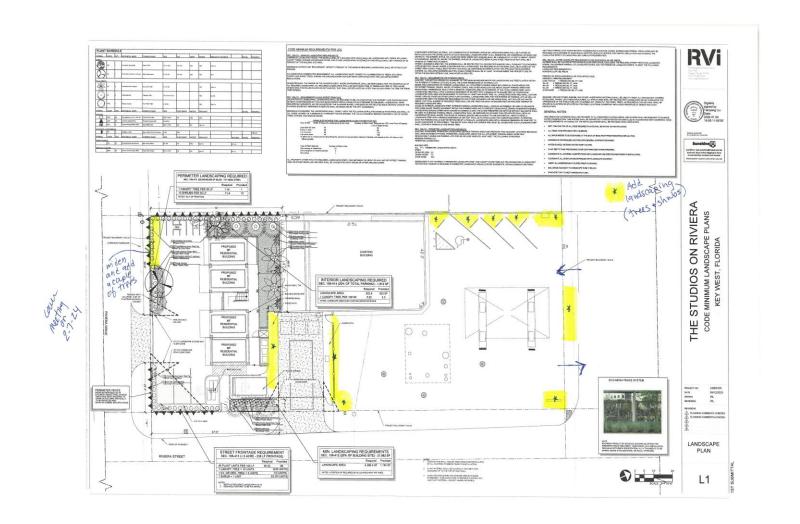
UPDATED STAFF REPORT

DATE: March 1, 2024 and March 7, 2024 (sec 108-413 correction)

RE: 3228 Flagler Avenue (3221 Riviera Drive)
UPDATED Sec 108 Landscape Review

FROM: Karen DeMaria, City of Key West Urban Forestry Manager

On February 7, 2024, a meeting was held with representatives of the property owner, regarding potential improvements to the landscape plan to increase the proposed open space/landscaping percentage on the property. A 2018 City Commission Resolution approved a 16% open space allotment. The submitted proposal requested a reduction to 8%. A request was made by Planning Staff, to add planters in areas on the gas Station/Convenience Store portion of the property, add vegetation along the existing concrete wall that divides the areas on the eastern property line where the garbage and recycle areas are proposed, and increase the width of the landscape area in the southwest corner of the property (see highlighted site map below).



On Saturday, February 10, 2024, an updated plan was sent to City staff. A request to review updated landscape plans, dated February 9, 2024, was received by the urban forestry manager on February 28, 2024.

The Sec 108 Landscape review dated January 19, 2024, only reviewed the actual proposed development area, with compliance to the various sections of code. It has been pointed out that the review should also look at the entire parcel. This updated Sec 108 landscape review is looking at the entire parcel using the February 9, 2024, submitted plan.

Review of Section 108:

- 1. Sec 108-243 (plans): A landscape plan with an updated existing site map, a tree protection plan, and an irrigation plan has been submitted. The landscape plan is signed and sealed by Tianyang Liu.
- 2. Sec 108-279 (screening of equipment): Garbage and recycle waste container area has been allotted space next to the property line at the gas station parking area. Plans show screening to be accomplished by a fence and a gate with (4) Sabal Palms and wild coffee shrubs being planted outside the fence area and a silver buttonwood tree with some wild coffee shrubs on the residential side of the area.
- 3. Sec 108-289 (land clearing): The project will require the removal of (1) Gumbo Limbo tree which was approved by the Tree Commission on July 9, 2018 and requires the planting of a total of 3.3 caliper inches of approved trees to be planted on site and incorporated into the landscape plan and the removal of (1) Washingtonian Palm, to be replaced with (1) native palm, a minimum of 4 ft tall. The Washingtonian Palm was not regulated during the 2018 review as it was less than 10 ft tall at the time but was part of the removal request and original landscape plan approval. The proposed updated plan proposes to plant (1) Pigeon Plum and (1) Silver Buttonwood tree for a total of 5 caliper inches of approved trees and several native palms, all 4 ft tall or more. Therefore, the updated plan does incorporate the required tree removal mitigations.
- 4. Sec 108-346 (open space): The proposed open space percentage is 8%. City code requires 20%. The 2018 City Commission Resolution approved a 16% open space.

No improvements are being proposed for the existing gas station/convenience store portion of the property with street frontage on Flagler Avenue.

WAIVER NEEDED

As required, the property maintenance plan must include maintenance of the property to remove any invasive exotic plant species from the property (Brazilian Pepper, Australian Pine, and Lead Tree).

5. Sec 108-347 (bufferyards): The property is an existing gas station/convenience store with the proposed addition of a multi-family complex in the rear area. According to the property appraiser site, the property to the west is a retail area/cross fit studio (D Buffer-medium impact).

The western property line now appears to have a planned minimum 3.7 ft wide by approximately 30 ft long landscape area next to the scooter parking area that opens to a larger 10.4 ft wide by 40 ft long planter area. The remaining 150 ft of property line includes zero vegetation and asphalt in half the area. A minimum of 37 plant units per 100 linear ft with the installation of an opaque fence is required. This bufferyard, measuring 3.7 ft by 220 ft long, requires a total of 81 plant units. 24 plant units (shrubs) are planned to be planted along the fence line with an Eco-Mesh fence panel system with trumpet "coral" honeysuckle plants. It is not known if this type of fencing is considered opaque.

WAIVER NEEDED

- 6. Sec 108-348 allows for credit of existing plant material. No existing vegetation will remain as part of this development.
- 7. Sec 108-350, bufferyard exceptions: This section of code states that no bufferyards shall be less than 2.5 ft wide in order to provide for optimum growing conditions for the required vegetative buffer. Bufferyards between 2.5 feet and ten feet in width may substitute an opaque wooden fence or masonry wall at least six feet in height for the shrub requirement. However, canopy and/or shade trees required as part of the buffer must be installed regardless of whether a fence or wall is being used or not.

The western property line buffer area for the new proposed development meets this condition but the remaining bufferyard involving the existing portion of the property technically has no bufferyard. Representatives for the property owner were asked to plant some trees along this property line area in front of the parking spots. The updated plan does not include any additional plants along this bufferyard.

WAIVER NEEDED

8. Sec 108-411, landscape plan approval: On November 13, 2018, this property received a Final Landscape Plan approval with tree removal for the removal of a gumbo limbo tree. At the time, the removal of the Washingtonian Palm was included in the plan but did not require specific removal approval. Construction of the project was held up due to its linkage to another property and recently a new site and landscape plan was submitted that was significantly different then the plan approved in November 2018, therefore, the new landscape plan review is being treated as a new review specifically related to the landscape plan.

The 2018 plan included a vegetative buffer along the northern property line area along the open gas station parking area with the main access onto the property coming from the east off Rivera Street. The new plan has the main access onto

the property from the south off of Rivera Drive and no vegetative buffer next to the gas station parking lot area. The 2018 plan included the planting of (6) palms, (2) canopy trees, and approximately (193) shrubs and groundcover plants. The new plan proposes the planting of (9) palms, (2) canopy trees, and over (119) shrubs and ground cover plants (not including the fence honeysuckle plants).

The Tree Commission reviewed the updated Conceptual Landscape plan dated December 8, 2023, on January 2, 2024. The Tree Commission approved the Conceptual landscape plan pending corrections to the plan, as identified by the urban forestry manager.

9. Sec 108-412: The plan does incorporate over 70% native vegetation. In 2018, the resolution approved 16% landscaping. The 2023 modification proposes 8% percentage of the property is to be landscaped. The rest of the property not covered in hardscape or groundcover will be mulched, crushed shell, or have gravel placed.

WAIVER NEEDED

10. 108-413, landscape requirement along street frontages. The whole property is 0.5 acres therefore, this section of the code requires 80 plant units per 100 linear ft in a 20 ft wide landscape area.

The northern property line, 100 ft long, runs along Flagler Avenue. No vegetation exists in this area and no vegetation is proposed.

The landscape plan along Riviera Drive, the southern property line area, 100 ft long, proposes to plant a line of cocoplum shrubs (22-plant units) with an ecomesh fence planted with trumpet honeysuckle (9-plant units) in a 3.1 ft to 4.8 ft wide consistent area. One silver buttonwood tree and blue liriope groundcover has been added to the landscape plan for this area. An additional 4.4 ft wide by approximately 25 ft long planter area is also being created that includes the planting of (1) Silver Buttonwood, (1) Thatch Palm, and blue liriope groundcover for a total of 44 plant units.

Rivera Street, the eastern property line area, is a total of 220 ft long and requires 176 plant units in a 20 ft wide area. The landscape plan for the proposed development area includes the planting of (14) Cocoplum shrubs, (9) Trumpet Honeysuckle, (3) Sabal Palms, (9) Wild Coffee, and (15) Blue Porterweed for a minimum total of 61 plant units in a planting area between 3.1 ft to 6.1 ft wide in a 67.9 linear ft area with no vegetation in the remaining 152.1 linier feet. This 152 ft area is primarily asphalt for parking and ingress and egress to the gas station/convenience store.

WAIVER NEEDED

11. Sec 108-414 Interior parking areas: Parking is being created under the structure or adjacent to the property line buffer areas.

- $^{12.}$ Sec $^{108-415}$ perimeter parking areas: There are no perimeter parking areas on the property.
- 13. Sec 108-416, interior area landscaping. This section of code specifically looks at the planting of trees and requires that all areas not covered by buildings or hardscape will have grass, groundcover, shrubs or other landscaping materials. The proposed plan does include the use of crushed shell. Approximately 4 trees are supposed to be planted per 2000 sq ft of area if less than 30% of the of the site is non vehicular open space. Three trees and numerous palms are proposed to be planted in landscape areas not reviewed in the buffer reviews.

WAIVER NEEDED

- 14. Sec 108-447: There does appear to be curbing around the planting areas. A tree protection plan is not needed but has been supplied.
- 15. Sec108-448: It does appear that all landscape strips are covered with living material and/or mulch/crushed shell.
- 16. Sec 108-450, Landscape screening: The updated landscape plan includes vegetation around the garbage storage area along with fencing.
- 17. Sec 108-481, specifications for plant material: Trees are supposed to be at least 12 ft tall minimum and palms shall constitute no more than 25 percent of the total tree requirement. Two canopy trees are proposed to be planted. The specs show a 12-14 ft OA tall Pigeon Plum and (3) 8-10 ft OA tall silver buttonwood tree. The proposed plan also includes over 76% palm species with (13) palms and (4) canopy trees being planted. The Tree Commission was made aware of the originally proposed 80% palm request during their review.

WAIVER NEEDED

18. Sec 108-517 Waivers: The 2023 City Commission resolution, 2018-52, grants landscape waiver approvals but does not state the specific landscape waiver code sections that were requested. Sec 108-517.(a).2 says that the waiver shall be clearly stated and in detail.

LIST OF WAIVERS NEEDED:

- 1. Sec 108-346 (open space): The proposed open space percentage is 8%. City code requires 20%. The 2018 City Commission Resolution approved a 16% open space.
- 2. Sec 108-347 (bufferyards): western property line buffer area due to lack of plant units counts.
- 3. Sec 108-350, bufferyard exceptions: No bufferyard proposed for existing gas station portion of the property along the western property line.

- 4. Sec 108-412, minimum landscape requirements shall be a minimum of 20%. In 2018, the resolution approved 16% landscaping. The 2023 modification proposes 8% percentage of the property is to be landscaped.
- 5. Sec 108-413, street buffer frontage width is required to be 10 ft. The proposed width of the landscape areas along Rivera Drive and Riviera Street is 3.1 6.1 ft and no buffer is proposed for the Flagler Avenue portion of the property.
- 6. Sec 108-416, interior area landscaping. Three trees of the required 4 trees are proposed to be planted.
- 7. Sec 108-481, specifications for plant material require all trees to be a minimum of 12 ft in height and the plan shall constitute no more than 25% palms. One of the proposed canopy trees is proposed to be 8-10 ft tall and the proposed plan includes over 76% palm species.

Conditions:

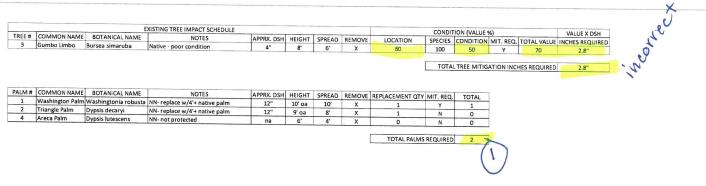
- The property maintenance plan must include continued maintenance of the property to remove any invasive exotic plant species (Brazilian Pepper, Australian Pine, Lead Tree).
- 2. The existing site map must be updated prior to the Planning Board meeting with corrected information regarding the Gumbo Limbo tree and its removal criteria.
- 3. Final landscape plan approval required from Tree Commission prior to placement on City Commission agenda. If no significant changes occur to the approved landscape plan, then the Urban Forestry Manager can review for approval.

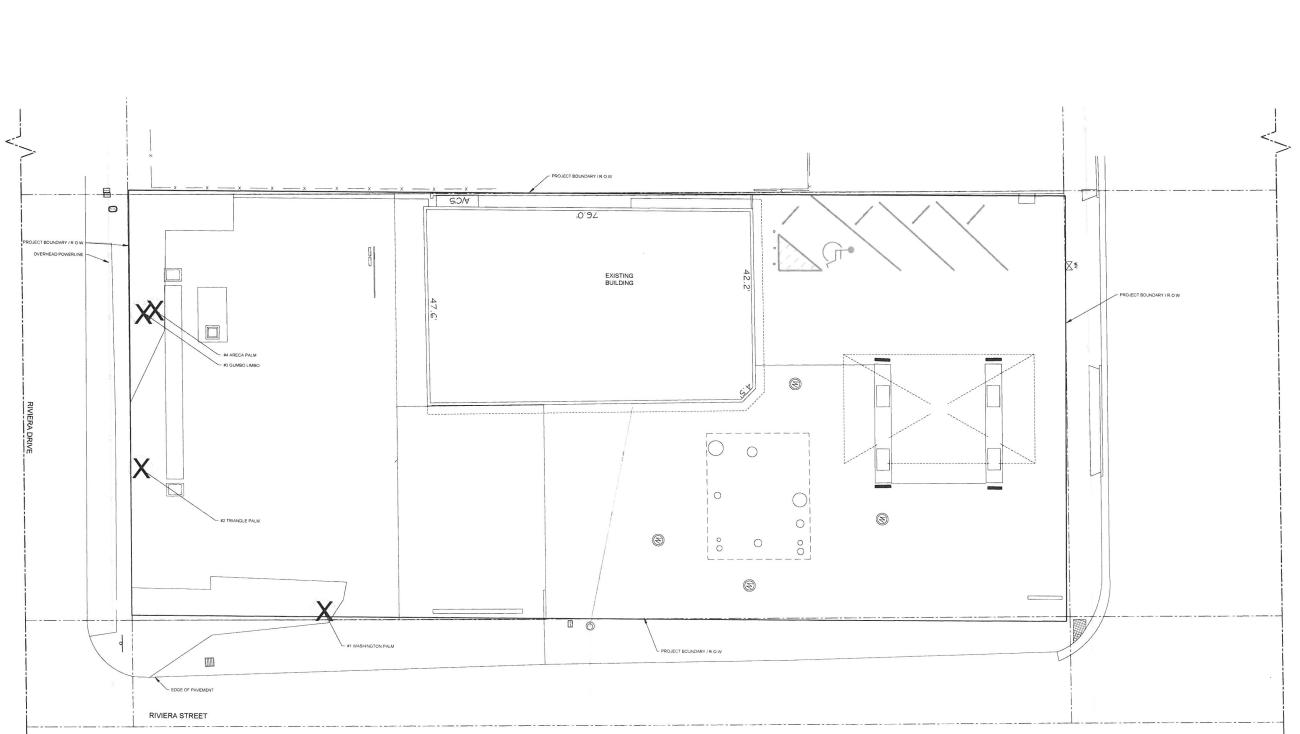
Karen DeMaria

3-1-24

Urban Forestry Manager

City of Key West









TIANYANG LIU FL LICENSE NO. LA6667649

Sunshine

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

buried facilities located and marke Check positive response codes deflive you

THE STUDIOS ON RIVIERA CODE MINIMUM LANDSCAPE PLANS KEY WEST, FLORIDA

PROJECT NO : 23005335

DATE : 09/12/2023

DRAWN: WL

REVIEWED: WL

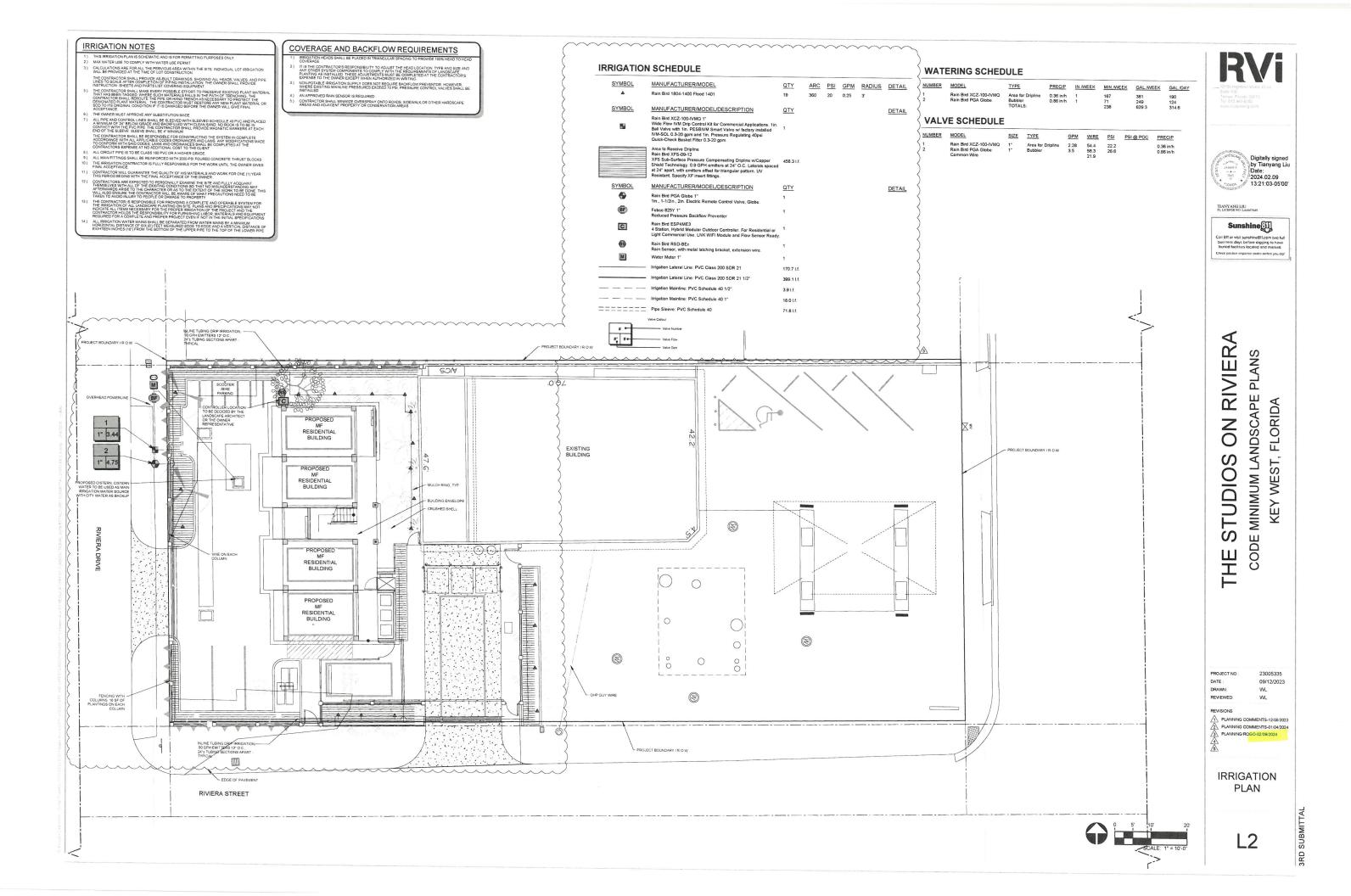
REVISIONS

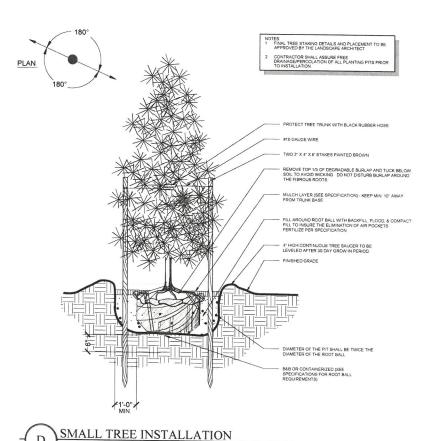
REVISIONS

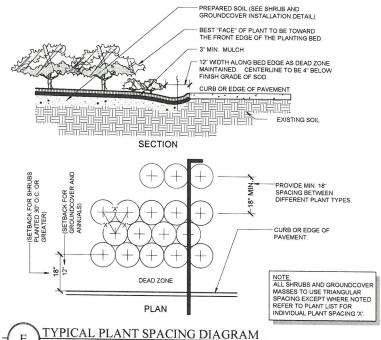
1 PLANNING COMMENTS-12:08:2023
2 PLANNING COMMENTS-01:04/2024
3 PLANNING/ROGO-02:09:2024
4 5

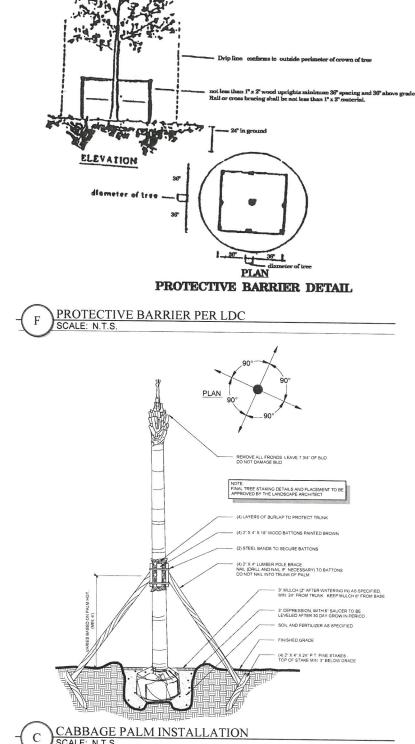
EXISTING TREE PLAN

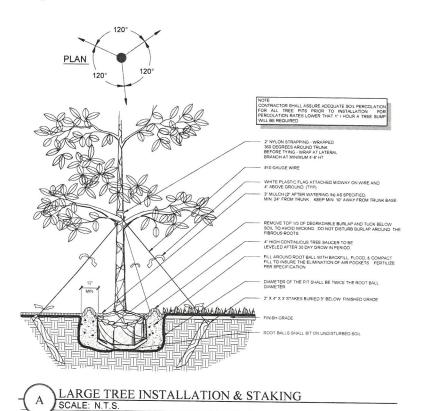
L1.1

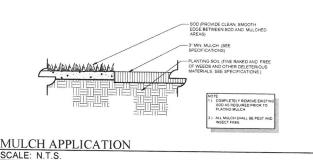












Digitally signed by Tianyang Liu Date: 2024.02.09 13:21:15-05'00'

TIANY ANG LIU FL LICENSE NO. LA6667649

Sunshine

ON RIVIERA CODE MINIMUM LANDSCAPE PLANS KEY WEST, FLORIDA STUDIOS

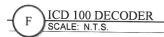
> 23005335 09/12/2023

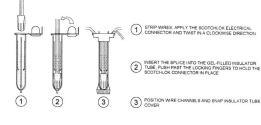
REVIEWED: WL PLANNING COMMENTS-12/08/2023 PLANNING COMMENTS-01/04/2024

포

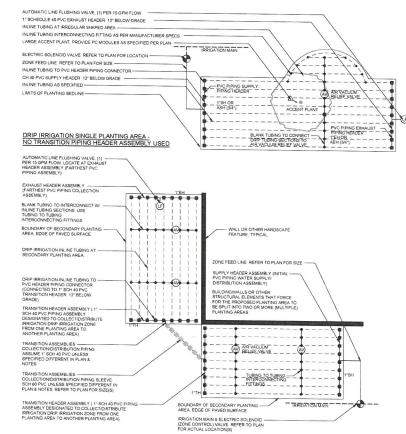
PROJECT NO

LANDSCAPE **DETAILS**





DBY/DBR DIRECT BURY SPLICE KIT G



DRIP IRRIGATION MULTIPLE PLANTING AREAS - TRANSITION PIPING HEADER ASSEMBLY USED

A

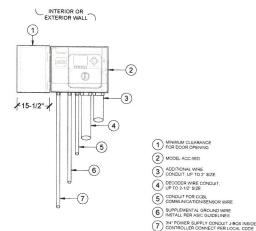
SCALE: N.T.S

- THE ZONE FEED LINE SHALL BE CONNECTED TO SUPPLY HEADER AT MID POINT OF HEADER ALL HEADER PIPING MUST BE INSTALLED 8' BELOW GRADE REFER TO PLAN FOR FEED LINE SIZE
- THE SUPPLY HEADER ("SH) PIPMS ASSEMBLY IS THE PRIMARY IRRIGATION WATER SUPPLY POINT OF CONNECTION FOR THE MILINE TUBING SECTIONS IT IS LOCATED CONTROL VALVE EACH TUBING P.O.C. AT THE SUPPLY HEADER SHALL BE LIMITED TO 2251 LF OF TUBING FOR THE ENTIRE SECTION DO NOT EXCEED 2251 OF TUBING SECRETARY OF CONTROL OF THE SUPPLY HEADER SHALL BE LIMITED TO 2251 LF OF TUBING FOR THE ENTIRE SECTION DO NOT EXCEED 2251 OF TUBING

- PROVIDE AIR VACUUM RELIEF VALVES AT A RATE OF ONE VALVE PER 6± GPM. THE VALVES SHALL BE CONNECTED TO THE DRIP TUBING SECTIONS WI BLANK TUBING THE AVRY SHALL BE INSTALLED.
- FOR PLANT MATERIAL THAT REQUIRES ADDITIONAL HYDRATION DUE TO HIGHER WATER NEEDS PROVIDE HIGHER FLOW SUPPLEMENTAL WATER EMITTERS FOR PLANT MATERIAL LIKE DESIGNATED VINES OR LARGE ACCENT PLANTS THE SUPPLEMENTAL HYDRATION UNITS MAY NOT BE SHOWN IN PLAN FOR GRAPHIC CLARITY COORDINATE WITH LANDSCAPE CONTRACTOR FOR VINES 3 ACCENT

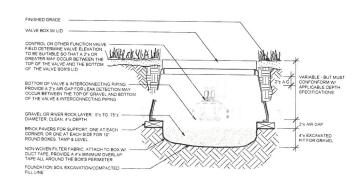
DRIP TUBING ZONES LAYOUT SCHEMATIC DETAILS

WHEN POSSIBLE AND PRACTICAL INSTALL THE TUBING BEFORE THE PLANTINGS ARE INSTALLED SO THAT THE TUBINGS WETTING PATTERNS CAN BE EVALUATED. THE SOIL SHALL BE HYDRATED TO A DEPTH OF 12" PRIOR TO THE INSTALLATION OF PLANT MATERIAL. THE HYDRATION PERIOD SHALL BE CONCLUDED 24 HOURS PRIOR TO THE INSTALLATION OF PLANTS.



WALL MOUNT OPTION

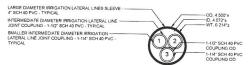
ACC CONTROLLER SCALE: N.T.S.



NOTES:

- EXCAVATE THE VALVE BOX PIT DEEP ENOUGH TO ACCOMMODATE THE VALVE BOX, VALVE BOX EXTENSIONS AND THE ADDITIONAL DEPTH FOR THE GRAVEL LAYER AT THE BOX'S BOTTOM
- PROVIDE AIR GAPS AS SPECIFIED BETWEEN THE BOTTOM OF THE VALVE & INTERCONNECTING PIPING, AND BETWEEN THE TOP
 OF THE VALVE AND BOTTOM OF THE BOX'S LID

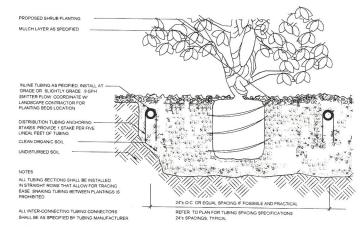
TYPICAL VALVE BOX INSTALLATION DETAIL



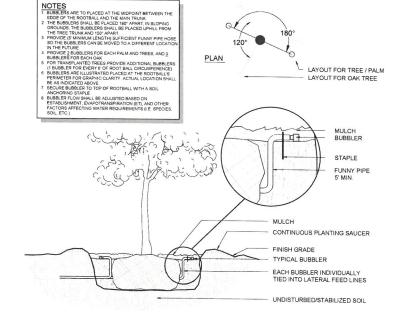
TIES:
WHERE POSSIBLE AND PRACTICAL A SINGLE LARGER DIAMETER SLEEVE SHALL BE USED FOR PASSING
MULTIPLE (TWO OR MORE) BRIGATION LATERAL LINES THROUGH CROSSINGS THAT REQUIRE
SLEEVING 4" SCH 80 PVC IS THE RECOMMENDED SLEEVE SIZE

- THREE 1-12" SLEEVES CLASS 200 PVC LATERALS WI SCH 40 PVC COUPLINGS MIGHT GO THROUGH T INTERIOR OF ONE 4" SCH 40 PVC SLEEVE DEPENDING ON THE SLEEVE'S TRUE ROUNDNESS IF THE SLEEVE DOES NOT HAVE A TRUE ROUNDNESS ONE OF THE THREE LATERAL LINES MAY NEED TO BE REDUCED DOWN TO 1-14" WHILE GOING THROUGH THE SLEEVE
- THE DEPTH OF THE IRRIGATION LATERAL LINES SLEEVE SHALL BE EQUAL TO THE DEPTH OF THE IRRIGATION MAINSUBMAIN & CONTROL WIRES SLEEVES UNLESS THAT THE LATER HAVE DEPTHS 42 20 AG GREATER AND LITS IN OF PRACTICAL MOR DOES FEFFCTIVE FOR THE LATERAL LINES SLEED DEPTH TO BE SO DEEP FOR SHALLOWER TRENCH APPLICATIONS SUCH AS SIDEWARK OR OTHER SMALLOWER TRENCH APPLICATIONS SUCH AS SIDEWARK OR OTHER SMALLOWER THE SUCH AS THAN THE LATERAL LINES DEPTH.
- SLEEVES SHALL EXTEND 2** BEYOND THE EDGE OF SIDEWALK CROSSINGS, 4** BEYOND THE EDGE OF THE PAVED SURFACE FOR CURBED DRIVEWAY/STREET CROSSINGS, 7** BEYOND THE EDGE OF THE PAVED SURFACE FOR NON-CURBED DRIVEWAY/STREET CROSSINGS
- ENTIRE SLEEVE AND PIPE SECTIONS SHALL BE USED FOR CROSSINGS OF < 20°±
- JOINED SLEEVE SECTIONS SHALL BE WATER-PROOF SOLVENT-WELD JOINED;
- IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MEASURE, RECORD AND DOCUMENT THE LOCATIONS AND DEPTHS OF THE SLEEVE.

IRRIGATION MULTIPLE LATERAL LINES SLEEVE DETAIL SCALE: N.T.S.



DRIP IRRIGATION TUBING INSTALLATION DETAIL









TIANY ANG LIU FL LICENSE NO LA666764

Sunshine

2

PLANS RIVIE MINIMUM LANDSCAPE FLORIDA N O S WEST, TUDIO KEY S Ш COD Ш Ŧ

PROJECT NO 23005335 09/12/2023 WL

PLANNING COMMENTS-12/08/2023 PLANNING COMMENTS-01/04/2024 PLANNING/ROGO-02/09/2024

REVIEWED

IRRIGATION DETAILS

L4