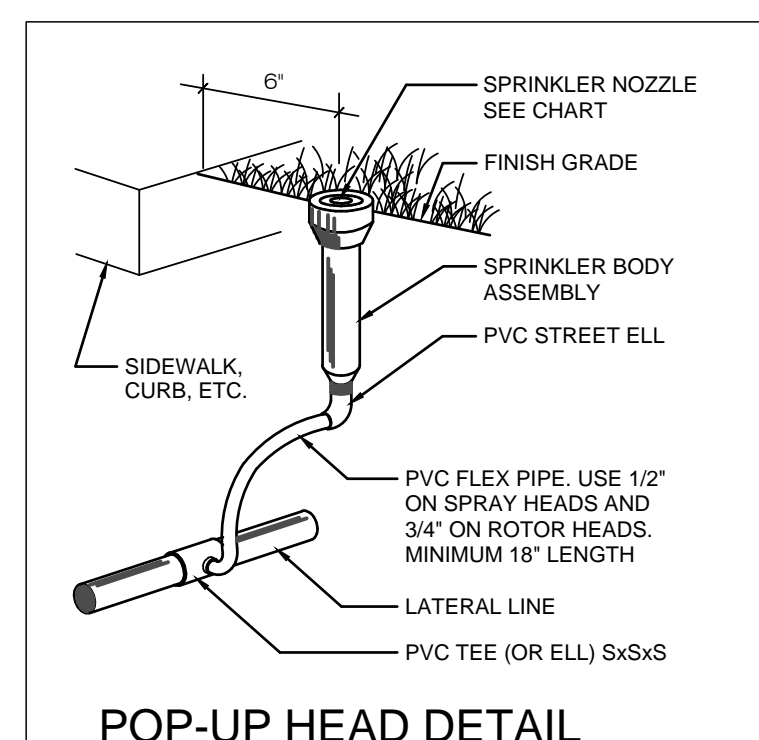
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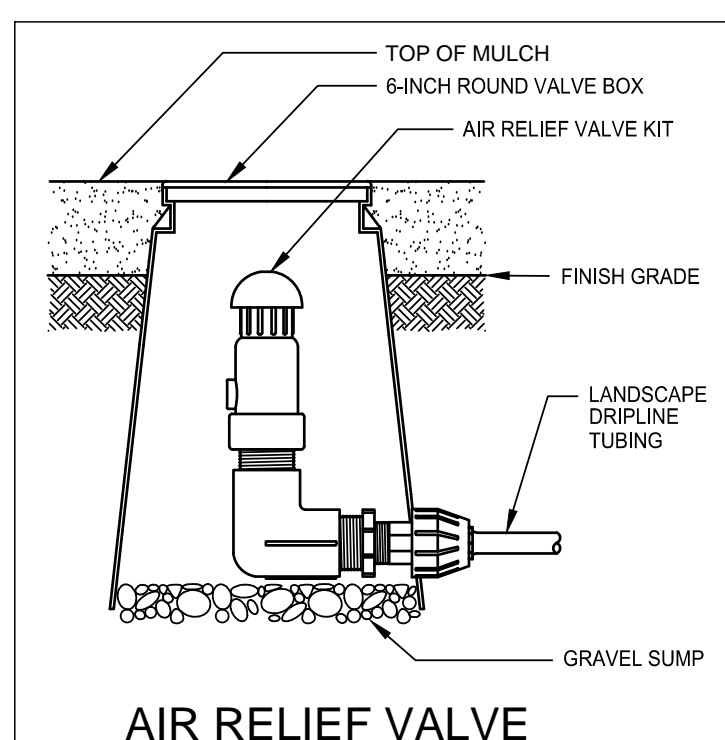
DRIPLINE ZONE



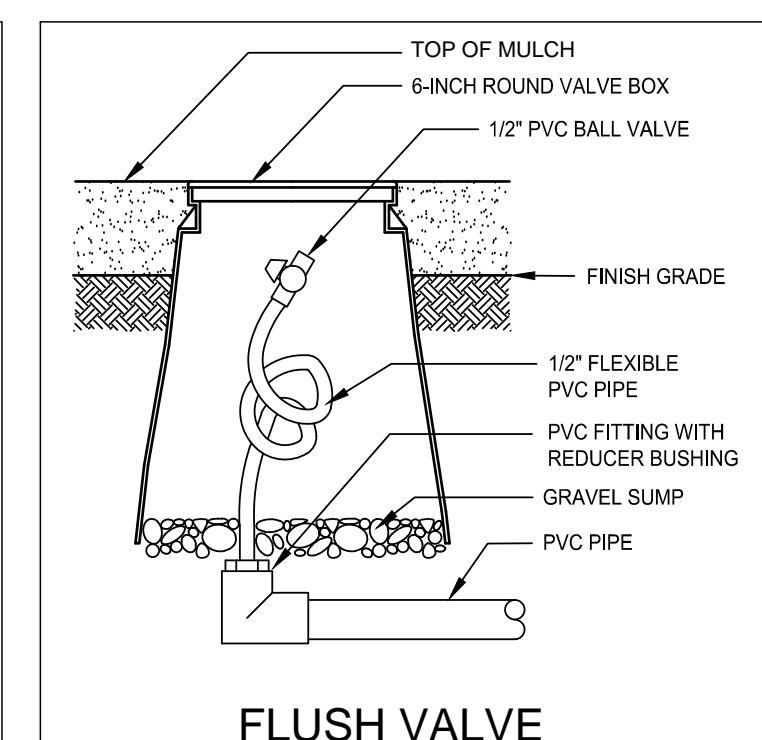
ELECTRIC VALVE



POP-UP HEAD DETAIL



AIR RELIEF VALVE



FLUSH VALVE

NO.	DATE	BY	DESCRIPTION

D. WARE HOUSE
IRRIGATION PLAN & DETAILS
 TOWN OF ORANGE PARK, FLORIDA

CASTLE BAY
DESIGN + STUDIO
15411 BIRCHWOOD DRIVE, SUITE 200, ORANGE PARK, FLORIDA 32064
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PROJECT NO: D. WARE HOUSE
 ISSUE DATE: 5/10/2019
 DRAWING FILE: D. WARE HOUSE XREFS:
 DRAFTED BY: JD
 DESIGNED BY: JD
 CHECKED BY: SBK
 SCALE: 1" = 20'
NOT VALID WITHOUT SEAL

SHEET **L-4.01**