RESOLUTION NO. R-2013-027

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA, AUTHORIZING THE APPROPRIATE CITY OFFICIALS TO EXECUTE THE ATTACHED INCLUSIVE LANDSCAPING MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE CITY OF HOLLYWOOD (CITY) TO MAINTAIN LANDSCAPE AND STREETSCAPE IMPROVEMENTS WITHIN THE FDOT'S HIGHWAY FACILITIES WITHIN THE MEDIANS, OUTSIDE THE TRAVEL WAY AND MADE TO THE TRAVEL WAY (IF APPLICABLE) THAT WERE MADE AT THE REQUEST OF THE CITY OF HOLLYWOOD.

WHEREAS, the City Commission desires to beautify the public rights-of-way within the City of Hollywood to include State highway facilities; and

WHEREAS, the Florida Department of Transportation has jurisdiction over State Roads A1A, 5, 7, 9, 820, 824 and 848 as part of the State Highway System, as described in Exhibit A, to the attached Inclusive Landscape Maintenance Memorandum of Agreement which traverse through the corporate limits of the City of Hollywood; and

WHEREAS, it is the intent of the FDOT and the City that FDOT's highway facilities that contain landscape and/or streetscape improvements within the medians, outside the travel lane and made to the travel lane that were made at the request of the City shall be maintained by the City; and

WHEREAS, the FDOT and the City have entered into previous agreements for the City to maintain landscape and streetscape improvements on FDOT's right of way, and for simplicity and uniformity of current and future landscaping understandings, the parties intend for this inclusive agreement to replace and supersede the previous landscape agreements described within Exhibit C to this inclusive agreement designated to be superseded, except as otherwise provided in the Agreement; and

WHEREAS, as part of this inclusive agreement, the FDOT and the City seek to have the City maintain landscape and streetscape improvements on Pending Department and Permit Landscape and Streetscape Improvement Projects which are described in Exhibits B and D to this inclusive agreement; and

RESOLUTION: INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT BETWEEN FDOT AND CITY FOR FDOT RIGHT OF WAY

WHEREAS, provisions to incorporate future landscape and streetscape improvements within State Road 7 as part of this inclusive agreement have been made and can be included once plans are finalized and accepted by both parties;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA:

Section 1: That it hereby approves and authorizes the execution, by the appropriate City officials, of the attached Inclusive Landscape Maintenance Memorandum of Agreement between the Florida Department of Transportation and the City of Hollywood, together with such non-material changes as may be acceptable to the City Manager and approved as to form and legality by the City Attorney.

Section 2: That this resolution shall be in full force and effect immediately upon its passage and adoption.

PASSED AND ADOPTED this 6 day of Feb, 2013.

PETER BOBER, MAYOR

ATTEST:

PATRICIA A. CERNY, MMC
CITY CLERK

APPROVED AS TO FORM & LEGALITY
for the use and reliance of the
City of Hollywood, Florida only:

JEFFREY P. SHEFFEL, CITY ATTORNEY

City of Hollywood

Inclusive Landscape Maintenance Memorandum of Agreement

Maintenance Boundary Graphic

LEGEND

- Hollywood City Limits
- Inclusive Agreement
- Excepted Out

N

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT FOUR (4) INCLUSIVE LANDSCAPE MAINTENANCE
MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____20____, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the **City of Hollywood**, municipal corporation of the State of Florida, existing under the Laws of Florida, hereinafter called the AGENCY.

W I T N E S S E T H:

WHEREAS, the DEPARTMENT has jurisdiction over State Roads A1A, 5, 7, 9, 820, 822, 824 and 848 as part of the State Highway System as described in Exhibit A; and

WHEREAS, the DEPARTMENT seeks to install or have installed and have maintained by the AGENCY certain landscape improvements, as defined in paragraph numbered 2, page 2, within the right of way of State Roads A1A, 5, 7, 9, 820, 822, 824 and 848 as described within Exhibit B and C; and

WHEREAS, the AGENCY has installed and maintains certain landscape improvements within the right of way of State Roads A1A, 5, 7, 9, 820, 822, 824 and 848 as described within Exhibit B, and C; and

WHEREAS, two (2) Adjacent Property owners adjacent to State Roads A1A and 5 seek to install landscape improvements described within Exhibits B and D, pursuant to a permit within the corporate limits of the AGENCY and the AGENCY seeks to maintain those landscape improvements, and

WHEREAS, the AGENCY and the DEPARTMENT have entered into previous agreements for the AGENCY to maintain landscape improvements on DEPARTMENT right of way; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the DEPARTMENT, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facilities as State Road(s) A1A, 5, 7, 9, 820, 822, 824 and 848 described further in Exhibit A attached hereto and incorporated by reference herein; and

WHEREAS, the AGENCY is of the opinion that the highway facilities within the AGENCY'S limits that contain landscape improvements shall be maintained by the AGENCY; and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travel way and improvements made to the travel way (if applicable) that were made at the request of the AGENCY; and

WHEREAS, as designated to be superseded, the AGENCY and DEPARTMENT intend for this agreement to replace and supersede the landscape agreements described within Exhibit C designated to be superseded, except as otherwise provided in this Agreement; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the AGENCY by Resolution No._____ dated _____, 20____,attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. The recitals set forth above are true and correct and are deemed incorporated herein.

2. INSTALLATION OF FACILITIES BY AGENCY

The AGENCY has installed certain *landscape improvements* described herein as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referenced to as the Project(s) and incorporated herein as referenced in Exhibit C. *Hardscape* shall mean, but not be limited to, site furnishings, landscape accent lighting, fountain, tree grates, decorative free standing or retaining wall(s), and/or any non-standard roadway, sidewalk, median or crosswalk surfacing, such as concrete pavers, color stained stamped concrete, and/or asphalt patterned pavement, but excludes standard concrete sidewalk.

When the AGENCY is installing or will install the PROJECT, they shall comply with the following criteria.

(a) All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA); all plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, *Florida Grades and Standards for Nursery Stock;* and all trees shall meet Florida Power & Light, *Right Tree, Right Place, South Florida.*

(b) Trees and palms within the right of way shall be installed and pruned to prevent encroachment to roadways, clear zones and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system and the Maintenance Plan, Exhibit E .

(c) Tree and palm pruning shall be supervised by properly trained and certified personnel and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI) Part A-300. Personnel shall be licensed by Broward County Environment Protection Department to perform this work.

(d) Irrigation installation and maintenance activities shall conform to the most current standards set forth by the Florida Irrigation Society (FIS), *Standards and Specifications for Turf and Landscape Irrigation Systems.*

(e) The AGENCY shall provide the DEPARTMENT'S local FDOT Operations Center accurate as-built plans of the irrigation system so in the future if there is a need for the DEPARTMENT to perform work in the area, the system can be accommodated as much as possible.

(f) If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local FDOT Operations Center. The AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.

(g) Patterned Pavement (if applicable) shall be installed and maintained as described in the plans and further described in Exhibit G and Exhibit H.

(h) All sidewalk, crosswalk and / or median non-standard surfacing (if applicable) shall be installed and maintained in strict accordance with the most current edition of the *Florida Accessibility Code for Building Construction* and the *Interlocking Concrete Pavement institute (ICPI)* and in accordance with the Maintenance Plan, Exhibit E.

(i) All activities, including project installation and future maintenance operations performed on State highway right of way, must be in conformity with the most current edition of the *Manual on Uniform Traffic Control* (MUTCD) and *FDOT Design Standards*, Index 600 Series, *Traffic Control through Work Zones.*

(j) The most current edition of *FDOT Design Standards,* Index 546 must be adhered to in all activities performed on the State Highway right of way.

(k) Horizontal and Vertical Clearance and Clear Zone as specified in the *FDOT Plans Preparation Manual,* Volume 1, Chapters 2 and 4 and *FDOT Design Standards*, Index 700 must be adhered to in all activities performed on the State Highway right of way.

(l) Landscape improvements shall not obstruct roadside signs, traffic signals or permitted outdoor advertising signs, (see Florida Administrative *Code* [F.A.C.] Rule Chapter 14-40, Part I and Part III.)

(m) The AGENCY shall provide the local FDOT Operation Center, Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300) a twenty-four (24) hour telephone number and the name of a responsible person that the DEPARTMENT may contact. The AGENCY shall notify the local FDOT Operations Center forty-eight (48) hours prior to the start of the project.

(n) If there is a need to restrict the normal flow of traffic, it shall be done on off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the project. The DEPARTMENT'S Public Information Office shall also be notified.

(o) The AGENCY shall be responsible to clear all utilities within the landscape improvement limits before construction commences.

(p) The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT Rule Chapter 14-40 *Highway Beautification and Landscape Management*, the FDOT *Guide to Roadside Mowing and Maintenance Management System,* FDOT *Maintenance Rating Program Standards* and Exhibit E, the Maintenance Plan for maintenance activities for landscape projects as well as the superseded landscape agreement's Maintenance Plan's Part II, and Exhibit H, the Patterned Pavement Maintenance.

3. INSTALLATION OF FACILITIES BY DEPARTMENT

The DEPARTMENT shall install or cause to be installed *landscape improvements* described as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in the initial plans and specifications hereinafter referred to as the Project(s) and incorporated herein as referenced in Exhibit B and C. *Hardscape* shall mean, but not be limited to, any landscape accent lighting, fountain, tree grates, decorative free standing wall and/or any non-standard roadway, sidewalk, median or crosswalk surfacing such as, but not be limited to, concrete pavers, color stamped asphalt and/or color stamped concrete. If there are any major changes to the plan(s), the DEPARTMENT shall provide the modified plan(s) to the AGENCY and the AGENCY shall provide their approval or disapproval to the DEPARTMENT within 10 business days. The DEPARTMENT may elect to withdraw the landscape improvements if changes are not approved within the given time frame.

4. MAINTENANCE OF FACILITIES

A. The AGENCY agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in Exhibit A. The landscape improvements outside the travelway shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others by periodic mowing, fertilizing, weeding, pruning, curb and sidewalk edging, litter pickup, necessary replanting, irrigation system repair and/ or repair of any median concrete replacement associated with the non-standard surfacing (if applicable) following the DEPARTMENT'S landscape safety and maintenance guidelines, Exhibit E, the Maintenance Plan and Exhibit H the Patterned Pavement Maintenance (if applicable). The AGENCY'S responsibility for maintenance shall include all landscaped, turfed and hardscape areas within the median and areas outside the travelway to the right of way and areas within the travelway containing non-standard surfacing (if applicable). It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard surfacing and the associated header curb and concrete areas (if applicable) on DEPARTMENT right of way within the limits of this Agreement.

B. Such maintenance to be provided by the AGENCY is specifically set out as follows: to maintain, which means to properly water and fertilize all plants; to keep them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the turf to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage and permitted outdoor advertising signs (per Florida Statute 479.106), and for those using the roadway and/or sidewalk; (3) preventing any other potential roadway hazards. Plants shall be those items which would be scientifically classified as plants and include trees, palms, shrubs, groundcover and turf. To maintain also means to remove or replace dead or diseased plants in their entirety, or to remove or replace those that fall below original project standards. Palms shall be kept fruit free year round. To maintain also means to keep the header curbs that contain the specialty surfacing treatment in optimum condition. To maintain also means to keep the hardscape areas clean, free from weeds and to repair said hardscape as is necessary to prevent a safety hazard. To maintain also means to keep litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the DEPARTMENT for review and approval.

C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the travelway for these improvements, all costs associated with the utilities associated with landscape accent lighting and/or irrigation including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining AGENCY'S responsibility.

(1) The AGENCY shall be directly responsible for impact and connection fees.

(2) If installed by the DEPARTMENT the AGENCY shall become responsible for the above named utility costs upon final acceptance of the construction project by the DEPARTMENT and thereafter. The construction project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

(3) The AGENCY shall be responsible for all the improvements immediately after final acceptance of the construction project by the DEPARTMENT except for plant material which will be maintained by the Department's contractor during the Plant Establishment and Contractor's Warranty Period. The AGENCY shall be responsible for the maintenance of all improvements after the completion of the Plant Establishment and Contractor's Warranty Period. If the AGENCY installs the hardscape, the AGENCY shall be responsible for utilities as provided for in paragraph number 2. (f).

D. The above named functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding, repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

5. SUPERSEDED PRECEDING LANDSCAPE AGREEMENTS

This Agreement shall replace and supersede any and all preceding landscape agreements as listed in Exhibit C except as specifically excepted out. The landscape improvement plans and the associated Maintenance Plan Part II attached to the referenced agreements and project costs shall by reference become a part of this agreement as if they were attached hereto unless superseded by later plans. The AGENCY shall have the same duty to maintain those landscape improvements under this Agreement as the Agency did under the previous landscape agreements, and as more specifically detailed in this Agreement.

This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby except as specifically reference in Exhibit C.

6. NOTICE OF MAINTENANCE DEFICIENCIES

A. If at any time after the AGENCY has undertaken the landscape improvement installation and/or maintenance responsibility mentioned above, it shall come to the attention of the DEPARTMENT'S District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the AGENCY, to placing said AGENCY on notice thereof. Thereafter, the AGENCY shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the DEPARTMENT may, at its option, proceed as follows:

(1) Complete the installation, or part thereof, with DEPARTMENT or Contractor's personnel and deduct the cost of such work from the final payment for said work or part thereof, or,

(2) Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred, or,

(3) At the discretion of the DEPARTMENT terminate the Agreement in accordance with Paragraph 11, and remove, by the DEPARTMENT or private Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements except as to trees and palms and charge the AGENCY the reasonable cost of such removal.

B. The AGENCY agrees to reimburse the DEPARTMENT all monies expended by the DEPARTMENT for the projects listed in Exhibit B, C and D in the amounts listed in those agreements should the landscape improvement areas fail to be maintained in accordance with the terms and conditions of this Agreement in the amounts listed in those agreements.

7. FUTURE DEPARTMENT IMPROVEMENTS

In the event the DEPARTMENT decides to construct additional landscape improvements or modify these improvements within the limits of the rights of way herein previously identified, the DEPARTMENT and the AGENCY shall agree in writing and require signature from the AGENCY approving the new landscape improvements and maintenance plan thereof. If the AGENCY and the DEPARTMENT are

unable to come to an agreement, the DEPARTMENT, in its sole discretion, may install sod and the agency shall be required, pursuant to this Agreement, to continue maintaining said landscape improvements. It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the DEPARTMENT in order that the adjacent state road(s) be widened, altered, or otherwise changed to meet with future criteria or planning of the DEPARTMENT. The AGENCY shall be given sixty (60) calendar day's notice to remove said landscape/hardscape after which time the DEPARTMENT may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining AGENCY'S responsibility.

8. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

(a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.

(b) The AGENCY shall procure a permit from the DEPARTMENT.

(c) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

(d) The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed at no cost to the DEPARTMENT.

(e) If the AGENCY'S landscape improvements include additional maintenance requirements, the AGENCY, and the DEPARTMENT shall enter into an Agreement Amendment describing the additional requirements.

9. ADJACENT PROPERTY OWNER IMPROVEMENTS

The DEPARTMENT may allow an adjacent property owner to construct additional landscape improvements within the limits of the right of way identified in Exhibit A of this document that the AGENCY shall be responsible for maintaining under this agreement subject to the following conditions:

(a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT and shall require a valid permit attached with a letter of consent to said plans by the AGENCY. The plans shall not be changed or deviated from without written approval by the DEPARTMENT and the AGENCY.

(b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

(c) The AGENCY agrees to comply with the requirements of the Agreement with regard to any additional landscape improvements installed by an adjacent owner.

(d) If the Adjacent Property Owner's landscape improvements include additional maintenance requirements, the AGENCY, and the DEPARTMENT shall enter into an Agreement Amendment describing the additional requirements

10. PROJECT COST FOR DEPARTMENT INSTALLED PROJECT

The DEPARTMENT agrees to enter into a contract for the installation of the Project(s) for an amount not to exceed **$125,572.00** as defined in Exhibit F. This amount may be reduced or eliminated at the sole discretion of the DEPARTMENT or due to budgetary constraints of the DEPARTMENT.

The DEPARTMENT'S participation in the Project cost, as described in Exhibit F, is limited to only those items which are directly related to these Project(s).

The AGENCY shall be invited to assist the DEPARTMENT in final inspection upon completion of the Plant Establishment and Contractor's Warranty Period.

11. AGREEMENT TERMINATION

This Agreement may be terminated under any one (1) of the following conditions:

(a) By the DEPARTMENT, if the AGENCY fails to perform its duties under this Agreement, following ten (10) days written notice.

(b) By the DEPARTMENT, for refusal by the AGENCY to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the AGENCY in conjunction with this Agreement.

12. AGREEMENT TERM

A. The term of this Agreement commences upon execution by all parties. The term of this Agreement shall remain in effect for twenty-five (25) years.

B. If the DEPARTMENT cancels one or all the project(s) described in Exhibit B this Agreement shall still be valid.

13. LIABILITY AND INSURANCE REQUIREMENTS

A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for this project shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, sub-consultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.

B. In the event that AGENCY contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:

(a) AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of $1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of $500,000.00 per Liability. Coverage must be afforded on a form no more restrictive that the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name the DEPARTMENT as an additional insured.

(b) AGENCY'S contractor shall furnish AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverage specified herein prior to the beginning performance of work under this Agreement.

(c) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) days notice of cancellation and or/or restriction. If any of the insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

14. E-VERIFY REQUIREMENTS

AGENCY shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

(1) Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Agency during the term of the contract; and

(2) Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the Agency term.

15. The DEPARTMENT, during any fiscal year, shall not expend money, incur any liability, nor enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The DEPARTMENT shall require a statement from the Comptroller of the DEPARTMENT that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the DEPARTMENT which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) and which have a term for a period of more than one year.

16. DISPUTES

The DEPARTMENT'S District Secretary shall decide all questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions, and disputes shall be final and conclusive upon the parties hereto.

17. ASSIGNMENT

This Agreement may not be assigned or transferred by the AGENCY, in whole or in part, without the prior written consent of the DEPARTMENT.

18. LAWS GOVERNING

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Agency agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this agreement is decided.

19. EXCEPTION TO SUPERSEDED PRECEDING LANDSCAPE AGREEMENTS

This Agreement constitutes the complete and final expression of parties with respect to the subject matter hereof and supersedes all prior landscape agreements, understandings, or negotiations with respect thereto, with the exception of the landscape improvements plans and the associated Maintenance Plan Part II and the Agreements "Excepted Out" in Exhibit C.

20. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:
State of Florida Department of Transportation
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attention: Elisabeth A. Hassett, R.L.A.
FDOT District IV Landscape Architect

If to the AGENCY:
City of Hollywood
2600 Hollywood Boulevard
Hollywood, Florida
Attention: Jonathan Vogt, P.E.
City Engineer

21. LIST OF EXHIBITS

Exhibit A: Landscape Improvements Limits & Maintenance Boundaries List, Table and Graphic
Exhibit B: Department and Permit Projects Pending Landscape Agreement(s)
Exhibit C: Preceding Landscape Agreement Description(s) and Other Agreement Descriptions
Exhibit D: Pending Department and Permit Projects Landscape Improvement Plans
Exhibit E: Landscape Maintenance Plan
Exhibit F: Pending Department Project(s) Cost Estimate
Exhibit G: Agency Patterned Pavement Installation
Exhibit H: Patterned Pavement Maintenance

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

CITY OF HOLLYWOOD

By: _____
Mayor

Attest: _____ (SEAL)
Clerk

Approval as to Form

_____ _____
Attorney Date

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Approval as to Form

_____ _____
Office of General Counsel Date

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT A

CITY OF HOLLYWOOD
LANDSCAPE IMPROVEMENT LIMITS AND MAINTENANCE BOUNDARIES LIST

All state rights of way within the limits of the City of Hollywood to be maintained are from:

SR A1A
Section 86030000
(SR 858/Hallandale Beach Blvd.) MP 0.79 to (Dania Beach Blvd.) MP 5.380 except;
(600' N. of SR 858/Hallandale Beach Blvd.) MP 0.90 to (100' N. of Diplomat Property) MP 1.220 which will continued to be maintained under separate agreement

SR 5/US 1
Section 86010000
(SR 824/Pembroke Road) MP 1.526 to (SR 822/Sheridan Street) MP 4.156

SR 5/US 1
Section 86010500
(Young Circle/North Side) MP 0.000 to (Young Circle/South Side) 0.248

SR 7/US 441
Section 86100000
(SR 824/Pembroke Road) MP 1.56 to (515' North of Farragut St.) MP 4.34

SR 820/Hollywood Blvd
Section 86040000
(SR 91/Turnpike) MP 13.64 to (N/S 28th Ave.) MP 16.826 and;
(N/S 17th St/Young Circle) MP 18.394 to (SR A1A) MP 19.956

SR 820/Hollywood Blvd
Section 86040215
(Eastbound Hollywood Circle) MP 0.00 to (Westbound Hollywood Circle) MP 0.277

SR 824/Pembroke Road
Section 86018000
(SW/S 52nd Ave.) M.P. 3.28 to (SR 9/I-95) MP 5.059 which will continue to be maintained under separate agreement and (West of I-95) M.P. 5.059 to (370' W. of S. 28th Ave./N.W. 10th Ave.) M.P. 5.22

SR 822/Sheridan Street
Section 86230000
(SR 7/US 441) MP 0.000 to (SR A1A) MP 5.792 and
(SW 19th Court) M.P. 5.45 to (SW 18th Ave/Oakwood Boulevard) M.P. 5.7

SR 848/Stirling Road
Section 86016000
(SR 7/US 441) MP 2.656 to (N. 30th Ave.) MP 5.130

SR 9/I-95
Section 86070000
SR 820/Hollywood Blvd Interchange
Northwest Quadrant (southbound off ramp) MP 0.00 to 0.251 and;
Northeast Quadrant (northbound on ramp) MP 0.00 to 0.204 and;
Southwest Quadrant (southbound on ramp) MP 0.00 to 0.166 and;
Southeast Quadrant (northbound off ramp) MP 0.00 to 0.264

SR 822/Sheridan Street Interchange
Northwest Quadrant (southbound off ramp) MP 0.00 to 0.212 and;
Northeast Quadrant (northbound on ramp) MP 0.00 to 0.209 and;
Southwest Quadrant (southbound on ramp) MP 0.00 to 0.216 and;
Southeast Quadrant (northbound off ramp) MP 0.00 to 0.258

SR 824/Pembroke Road Interchange:
Northwest Quadrant (southbound off ramp) MP 0.00 to 0.258 and;
Northeast Quadrant (northbound on ramp) MP 0.00 to 0.215

SR 848/Stirling Road Interchange
Southwest Quadrant (southbound on ramp) MP 0.00 to 0.211 and;
Southeast Quadrant (northbound off ramp) MP 0.00 to 0.254

Taft Street Limited Access, all quadrants MP 3.580 to 3.589

SECTION No.(s): 86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230
S.R. No.(s): A1A, 5, 7, 9, 820, 822, 824 & 848
COUNTY: Broward

EXHIBIT A

CITY OF HOLLYWOOD LANDSCAPE MAINTENANCE LIMITS TABLE
The following are State Road(s) to be maintained within the limits of the City of Hollywood

STATE ROAD	BEGIN LIMITS	BEGIN MILEPOST	END LIMITS	END MILEPOST	MAINTENANCE LIMITS	
A1A	SR 858/Hallandale Bch. Blvd.	0.790	Dania Beach Blvd.	5.380	ROW to ROW	86030000
A1A EXCEPTION	600 ' N. of SR 858/Hallandale Beach Blvd.	0.900	100' N. of Diplomat Property	1.220	ROW to ROW	86030000
5/US 1	824/Pembroke Road	1.526	822/Sheridan Street	4.156	ROW to ROW	86010000
5/US 1	Young Circle North Side	0.000	Young Circle South Side	0.248	ROW to ROW	86010500
7/US 441	824/Pembroke Road	1.560	515' N. of Farragut Street	4.340	ROW to ROW	86100000
820/Hollywood Blvd	SR 91/Turnpike	13.640	N/S 28th Ave.	16.826	ROW to ROW	86040000
820/Hollywood Blvd	N/S 17th Ave. Young Circle	18.394	SR A1A	19.956	ROW to ROW	86040000
820/Hollywood Blvd	EB Hollywood Circle	0.000	WB Hollywood Circle	0.277	ROW to ROW	86040215
822/Sheridan Street	SR 7/ US 441	0.000	SR A1A	5.792	ROW to ROW	86230000
824/Pembroke Road EXCEPTION	SW/S 52nd Ave.	3.28	SR 9/I-95	5.059	ROW to ROW	86018000
824/Pembroke Road	(West of 1-95)	5.059	(370' W. of S. 28th Ave./N.W. 10th Ave.)	5.22	ROW to ROW	86018000
848/Stirling Road	SR 7/ US 441	2.656	N. 30th Ave.	5.130	ROW to ROW	86016000
848/Stirling Road	SW 19th Court	M.P. 5.45	S.W. 18th Ave./Oakwood Boulevard	5.7	ROW to ROW	86016000

9/I-95	**820/Hollywood Blvd Interchange**					
	NW Quadrant	0.000		0.251	Southbound off ramp	86070015
	NE Quadrant	0.000		0.204	Northbound on ramp	86070016
	SW Quadrant	0.000		0.166	Southbound on ramp	86070014
	SE Quadrant	0.000		0.264	Northbound off ramp	86070017
9/I-95	**822/Sheridan Street Interchange**					
	NW Quadrant	0.000		0.212	Southbound off ramp	86070019
	NE Quadrant	0.000		0.209	Northbound on ramp	86070020
	SW Quadrant	0.000		0.216	Southbound on ramp	86070018
	SE Quadrant	0.000		0.258	Northbound off ramp	86070021
9/I-95	**824/Pembroke Road Interchange**					
	NW Quadrant	0.000		0.258	Southbound off ramp	86070011
	NE Quadrant	0.000		0.215	Northbound on ramp	86070012
9/I-95	**848/Stirling Road Interchange**					
	SW Quadrant	0.000		0.211	Southbound on ramp	86070022
	SE Quadrant	0.000		0.254	Northbound off ramp	86070024
9/I-95	**Taft St. Limited Access Easement**	3.580		3.589	All quadrants	86070000

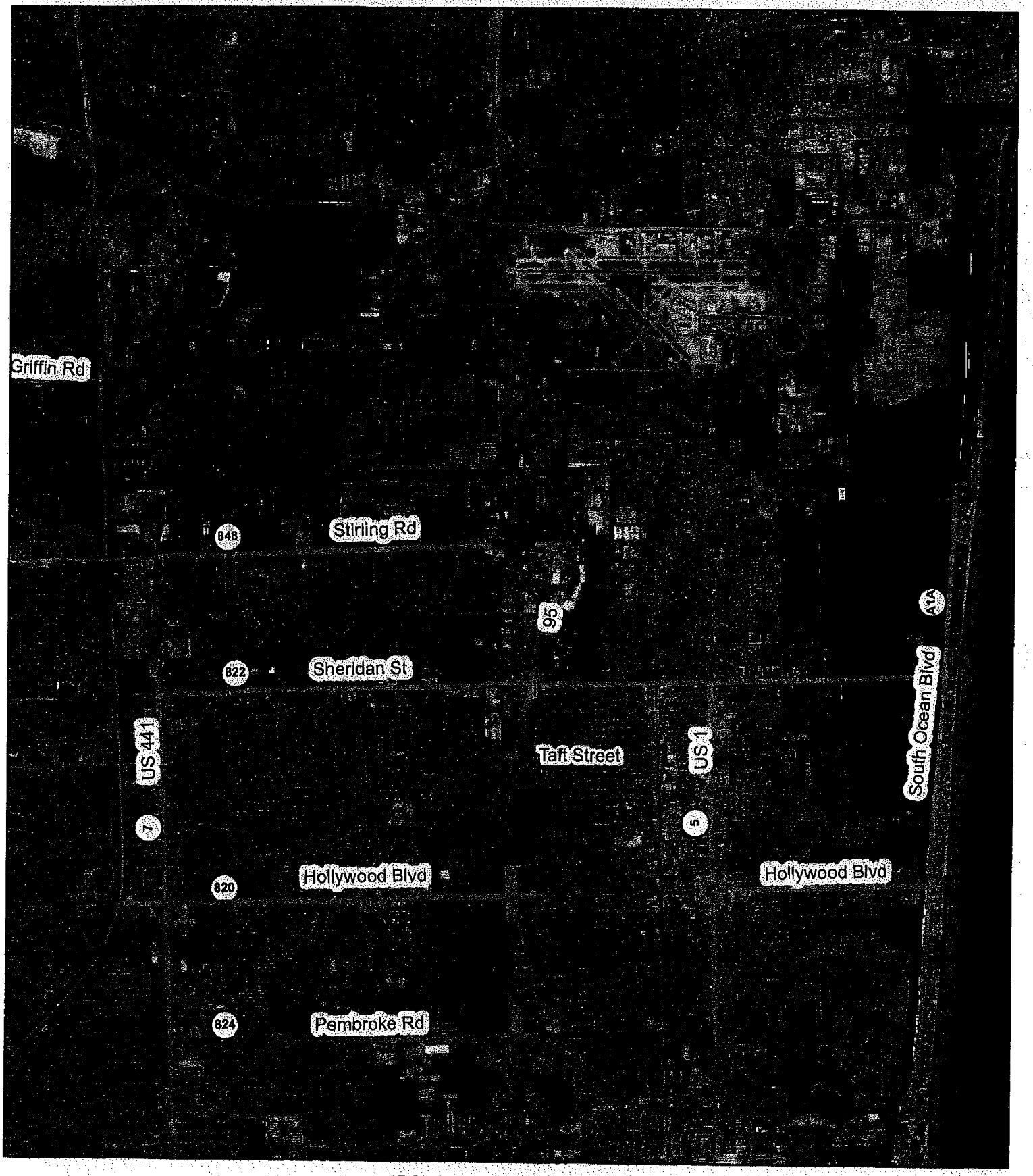
Areas to be maintained by the Agency pursuant to this Landscape Maintenance Memorandum of Agreement (MOA).

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT A

CITY OF HOLLYWOOD LANDSCAPE MAINTENANCE LIMITS GRAPHIC

See Attached Graphic of State Road(s) to be maintained within the limits of the City of Hollywood



LEGEND

- Hollywood City Limits
- Inclusive Agreement
- Excepted Out

City of Hollywood

Inclusive Landscape Maintenance Memorandum of Agreement

Maintenance Boundary Graphic

N

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT B

DEPARTMENT AND PERMIT PROJECTS PENDING LANDSCAPE AGREEMENT(S)

DEPARTMENT PROJECTS:

State Road 9 (I-95) and State Road 824 (Pembroke Road) Interchange, northwest quadrant from M.P. 0.00 to M.P. 0.258 and northeast quadrant from M.P. 0.000 to M.P. 0.215

State Road 9 (I-95) and State Road 820 (Hollywood Boulevard) Interchange, northwest quadrant M.P. 0.00 to M.P. 0.251 and northeast quadrant M.P. 0.00 to M.P. 0.204 and southwest quadrant M.P. 0.00 to M.P. 0.166 and southeast quadrant M.P. 0.00 to M.P. 0.264

State Road 9 (I-95) and State Road 848 (Stirling Road) Interchange, southwest quadrant from M.P. 0.00 to M.P. 0.211 and southeast quadrant from M.P. 0.00 to M.P. 0.254

ADJACENT PROPERTY OWNER PERMIT:

SR A1A (North Ocean Drive) at Johnson Street (M.P. 2.980). Permit Number: 2011-A-491-0054. Margaritaville Hollywood Beach Resort, LLC.

SR 5 (Federal Highway) at Young Circle (M.P. 2.50 - 2.60). Permit Number: 2011-A-491-0013. Broward County Transit.

SR A1A (Ocean Drive) from New York Street (M.P. 2.793) to Sheridan Street (M.P. 4.089). City of Hollywood CRA

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT C

PRECEDING LANDSCAPE AGREEMENT DESCRIPTION(S) AND OTHER AGREEMENT DESCRIPTIONS

The following Landscape agreements have been executed for projects that have been installed in accordance with the plans and specifications attached thereto and incorporated herein but not exclusive to the following agreement descriptions:

LANDSCAPE AGREEMENTS SUPERSEDED BY THIS AGREEMENT

State Road A1A

3/17/98 State Road A1A from Hollywood Blvd. (M.P. 2.480) to Sheridan Street (M.P. 4.092) $590,000.00 for landscape, irrigation and hardscape. WPI# 4110805, Resolution No. R-98-09 (1/7/98).

11/20/96 State Road A1A from south City Limits (M.P. 0.776) to (M.P. 2.500) to SR 820 (Hollywood Blvd.) $64,872.32 for landscape, irrigation and hardscape. WPI# 4119110, Contract No. AD 957, Resolution No. R-96-433 (10/2/96).

1/3/91 State Road A-1-A from south City Limits (M.P. 0.776) to SR 820 (Hollywood Blvd.) (M.P. 2.614) for landscape. WPI #4119110, Resolution No. R-91-01 (1/3/91).

State Road 5 (US 1)

9/30/08 State Road 5 (US 1) from north of Young Circle (M.P. 2.713) to south of Sheridan Street (M.P. 4.117) $83,794.78 for landscape, irrigation and pavers. FM# 413794.1, Resolution No. R-2008-284 (9/17/08).

4/9/03 State Road 5 (US 1) from Pembroke Road (M.P. 1.597) to northern limits of Young Circle (M.P. 2.713) $221,576.91 for landscape and irrigation. FM# 228034.1, Resolution No. 2003-119 (4/9/03).

4/11/96 State Road 5 (US 1) and SR 820 (Hollywood Blvd.) (M.P. 0.000) at Young Circle (M.P. 0.248) $5,000.00 for landscape and irrigation WPI# 4111027, Resolution No. R-95-432 (10/11/95).

State Road 9 (I-95)

4/29/10 State Road 9 (I-95) Intersection at Taft Street all four corners (M.P. 3.580 to M.P. 3.589) for landscape. Permit No. 2009-L-491-0012.

5/6/98 State Road 9 (I-95) at SR 824 (Pembroke Road) (M.P. 1.521) and SR 822 (Sheridan Street) (M.P. 4.130) $240,000.00 for landscape, irrigation and hardscape. WPI# 4140996, Contract No. AF 780, Resolution No. R-98-92 (3/4/98).

9/9/97 State Road 9 (I-95) and SR 820 (Hollywood Blvd.) (M.P. 2.3) to (M.P. 2.826) $80,000.00 for landscape and irrigation. WPI# 4119110, Contract No.AF 081, Resolution No. R-97-334 (6/25/97).

7/1/96 State Road 9 (I-95) from east side from Pembroke Road (M.P. 1.521) to Hollywood Blvd. (M.P. 2.550) $42,155.00, for landscape WPI# 4612012, Contract No. AD 673, Resolution No. R-96-72 (2/21/96).

State Road 820 (Hollywood Blvd.)

7/28/10 State Road 820 (Hollywood Blvd.) from east of 60th Avenue (M.P. 14.018) to 44th Avenue (M.P. 15.395) $447,527.68 for landscape and irrigation. FM # 421659.2, Resolution No. R-2010-174 (7/14/10).

11/17/08 State Road 820 (Hollywood Blvd.) from Young circle (M.P. 18.394) to Intracoastal Waterway (M.P. 19.638) $201,246.50 for landscape and irrigation. FM# 413835.1, Resolution No. R-2008-283 (11/5/08).

1/5/07 State Road 820 (Hollywood Blvd.) from N/S 44th Ave. (M.P. 15.241) to Calle Largo Road (M.P. 16.431) $116,103.00 for landscape and irrigation. FM# 228160.1, Resolution No. 2006-432 (12/20/06).

2/2/05 State Road 820 (Hollywood Blvd.) at the Intracoastal Waterway from north and south 8th Ave. (M.P. 19.637) to SR A1A (M.P. 19.956), FM# 407507.1, Resolution R-2005-023 (2/2/05).

5/10/00 State Road 820 (Hollywood Blvd.) from west City Limits (M.P. 13.640) to SR 9 (I-95) (M.P. 16.583) $374,307.00 for landscape, irrigation and hardscape. FM# 408437.1, Contract No. AI 477, Resolution No. R-2000-121 (4/5/00).

6/16/93 State Road 820 (Hollywood Blvd.) (M.P. 15.679) to (M.P. 16.876) Maintenance MOA Grant $75,306.55 landscape maintained. WPI# 4610128, Resolution No. 93-219 (6/16/93).

6/16/93 State Road 820 (Hollywood Blvd.) (M.P. 15.679) to (M.P. 16.876) Highway Beautiful Grant MOA $75,306.55 landscape installed. Resolution No. 93-219 (6/16/93).

State Road 822 (Sheridan Street)

11/25/08 State Road 822 (Sheridan Street) from east of SR 7 (US 441) (M.P. 0.02) to west of SR 9 (I-95) (M.P. 2.709) $184,960.60 for landscape and irrigation. FM# 416883.1, Resolution No. R-2008-340 (11/5/08).

3/31/04 State Road 822 (Sheridan Street) from SR 5 (US 1) (M.P. 4.057) to the Intracoastal Waterway (M.P. 5.642) $192,716.85 for landscape, irrigation and concrete pavers. FM# 227938.1, Resolution No. R-2004-85 (3/17/04).

7/10/92 State Road 822 (Sheridan Street) from 46th Ave. (M.P. 1.134) to SR 9 (I-95) (M.P. 2.715) $175,437.00 for landscape. WPI# 4610104, Resolution No. R-92-12 (7/10/92).

7/17/91 State Road 822 (Sheridan Street) from east of SR 9 (I-95) (M.P. 2.771) to SR 5 (US 1) (M.P. 4.570) $125,150.82 for landscape materials.

4/12/77 Amendment to 4/19/72 Agreement State Road 822 (Sheridan Street) from SW 56th Ave. (M.P. 0.503) to SR 9 (I-95) (M.P. 2.739) to maintain the entire landscape project including the irrigation system. Resolution No. R-77-36 (3/16/77).

4/19/72 State Road 822 (Sheridan Street) from SW 56th Ave. (M.P. 0.503) to SR 9 (I-95) (M.P. 2.739) to maintain the entire landscape project including the irrigation system. Resolution No. R-72-85 (4/19/72).

State Road 824 (Pembroke Road)

8/28/08 State Road 824 (Pembroke Road) from S.W. 52nd Avenue (M.P. 3.382) to SR 9 (I-95) (M.P. 5.059) $108,211.00 for landscape. FM# 423266, Contract No. AP747, Resolution R-2007-141 (5/2/07).

3/3/98 State Road 824 (Pembroke Road) from SR 7 (US 441) (M.P. 2.528) to CSX Railroad (M.P. 5.007) $300,000.00 for landscape & irrigation. WPI# 4111065, Resolution No. 97-522 (11/19/97).

State Road 848 (Stirling Road)

5/23/06 State Road 848 (Stirling Road) from east of US 441 (M.P. 2.728) to west of State Road 9 (I-95) (M.P. 5.00) $189,670.00 for landscape and irrigation, FM# 411438.1, Resolution No. R-2006-135 (5/3/06).

10/8/01 State Road 848 (Stirling Road) from N 56th Ave. (M.P.3.160) to SR 9 (I-95) (M.P. 5.532) $163,682.00 (Amendment to 3/26/98) for landscape. FM# 411416.1, Contract No. AK503, Resolution No. R-2001-032 (10/8/01).

3/26/98 State Road 848 (Stirling Road) at SR 9 (I-95) (M.P. 5.532) $62,332.50 for landscape irrigation and hardscape. WPI# 4111147, Contract No. AF 730, Resolution No. R-9891 (3/4/98).

PERMIT PROJECTS PENDING LANDSCAPE AGREEMENTS

State Road A1A

9/11/12 State Road State Road A1A (North Ocean Drive) at Johnson Street (M.P. 2.980) for landcape. Permit #2012-L-491-0005 (Reference Permit Number: 2011-A-491-0054 issued to Margaritaville Hollywood Beach Resort, LLC), Agency Letter of Commitment to Maintain signed 9/11/12.

State Road 5 (US 1)

State Road 5 (Federal Highway/US 1) at Young Circle (M.P. 2.50-2.60) Permit No. 2011-A-491-0013 issued to Broward County Transit. Agency Letter of Commitment to Maintain signed November 21, 2012.

FUTURE PROJECTS PENDING AGREEMENTS

State Road 7 (US 441)

State Road 7 (US 441) from State Road 858 (Hallandale Beach Blvd.) (M.P. 1.701) to Fillmore Street (M.P. 2.841) FM # 227774.1. Letting Date: 10/30/13

State Road 7 (US 441) From north of Fillmore Street (M.P. 2.841) to south of State Road 848 (Stirling Road) (M.P. 4.340) FM # 227775.1. Letting Date: 4/29/15

LANDSCAPE AGREEMENTS EXCEPTED OUT OF THIS AGREEMENT

11/17/00 State Road A1A from 600' north of Hallandale Beach Blvd. (M.P. 0.787) to just north of the Diplomat Resort Property Line (M.P. 1.200) All pavers, sidewalks and curbs associated with paver bricks, roadway asphalt and base, drainage systems and drainage conveyance within the Departments right-of-way, Project No. 86050.

10/27/00 State Road 824 (Pembroke Road) from SR 7 (US 441) (M.P. 2.528) to SR 9 (I-95) (M.P. 5.059) For landscape and pavers. FM# 409822.1 Contract No. AJ356, Resolution No. R-97-522 (11/19/97). Reimbursable Agreement.

LEASE AGREEMENT EXCEPTED OUT OF THIS AGREEMENT

5/3/94 State Road A1A. Lease agreement for Airspace

This Agreement, pursuant to paragraph number 5, shall supersede all other above agreements except as to the actual landscape plans and project cost that have not been replanted by subsequent FDOT approved projects and those that are "excepted out". The terms of this agreement shall apply to those landscape plans.

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT D

PENDING DEPARTMENT AND PERMIT PROJECT LANDSCAPE IMPROVEMENT PLANS

Please see attached plans by:

Department Projects Plans

State Road 9 (I-95) at Pembroke Road
State Road Reynolds, Smith and Hills, Inc.
Ronald R. Sill, RLA
Dated: 10/15/12

State Road 9 (I-95) at Hollywood Boulevard
State Road Reynolds, Smith and Hills, Inc.
Ronald R. Sill, RLA
Dated: 10/15/12

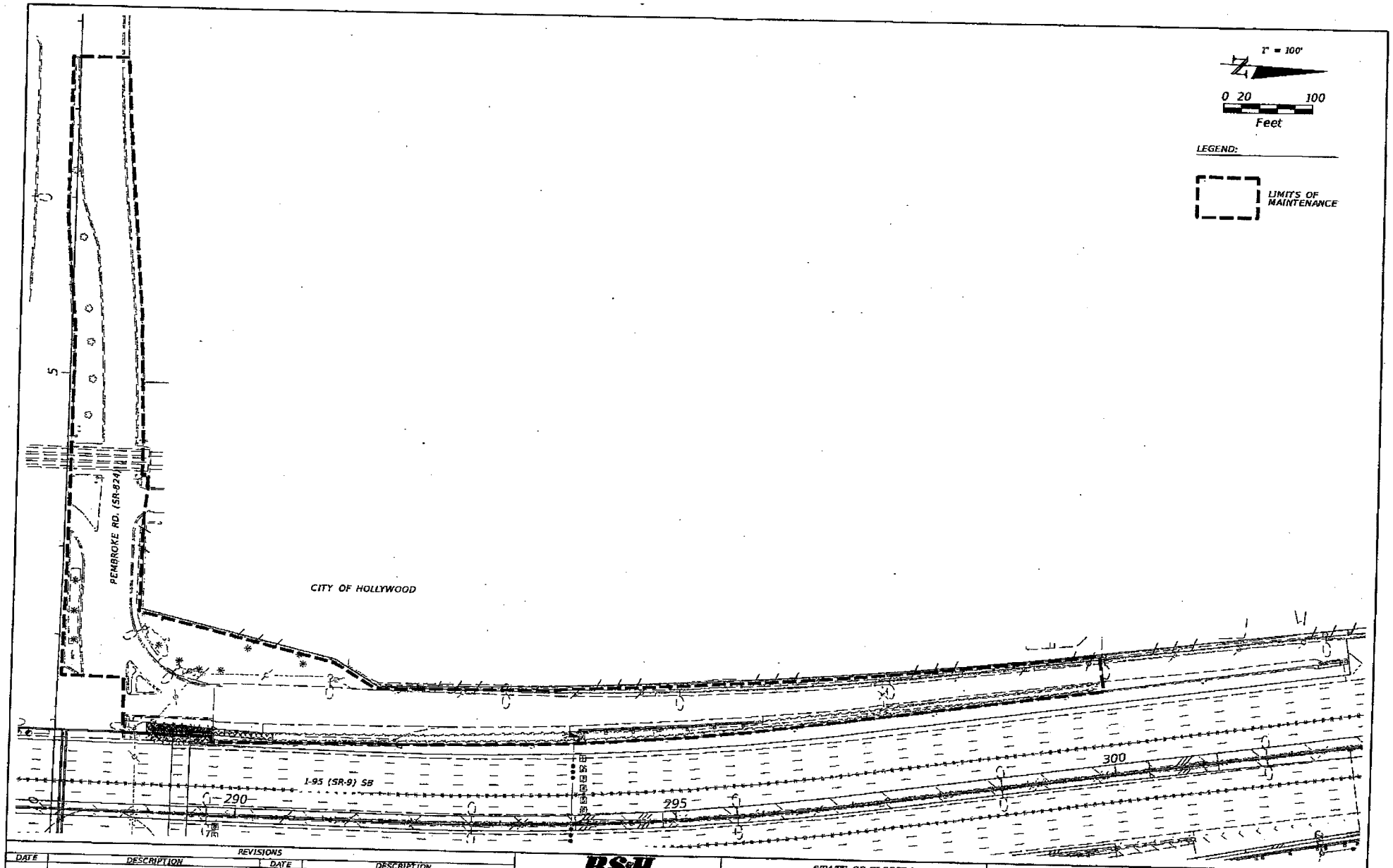
State Road 9 (I-95) at Stirling Road
State Road ReynoldS, Smith and Hills, Inc.
Ronald R. Sill, RLA
Dated: 10/15/12

Permit Projects Plans

State Road A1A
Lifescapes International
Dan Trust, RLA
Dated: 10/17/11

State Road 5
Architectural Alliance
Hugh Johnson, RLA
Dated: 11/12/12

State Road A1A
Kimley Horn
Jonathan Haigh, RLA
Dated: 1/23/13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

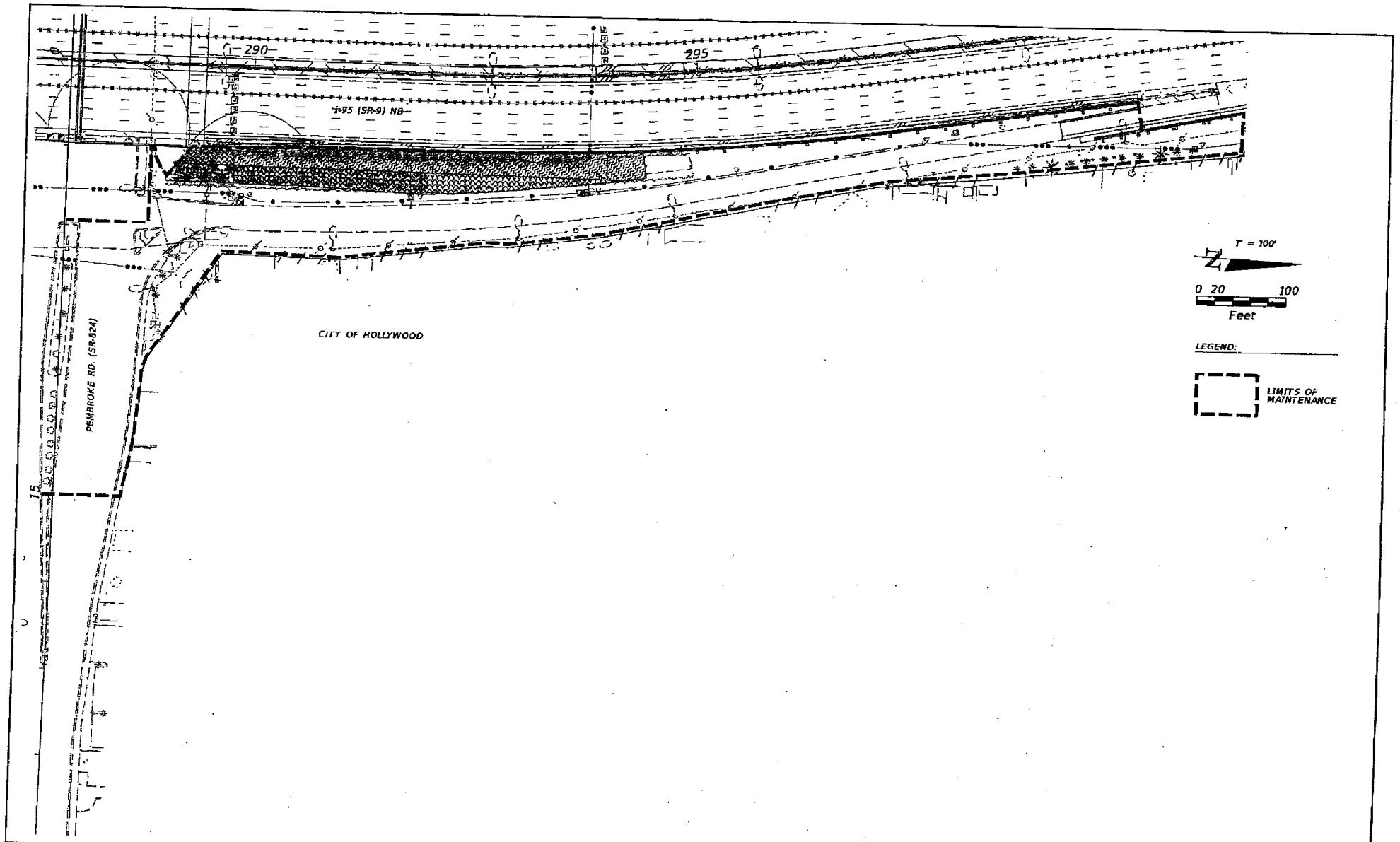
RS&H
Reynolds, Smith and Hills, Inc.
5125 W. Commercial Blvd. - Suite 130
Fort Lauderdale, Florida 33319-3448
954-474-3666
Certificate of Authorization No. 5601
Nicholas R. Gill, R.L.A. No. 1572

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO.
104-A



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
3125 W. Commercial Blvd. - Suite 130
Fort Lauderdale, Florida 33309-5946
954-474-5200
Certificate of Authorization No. 5220
Ronald R. Dill, R.L.A. No. 1972

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

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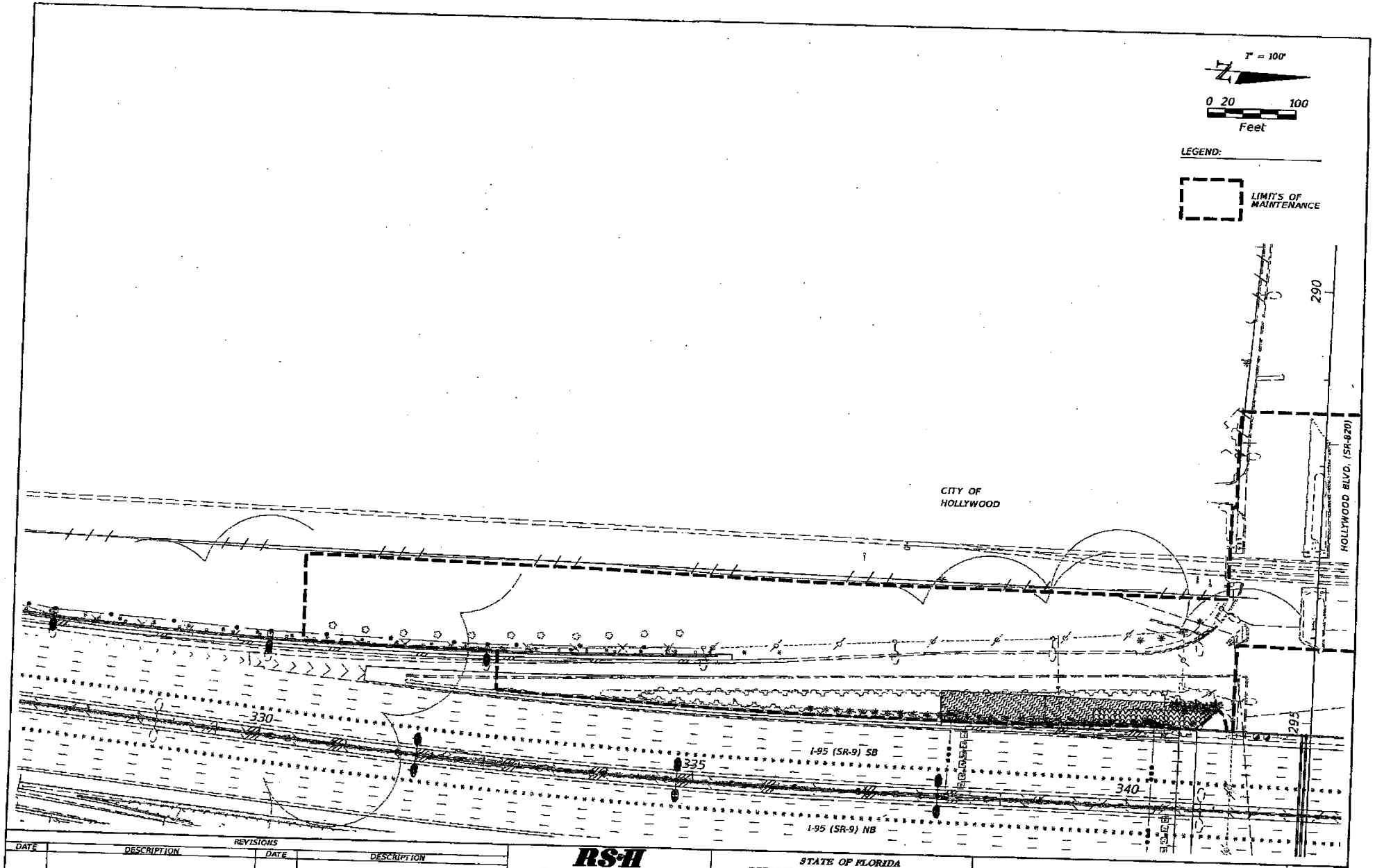
104-B



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS+H
Reynolds, Smith and Hills, Inc.
9125 W. Commercial Blvd. - Suite 138
Fort Lauderdale, Florida 33351-3448
954-574-3005
Certificate of Authorization No. 5120
Ronald E. Bill R.L.A. No. 1572

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO. 105-A

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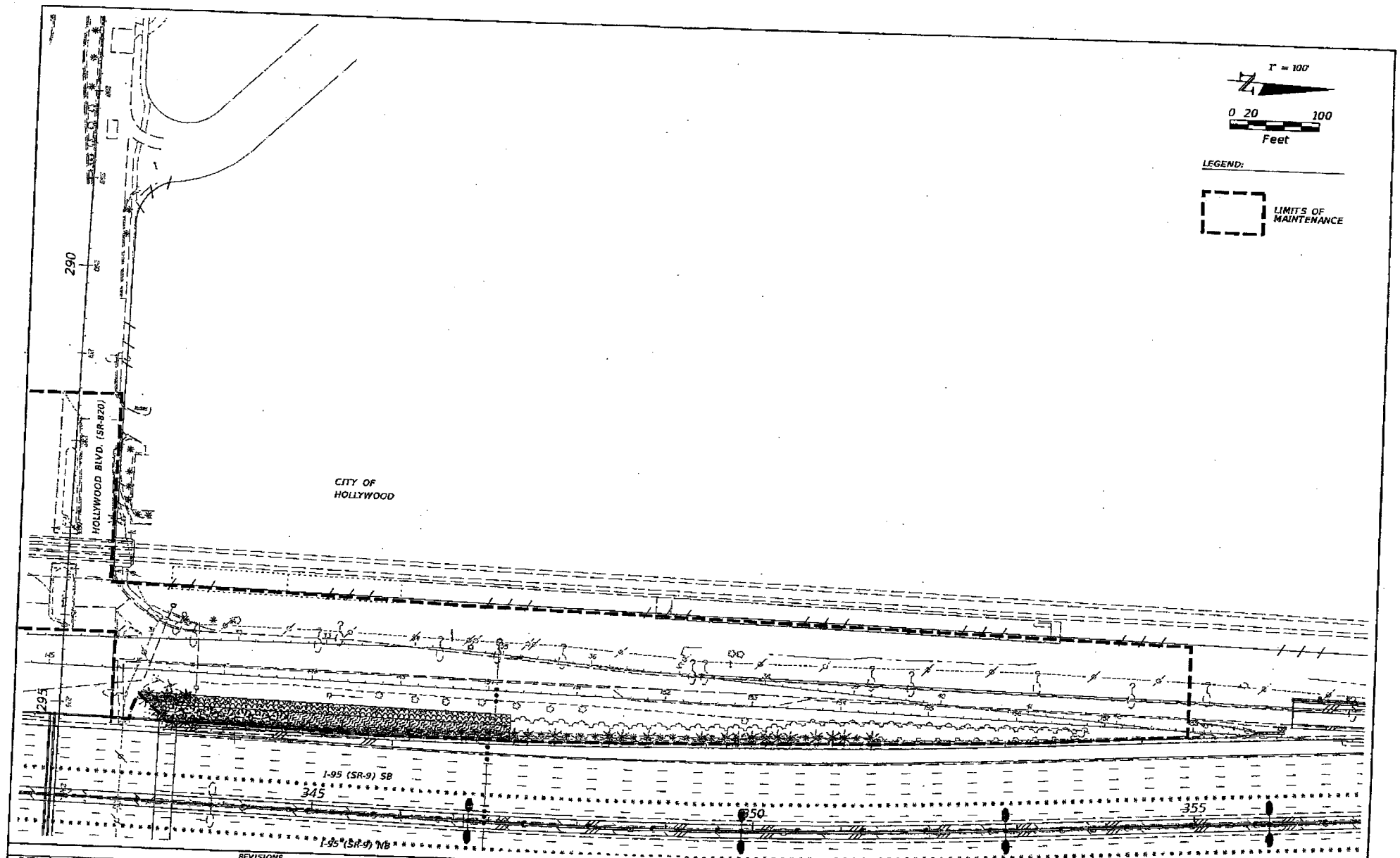

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
3125 W. Commercial Blvd., Suite 130
Fort Lauderdale, Florida 33309-3445
954-474-3005
Certificate of Authorization No. 6928
Ronald R. Bill, R.L.A. No. 1572

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO.
105-B

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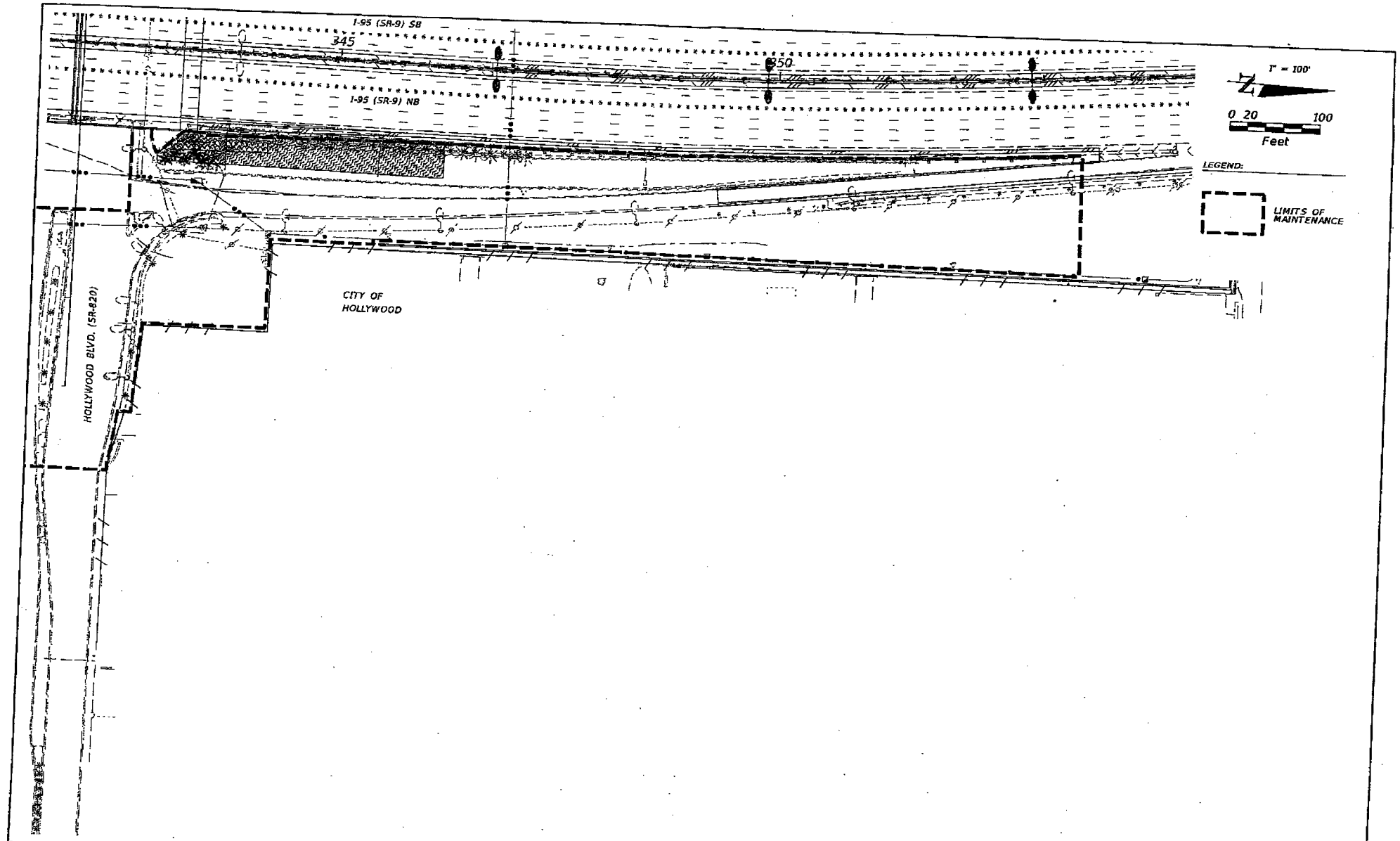

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS+H
Reynolds, Smith and Hills, Inc.
2125 W. Commercial Blvd. - Suite 120
Fort Lauderdale, Florida 33309-2446
954-474-3095
Certificate of Authorization No. 3520
Prepared R. Bil, R.L.A. No. 1572

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422795-1-52-01 422795-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO. 105-D

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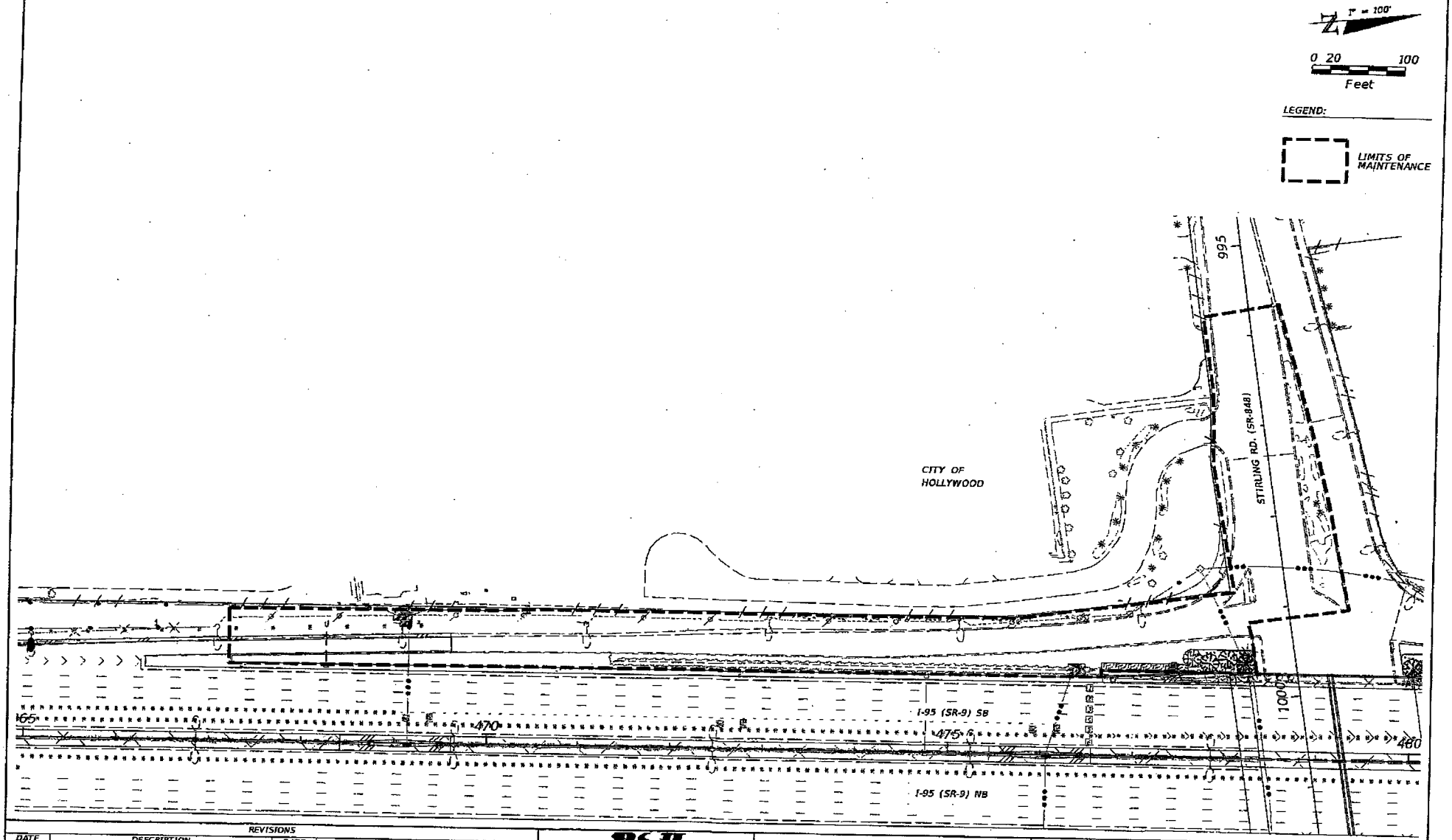

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS-H
Reynolds, Smith and Hills, Inc.
3125 W. Commercial Blvd. - Suite 150
Fort Lauderdale, Florida 33309-3449
954-484-3855
Certificate of Authorization No. 5920
Revised R. 38, R.L.A. No. 1572

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO.
106-A

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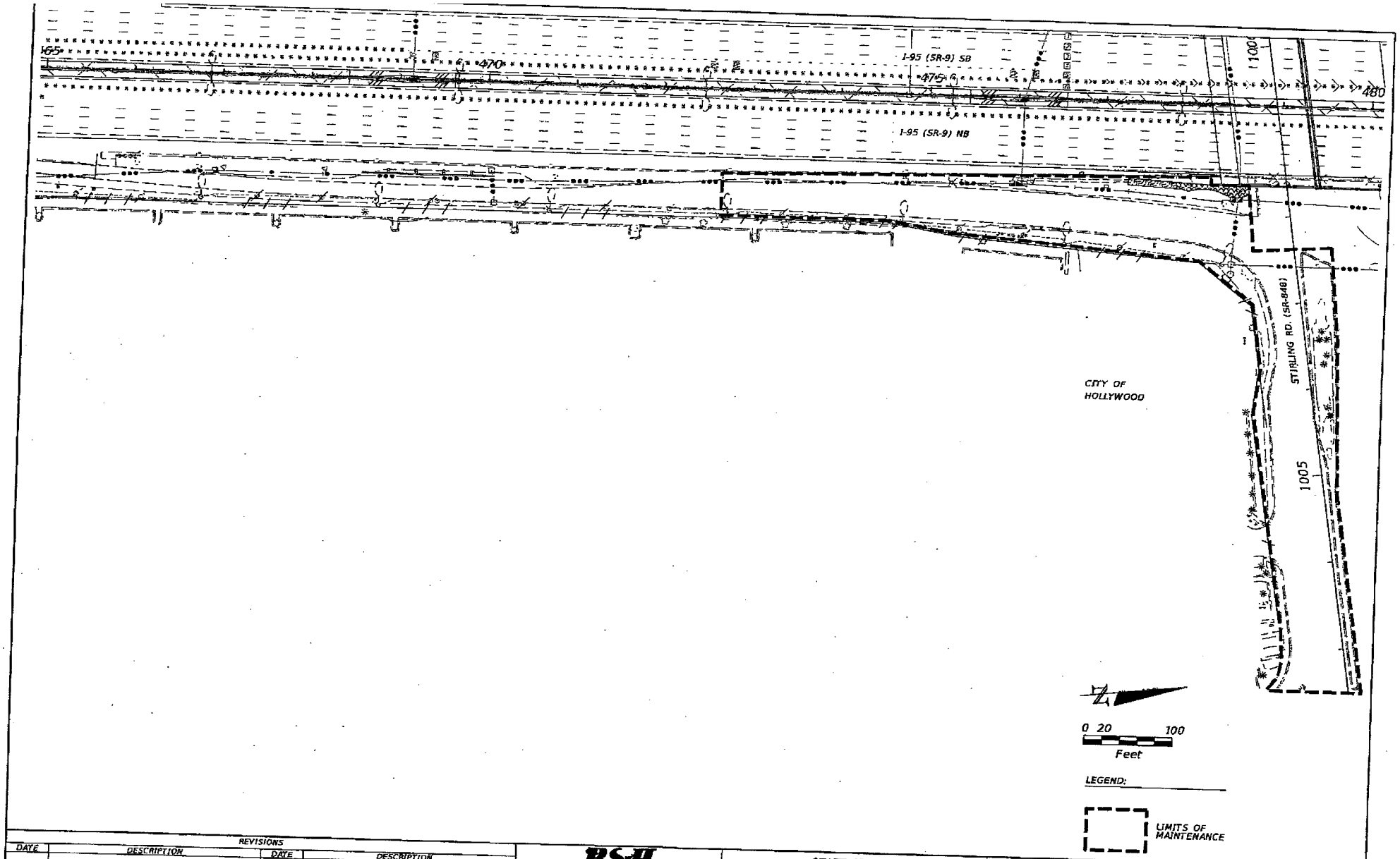

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS-H
Reynolds, Smith and Hills, Inc.
3125 W. Commercial Blvd. • Suite 130
Fort Lauderdale, Florida 33309-3448
954-474-5881
Certificate of Authorization No. 5620
Florida R. Sil, R.L.A. No. 6972

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 9	BROWARD MIAMI-DADE	422796-1-52-01 422796-2-52-01

MAINTANENCE AGREEMENT EXHIBIT

SHEET NO.
106-B

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RECEIVED
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DIST. IV - PERMITS

LIFESCAPES
INTERNATIONAL, INC.

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LANDSCAPE ARCHITECTURAL DRAWINGS FOR:

MARGARITAVILLE BEACH RESORT
HOLLYWOOD, FLORIDA

MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC
3501 N OCEAN DRIVE
HOLLYWOOD, FL 33019
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CONSULTANTS

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Lifescapes International, Inc.

PROJECT DESIGN TEAM:
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CREATIVE DESIGNER:
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M.E.P. ENGINEER
TMC ENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 7/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE: LANDSCAPE COVER SHEET

KEY MAP:

DATE: MM/DD/YYYY
SCALE: AS NOTED
DRAWN BY: MM
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JOB NO.: 10048

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GENERAL CONSTRUCTION NOTES

1. ALL PROPERTY LINES AND LOT LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL EXISTING UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGES AND REPLACEMENT OF SAID UTILITIES.

3. CONTRACTOR SHALL NOT WILL FULLY PROCEED WITH CONSTRUCTION AND / OR GRADE DIFFERENCE WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNERS AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

4. THE LOCATION OF FEATURES TO BE CONSTRUCTED NOT SPECIFICALLY DIMENSIONED MAY BE DETERMINED BY SCALE. VERIFY SUCH CONDITIONS WITH OWNERS AUTHORIZED REPRESENTATIVE.

5. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE DRAWINGS

6. ALL DIMENSIONS SHALL BE VERIFIED AGAINST EXISTING CONDITIONS AND ALL DISCREPANCIES REPORTED TO THE OWNER

7. ALL CONSTRUCTION AND INSTALLATION OF LANDSCAPE ITEMS SHALL BE PER LOCAL CODES AND ORDINANCES.

8. ALL PAVED SURFACES SHALL HAVE A MINIMUM OF 4" THICKNESS.

9. ALL WOOD, UNLESS OTHERWISE NOTED, SHALL BE PRESSURE TREATED DOUGLAS FIR, COMMON EXPOSED GRADE OR BETTER.

10. EXPLANATION OF DRAWINGS: DUE TO THE SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THIS WORK AND PLAN THIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, WATER FEATURE MECHANICAL SYSTEMS, PLANTING AND ARCHITECTURAL FEATURES.

11. ALL CONCRETE PAVING SHALL BE 5-1/2" SACK, 2,500 P.S.I. AT 28 DAYS. SIDEWALKS SHALL BE 4" THICK AND VEHICULAR CONCRETE SHALL BE 6" THICK WITH REINFORCING AND SUB-BASE PER THE STRUCTURAL SOILS REPORT.

12. INSTALL EXPANSION JOINTS 3/8" WIDE POLYSTYRENE FOAM WITH POLYSULFIDE CAULKING - COLOR TO MATCH ADJACENT PAVING, OR AS NOTED ON PLAN. EXPANSION JOINTS TO BE LOCATED WHERE CALLED FOR ON PLAN, OR AT A MAXIMUM OF 30' - 0" ON CENTER. ALL SCORE JOINTS SHALL BE MINIMUM 3/4" DEEP. ALL CONCRETE COLORS AND ANY COLORED CONCRETE STAMPING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

13. EXPANSION JOINTS SHALL BE 15' O.C. MAXIMUM IN SURFACES LESS THAN 15' IN WIDTH. CONTROL JOINTS SHALL BE 5' O.C. MAXIMUM.

14. ALL CURVE TO CURVE TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH AND UNIFORM.

15. LANDSCAPE ARCHITECT SHALL BE NOTIFIED AFTER THE SITE HAS BEEN STAKED-OUT PRIOR TO CONTINUATION OF WORK.

16. EACH CONTRACTOR (TRADE) SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ALL NECESSARY BUILDING PERMITS AS MAY BE REQUIRED BY LOCAL AGENCIES. AS WELL, EACH CONTRACTOR SHALL PROVIDE ALL DRAWINGS, SCHEDULES, AND SPECIFICATIONS AS MAY BE REQUIRED FOR BUILDING PERMITS

GRADING & DRAINAGE NOTES

1. GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL EXISTING UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGED AND REPLACEMENT OF SAID UTILITIES.

2. GRADING CONTRACTOR SHALL NOT WILL FULLY PROCEED WITH CONSTRUCTION AND/OR GRADE DIFFERENCE WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

3. ALL CONSTRUCTION AND INSTALLATION OF LANDSCAPE ITEMS SHALL BE PER LOCAL CODES AND ORDINANCES.

4. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCY BETWEEN EXISTING GRADING AND THOSE SHOWN ON PLAN UNLESS SUCH DISCREPANCIES ARE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER IN WRITING.

5. THE DRAINAGE CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE CONSTRUCTION, BACKFILL AND TRENCH COMPACTION.

6. ALL PAVED AND FINISHED GRADE AREAS SHALL SLOPE TO DRAIN ON ALL CASES AWAY FROM BUILDINGS AND STRUCTURES.

7. ALL PLANTING AREAS SHALL DRAIN A MINIMUM OF 2%.

8. ALL PAVED SURFACES SHALL DRAIN A MINIMUM OF 1%.

9. ALL DRAINLINES SHALL DRAIN A MINIMUM OF 1%.

10. NO DRAINLINES SHALL BE INSTALLED PRIOR TO TREE INSTALLATION. DRAINLINE LAYOUT IS DIAGRAMMATIC, CONTRACTOR SHALL VERIFY AND COORDINATE ALL DRAINLINES WITH TREE LAYOUT AND AVOID ANY CONFLICTS.

11. EXPLANATION OF DRAWINGS: DUE TO THE SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE DRAINAGE CONTRACTOR SHALL BE RESPONSIBLE TO CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THIS WORK AND PLAN HIS WORK ACCORDINGLY FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, LAKE MECHANICAL SYSTEMS, PLANTING AND ARCHITECTURAL FEATURES.

ABBREVIATIONS

AC.	ASPHALTIC CONCRETE	ELEV.	ELEVATION	O.C.	ON CENTER
A/C	AIR CONDITIONING	ESP.	ESPALIER	O.D.	OUTSIDE DIAMETER
ALGN.	ALIGN	EQ.	EQUAL	P.A.	PLANTING AREA
ARCH.	ARCHITECTURAL)	EXIST.	EXISTING	P.E.	PAD ELEVATION
AT.	ARTIFICIAL TURF	EXT.	EXTERIOR	P.L.	PROPERTY LINE
AUTO.	AUTOMATIC	F.F.	FINISH FLOOR	P.O.B.	POINT OF BEGINNING
BLDG.	BUILDING	F.G.	FINISH GRADE	P.O.C.	POINT OF CURVATURE
BLK.	BLOCK	FIN.	FINISH (ED)	P.O.T.	POINT OF TANGENCY
B.O.C.	BACK OF CURB	F.J.	FOUNTAIN JET	PR.	PAIR
B.S.	BOTTOM OF STEP	F.L.	FLOW LINE	PREFAB.	PREFABRICATED
B.R.	BOTTOM OF RAMP	F.O.B.	FACE OF BUILDING	R/RAD.	RADIUS
B.W.	BOTTOM OF WALL	F.O.C.	FACE OF CURB	REF.	REFERENCE
C.B.	CATCH BASIN	F.O.W.	FACE OF WALL	REV.	REVISION
C.I.	CAST IRON	F.S.	FINISH SURFACE	RWD.	REDWOOD
C.J.	COLD JOINT	FT.	FOOT OR FEET	SHT.	SHEET
℄	CENTERLINE	FTG.	FOOTING	SIM.	SIMILAR
CLR.	CLEAR	GA.	GAUGE	SPEC.	SPECIFICATION
COL.	COLUMN	GAL.	GALLON	S.L.	SCORE LINE
CONC.	CONCRETE	GALV.	GALVANIZED	SQ.	SQUARE
CONT.	CONTINUOUS	G.C.	GROUNDCOVER	STD.	STANDARD
¢	PENNY (NAIL SIZE)	G.F.F.	GARAGE FINISH FLOOR	T.	TURF
DBL.	DOUBLE	GR.	GRADE	T.C.	TOP OF CURB
D.D.	DECK DRAIN	HORIZ.	HORIZONTAL	T.COP.	TOP OF COPING
DET.	DETAIL	H.P.	HIGH POINT	T.F.	TOP OF FENCE
DIA.	DIAMETER	HT.	HEIGHT	T.O.F.	TOP OF FOOTING
DIAG.	DIAGONAL	I.D.	INSIDE DIAMETER	T.G.	TOP OF GRATE
→	DIRECTION OF FLOW (LANDSCAPE)	INV.	INVERT	THK.	THICKNESS
⟶	DIRECTION OF FLOW (SOFTSCAPE)	INT.	INTERIOR	T.P.	TOP OF PARTER
		L.A.	LANDSCAPE ARCHITECT	T.S.	TOP OF STEP
		M	MULTI-TRUNKED	T.R.	TOP OF RAMP
DIM.	DIMENSION	MAX.	MAXIMUM	T.W.	TOP OF WALL
D.F.	DOUGLAS FIR	MIN.	MINIMUM	TYP.	TYPICAL
D.L.	DRAIN LINE	MED.	MEDIUM	W/	WITH
DN	DOWN	MFR.	MANUFACTURER	W/O	WITHOUT
D.S.	DOWN SPOUT	MISC.	MISCELLANEOUS	WD.	WOOD
DWG.	DRAWING	NAT.	NATURAL	WI.	WROUGHT IRON
EA.	EACH	NO.	NUMBER	W.W.M.	WELDED WIRE MESH
E.J.	EXPANSION JOINT	N.I.C.	NOT IN CONTRACT	W.S.	WATER SURFACE
		N.T.S.	NOT TO SCALE		

SYMBOL	GROUNDCOVER LEGEND	SUPPLIER
SAND	DESCRIPTION: BEACH SAND TYPE/COLOR: NOTES: REFER TO DETAIL '8', SHEET L7.24	COMPANY ADDRESS PH: WEBSITE:
P.A. (PLANTING AREA)	DESCRIPTION: TOP DRESSING - ALL PLANTING AREAS SHALL BE COVERED WITH A MIN. 2" THICK LAYER OF MULCH TOP DRESSING TYPE/COLOR: 'PACIFIC MULCH' 1"-3" OR EQUIVALENT NOTES:	VALLEY BUILDING MATERIALS 23371 CHERRY AVE. LAKE FOREST, CA 92630 PH: (949) 855-8884 WEBSITE: WWW.VALLEYBUILDINGMATERIALS.COM
AT. (ARTIFICIAL TURF)	DESCRIPTION: ARTIFICIAL TURF TYPE/COLOR: REALLY REAL 'BLUE RYE' NOTES: REFER TO DETAIL '4', SHEET L7.24	TURF-N-USA 5348 VEGAS DR #457 LAS VEGAS, NV 89108 PH: 888.844.4888 WEBSITE: WWW.TURFNUSA.COM

ADDITIONAL COMMENTS & SPECIFICATIONS:
1. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY OWNER & LANDSCAPE ARCHITECT

PLANTING NOTES

GENERAL PLANTING NOTES:
1. ALL PLANTING SHALL CONFORM WITH LOCAL CODES AND REGULATIONS.

2. QUANTITIES SHOWN IN THE LEGEND ARE FOR CONVENIENCE ONLY. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND INSTALL PLANT QUANTITIES AS DRAWN ON PLAN.

3. FINAL LOCATION OF ALL TREES SHALL BE VERIFIED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO EXCAVATION OF PLANTING PITS.

4. TREES SHALL NOT BE PLANTED CLOSER THAN 5'-0" TO A SIDEWALK OR WALL.

5. PRIOR TO PLANTING TREES, THE LANDSCAPE CONTRACTOR SHALL PERFORM A SOIL PERCOLATION TEST TO DETERMINE IF THERE ARE ANY DRAINAGE PROBLEMS. THE LANDSCAPE CONTRACTOR IS REQUIRED TO DIG ONE HOLE PER 1,000 S.F. OF PLANTING AREA AT VARIOUS LOCATIONS AROUND THE SITE. THE HOLES SHALL BE EQUAL IN SIZE TO THE LARGEST TREE PLANTING PIT REQUIRED FOR EACH PARTICULAR PLANTING AREA. ADDITIONAL LOCATIONS WILL BE REQUIRED IF VARIOUS SOIL TYPES ARE FOUND AROUND THE SITE AND/OR IF THE OWNER'S REPRESENTATIVE FINDS IT NECESSARY. THE LANDSCAPE CONTRACTOR SHALL VERIFY PERCOLATION TEST PIT LOCATIONS, FILL EACH HOLE WITH WATER AND MONITOR HOW MUCH WATER IS REMAINING IN THE HOLE AFTER 24 HOURS. MAKE A WRITTEN REPORT TO THE OWNER. IF IT IS DETERMINED THAT SOIL DRAINAGE IS A PROBLEM A RESOLUTION WILL BE WORKED OUT BY THE OWNER AND IF NECESSARY A CHANGE ORDER WILL BE INITIATED.

6. THE LANDSCAPE CONTRACTOR SHALL INSTALL ARBOR-GUARD TREE ROOTS ON ALL TREES PLANTED IN TURF AREAS. TREE ROOTS ARE AVAILABLE THROUGH DEEP ROOT CORPORATION (800) 458-7866. (USE DEEP ROOT NO. A86-6, OR EQUAL).

7. ANY TREE 15 GALLON SIZE OR LARGER, PLANTED WITHIN 5'-0" OF THE EDGE OF PAVING OR ANY CONCRETE EDGE SHALL HAVE A DEEP ROOT BARRIER INSTALLED ALONG THE EDGE OF THE HARDSCAPE. INSTALL ROOT BARRIERS MANUFACTURED BY CENTURY PRODUCTS (800) 458-0084, OR AN APPROVED EQUIVALENT. INSTALLATION OF THE ROOT BARRIER SHALL BE ALONG THE ENTIRE TREE PLANTING PIT AGAINST THE PAVING EDGE AND PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

8. SOIL AMENDMENTS SHALL BE APPLIED PER SOIL REPORT SPECIFICATIONS.

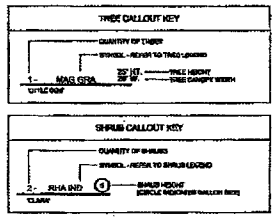
PLANTING SHRUBS, VINES, & GROUNDCOVER:
1. SHRUBS AND VINES: PLANTING PITS FOR SHRUBS AND VINES SHALL BE 6" GREATER IN DIAMETER AND 6" DEEPER THAN PLANT ROOTBALL. COMPACTED SOIL AT BOTTOM OF PIT SHALL BE LOOSENED AND THE PIT FILLED WITH "PREPARED SOIL" TO THE BOTTOM OF THE BALL. WHEN THE PLANT HAS BEEN PROPERLY SET, THE PIT SHALL BE FILLED TO THE REQUIRED GRADE WITH "PREPARED SOIL" AND THOROUGHLY SETTLED BY TAMPING AND WATERING. ALL VINES SHALL BE REMOVED FROM STAKES, UNTIED, AND SECURELY FASTENED IN ALL APPROVED MANNER TO THE WALL, FENCE OR OTHER SURFACE NEXT TO WHICH THEY ARE PLANTED.

2. GROUNDCOVER: PLANTING PITS FOR ROOTED CUTTINGS FROM FLATS SHALL BE 3" X 6" X 6". GROUND COVER AREAS SHALL BE MOISTENED PRIOR TO PLANTING. NO GROUND COVER PLANTS SHALL BE PLANTED IN DRY SOIL.

SET PLANTS IN CENTER OF PITS SO THAT AFTER SETTLING OF SOIL CROWN OF PLANT WILL BE LEVEL WITH FINISHED GRADE THEN BACKFILL AND WATER.

GROUND COVER PLANTS SHALL BE WELL ROOTED WITH RUNNERS MINIMUM 4" LONG.

POTTERY PLANTING NOTE:
1. ALL POTTERY TO RECEIVE PLANTING, IRRIGATION & DRAINAGE.
2. ANNUAL COLOR TO BE SELECTED BY THE LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
3. LANDSCAPE CONTRACTOR SHALL ALLOW $ 25,000 IN THEIR BID FOR THE PURCHASE AND INSTALLATION OF ADDITIONAL ANNUAL COLOR, POTTERY & ADDITIONAL PLANT MATERIAL.



TREE PRESERVATION NOTES

1. ALL PLANTING REMOVAL & DEMOLITION SHALL WE REVIEWED ON-SITE WITH THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK

2. ALL TREES TO REMAIN SHALL BE PROTECTED IN PLACE & MARKED WITH FLEXIBLE ORANGE FENCE, PRIOR TO ANY DEMOLITION OPERATIONS.

3. PRIOR TO ANY EXCAVATION, ALL TREES TO BE BOXED-UP SHALL BE TAGGED W/ RIBBON BY THE DEMOLITION CONTRACTOR & REVIEWED BY LANDSCAPE ARCHITECT. TREES BOXED-UP SHALL BE MOVED TO THE ON-SITE NURSERY.

4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ON-SITE NURSERY. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO MONITOR TREE HEALTH & MAINTAIN SUFFICIENT WATERING AND FERTILIZATION DURING STORAGE, AND CONSTRUCTION.

5. REPLACE AND/OR REFURBISH IRRIGATION EQUIPMENT WHERE NECESSARY - REFER TO IRRIGATION PLANS FOR MORE INFORMATION.

WOOD NOTES

1. APPLICATION - IPE SHOULD BE SUPPLIED PARTIALLY AIR DAIED FOR OUTDOOR USE.

2. HANDLING & STORAGE - WOOD SHALL BE STORED IN A COOL DRY PLACE OUT OF DIRECT SUNLIGHT, DUST, AND RAIN. IT SHALL BE ALLOWED TO ACCLIMATE TO THE INSTALLATION ENVIRONMENT PRIOR TO INSTALLATION. IF STORED OVER OPEN GROUND, LEAVE SUFFICIENT CIRCULATION SPACE UNDER THE BUNDLE TO COUNTER THE EFFECTS OF CONDENSATION.

3. CONDITIONING - PRIOR TO USE AIR DRY TO LOCAL MOISTURE LEVELS. THIS WILL RESULT IN A MORE ATTRACTIVE AND STABLE PROJECT.

3. CUTTING AND DRILLING - DUE TO THE DENSITY OF IPE PREMIUM CARBIDE TIPPED SAW BLADES ARE NECESSARY TO MAKE SMOOTH CUTS. HIGH QUALITY DRILL BITS ARE NECESSARY TO MAKE SMOOTH HOLES (BRAD POINT OR FORSTNER DRILL BITS ARE RECOMMENDED).

4. END SEALING - SEAL ALL ENDS WITH 24 HOURS AFTER CUTTING WITH LATEX BASED END SEALER TO REDUCE END CHECKING FASTENING

5. FINISHING - FINISH UPON INSTALLATION OF IPE DECKING TO MINIMIZE U. V. FADING WITH A PENETRATING, PIGMENTED, U. V. INHIBITING SEALER, SUCH AS MESSMERS UV PLUS FINISH DECK SEALER TO MAINTAIN IPE'S RICH NATURAL COLOR. TEST PRODUCT ON SAMPLE BOARDS TO DETERMINE COMPATIBILITY. APPLY FINISH APPROXIMATELY EVERY TWO YEARS DEPENDING ON LOCAL CLIMATE.

5. FASTENING - THERE ARE THREE TYPICAL METHODS OF FASTENING IPE DECKING TO STRUCTURAL MEMBERS:

A. IPE CLIP FASTNER SYSTEM USES HIGH STRENGTH PLASTIC FASTENING BISCUITS THAT INSERT INTO SLOTS CUT
INTO EDGE OF THE DECK BOARD WHICH THEN RESTS ON TOP OF A JOIST. A STAINLESS STEEL SCREW (SUPPLIED
WITH EACH CLIP) IS THEN SCREWED DOWN INTO THE JOIST.

B. FACE SCREWING (JO METHOD): COUNTERSINK [illegible] HOLES INTO FACE OF DECK BOARDS. PREDRILL [illegible] PILOT HOLES
COMPLETELY THROUGH DECK BOARDS. SCREW THE DECK BOARDS DOWN WITH STAINLESS SCREWS. [illegible] IPE PLUGS ARE
THEN GLUED INTO THE HOLES WITH WATERPROOF GLUE (GORILLA BRAND GLUE, EPOXY, ETC.). PLUGS ARE THEN
KNOCKED OFF WITH A CHISEL AND SANDED SMOOTH

C. FINISH SCREW METHOD: STAINLESS STEEL #8 TRIM HEAD SCREWS ARE SCREWED INTO THE FACE OF DECKING.
RECOMMENDED TWO PER JOIST. YORK DRIVE SCREWS RESIST STRIPING MUCH MORE THAN STD. SQUARE DRIVE.

7. 1" X 4" IPE BOARDS SHOULD BE USED AS DECK BOARDS (TYPE AS SPECIFIED IN DETAILS)

8. ALL SUB-SUPPORT, INCLUDING NAILERS, JOISTS, AND RISERS SHOULD BE IPE BOARDS (SIZE AS SPECIFIED IN DETAILS).

9. NAILERS SHOULD BE SPACED A MAXIMUM OF 18" ON-CENTER WHEN USING 1" X 4" OR 2" X 6" IPE BOARDS.

10. LEAVE AT LEAST AN [illegible] GAP AT THE ENDS OF PLANKS WHEN BUTTING END TO END AND AT INTERSECTIONS WITH WALLS, POSTS, OR OTHER FIXED ELEMENTS.

11. DECK BOARDS SHOULD BE GAPPED A MINIMUM OF [illegible] BETWEEN EACH BOARD FOR WATER DRAINAGE, WOOD EXPANSION/CONTRACTION & PROPER AIR CIRCULATION

12. DUE TO SLIGHT VARIATIONS IN COLOR, THE DECK BOARDS SHALL BE LAYED OUT PRIOR TO INSTALLATION TO ENSURE A CONSISTENT APPEARANCE.

13. PREDRILL IF FASTENING A BOARD WITHIN [illegible]" OF ANY EDGE.

14. CONTRACTOR SHALL SUBMIT THREE (3) SAMPLES OF IPE WOOD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL PREPARE A 10'X10' MOCK-UP OF THE WOOD DECK FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. SAMPLES AND MOCK-UPS SHALL INCLUDE SEALING WOOD AS NOTED ABOVE.

15. REFER TO FINISH SCHEDULE [illegible], SHEET L8.03 FOR IPE WOOD SPECIFICATION.

FOUNTAIN NOTES

1. FOUNTAIN CONTRACTOR SHALL SUBMIT SAMPLES OF THE DECORATIVE FOUNTAIN ELEMENTS: LEJ TILES, PRECAST CONCRETE PIECES, HAND CARVED STONE PIECES, ETC., ETC. SAMPLES INCLUDING ANY NECESSARY SHOP DRAWINGS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.

2. FOUNTAIN CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL DESIGN OF FOUNTAINS AND EQUIPMENT. ALL WORK SHALL COMPLY WITH LOCAL CODES AND REGULATIONS. FOUNTAIN CONTRACTOR SHALL OBTAIN AND PAY FOR ALL APPROVALS AND PERMITS REQUIRED FOR FOUNTAINS.

3. FOUNTAIN EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO:
A. RECIRCULATING PUMP AND SEPARATE PUMP FOR JETS/ SUBMERSIBLE PUMP
B. MODULAR FILTER
C. OVERFLOW DRAIN
D. AUTOMATIC TIMER FOR PUMPS AND LIGHTS
E. ALL PIPING, VALVING, NOZZLES
F. AUTOMATIC FILL DEVICE/ LEVEL CONTROL
G. LIGHTING AS INDICATED ON PLAN

4. EQUIPMENT SHALL BE OF ADEQUATE SIZE TO HANDLE VOLUME, G.P.M. AND FLOW OF WATER. ADEQUATE VALVES SHALL BE PROVIDED TO CONTROL WATER FLOW.

5. VERIFY EQUIPMENT LOCATIONS WITH OWNERS REPRESENTATIVE. EQUIPMENT SHALL BE LOCATED AS INDICATED ON PLAN.

6. ALL FOUNTAIN POOLS SHALL BE LEVEL.

ORNAMENTAL STEEL NOTES

1. ORNAMENTAL STEEL FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO PREPARATION OF SHOP DRAWINGS OR FABRICATION OF COMPONENTS

2. ORNAMENTAL STEEL FABRICATOR SHALL PREPARE SHOP DRAWINGS FOR ALL ORNAMENTAL STEEL WORK. DRAWINGS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.

3. ALL WELDS SHALL BE BUTT WELDED AND GROUND SMOOTH.

4. ALL ORNAMENTAL STEEL WORK SHALL BE PAINTED WITH ONE (1) COAT OF CORROSION RESISTANT PRIMER AND TWO (2) COATS OF PAINT. FOR COLOR REFER TO FINISH SCHEDULE, SHEET L8.03. SUBMIT COLOR SAMPLE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

5. ORNAMENTAL STEEL FABRICATOR SHALL SUBMIT A MOCK-UP OF EACH ELEMENT FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. THE MOCK-UP SHALL BE PAINTED AS SPECIFIED ABOVE.

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[illegible]
STRUCTURAL ENGINEER
THE WORLD WIDE ENGINEERING
[illegible]
CIVIL ENGINEER
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FINISH SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	TYPE/MODEL NO.	MATERIAL	COLOR	FINISH	PATTERN/LAYOUT	GROUT	SUPPLIER
C-PIP 01	POURED-IN-PLACE INTEGRALLY COLORED "AMBER" CONCRETE	N/A	CITY STANDARD [illegible] PATH AT BROADWALK	INTEGRALLY COLORED TAMPY CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C50 "SOMBRERO BUFF"	TO MATCH [illegible]	3'X3' SAWCUT JOINTS PER PLANS/DETAIL	N/A	N/A
C-PIP 02	POURED-IN-PLACE STAMPED & INTEGRALLY COLORED CONCRETE	THE BOMANITE COMPANY	N/A	STAMPED & INTEGRALLY COLORED CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C70 "MEDIUM INTEGRAL COLOR" W/ LIMESTONE #5-38 "CHAMOIS" RELEASE	BOMANITE BOMACRON "SLATE (INDIAN) #3 TEXTURE"	3'X3' SAWCUT JOINTS PER PLANS/DETAIL	N/A	THE BOMANITE COMPANY PH:305.399.1116 WWW.BOMANITE.COM
C-PIP 03	POURED-IN-PLACE STAMPED & INTEGRALLY COLORED CONCRETE	THE BOMANITE COMPANY	N/A	STAMPED & INTEGRALLY COLORED CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C70 "MEDIUM INTEGRAL COLOR" W/ LIMESTONE #5-38 "CHAMOIS" RELEASE	BOMANITE BOMACRON "SMALL SHINGLES PATTERN"	3'X3' SAWCUT JOINTS PER PLANS	N/A	THE BOMANITE COMPANY PH:305.399.1116 WWW.BOMANITE.COM
C-PIP 04	POURED-IN-PLACE STAMPED & INTEGRALLY COLORED CONCRETE	THE BOMANITE COMPANY	N/A	STAMPED & INTEGRALLY COLORED CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C50 LIMESTONE "INTEGRAL COLOR"	BOMANITE BOMACRON "SLATE (REGULAR) TEXTURE"	3'X3' SAWCUT JOINTS PER PLANS	N/A	THE BOMANITE COMPANY PH:305.399.1116 WWW.BOMANITE.COM
C-PIP 05	POURED-IN-PLACE STAMPED & INTEGRALLY COLORED CONCRETE	THE BOMANITE COMPANY	N/A	STAMPED & INTEGRALLY COLORED CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C50 "SOMBRERO BUFF" W/ COQUINA SHELL	BOMANITE BOMACRON "SLATE (REGULAR) TEXTURE"	3'X3' SAWCUT JOINTS PER PLANS	N/A	THE BOMANITE COMPANY PH:305.399.1116 WWW.BOMANITE.COM
C-PIP 06	POURED-IN-PLACE INTEGRALLY COLORED CONCRETE	N/A	T.B.D.	INTEGRALLY COLORED CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE T.B.D.	T.B.D.	PER PLANS/DETAIL	N/A	COMPANY TO BE PROVIDED
C-PRC 01	PRE-CAST CONCRETE PAVER	EARTH SURFACES	12" X 12" X 3-1/8" CITY STANDARD TYPE "A"	PRE-CAST CONCRETE	"SOMBRERO BUFF" W/ COQUINA SHELL & "SOMBRERO BUFF" W/ MARBLE & PEBBLE "ABRASION"		PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH: 858.381.8210 F: 858.381.8211 WWW.EARTHSURFACES.NET
C-PRC 02	PRE-CAST CONCRETE PAVER	EARTH SURFACES	6" X 6" X 3-1/8" CITY STANDARD TYPE "D"	PRE-CAST CONCRETE	SOMBRERO BUFF W/ COQUINA SHELL		PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH:858.381.8210
C-PRC 03	PRE-CAST CONCRETE PAVER	OLDCASTLE - BELGARD BY HOLLAND STONE	4" X 8" X 3-1/8" CITY STANDARD TYPE "G"	PRE-CAST CONCRETE	"CHESTNUT"		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH: 512.250.0200 WWW.HOLLANDSTONE.COM
C-PRC 04	PRE-CAST CONCRETE PAVER	ARTRETIC PAVERS	12" X 12" X 3-1/8" CITY STANDARD TYPE "E"	PRE-CAST CONCRETE	HOLLYWOOD BROWN W/ SOMBRERO BUFF & COQUINA SHELL		PER PLANS/DETAIL	N/A	ARTRETIC PAVERS ADDRESS PH:[illegible] F:[illegible] WWW.ARTRETICPAVERS.COM
C-PRC 05	PRE-CAST CONCRETE PAVER	OLDCASTLE - BELGARD BY HOLLAND STONE	4" X 8" X 3-1/8" CITY STANDARD TYPE "F"	PRE-CAST CONCRETE	"CHESTNUT"		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH:512.250.0200 WWW.HOLLANDSTONE.COM
C-PRC 06	PRE-CAST CONCRETE PAVER	EARTH SURFACES	4" X 8" X 3-1/8" & 6" X 6" X 3-1/8" CITY STANDARD TYPE "F"	PRE-CAST CONCRETE	"ROSE" "SOMBRERO BUFF" W/ COQUINA SHELL		PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH: 858.381.8210 F: 858.381.8211 WWW.EARTHSURFACES.NET
C-PRC 07	PRE-CAST CONCRETE PAVER	LM GROUP USA	LM GROUP OF INTERLOCKING 3 SHAPE PAVER 3-1/8" THK CITY STANDARD TYPE "J"	PRE-CAST CONCRETE	"ROSE"		PER PLANS/DETAIL	N/A	LM GROUP USA ADDRESS PH: 561.488.1266 F: 561.697.8423 WWW.LM-GROUP-USA.ORG
C-PRC 08	PRE-CAST CONCRETE PAVER	LM GROUP USA	LM GROUP OF INTERLOCKING 3 SHAPE PAVER 3-1/8" THK CITY STANDARD TYPE "J"	PRE-CAST CONCRETE	"OLD CHICAGO"		PER PLANS/DETAIL	N/A	LM GROUP USA ADDRESS PH: 561.488.1266 F: 561.697.8423 WWW.LM-GROUP-USA.ORG
C-PRC 09	PRE-CAST CONCRETE PAVER	OLDCASTLE - BELGARD BY HOLLAND STONE	4" X 8" X 3-1/8" CITY STANDARD TYPE "J"	PRE-CAST CONCRETE	HOLLYWOOD GOLD		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH: [illegible]
C-PRC 10	PRE-CAST CONCRETE PAVER	OLD CASTLE - BELGARD BY HOLLAND STONE	4" X 8" X 3-1/8", 6" X 6" X 3-1/8", 8" X 8" X 3-1/8" CITY STANDARD TYPE "F"	PRE-CAST CONCRETE	"OLD CHICAGO"		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH: 512.250.0200 WWW.HOLLANDSTONE.COM
C-PRC 11	PRE-CAST CONCRETE PAVER	OLD CASTLE - BELGARD BY HOLLANDSTONE	4" X 8" X 3-1/8" CITY STANDARD TYPE "E"	PRE-CAST CONCRETE	"OLD CHICAGO"		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH: 512.250.0200 WWW.HOLLANDSTONE.COM
C-PRC 12	PRE-CAST CONCRETE PAVER	OLD CASTLE - BELGARD BY HOLLANDSTONE	4" X 8" X 3-1/8" (OLD Rondo) CITY STANDARD TYPE "M"	PRE-CAST CONCRETE	"CHESTNUT"		PER PLANS/DETAIL	N/A	HOLLAND STONE P.O. BOX 68676, AUSTIN TX 78768 PH: 512.250.0200 WWW.HOLLANDSTONE.COM
C-PRC 13	CUSTOM PRE-CAST CONCRETE SITE ELEMENT	CUSCONCRETE	N/A	PRE-CAST CONCRETE	L.M. SCOFIELD CHROMA ADMIXTURE #C50 LIMESTONE INTEGRAL COLOR	"LIGHT ACID ETCHED FINISH"	PER PLANS/DETAIL	"CUSTOM BUILDING PRODUCTS" COLOR: #[illegible] "GREY" 1/4" WIDE GROUT JOINT	CUSCONCRETE 731 PARKRIDGE AVENUE HOPKINS, CA 95004 PH:[illegible] F:[illegible] WWW.CUSCONCRETE.COM
C-PRC 14	PRE-CAST CONCRETE PAVER	EARTH SURFACES	12" X 12" X 2" POOL DECK TILE	PRE-CAST CONCRETE	"LIGHT BUFF W/ COQUINA SHELL AND ABALONE"	"LIGHT ACID ETCHED FINISH"	PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH: 858.381.8210 F: 858.381.8211 WWW.EARTHSURFACES.NET
C-PRC 15	PRE-CAST CONCRETE PAVER	EARTH SURFACES	4" X 8" X 2" POOL DECK TILE	PRE-CAST CONCRETE	"NATURAL BRONZE W/ COQUINA SHELL AND ABALONE"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH: 858.381.8210 F: 858.381.8211 WWW.EARTHSURFACES.NET
C-PRC 16	PRE-CAST CONCRETE PAVER	EARTH SURFACES	24" X 24" X 2" POOL DECK TILE	PRE-CAST CONCRETE	"LIGHT BUFF W/ COQUINA SHELL AND ABALONE"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	EARTH SURFACES 3660 CONESTEE AVE PH: 858.381.8210 F: 858.381.8211 WWW.EARTHSURFACES.NET
C-PRC 17	PRE-CAST CONCRETE PAVER	PAVEWART	PANTONE 7548 U	PRE-CAST CONCRETE	"CHARCOAL"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	PAVEWART LLC 3812 EGG HARBOR ROAD, LINDENWOLD NJ 08021 PH: 856.783.7000 F: 856.783.7001 WWW.PAVEWARTLLC.COM
C-PRC 18	PRE-CAST CONCRETE PAVER	PAVEWART	PANTONE 727 U	PRE-CAST CONCRETE	"SAND"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	PAVEWART LLC 3812 EGG HARBOR ROAD, LINDENWOLD NJ 08021 PH: 856.783.7000 F: 856.783.7001 WWW.PAVEWARTLLC.COM
C-PRC 19	PRE-CAST CONCRETE PAVER	PAVEWART	PANTONE 7501 U - 726 U	PRE-CAST CONCRETE	"MARBLE RUBBY"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	PAVEWART LLC 3812 EGG HARBOR ROAD, LINDENWOLD NJ 08021 PH: 856.783.7000 F: 856.783.7001 WWW.PAVEWARTLLC.COM
C-PRC 20	PRE-CAST CONCRETE PAVER	PAVEWART	PANTONE 726 U	PRE-CAST CONCRETE	"TAN"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	PAVEWART LLC 3812 EGG HARBOR ROAD, LINDENWOLD NJ 08021 PH: 856.783.7000 F: 856.783.7001 WWW.PAVEWARTLLC.COM
C-PRC 21	PRE-CAST CONCRETE PAVER	PAVEWART	PANTONE 1205 U	PRE-CAST CONCRETE	"YELLOW-GOLD"	LIGHT ACID ETCHED FINISH	PER PLANS/DETAIL	N/A	PAVEWART LLC 3812 EGG HARBOR ROAD, LINDENWOLD NJ 08021 PH: 856.783.7000 F: 856.783.7001 WWW.PAVEWARTLLC.COM
G-TIL 01	GLASS MOSAIC TILE	DALTILE	"THE SONOMA COLLECTION" 7" X 7" MOSAIC TILES ON DOT-MOUNTED 12" X 12" SHEETS	GLASS MOSAIC TILE	40% "LIGHT BLUE OF SKIN" 20% "ICE WHITE OF SKIN", 20% "WHITE" SPAN 20% "VERY LIGHT BLUE" (17 STYLE)	IRIDESCENT	PER PLANS/DETAILS	"CUSTOM BUILDING PRODUCTS" COLOR: #[illegible] "OYSTER GRAY" 1/8" WIDE GROUT JOINT	DALTILE 1701 MCGAW STREET, IRVINE CA 92614 PH: 949.660.0440 WWW.DALTILE.COM
G-TIL 02	GLASS MOSAIC TILE	DALTILE	"THE AMERICAN COLLECTION" 1" X 1" MOSAIC TILES ON DOT-MOUNTED 12" X 12" SHEETS	GLASS MOSAIC TILE	40% "LIGHT BLUE OF SKIN", 15% PURPLE (3) Bldg 10% "ICE WHITE OF SKIN", 15% "BLACK OF SKIN" 20% "VERY LIGHT BLUE" (17 STYLE)	IRIDESCENT	PER PLANS/DETAILS	"CUSTOM BUILDING PRODUCTS" COLOR: #[illegible] "OYSTER GRAY" 1/8" WIDE GROUT JOINT	DALTILE 1701 MCGAW STREET, IRVINE CA 92614 PH: 949.660.0440 WWW.DALTILE.COM
G-TIL 03	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	84/85	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 04	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.21 #12.22	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 05	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.22 #12.24 #12.75	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 06	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.24 #12.25 #12.26 #12.78	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 07	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.44 #12.45 #12.46	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 08	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.44 #12.45	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
G-TIL 09	MOSAIC TILE	BISAZZA	"COLORS" 12M X 12M	GLASS MOSAIC TILE	BLEND #12.21 #12.22 #12.78	N/A	(FINAL DESIGN BY BISAZZA)	QUARTZ #101	BISAZZA 3240 NE 2ND AVE, MIAMI FL 33137 PH: 786.797.5716 EMAIL: LAURA.LARSON@BISAZZAUSA.COM
M-SS 01	METAL	DALTILE	N/A	STAINLESS STEEL	NATURAL	BRUSHED	PER PLANS/DETAILS	N/A	THE GRADE NON-CORROSIVE STAINLESS STEEL
PAI 01	PAINTED FINISH	SHERWIN WILLIAMS PAINTS	DESIGN	EXTERIOR PAINT	"BLACK RUBBER"	SEMI-GLOSS	PER PLANS/DETAILS	N/A	SHERWIN WILLIAMS PAINTS LOS ANGELES, CA 800-37 PAINT WWW.SHERWINWILLIAMS.COM
PLA 01	PLASTER FINISH	DIAMOND SPACE	SPA	PLASTER	"BLUE QUARTZ"	EXPOSED AGGREGATE FINISH	PER PLANS/DETAILS	N/A	SOUTHERN CREATIVE & SERVICES 1900 S.W. 3RD PLACE POMPANO BEACH, FL 33069 PH: 954.941.6567 WWW.SSSA.CC
POR 01	PORCELAIN TILE	DALTILE	DAL TILE ADVISTONES COLORBODY PORCELAIN TILE 1" X 1" FIELD TILE W/ 2" X 2" STRETCHER 9-612 AT MOSAIC DOT-MOUNTED ON 1" X 2" SHEETS	PORCELAIN TILE	"BALKAN" (97 D23)	UNGLAZED	PER PLANS/DETAILS	N/A	DALTILE 1701 MCGAW STREET, IRVINE CA 92614 PH: 949.660.0440 WWW.DALTILE.COM
S-COB 01	STONE COBBLE	THE FIVE ELEMENTS	"STANDARD PEBBLE COLLECTION" 3/4"-1" WIDE X 3/4"-1" THICK PEBBLE MOSAIC TILE ASSEMBLED ON 12" X 12" MESH BACKED	COBBLE	"AMBER"	POLISHED	PER PLANS/DETAIL	CUSTOM BUILDING PRODUCTS COLOR: #[illegible] "Fawn"	THE FIVE ELEMENTS 7888 MARATHON DR. SUITE 130, SAN DIEGO, CA 92126 PH: 877.882.5859 F: 858.695.2866 WWW.THEFIVEELEMENTS.NET
S-COB 02	STONE COBBLE	THE FIVE ELEMENTS	"PEBBLE COLLECTION" 1983 1/2"-1" WIDE X 1/2"-1" THICK PEBBLE MOSAIC TILE ASSEMBLED ON 12" X 12" MESH BACKED	COBBLE	"AMBER"	POLISHED	PER PLANS/DETAIL	CUSTOM BUILDING PRODUCTS COLOR: #[illegible] "Fawn"	THE FIVE ELEMENTS 7888 MARATHON DR. SUITE 130, SAN DIEGO, CA 92126 PH: 877.882.5859 F: 858.695.2866 WWW.THEFIVEELEMENTS.NET
S-COB 03	STONE COBBLE	COVERALL STONE	BEACH PEBBLE SIZE: 1-1/2" TO 2 1/2"	COBBLE	"BLACK"	POLISHED	PER PLANS/DETAIL	N/A	COVERALL STONE INC. 3400-5TH AVE S #300 SEATTLE, WA 98134 PH: 206.770.3334 F: 206.381.5280 WWW.COVERALLSTONE.COM
S-COB 04	STONE COBBLE	COVERALL STONE	MIDDLEFIELD BEACH PEBBLE SIZE: 1-1/2" TO 2 1/2"	COBBLE	"BLACK"	MATTE	PER PLANS/DETAIL	N/A	COVERALL STONE INC. 3400-5TH AVE S #300 SEATTLE, WA 98134 PH: 206.770.3334 F: 206.381.5280 WWW.COVERALLSTONE.COM
S-LIM 01	STONE	KEYSTONE	N/A	LIMESTONE	NATURAL	QUARRY CUT	PER PLANS/DETAIL	CUSTOM BUILDING PRODUCTS COLOR: #[illegible] SIM WIDE GROUT JOINT	KEYSTONE PRODUCTS 4444 N.W. 2ND AVENUE FLORIDA CITY, FL 33034 PH: 305.693.8478
S-LIM 02	STONE TILE	BOLI ARCHITECTURAL SURFACES	N/A	LIMESTONE	"BOLI 01"	BUSH-HAMMERED	PER PLANS/DETAIL 8-12; CUSTOM CUT 1/2" THICK	1/8" WIDE GROUT JOINT SHERWIN CRONT	BOLI ARCHITECTURAL SURFACES 4400 WILSHIRE AVENUE, LOS ANGELES, CA 90008 PH: 323.931.2400 F: 323.931.1900 WWW.BOLIUSA.COM
S-PEB 01	STONE - PEBBLE	PEBBLE TECHNOLOGY INTERNATIONAL	PEBBLE TEC	PEBBLE	"JET BLACK"	POLISHED	PER PLANS/DETAIL	N/A	PEBBLE TECHNOLOGY INTERNATIONAL 1900 NORTH 17TH STREET SCOTTSDALE, AZ 85257 PH: 800.951.2000 WWW.PEBBLETEC.COM
W-IPE 01	WOOD - IPE	SANREN ELK TRADING COMPANY	"TARBUNA (IPE BRAZIL)" SIZE: 1" WIDE X 4" WIDE VERTICAL SCREW SHREN	IPE WOOD	N/A	UNFINISHED	PER PLANS/DETAILS	N/A	SANREN ELK TRADING COMPANY ATLANTA, GA 867.[illegible] WWW.SANREN-ELK-TRADING.COM ATTN: BILL WADE

NOTES:

1. ALL STONE AND CONCRETE SHALL BE SEALED WITH A MATTE FINISH PENETRATING SEALER THAT DOES NOT ALTER COLOR OR FINISH. SEALER SHALL MEET A.N.S.I. AND A.D.A. COEFFICIENT OF FRICTION STANDARDS - MINIMUM .8
2. CONTRACTOR SHALL PROVIDE (1) ONE SAMPLE OF EACH OF THE FOLLOWING SPECIFIED ITEMS TO OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT, TO VERIFY GENERAL DESIGN CONFORMANCE, PRIOR TO MOCK-UP CONSTRUCTIONS: STONE (6" X 6" SAMPLE), TILE, INTEGRALLY COLORED CONCRETE (12"X12" SAMPLE), GROUT-STAINED AND UNSEALED (12"X 12" X 6" SAMPLE EACH), CAST STONE (6"X6" SAMPLE), PAINT, AND METAL. SAMPLES SHALL REPRESENT FINAL INSTALLED FINISHES WITH SEALER AS NOTED.
3. CONTRACTOR SHALL PROVIDE AND INSTALL MOCK-UPS OF AREAS INDICATED ON CALLOUT PLANS TO VERIFY GENERAL DESIGN CONFORMANCE BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. MOCKUPS SHALL REPRESENT FINAL INSTALLED FINISHES WITH SEALERS (AS NOTED) & EXPANSION JOINTS (SEALED) WHERE APPLICABLE. LOCATION OF CONSTRUCTION OF MOCKUPS PER OWNER'S REPRESENTATIVE.
4. REFER TO DETAIL "K", SHEET L2.01 FOR TYPICAL JOINT DETAILS
5. ALL GROUT TO BE SEALED WITH MATTE FINISH PENETRATING SEALER- 2 COATS.
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL STONE TILE PAVING REPRESENTING STONE SIZES, PATTERNS AND LAYOUT TO LANDSCAPE ARCHITECT, TO VERIFY GENERAL DESIGN CONFORMANCE, PRIOR TO PROCUREMENT
7. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL CUSTOM PRECAST CONCRETE, CAST STONE, & METAL ELEMENTS TO LANDSCAPE ARCHITECT, TO VERIFY GENERAL DESIGN CONFORMANCE, PRIOR TO FABRICATION.

Lifescape International, Inc.
4000 Campus Drive
Newport Beach, California 92660
Phone/Fax: (949) 262-0000 Fax: (949) 262-0004
Website: www.lifescapeinternational.com

THIS DRAWING, WHEN AT THE DIMENSIONS SHOWN, IS AT 24" X 36"

PROJECT DESIGN TEAM:

ARCHITECTS
ADAMS GROUP ARCHITECTS
[illegible]

CIVIL ENGINEER
TWR ENGINEERS
[illegible]

STRUCTURAL ENGINEER
TRC WOELFLE ENGINEERING
[illegible]

MEP ENGINEER
[illegible]

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: FPK CONSTRUCTION

DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
FINISH SCHEDULE

KEY MAP:

DATE: MM/DD/YYYY
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: CA
JOB NO.: 10040

SHEET NO.:
L0.03

POTTERY SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	TYPE/MODEL NO.	MATERIAL	COLOR	FINISH	SIZE	GROUT	SUPPLIER
POT 01	CUSTOM - 42" DIA. POT	STONE YARD, INC.	TO MATCH FINISH SIMPL PLANTER	CAST STONE	CREME	NATURAL	CUSTOM SIZE-42" DIA. X 42" HT.	N/A	STONE YARD, INC. 2485 CARROLL ROAD, SAN DIEGO CA 92121 TEL: 858.566.1300 / FAX: 858.566.1400 / WWW.STONEYARDINC.COM
POT 02	30" DIA. POT	STONE YARD, INC.	FIBER "BULL PLANTER"	CAST STONE	TERRA	NATURAL	30" DIA. X 34" HT.	N/A	STONE YARD, INC. 2485 CARROLL ROAD, SAN DIEGO CA 92121 TEL: 858.566.1300 / FAX: 858.566.1400 / WWW.STONEYARDINC.COM
POT 03	32" DIA. POT	STONE YARD, INC.	FIBER "PIEDMONT PLANTER" 19 W MATCHING SAUCER P1-1032	CAST STONE	CHALK	NATURAL	32" DIA. X 28.5" HT.	N/A	STONE YARD, INC. 2485 CARROLL ROAD, SAN DIEGO CA 92121 TEL: 858.566.1300 / FAX: 858.566.1400 / WWW.STONEYARDINC.COM
POT 04	25" DIA. POT	STONE YARD, INC.	FIBER "CANDI PLANTER"	CAST STONE	FOSSIL 15	NATURAL	25" DIA. X 28.5" HT.	N/A	STONE YARD, INC. 2485 CARROLL ROAD, SAN DIEGO CA 92121 TEL: 858.566.1300 / FAX: 858.566.1400 / WWW.STONEYARDINC.COM
POT 05	27" DIA. POT	QUICKCRETE PRODUCTS CORP.	QP-RECTANGULAR "MINI-CONE PLANTER"	LITE CRETE	SANTANA	F2	27" DIA. X 42" HT.	N/A	QUICK CRETE PRODUCTS CORP. 721 PARKRIDGE AVE., NORCO, CA 92860 TEL: 951.737.7020 / FAX: 951.737.7021 / WWW.QUICKCRETE.COM
POT 06	22" DIA. POT	QUICKCRETE PRODUCTS CORP.	QP-RECTANGULAR "URNUS, ANTIQUE"	LITE CRETE	CUSTOM, REFER TO DETAIL	CUSTOM, REFER TO DETAIL	22" DIA. X 25" HT.	N/A	QUICK CRETE PRODUCTS CORP. 721 PARKRIDGE AVE., NORCO, CA 92860 TEL: 951.737.7020 / FAX: 951.737.7021 / WWW.QUICKCRETE.COM
POT 07	30" DIA. POT	QUICKCRETE PRODUCTS CORP.	QP-RECTANGULAR "ALCAZAR PLANTER"	LITE CRETE	CUSTOM, REFER TO DETAIL	CUSTOM, REFER TO DETAIL	30" DIA. X 35" HT.	N/A	QUICK CRETE PRODUCTS CORP. 721 PARKRIDGE AVE., NORCO, CA 92860 TEL: 951.737.7020 / FAX: 951.737.7021 / WWW.QUICKCRETE.COM
POT 08	26" DIA. POT	STONE YARD, INC.	FIBER "WINE URN" (10) 16" DIA. SQUARE STYLE A SAUCER	CAST STONE	ANTIQUA 55	NATURAL	26" DIA. X 34.50" HT.	N/A	STONE YARD, INC. 2485 CARROLL ROAD, SAN DIEGO CA 92121 TEL: 858.566.1300 / FAX: 858.566.1400 / WWW.STONEYARDINC.COM
POT 9	48" DIA. POT	QUICKCRETE PRODUCTS CORP.	QP-RECTANGULAR "SIENA PLANTER"	LITE CRETE	CUSTOM, REFER TO DETAIL	CUSTOM, REFER TO DETAIL	48" DIA. X 50" HT.	N/A	QUICK CRETE PRODUCTS CORP. 721 PARKRIDGE AVE., NORCO, CA 92860 TEL: 951.737.7020 / FAX: 951.737.7021 / WWW.QUICKCRETE.COM
POT 10	42" SQ. POT	QUICKCRETE PRODUCTS CORP.	QP-CUSTOM "COMPOUND STYLE PLANTER" (8) W MATCHING SAUCER	LITE CRETE	CUSTOM, REFER TO DETAIL	CUSTOM, REFER TO DETAIL	42" SQ. X 42" HT.	N/A	QUICK CRETE PRODUCTS CORP. 721 PARKRIDGE AVE., NORCO, CA 92860 TEL: 951.737.7020 / FAX: 951.737.7021 / WWW.QUICKCRETE.COM
POT 11	36" DIA. POT	OLD TOWN FIBERGLASS	FC1.36W "POSTED PLANTER" (1) W MATCHING SAUCER	FIBERGLASS	COSMOPOLITAN WOOD	MATTE	36" DIA. X 31.5" HT.	N/A	OLD TOWN FIBERGLASS, INC. 485 NORTH HOWE BOULEVARD, GRANGE, CA 92868-4913 TEL: 714.630.0202 / FAX: 714.630.3917 / WWW.OLDTOWNFIBERGLASS.COM
POT 12	72" x 30" POT	OLD TOWN FIBERGLASS	FC1.72X30 "RECTANGULAR PLANTER" (2) W MATCHING SAUCER	FIBERGLASS	COSMOPOLITAN WOOD	MATTE	72" x 30" WIDE x 30" HT.	N/A	OLD TOWN FIBERGLASS, INC. 485 NORTH HOWE BOULEVARD, GRANGE, CA 92868-4913 TEL: 714.630.0202 / FAX: 714.630.3917 / WWW.OLDTOWNFIBERGLASS.COM

NOTES:
1. CONTRACTOR SHALL VERIFY ALL POTTERY QUANTITIES PRIOR TO PROCUREMENT AND INSTALLATION.
2. CONTRACTOR TO PROVIDE SAMPLE REPRESENTING COLOR AND FINISH OF EACH POTTERY AMENITY SPECIFIED TO LANDSCAPE ARCHITECT, TO VERIFY GENERAL DESIGN CONFORMANCE, PRIOR TO PROCUREMENT.
3. ALL POTS TO RECEIVE 2" DIA. DRAIN HOLE, CENTERED IN BOTTOM, UNLESS OTHERWISE SPECIFIED.
4. ALL POT EXTERIORS TO BE SEALED WITH MATTE FINISH PENETRATING SEALER THAT DOES NOT ALTER MATERIAL COLOR OR FINISH, PER MANUFACTURER'S SPECIFICATIONS.
5. ALL POT INTERIORS TO BE WATERPROOFED WITH 2 COATS WATERPROOFING SEALER BEGINNING AT 1" BELOW FINISHED RIM OF POT.
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL CUSTOM POTTERY AND SITE ELEMENTS TO LANDSCAPE ARCHITECT, TO VERIFY GENERAL DESIGN CONFORMANCE, PRIOR TO FABRICATION.
7. POTS TO RECEIVE ADDITIONAL HOLES FOR IRRIGATION & ELECTRICAL CONDUIT AS REQUIRED.

SITE AMENITY SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	TYPE/MODEL NO.	MATERIAL	COLOR	FINISH	SIZE	GROUT	SUPPLIER
BIKE RACK 01	BIKE RACK	CREATIVE PIPE, INC.	R-BR-S 26 SPACE BIKE RACK, RIBB RACK PERMANENT SURFACE MOUNT	STEEL	N/A	GALVANIZED FINISH	102" LENG X 34" HEIGHT X 31" WIDE	N/A	CREATIVE PIPE, INC. P.O. BOX 2409 SAN DIMAS, CA 91773 PH: 1.800.AM.SHIP FAX: 909.592.9593 WWW.CREATIVEPIPE.COM
TREE GRATE 01	TREE GRATE	IRONSMITH	"RIBTA" DIMENSIONAL 14" LONG WELLS	CAST IRON	NATURAL	NATURAL	60" SQ., 24" SLOTS, 10" TREE OPENING	N/A	IRONSMITH P.O. BOX 1088, FRANKLINTON, LA 70438 PH: 985.778.5897 FAX: 985.778.5898 WWW.IRONSMITH.CO
SHOWER 01	SHOWER	STERLING POOL CO. INC.	MODEL PUPMANDA SHOWER, ADA COMPLIANT, METERING VALVES, W/ FOOT SHOWER & HOSE BIB	MARINE GRADE STAINLESS STEEL	N/A	N/A	N/A	N/A	STERLING POOL CO., INC. P.O. BOX 207 SAN TAPOPE, MO. 21051 PH: 410.882.1181 WWW.STERLINGPOOL.COM
SLIDE 01	SLIDE	SPLASHACULAR	CUSTOM	FIBERGLASS	RAL 6014 "FARRO JELLIE"	N/A	PER PLAN	N/A	SPLASHACULAR ATTN: JIM MOSER 79-870 HWY 111, PMB 203, LA QUINTA, CA 92253 PH: 760.341.3333 URL: WWW.SPLASHACULAR.COM
LADDER 01	HANDRAIL AT LADDER	S.S. SMITH	COMMERCIAL RING HANDRAIL CB4-1000, RAILS WITH ALUMINUM ANCHOR	MARINE GRADE TYPE 304 STAINLESS STEEL	N/A	POLISHED	1-5/8" O.D.	N/A	S.S. SMITH 985 CORAL LONGER DRIVE PORTLAND, TN 37148 PH: 800.334.4357 WWW.SSSMITH.COM

Ultescape International, Inc.
4250 Campus Drive
Newport Beach, California 92660
Phone: 949.679.8800 Fax: 949.679.8801
Website: www.ultescape.com

The information, ideas and designs appearing on these plans are the property of Ultescape International, Inc. and may not be used without written consent.

PROJECT DESIGN TEAM:
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CREATIVE DESIGNER
PAT MORRISS CO.
M.E.P. ENGINEER
TMC ENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

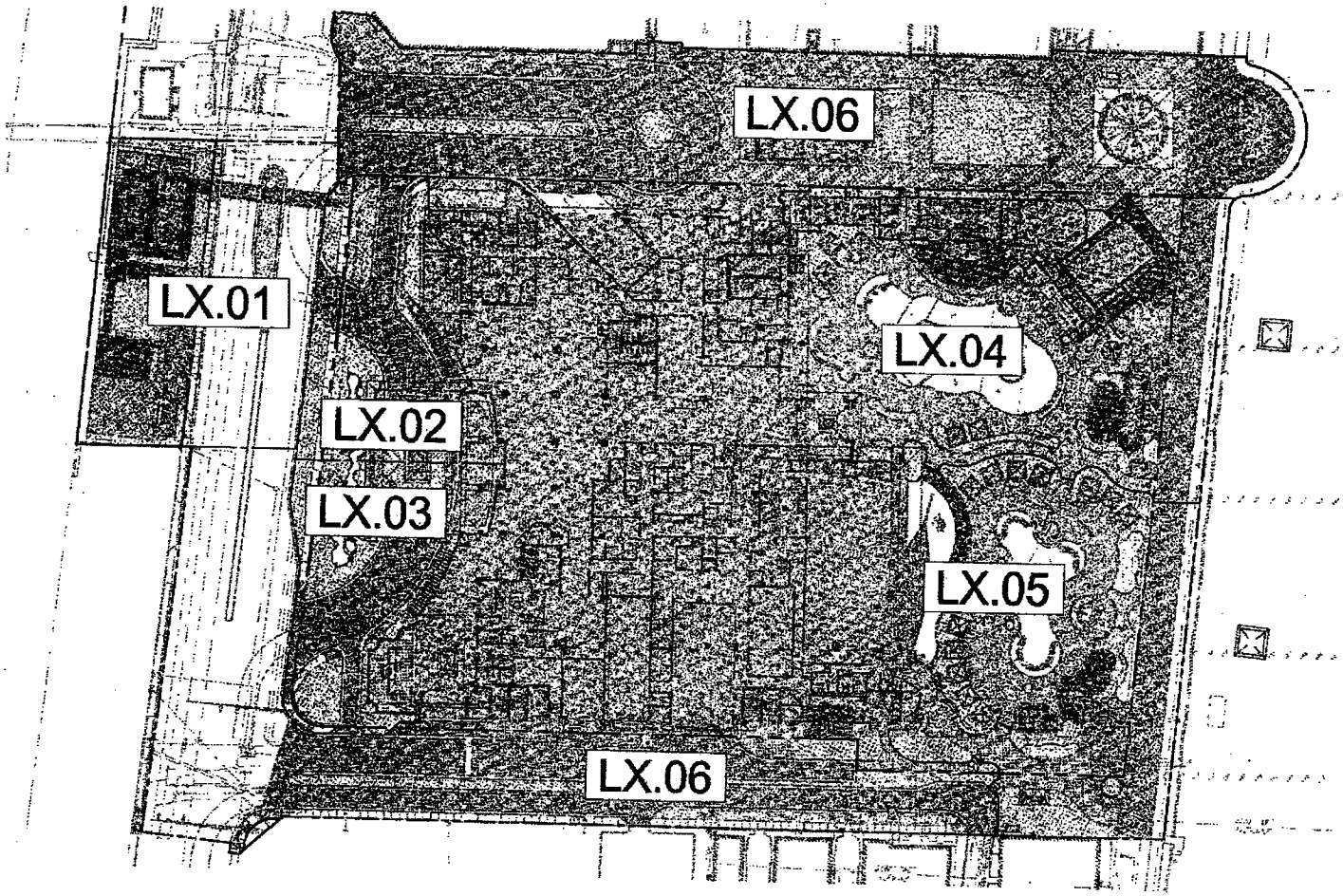
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
POTTERY & SITE AMENITY SCHEDULES

KEY MAP:

DATE: MM/DD/YYYY
SCALE: AS NOTED
DRAWN BY: NM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L0.04



NOT IN CONTRACT

SCALE: 1"=30'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS

CREATIVE DESIGNER

M.E.P. ENGINEER

STRUCTURAL ENGINEER

CIVIL ENGINEER

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/13/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
SITE ORIENTATION PLAN

KEY MAP:

DATE: MM/DD/YYYY
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10646

SHEET NO.:
L1.01

GENERAL IRRIGATION NOTES

1. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS, LOCATION OF SHALLOW RETAINING WALLS, STRUCTURES AND EXISTING AND NEW UTILITIES. THE IRRIGATION CONTRACTOR SHALL PERFORM REPAIRS AT ALL ITEMS DAMAGED BY HIS INSTALLATION WITHOUT NO EXPENSE TO THE OWNER. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERAL LINES THROUGH WALLS, UNDER SIDEWALKS, DRIVES, AND PAVING SITE.

2. THE DESIGN IS DIAGRAMMATIC. ELLIPSES, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS.

3. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW REQUIRED SHOWN ON THE IRRIGATION DRAWINGS IN THE POINT OF CONNECTION METERS. THE IRRIGATION CONTRACTOR SHALL VERIFY WITH THE PROVIDED PRESSURE AND FLOW TO SUBMITTED PLANS. SHOULD THE ACTUAL SERVICE WATER PRESSURE DIFFER FROM THAT SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IMMEDIATELY. IF THE IRRIGATION CONTRACTOR SHALL PROCEED WITH INSTALLATION, IN THE EVENT THE INCORRECT PRESSURE ARE NOT REPORTED PRIOR TO THE POINT OF CONTRACTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REQUIRED REVISIONS.

4. DO NOT WELL FULLY SIGNAL, IF IT SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WERE TO BE CONFORM IN THE FIELD THAT CONDITIONS, GIVE INFORMATION OR DIFFERENCES IN THE AREA UNDER SIDEWALK DUE THAT WOULD HEAVENLY AFFECT THE SCOPE OF THE IRRIGATION WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO MEANINGFUL INSTALLATION. IN THE EVENT THE INCORPORATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

6. CONNECTION OF MAIN VOLTAGE POWER TO THE CONTROLLERS, PUMPS AND OTHER ELECTRICAL EQUIPMENT IS BY THE LANDSCAPE CONTRACTOR LICENSED ELECTRICIAN.

5. ALL MAIN LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAIN LINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES UNDER PAVING. IN ADDITION TO THE SLEEVES SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDERGROUND PAVED AREAS.

7. PIPING SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SHALL BE PERMITTED. NO SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL SCHEDULE 40 REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE YEAR OF SUBMISSION.

8. FINAL LOCATION OF THE AUTOMATIC CONTROLLERS SHALL BE APPROVED BY THE OWNERS AUTHORIZED REPRESENTATIVE.

9. ALL CONTRACTOR INSTALLED IN VALVE BOXES SHALL BE INSTALLED PER DETAIL DRAWINGS WITHOUT CUTTING SIDE WALLS OF THE VALVE BOX. BUT VALVE BOXES WILL BE REPLACED FROM NEW VALVE BOXES AS REQUIRED BY THE OWNERS AUTHORIZED REPRESENTATIVE AT THE CONTRACTOR OWN EXPENSE.

10. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

11. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.

12. THE BACK FLOW PREVENTORS ARE NOT TO BE LOCATED WITHIN NORTH FT. CLEARANCE.

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE SPRINKLING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNERS AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PROPOSED MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 10 FT. AROUND CURBS, BUILDINGS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. SHORTEST ROUTING OF CONCRETE OVERALL. LANDSCAPE CONTRACTOR TO TIE EXTREME CARE WHEN TRENCHING IN THE AREA.
6. ALL VALVE BOXES SHALL BE PLACED 12"-24" IN THE NEAREST SHRUB BED OR MINIMUM AREA AND PERIPHERAL AS WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS. VALVE BOXES SHALL NOT BE PLACED IN THE TURF AREAS.
7. PRESSURE MAIN LINE AND LATERAL SLEEVES, VALVES AND SCHEDULE SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES, CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SHRUB AT CHANGE IN DIRECTION.
8. PLACE QUICK COUPLING VALVES 10' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE ONLY AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL POTS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OTHERS.
12. EXISTING 1" IRRIGATION METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVING THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.

IRRIGATION CONSTRUCTION NOTES: 10046 - POOL DECK

1. POINT OF CONNECTION IS LOCATED IN THE POOL EQUIPMENT ROOM. SEE POC NOTES THIS SHEET.
2. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNERS AUTHORIZED REPRESENTATIVE.
3. PRESSURE MAIN LINE TO BE PLACED IN THE WEST STRUCTURAL AND TOPMOST LEVEL. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CORING AND SEALING PLANTERS FOR MAIN LINE ACCESS TO QUICK COUPLING VALVE LOCATIONS.
4. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS.
5. LATERAL LINE AND MAIN LINE BETWEEN PLANTERS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES.
6. PLACE QUICK COUPLING VALVES WITHIN THE PLANTERS AS INDICATED
7. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE MAIN LINE AND LATERALS FROM THE POOL DECK TO THE POOL EQUIPMENT ROOM. ALL LINES SHALL BE RUN FROM THE SENSEUR PLANTER. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CORING, SEALING AND MAKING WATER TIGHT THE PENETRATION THROUGH THE PLANTER.
8. POTS TO BE SHALL BE HAND WATERED.

IRRIGATION CONSTRUCTION NOTES: 10046 LEVEL II

1. POINT OF CONNECTION IS LOCATED IN THE POOL EQUIPMENT ROOM.
2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE LATERAL FROM LEVEL 3 TO THE POOL EQUIPMENT ROOM. LATERAL LINES SHALL BE RUN FROM THE POOL EQUIPMENT ROOM TO THE PLANTER. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CORING, SEALING AND MAKING WATER TIGHT THE PENETRATION THROUGH THE PLANTER.
3. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LATERAL LINES BETWEEN THE PLANTERS. HE ALSO SHALL BE RESPONSIBLE FOR CORING, SEALING AND MAKING WATER TIGHT THE PLANTERS.
4. DRIP LINE TO BE PLACED BENEATH THE PLANTER MELON.
5. ALL POTS TURF SHALL BE HAND WATERED.

SLEEVE AND CONDUIT SCHEDULE:

ALL SLEEVES FOR PRESSURE SUPPLY LINE AND LATERAL LINE PIPE SHALL BE A MINIMUM TWICE THE NOMINAL SIZE OF THE PIPE WITHIN.

SLEEVES SHALL:

6" SCH 40 PVC FOR 1-1/2" PRESSURE SUPPLY LINE PIPE
4" SCH 40 PVC FOR 1" PRESSURE MAIN LINE
6" SCH 40 PVC FOR 1-1/2" AND 2" PRESSURE MAIN LINE
PVC SCH 40 FOR ALL LATERAL LINE PIPE

CONDUIT SIZE AND MATERIAL:

One 2" Dia PVC SCH 40 CONDUIT FOR UP TO 20 SCH LOW VOLTAGE WIRES.

NOTE: FLOW SENSING CABLE AND MASTER VALVE WIRES SHALL BE INSTALLED IN THEIR OWN 2" SCH 40 PVC CONDUIT SEPARATE AND APART FROM ALL OTHER WIRES.

CONTROLLER NOTES

[A] BACK-PACK THEFT PROTOCOL/WARNING SCREW (SEE SPECIFICATIONS)

THE ASSEMBLY INCLUDES AN EMBOSS PLUS 1 TWO2 CONTROLLER WITH PRIMARY LINE PROTECTION, ST FLOW SENSING, NORMALLY CLOSED SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVERS. THE W CONTROLLER INCLUDES A HANDHELD TRANSMITTER, BOTH CONTROLLERS INCLUDE AN ADDITIONAL 10 YEAR CONTROL SERVICE PLAN. THE SERVICE PLAN ALLOWS FOR DIRECT INTERNET CONNECTION TO CONTROLLER TO MONITOR DATA. THE CONTROLLER ARE MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

THE 'E' CONTROLLER SHALL BE TWO BIRD CAPABLE WITH COMMUNICATION BETWEEN THE 'E' CONTROLLER, DECODERS AND VALVES. PROGRAMMING SHALL BE BY REAL TIME WEATHER DATA PROVIDED THROUGH INTERNET CONTROL. THIS SITE IS AND CONNECTING DIRECTLY VIA INTERNET PROTOCOL ADDRESS. ADDITIONAL EQUIPMENT REQUIRED IS A LAPTOP OR DESKTOP COMPUTER WITH AN INTERNET CONNECTION.

OPTIONAL COMPONENT: RAIN MASTER WEATHER CENTER WITH WEATHER STATION. THE WEATHER CENTER PROVIDES ETO SPECIFIC WEATHER INFORMATION FOR AUTOMATIC CONTROLLER SCHEDULING.

[B] BACK-PACK PROTOCOL/WARNING CAGE/SERVICE V-1-100-120 (POOL DECK)

THE ASSEMBLY INCLUDES AN EMBOSS PLUS 1 CONTROLLER WITH PRIMARY LINE PROTECTION, ST FLOW SENSING, NORMALLY CLOSED SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVERS. INCLUDES 10 YEAR ADDITIONAL 10 YEAR CONTROL SERVICE PLAN. THE SERVICE PLAN ALLOWS FOR DIRECT INTERNET CONNECTION TO CONTROLLER TO MONITOR DATA. THE CONTROLLER IS MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

WHEN INSTALLATION OF THE SPRINKLER CONTROLLERS IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LOCAL AREA OWNER REPRESENTATIVE REPRESENTATIVE FOR OWNER VERIFICATION THE INSTALLATION.

AFTER VERIFICATION AND ONCE THE CONTROLLER HAVE BEEN INSTALLED AND HAVE BEEN ESTABLISHED, THE LANDSCAPE CONTRACTOR SHALL FORWARD THAT INFORMATION TO THE OWNER AND THE LANDSCAPE ARCHITECT.

OPTION #1 FOR JOHNSON & MICHIGAN STREET - STAND ALONE RAIN BIRD SIMPLE CONTROLLERS

[C] CAS-RFK-MP-PTC-TC-CONTROLLER-RAIN BIRD

[D] CAS-RFK-DEC-PTC-TC-RECEIVER-RAIN BIRD

THE 'D' CONTROLLER ASSEMBLY INCLUDES RAIN BIRD SIMPLE CONTROLLERS WITH PRIMARY LINE PROTECTION, ST FLOW SENSING, NORMALLY CLOSED SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVER, AND TRANSMITTER. THE CONTROLLERS ARE MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

THE 'E' CONTROLLER ASSEMBLY INCLUDES A RAIN BIRD SIMPLE CONTROLLERS WITH PRIMARY LINE PROTECTION, ST FLOW SENSING, NORMALLY CLOSED SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVER. THE CONTROLLERS ARE MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

OPTION #2 FOR JOHNSON & MICHIGAN STREET - RAIN BIRD MASTER SITE SATELLITE CONTROLLERS

[D] CAS-RFK-MP-PTC-TC-RECEIVER-RAIN BIRD

[E] CAS-RFK-DEC-PTC-TC-RECEIVER-RAIN BIRD

THE 'D' CONTROLLER ASSEMBLY INCLUDES A RAIN BIRD SITE SATELLITE CONTROLLER WITH PRIMARY LINE PROTECTION, LINK FLOW SENSING, NORMALLY OPEN SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVER AND TRANSMITTER. THE CONTROLLER IS MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

THE 'E' CONTROLLER ASSEMBLY INCLUDES A RAIN BIRD SITE SATELLITE CONTROLLER WITH PRIMARY LINE PROTECTION, LINK FLOW SENSING, NORMALLY OPEN SUPERIOR MASTER VALVE, RAIN SENSING AND PERMANENTLY MOUNTED REMOTE CONTROL RECEIVER. THE CONTROLLER IS MOUNTED IN A 18" X 30" X 18.5" TOP ENTRY, STAINLESS STEEL, PEDESTAL ENCLOSURE.

ALL CONTROLLERS AND CONTROLLER EQUIPMENT IS BY JOHN DEERE GREENSEED - NO SUBSTITUTIONS.

ELECTRICAL REQUIREMENTS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC, 15 AMP POWER TO EACH CONTROLLER LOCATION. FINAL CONNECTION OF THE ELECTRICAL POWER TO THE CONTROLLERS IS BY THE LANDSCAPE CONTRACTOR LICENSED ELECTRICIAN.

DECODER NOTES

THE CONTRACTOR SHALL GROUP VALVES IN SETS OF ONE, FOR A VALVE, PROVIDE AND INSTALL 2 RAIN BIRD MASTER THF-S-1, 2 OR 4 DECODERS DEPENDING ON VALVE GROUPING.

THE DECODER SYSTEM REQUIRES ONLY TWO WIRES FROM THE MAINLINE UNIT TO THE PRIMARY VALVE. THE MAIN WIRE RUN SHALL NOT EXCEED 5,000' DECODERS ARE ATTACHED TO EACH VALVE, OR GROUPING OF UP TO FOUR VALVES, AND CONNECTED TO THE MAIN CONTROL AND COMMON WIRES. A DECODER SIGNAL IS SENT TO, AND RECEIVED BY A SINGLE VALVE, AND IGNORED BY ALL OTHER VALVES ALONG THE WIRE PATH. MULTIPLE VALVES CAN BE RUN AT THE SAME TIME

FERTILIZER INJECTION SYSTEM

SYSTEM DESIGN PARAMETERS - Pool System

FRI-5-16/F-120/A/07-1.1	< 1 Acres	62 PSI	1-1/2 INCH	
16 GALLON	120 VAC	1 PHASE 60 Hz		

SYSTEM DESIGN PARAMETERS - Boat Dock

FRI-5-16/F-120/A/07-1.1	< 1 Acres	62 PSI	2 INCH	
16 GALLON	120 VAC	1 PHASE 60 Hz		

SYSTEM DESIGN PARAMETERS - Site Specific

FRI-5-65/F-300/A/07-1.1	< 5 Acres	73 PSI	4 INCH	
43 GALLON	120 VAC	1 PHASE 60 Hz		

BOOSTER PUMP

SYSTEM DESIGN PARAMETERS

2HP/3A-5-3-1/VFD	140 GPM	72 PSI	4 INCH
63 PSI	208 VAC	3 PHASE 60 Hz	
C62/A	140 GPM	70 FEET	
5 HP	3389 RPM	16 AMPS	

SHRUB SCHEDULE:

INSTALL SHRUBS, TURNS SE EMITTERS TO THE SHRUBS AND TREES FOR THE FOLLOWING NO HOURS:

CONTAINER SIZE:	MODEL #	QTY. AT SIDE OF ROOTBALL	QTY. IF FROM NON-DISTURBED SOIL	EMITTER QTY.	GPH
2 GAL	DRIP-A	2 EACH	-	2	1.0
3 GAL	DRIP-A	2 EACH	-	2	1.0
7 GAL	DRIP-A	3 EACH	-	3	1.5
15 GAL	DRIP-A	3 EACH	-	6	3.0

THOROUGHLY FLUSH ALL DRIP TUBING PRIOR TO INSTALLING EMITTERS AND FLUSH AGAIN AFTER INSTALLING EMITTERS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL CONTRACTED TO EMITTER CLOGGING DURING THE CONSTRUCTION AND MAINTENANCE PERIODS AT NO ADDITIONAL COST TO THE OWNER.

TREE WATER SCHEDULE

CONTAINER SIZE:	MODEL #	QTY. AT SIDE OF ROOTBALL	GPM PER TREE
15 GAL	RWB-S-1401-5CK	1 EACH	2
24" BOX	RWB-S-1401-5CK	2 EACH	1.0
36" BOX	RWB-S-1401-5CK	2 EACH	1.0
48" BOX	RWB-S-1401-5CK	3 EACH	1.5
60" BOX	RWB-S-1401-5CK	4 EACH	2.0

ALL RAIN BIRD SHALL BE EMITTER TUBING RAIN BIRD DRIPLINE, MODEL XB-0508-12, ENCIRCLING THE BASE OF THE TRUNK. TUBING SHALL BE INSTALLED ON SHADE WITH A 3" THICK MULCH COVERING THE TUBING. INSTALL ONE LOOP OF TUBING AROUND THE BASE OF THE TRUNK FOR EVERY FOOT OF BARE TRUNK HEIGHT, TWO LOOPS MINIMUM.

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DETAIL
POOL EQUIPMENT				
M	—	4"	POTABLE INSTALLATION BY OTHERS	—
RPZ	FEBCO	825Y-3"	BACKFLOW PREVENTION DEVICE THE BACK FLOW PREVENTERS ARE NOT WITHIN THE VICINITY OF SITE VISIBILITY LINES.	A
SUPERIOR	—	—	3" NORMALLY CLOSED MASTER VALVE EPOXY COATED	B
F	—	—	FLOW SENSOR	C
POOL HOUSE				
RPZ	FEBCO	825Y-1"	BACKFLOW PREVENTION DEVICE THE BACKFLOW PREVENTERS ARE NOT WITHIN THE VICINITY OF SITE VISIBILITY LINES.	WW
SUPERIOR	—	—	1" NORMALLY CLOSED MASTER VALVE EPOXY COATED	WV
F	—	—	1" FLOW SENSOR	WF
POC IN BOAT DOCK				
M	—	1"	POTABLE WATER METER BY OTHERS	—
RPZ	FEBCO	825Y-1"	BACKFLOW PREVENTION DEVICE THE BACKFLOW PREVENTERS ARE NOT WITHIN THE VICINITY OF SITE VISIBILITY LINES.	A
SUPERIOR	—	—	1-1/2" NORMALLY CLOSED MASTER VALVE EPOXY COATED	B
F	—	—	1-1/2" FLOW SENSOR	C
POC IN JOHNSON & MICHIGAN STREETS				
M	—	1"	POTABLE WATER METER BY OTHERS	—
RPZ	FEBCO	825Y-1"	BACKFLOW PREVENTION DEVICE THE BACKFLOW PREVENTERS ARE NOT WITHIN THE VICINITY OF SITE VISIBILITY LINES.	A
SUPERIOR	—	—	1-1/2" NORMALLY CLOSED MASTER VALVE EPOXY COATED	B
F	—	—	1-1/2" FLOW SENSOR	C
MASTER VALVES AND FLOW SENSORS ARE SPECIFIED AND INCLUDED WITH THE CONTROLLER ASSEMBLY NUMBERS FOR ALL POINTS OF CONNECTION				
Q	Rainbird	33XK-PC	CHECK CONTROL VALVE	D
M	ASCO	8210-K	SOLENOID GATE VALVE WITH MANUAL CROSS HANDWHEEL	E
C	JDOT	—	SITE SINGLE CONTROLLER SEE CONTROLLER NOTES THIS SHEET	F
C	JDOT	—	POOL DECK CONTROLLER SEE CONTROLLER NOTES THIS SHEET	G
C	JDOT	—	BOAT DOCK CONTROLLER SEE CONTROLLER NOTES THIS SHEET	H
RB	RAIN BIRD	—	JOHNSON & MICHIGAN STREETS CONTROLLERS SEE CONTROLLER NOTES THIS SHEET	I
P	GPM	2HP	DECODER PUMP - SITE SPECIFIC POC 1 SEE SPECIFIC - SEE SPECIFICATIONS NOTES THIS SHEET. BOOSTER PUMP SYSTEM TO BE SUPPLIED BY GRIEN PRODUCT SALES, 1888 HILTON AVE., SAN DIEGO, CA. 92173 (619) 295-7311 - NO SUBSTITUTIONS	J
—	RAIN BIRD	—	CONNECTION FITTINGS	K
—	RAIN BIRD	—	CONNECTION FITTINGS	K
—	NETAFIM	2-NLPM	LINE FLUSHING VALVE	L
—	RAIN BIRD	XFS SERIES	DRIPLINE	WM
			SUBSURFACE, IF BY CONTRACTOR: CONTRACTOR TO INSTALL XFS-06-18 DRIPLINE FOR SHRUBS, ANNUALS, COLOR PLANTING AT 6" O.C. TOWELCHE TWO ROWS OF 12-6-12 WITH 12" BETWEEN ROWS AND EMITTERS STAGGERED.	
—	RAIN BIRD	XFS	6" BLACK SERVE Polline WITH EMITTERS - SEE SHEET WATERING GUIDE INSTALLMENT	G
—	RAIN BIRD	TLCL-6-12	DRIP LINE PALMS - SEE TREE WATERING GUIDE THIS SHEET.	P
—	RAIN BIRD	RWB	ROOT WATERING SYSTEM TREES OTHER THAN PALMS - SEE SHEET WATERING GUIDE THIS SHEET.	Q
—	APPROVED	PVC SCH 40	SUBMETER WIRE CONDUIT (SEE NOTES FOR SIZE)	R
—	APPROVED	PVC SCH 40	IRRIGATION SLEEVES (SEE NOTES FOR SIZE)	S
—	APPROVED	CLASS 200 SCH. 40 PVC FOR ALL IRRIGATION WITHIN CITY PROPERTY.	IRRIGATION NON-PRESSURE LATERALS	S
—	APPROVED	PVC 200	POTABLE SOURCE PRESSURE SUPPLY LINE FOR 2" DIAMETER AND LARGER	X
—	APPROVED	PVC SCH 40	POTABLE SOURCE PRESSURE SUPPLY LINE FOR 1 1/2" DIAMETER AND SMALLER	
M	LS	FRI-5-65/F-300/A/07-1.1 SITE SPECIFIC, POC 1 SEE SPECIFIC - SEE INJECTOR NOTES THIS SHEET. FERTILIZER INJECTION BY LANDSCAPE INJECTION SYSTEMS, 1888 HILTON AVE., SAN DIEGO, CA. 92173 (619) 295-7311 - NO SUBSTITUTIONS	FERTILIZER INJECTION SYSTEM	W
M	LS	FRI-5-16/F-120/A/07-1.1 POC 2 & 3 POOL DECK AND BOAT DOCK - SEE INJECTOR NOTES THIS SHEET. FERTILIZER INJECTION BY LANDSCAPE INJECTION SYSTEMS, 1888 HILTON AVE., SAN DIEGO, CA. 92173 (619) 295-7311 - NO SUBSTITUTIONS	FERTILIZER INJECTION SYSTEM	WW
	RAIN BIRD	XC3-8-COM	CONTROL SCHEME	X
	RAIN BIRD	XC3-8-COM	CONTROL ZONE SET - POOL EQUIPMENT ROOM	Y
	RAIN BIRD	FCS Series	REMOTE CONTROL VALVE	Z
	RAIN BIRD	EMC-Series	(6) OUTLET MANIFOLD	AA

GALLONS PER MINUTE
CONTROLLER STATION NUMBER
CONTROL VALVE SIZE

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 8	¾"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 18	1-1/4"	9 - 13
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 43	2"	25 - 40

Russell-Retan Group
LANDSCAPE IRRIGATION DESIGN
2242 SOUTH SOMERSON LANE
CHARLOTTE, CA 28244
(704) 545-3701
EMAIL: russellretangroup@gmail.com

Lifescape International, Inc.
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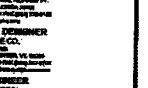
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.
Contact: Tom Hoffman
Phone: (954) 484-8777
Fax: (954) 484-8778
Email: tom@twhengineers.com

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
1111 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019



SEAL:

ISSUED FOR: CONSTRUCTION
DATE: 00/00/YYYY

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
IRRIGATION NOTES & LEGENDS

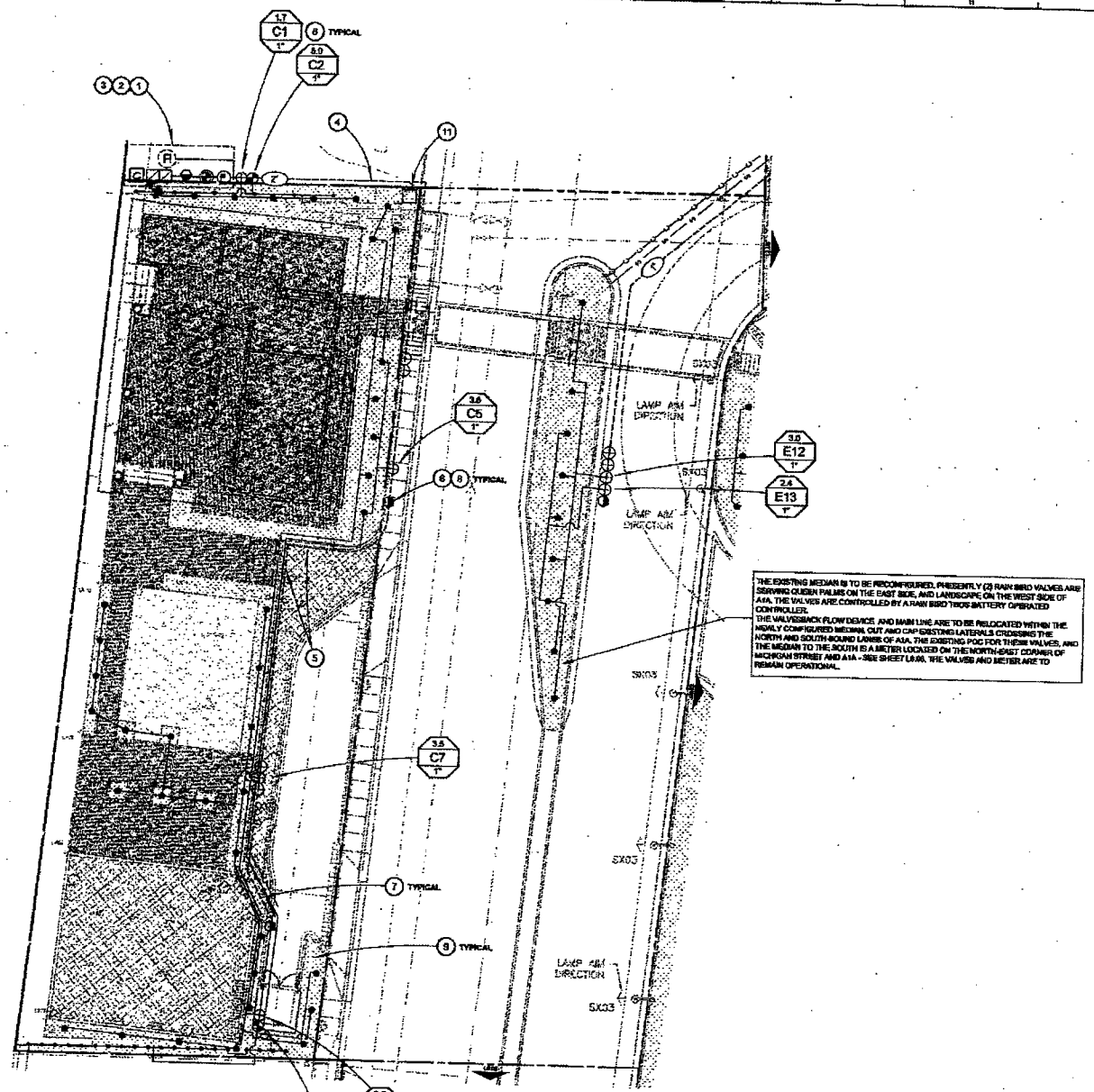
KEY MAP:

DATE: 10/17/11
SCALE: NONE
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L8.00

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION, SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. PORTIONS OF PRESSURE MAIN LINE IS ON OWNER'S PROPERTY. PLACE MAIN LINE WITHIN PLANTERS, 18"+/- BEHIND CURBS, VALUE BOXES, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. INDICATES ROUTING OF CONCRETE CURBING. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE INNER GROUND COVERING AREA AND PERPENDICULAR WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS. VALVE BOXES SHALL NOT BE PLACED WITHIN SOD AREAS.
7. PRESSURE MAIN LINE AND LANDRALS BENEATH BUILDINGS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGES IN DIRECTION.
8. PLACE QUICK COUPLING VALVES 100' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO SEAL POTS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OTHERS.
12. EXISTING 1" WATER METER EXISTS THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER JR TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL INDICATE THE PRESSURE MAIN LINE WITHIN THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. AIRFALL BLEEDER AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND HALES.



LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
3/4"	6 - 8	3/4"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 18	1-1/4"	9 - 16
1-1/2"	17 - 23	1-1/2"	17 - 24
2"	24 - 42	2"	25 - 46

POC 3 - (1) EXISTING 1" POTABLE WATER METER BY OTHERS, CONTROLLER "C", REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR, AND FERTILIZER INJECTION SYSTEM BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 38 GPM

DIG ALERT TOLL FREE 1-800-227-2600

Russell-Retan Group

1 Landscapes International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
ADACHI GROUP ARCHITECTS
CREATIVE DESIGNER:
PAT MONROE DO.
M.E.P. ENGINEER:
TWR ENGINEERS
STRUCTURAL ENGINEER
TWG WORLDWIDE ENGINEERING
CIVIL ENGINEER:
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3591 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 70% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - Trees

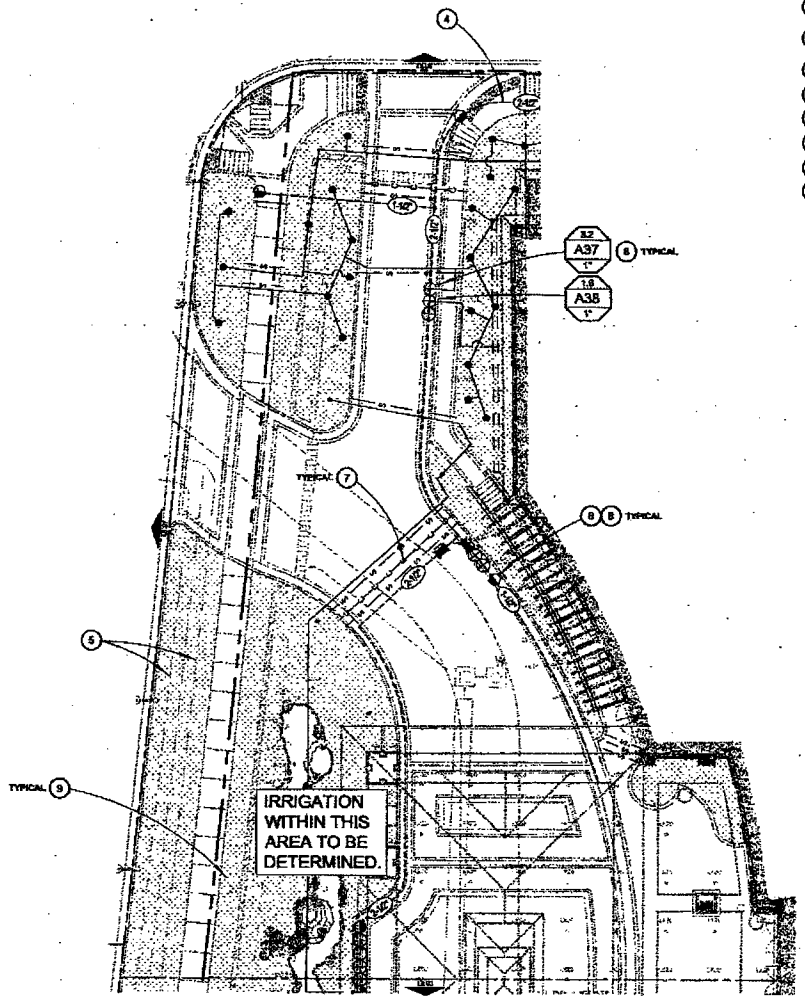
KEY MAP:

DATE: 10/17/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L8.01

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 18" to adjacent CURBS, WALKWAYS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. INDICATES ROUTING OF CONCRETE DUTFALL. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND PERPENDICULAR WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN MIDDLE ROWS. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERALS BENEATH WALKS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN INDIVIDUAL ELECTRICAL CONDUIT WITH BRIDGES AT CHANGES IN DIRECTION.
8. PLACE GATE COUPLING VALVES 100' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE ON AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE. ANCHOR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. PONDS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO INSTALL PONDS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METERS BY OWNERS.
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVING THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY WHERE THIS PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.



LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	9 - 8	¾"	0 - 4
1"	9 - 12	1"	5 - 9
1-1/4"	13 - 16	1-1/4"	8 - 16
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 46

DIG ALERT TOLL FREE 1-800-227-2600

Russell-Reton Group

LANDSCAPE IRRIGATION DESIGN
5242 SW 30th TERRACE
DAVIE, FL 33314
(954) 648-8763

SCALE: 1"=10'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ADACHE GROUP ARCHITECTS

CREATIVE DESIGNER
PAT SCORDIS CO.

M.E.P. ENGINEER
TMR ENGINEERED

STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING

CIVIL ENGINEER
SONSUB ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3401 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

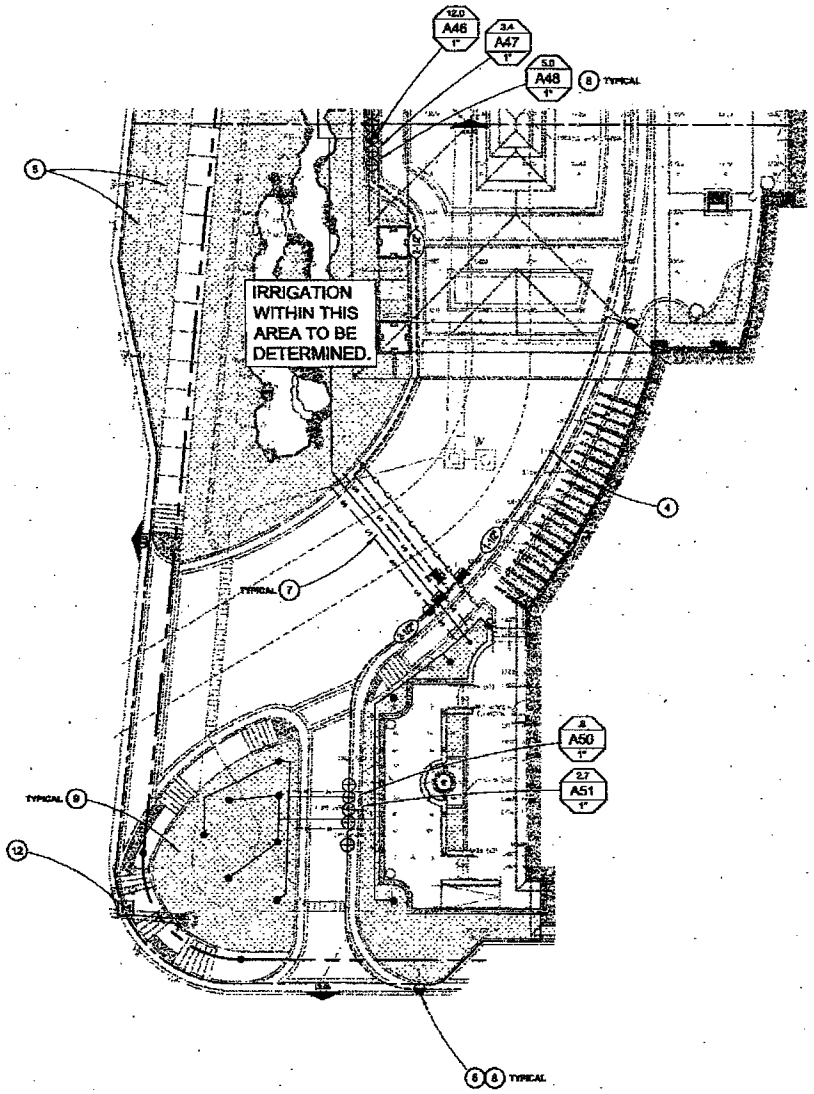
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - TREES

KEY MAP:

DATE: 10/17/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 16048

SHEET NO.:
L8.02



IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE (Existing Irrigation Lateral) AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 18"-24" BEHIND CURBS, SIDEWALKS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. REMOVED ROUTING OF CONCRETE OUTPUT. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND REPRESENTED AS INTO CERNA OR VALVE. DO NOT PLACE VALVE BOXES WITHIN MEDIUM WORK. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERAL SERVICE LINES IN MEDIANS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMUNICATION WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGES IN DIRECTION.
8. PLACE CLOCK COVERING VENTS 180° O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL POTS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OWNER.
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVICE THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 6	¾"	0 - 4
1"	6 - 12	1"	5 - 8
1-1/4"	13 - 16	1-1/4"	9 - 15
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 46

DIG ALERT
TOLL FREE
1-800-227-2600

Russell-Eaton Group
LANDSCAPE ARCHITECTURE DESIGN
SUITE 200
1000 BROADWAY LANE
OAKLAND, CA 94612
(510) 645-0704
EMAIL - russelleatongroup@yahoo.com

SCALE: 1"=10'

Lifescapes International, Inc.
4020 Campus Drive
Newport Beach, California 92660
Phone (949) 475-1900 Fax (949) 475-1901
Website: www.lifescapesinc.com

THE DRAWING AND ALL OF THE INFORMATION ON THIS MAP IS THE PROPERTY OF LIFESCAPES INTERNATIONAL, INC. AND MUST BE RETURNED UPON REQUEST.

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OWNER:
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HOLLYWOOD, FLORIDA 33019

SEAL:

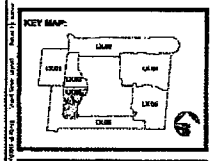
ISSUED FOR: 75% CONSTRUCTION
DATE: 11/13/2011

REVISIONS:

No.	DATE	REMARKS

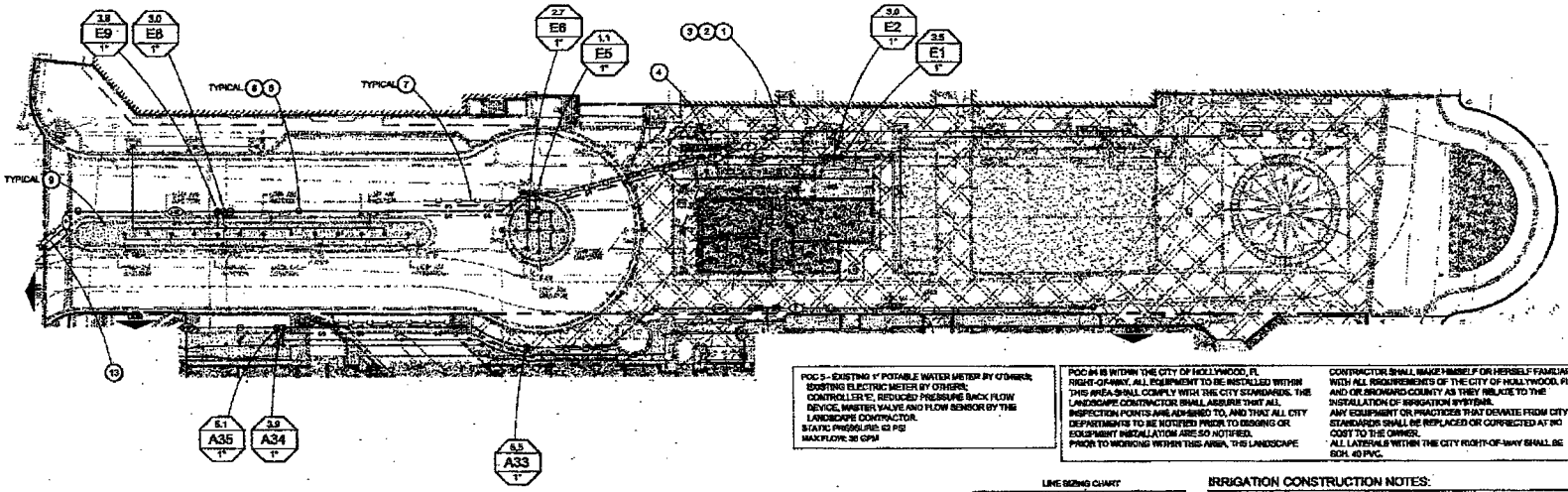
SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - TREES

KEY MAP:



DATE: 10/17/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
REVIEWED BY: DA
JOB NO.: 10046

SHEET NO.:
L8.03



POC 5 - EXISTING 1" POTABLE WATER METER BY OTHERS;
EXISTING ELECTRIC METER BY OTHERS;
CONTROLLER 'E', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 30 GPM

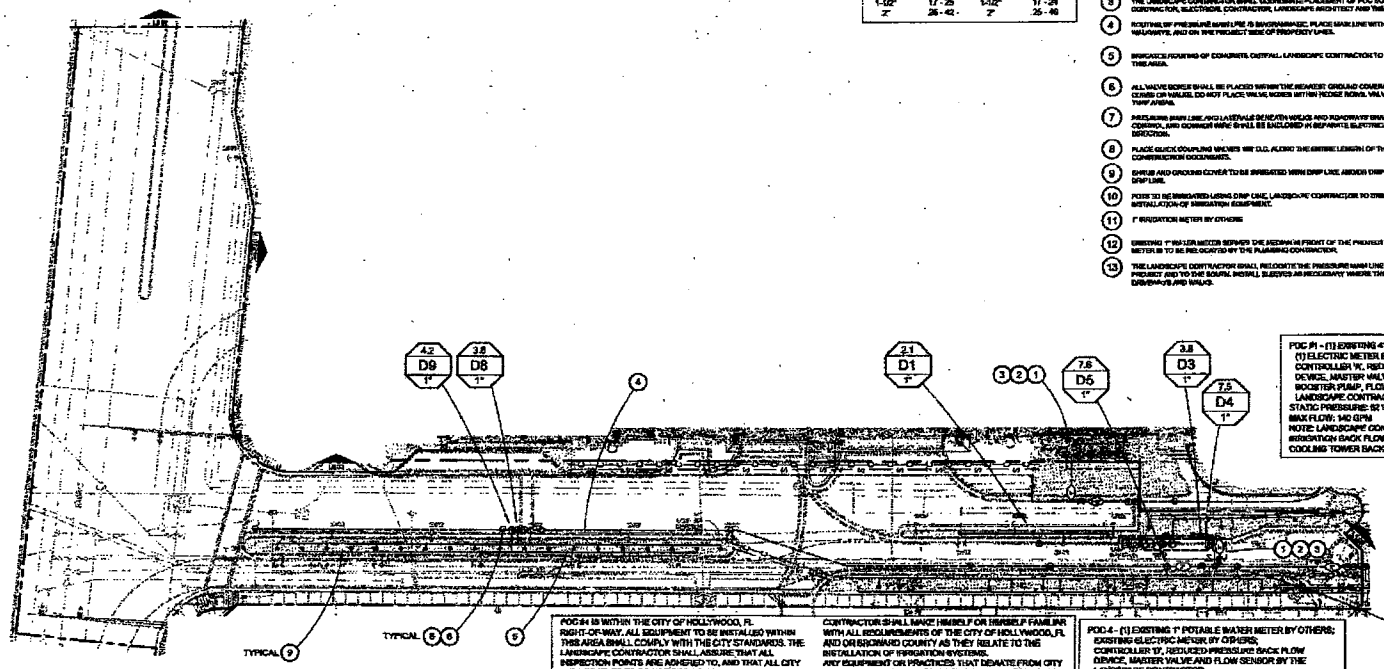
POC #4 IS WITHIN THE CITY OF HOLLYWOOD, FL RIGHT-OF-WAY. ALL EQUIPMENT TO BE INSTALLED WITHIN THIS AREA SHALL COMPLY WITH THE CITY STANDARDS. THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT ALL INSPECTION POINTS ARE ADHERED TO, AND THAT ALL CITY DEPARTMENTS TO BE NOTIFIED PRIOR TO DIGGING OR EQUIPMENT INSTALLATION ARE SO NOTIFIED.
PRIOR TO WORKING WITHIN THIS AREA, THE LANDSCAPE CONTRACTOR SHALL MAKE HIMSELF OR HERSELF FAMILIAR WITH ALL REQUIREMENTS OF THE CITY OF HOLLYWOOD, FL AND OR BROWARD COUNTY AS THEY RELATE TO THE INSTALLATION OF IRRIGATION SYSTEMS.
ANY EQUIPMENT OR PRACTICES THAT DEVIATE FROM CITY STANDARDS SHALL BE REPLACED OR CORRECTED AT NO COST TO THE OWNER.
ALL LATERALS WITHIN THE CITY RIGHT-OF-WAY SHALL BE SCH. 40 PVC.

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 8	¾"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 16	1-1/4"	9 - 16
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 40

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE TO BARGAINMANSE, PLACE MAIN LINE WITHIN PLANTERS, 18"+/- BEHIND CURBS, SIDEWALKS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. IRRIGATION ROUTING OF COMPONENTS OUTFALL. LANDSCAPE CONTRACTOR TO USE MINIMUM CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND PERPENDICULAR WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. BUILDING DRIP LINE AND LATERAL LINE DENOTED WITHIN AND ROADWAY SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGES IN DIRECTION.
8. PLACE QUICK COUPLING VALVES 18" O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE, AROUND DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO STALL POTS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OTHERS
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVING THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.



POC #1 - (1) EXISTING 4" POTABLE WATER METER BY OTHERS;
(1) ELECTRIC METER BY OTHERS;
CONTROLLER 'K', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE, FERTILIZER INJECTION SYSTEM, BOOSTER PUMP, FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 52 PSI - BOOSTED PRESSURE: 72 PSI
MAX FLOW: 140 GPM
NOTE: LANDSCAPE CONTRACTOR TO CONNECT THE IRRIGATION BACK FLOW AFTER THE EXISTING 4" POOL AND COOLING TOWER BACK FLOW BY OTHERS.

POC #4 IS WITHIN THE CITY OF HOLLYWOOD, FL RIGHT-OF-WAY. ALL EQUIPMENT TO BE INSTALLED WITHIN THIS AREA SHALL COMPLY WITH THE CITY STANDARDS. THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT ALL INSPECTION POINTS ARE ADHERED TO, AND THAT ALL CITY DEPARTMENTS TO BE NOTIFIED PRIOR TO DIGGING OR EQUIPMENT INSTALLATION ARE SO NOTIFIED.
PRIOR TO WORKING WITHIN THIS AREA, THE LANDSCAPE CONTRACTOR SHALL MAKE HIMSELF OR HERSELF FAMILIAR WITH ALL REQUIREMENTS OF THE CITY OF HOLLYWOOD, FL AND OR BROWARD COUNTY AS THEY RELATE TO THE INSTALLATION OF IRRIGATION SYSTEMS.
ANY EQUIPMENT OR PRACTICES THAT DEVIATE FROM CITY STANDARDS SHALL BE REPLACED OR CORRECTED AT NO COST TO THE OWNER.
ALL LATERALS WITHIN THE CITY RIGHT-OF-WAY SHALL BE SCH. 40 PVC.

POC 4 - (1) EXISTING 1" POTABLE WATER METER BY OTHERS;
EXISTING ELECTRIC METER BY OTHERS;
CONTROLLER 'D', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 30 GPM

DIG ALERT
CALL FREE
1-800-227-2600

SCALE: 1"=20'

Russell-Reton Group
LANDSCAPE IRRIGATION DESIGN SINCE 1982
5840 SOUTHWOOD LANE
DAVIE/FT. LAUDERDALE, FL 33314
(954) 581-9724
Email: - russellretongroup@gmail.com

Lifescapes International, Inc.
4000 Cypress Drive
Hollywood, California 33021
Phone: (954) 967-0000 Fax: (954) 967-0001
Website: www.lifescapesinc.com

"We maintain 100% of the commitment to our clients"

PROJECT DESIGN TEAM:
ARCHITECTS:
ARCHONE GROUP ARCHITECTS
[illegible]
LANDSCAPE ARCHITECT
[illegible]
CREATIVE DESIGNER
PAT SCONICO, CO.
[illegible]
M.E.P. ENGINEER
TWM ENGINEERS
[illegible]
STRUCTURAL ENGINEER
TRI WORLDWIDE ENGINEERING
[illegible]
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.
[illegible]

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
2001 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

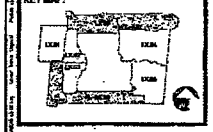
ISSUED FOR: 75% CONSTRUCTION
DATE: 10/17/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - TRIMS

KEY MAP:

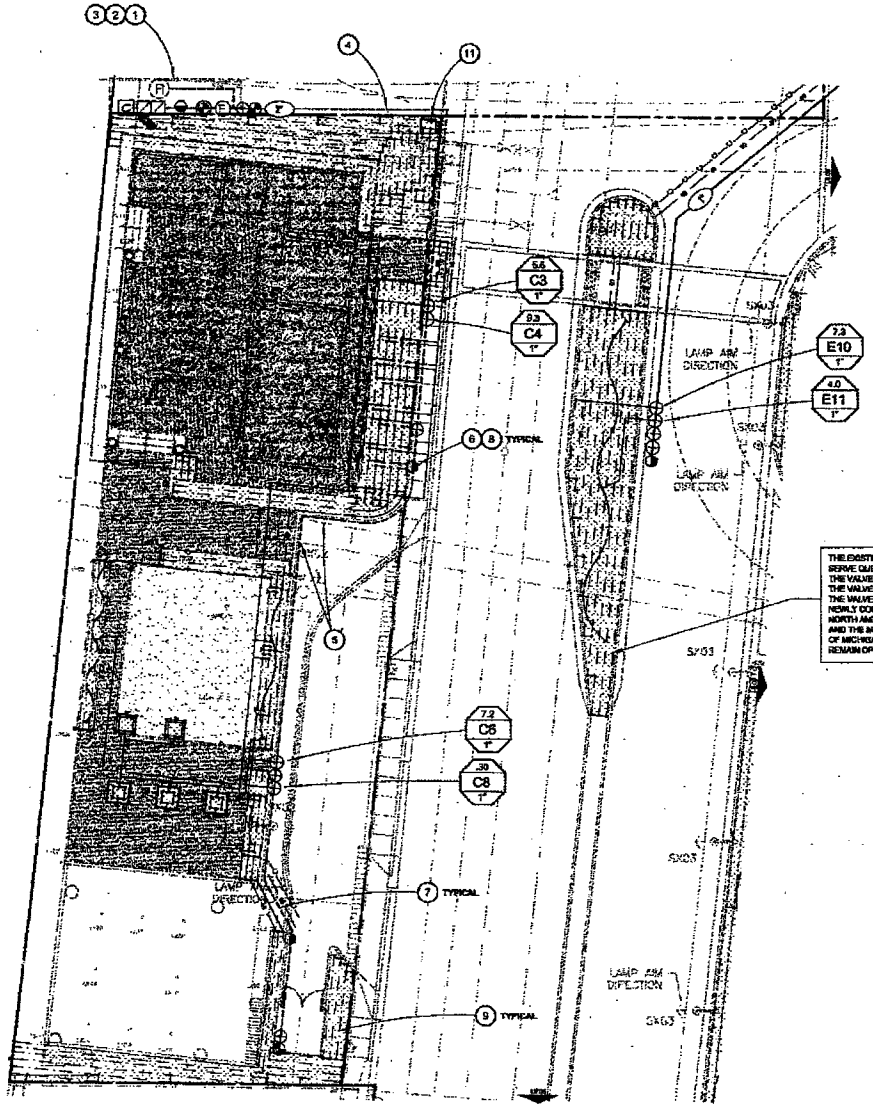


DATE: 10/17/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 18048

SHEET NO.:
L8.06

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TAP IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 12" to BEHIND CURBS WHERE, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. IRRIGATION ROUTING OF CONCRETE OUTFALL. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND PERPENDICULAR WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN MEDIAN SODS. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERALS BENEATH WALKS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN REPRIMATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGING IN DIRECTION.
8. PLACE DRIPLINE/MICRO WALKER 18" O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUBS AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL POTS AND MAKE INSTALLATION AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OTHERS.
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVING THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.



THE EXISTING MEDIAN IS TO BE RECONFIGURED. PRESENTLY (2) VALVES SERVE QUEEN PALMS ON THE EAST SIDE, AND LANDSCAPE ON THE WEST SIDE OF A1A. THE VALVES ARE CONTROLLED BY A BATTERY OPERATED CONTROLLER LOCATED AT THE VALVES.
THE VALVES, BACK FLOW DEVICE AND MAIN LINE ARE TO BE RELOCATED WITHIN THE NEWLY CONFIGURED MEDIAN. CUT AND CAP EXISTING LATERALS CROSSING THE NORTH AND SOUTH BOUND LANES OF A1A. THE EXISTING POC FOR THESE VALVES, AND THE MEDIAN TO THE SOUTH IS A METER LOCATED ON THE NORTH-EAST CORNER OF MICHIGAN STREET AND A1A - SEE SHEET L9.01. THE VALVES AND METER ARE TO REMAIN OPERATIONAL.

Russell-Retan Group
LANDSCAPE IRRIGATION DESIGN
SINCE 1989
[illegible] LANE
[illegible], 04 33441
(954) 441-5254
[illegible]

DIG ALERT
TOLL FREE
1-800-227-2600
[illegible]

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
3/4"	8 - 6	3/4"	6 - 4
1"	8 - 12	1"	5 - 8
1-1/4"	12 - 19	1-1/4"	8 - 15
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 48

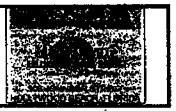
POC 2 - (1) EXISTING 1" POTABLE WATER METER BY OTHERS; CONTROLLER "C", REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR, AND FERTILIZER INJECTION SYSTEM BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 38 GPM

SCALE: 1"=10'

Lifescapes International, Inc.
[illegible]

PROJECT DESIGN TEAM:
ARCHITECTS
ARCHITECTS GROUP ARCHITECTS
[illegible]
CREATIVE DESIGNER
PKF MOSERING CO.
[illegible]
M.E.P. ENGINEER
TWR ENGINEERS
[illegible]
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
[illegible]
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.
[illegible]

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019



SEAL:

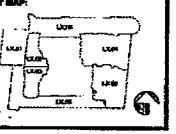
ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - SHRUBS

KEY MAP:

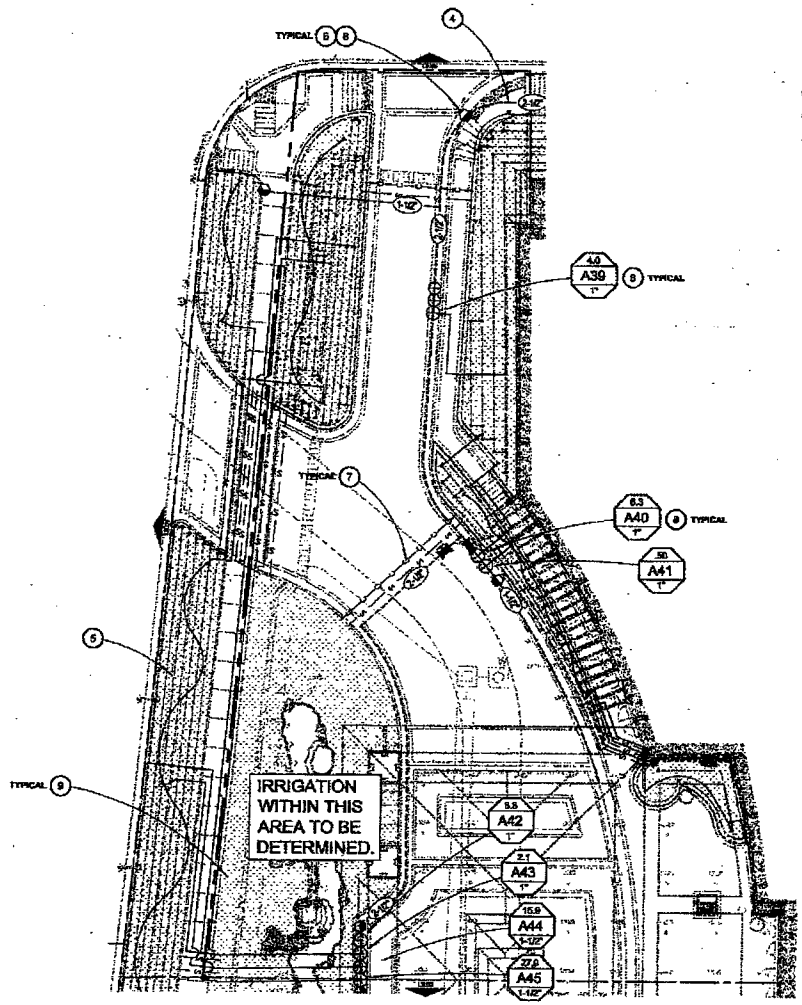


DATE: 11/15/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L9.01

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNERS AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, BETWEEN CURBS, SIDEWALKS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. AVOID ROUTING OF CONCRETE OUTFALL. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST DESIGNED COMMON PLANT AREA AND TERMINATED ALWITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERALS BENEATH WALKS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGES IN DIRECTION.
8. PLACE GATE OR FLUSH VALVES 100' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL POTS AND HAND WATER WEEKLY AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OWNER.
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE SERVING THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL FITTINGS AS NECESSARY WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.



LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 6	¾"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 16	1-1/4"	9 - 16
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 40

DIG ALERT TOLL FREE 1-800-227-2600

Russell-Retan Group

SCALE: 1"=10'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ADAG GROUP ARCHITECTS

CREATIVE DESIGNER
PHT MORRIS CO.

M.E.P. ENGINEER
TVS ENGINEERS

STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING

CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
2301 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

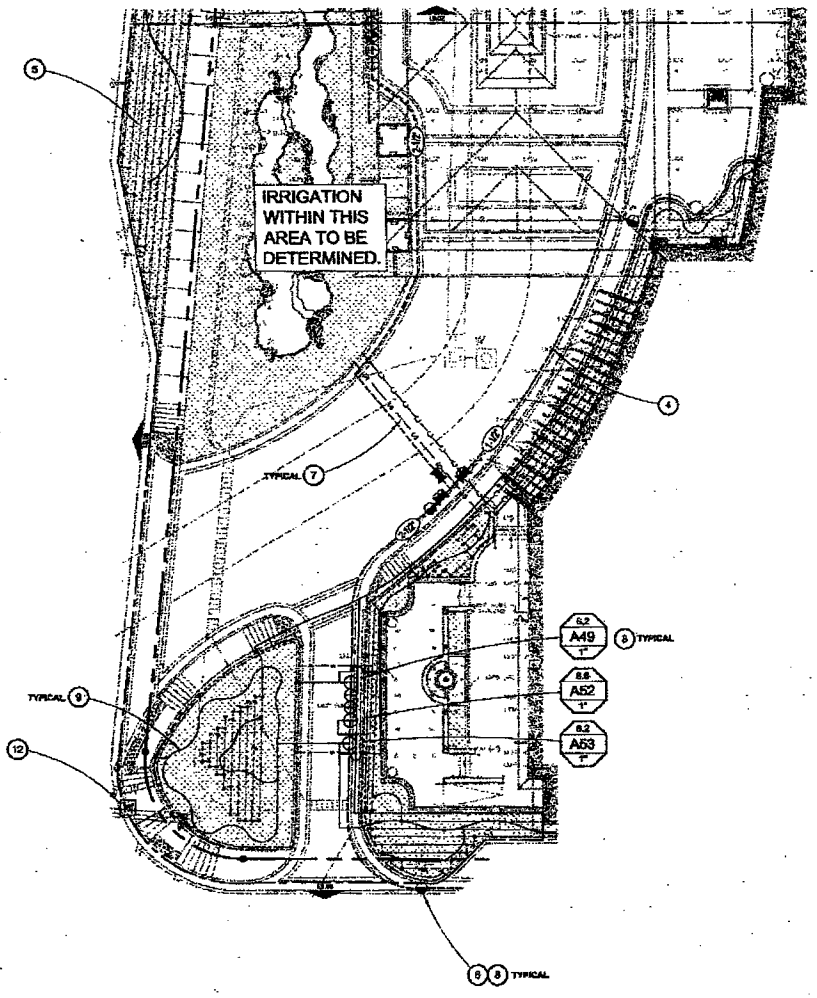
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - SHRUBS

KEY MAP:

DATE: 10/17/11
SCALE: 1"=10'-0"
DRAWN BY: LRR
CHECKED BY: RRG
JOB NO.: 10948

SHEET NO.:
L9.02



IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 18" W. BEHIND CURBS, WALKWAYS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. INDICATES ROWSIRE OF CONCRETE OUTFALL. LANDSCAPE CONTRACTOR TO USE EXTREME CARE WHEN TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND PERPENDICULAR WITH CURBS OR WALKS. DO NOT PLACE VALVE BOXES WITHIN HEDGE ROWS. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERALS BENEATH WALKS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN SEPARATE ELECTRICAL CONDUIT WITH SWEEPS AT CHANGE IN DIRECTION.
8. PLACE QUICK COUPLING VALVES 100' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE ONLY AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. POTS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL POTS AND MAKE WATER TIGHT AFTER INSTALLATION OF IRRIGATION SYSTEM.
11. 1" IRRIGATION METER BY OTHERS.
12. EXISTING 1" WATER METER SERVES THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE BEHIND THE MEDIAN IN FRONT OF THE PROJECT AND TO THE EAST. INSTALL SLEEVING AS NECESSARY. MAKE THE PRESSURE MAIN LINE TIGHT AND RUN BENEATH DRIVEWAYS AND WALKS.

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 9	¾"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 16	1-1/4"	8 - 10
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 46

DIG ALERT TOLL FREE 1-800-227-2600

Russell-Reton Group

SCALE: 1"=10'

Landscapes International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
APACHE GROUP ARCHITECTS

CREATIVE DESIGNER
PAT MCBRIDE CO.

M.E.P. ENGINEER
TWR ENGINEERS

STRUCTURAL ENGINEER
THE WORLD WIDE ENGINEERING

CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/16/2011

REVISIONS:

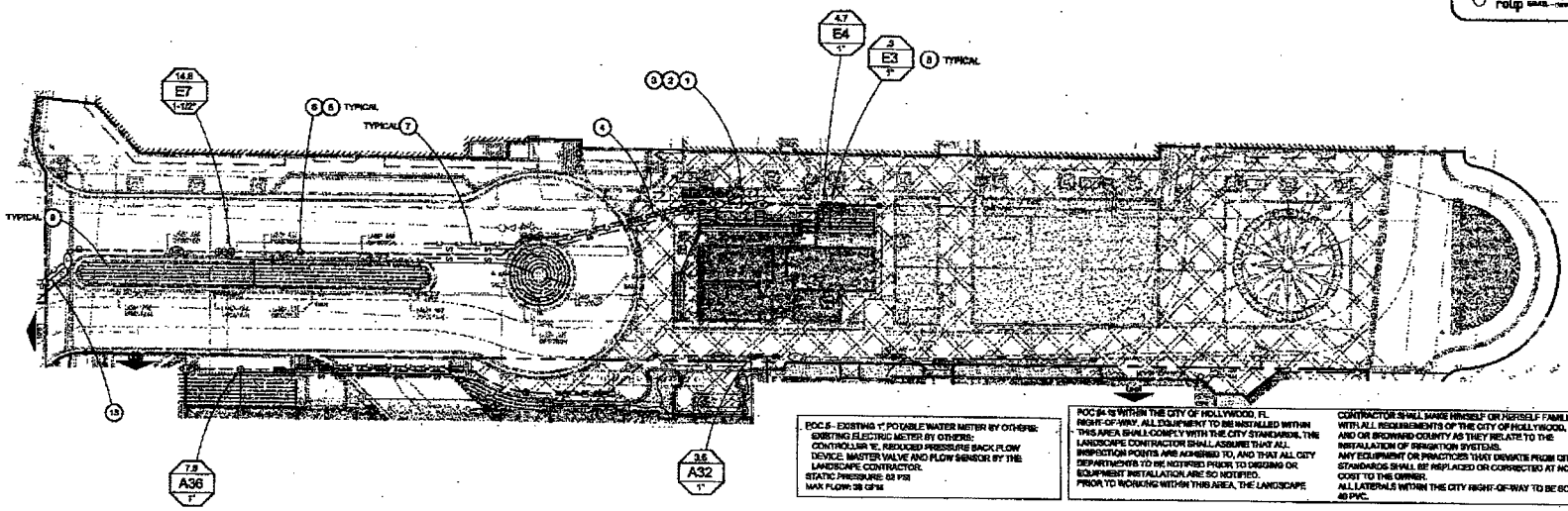
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - SHRUBS

KEY MAP:

DATE: 10/17/11
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L9.03



POC 5 - EXISTING 1" POTABLE WATER METER BY OTHERS:
EXISTING ELECTRIC METER BY OTHERS:
CONTROLLER 'E', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 38 GPM

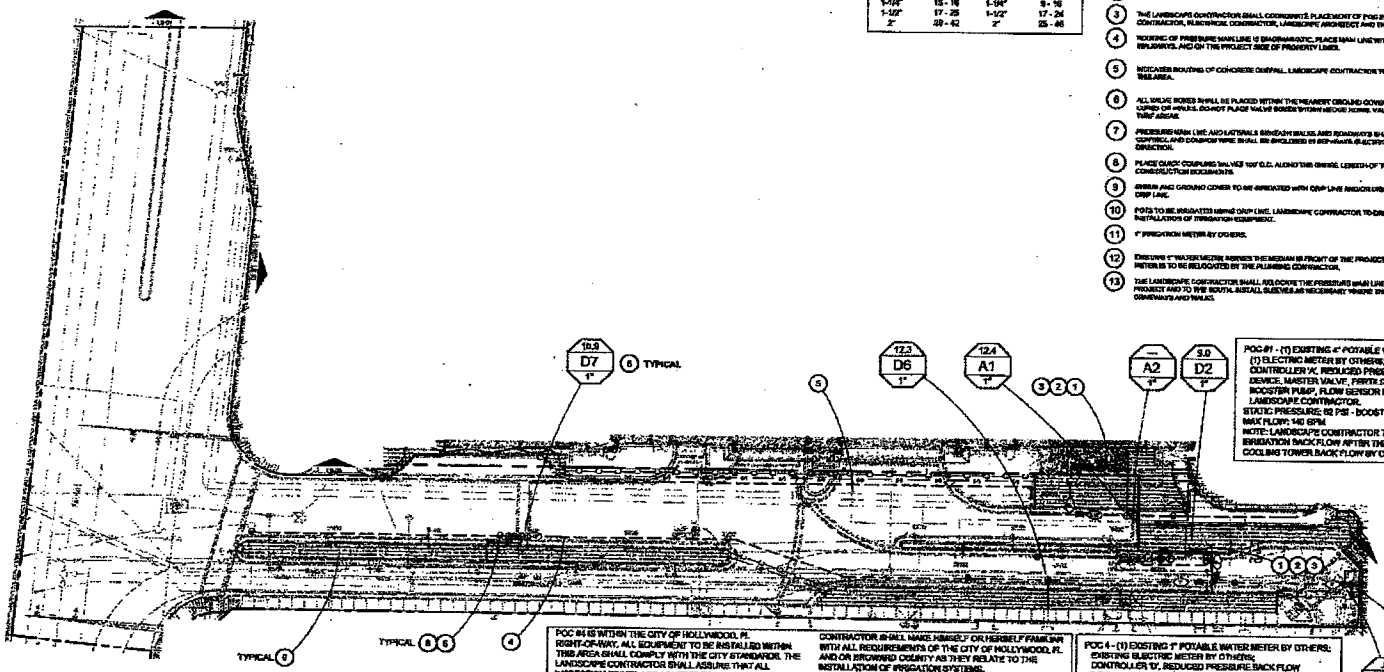
POC #4 IS WITHIN THE CITY OF HOLLYWOOD, FL RIGHT-OF-WAY. ALL EQUIPMENT TO BE INSTALLED WITHIN THIS AREA SHALL COMPLY WITH THE CITY STANDARDS. THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT ALL INSPECTION POINTS ARE ADHERED TO, AND THAT ALL CITY DEPARTMENTS TO BE NOTIFIED PRIOR TO DIGGING OR EQUIPMENT INSTALLATION ARE SO NOTIFIED. PRIOR TO WORKING WITHIN THIS AREA, THE LANDSCAPE CONTRACTOR SHALL MAKE HIMSELF OR HERSELF FAMILIAR WITH ALL REQUIREMENTS OF THE CITY OF HOLLYWOOD, FL AND OR BROWARD COUNTY AS THEY RELATE TO THE INSTALLATION OF IRRIGATION SYSTEMS. ANY EQUIPMENT OR PRACTICES THAT DEVIATE FROM CITY STANDARDS SHALL BE REPLACED OR CORRECTED AT NO COST TO THE OWNER. ALL LATERALS WITHIN THE CITY RIGHT-OF-WAY TO BE SCH. 40 PVC.

LINE SIZING CHART

CLASS 200 PVC		SCHEDULE 40 PVC	
SIZE	GPM	SIZE	GPM
¾"	0 - 8	¾"	0 - 4
1"	9 - 12	1"	5 - 8
1-1/4"	13 - 18	1-1/4"	9 - 16
1-1/2"	17 - 25	1-1/2"	17 - 24
2"	26 - 42	2"	25 - 46

IRRIGATION CONSTRUCTION NOTES:

1. POINT OF CONNECTION. SEE POC NOTES THIS SHEET.
2. LANDSCAPE CONTRACTOR TO LOCATE EXISTING WATER METER AND TIE IN WITH NEW PVC MAIN LINE.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE PLACEMENT OF POC EQUIPMENT WITH THE PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND ENG DRAWINGS AUTHORIZED REPRESENTATIVE.
4. ROUTING OF PRESSURE MAIN LINE IS DIAGRAMMATIC. PLACE MAIN LINE WITHIN PLANTERS, 18"+- BEHIND CURBS, SIDEWALKS, AND ON THE PROJECT SIDE OF PROPERTY LINES.
5. INDICATES ROUTING OF CONCRETE OVERPASS. LANDSCAPE CONTRACTOR TO USE EXISTING OVER PASS TRENCHING IN THIS AREA.
6. ALL VALVE BOXES SHALL BE PLACED WITHIN THE NEAREST GROUND COVER/SHRUB AREA AND PERPENDICULAR WITH CURBS OR HOUSE. DO NOT PLACE VALVE BOXES WITHIN MEDIUM SIZE SHRUB. VALVE BOXES SHALL NOT BE PLACED WITHIN TURF AREAS.
7. PRESSURE MAIN LINE AND LATERALS BENEATH WALKS AND ROADWAYS SHALL BE ENCLOSED IN SCH. 40 PVC SLEEVES. CONTROL AND COMMON WIRE SHALL BE ENCLOSED IN REF-WALK @ ELECTRICAL CONDUIT WITH SWEEPS AT CHANGES IN DIRECTION.
8. PLACE QUICK COUPLING VALVES 100' O.C. ALONG THE ENTIRE LENGTH OF THE MAIN LINE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. SHRUB AND GROUND COVER TO BE IRRIGATED WITH DRIP LINE AND/OR DRIP EMITTERS. TREES TO BE IRRIGATED WITH DRIP LINE.
10. PATS TO BE IRRIGATED USING DRIP LINE. LANDSCAPE CONTRACTOR TO DRILL PATS AND MARK WATER TIGHT AFTER INSTALLATION OF IRRIGATION EQUIPMENT.
11. 1" IRRIGATION METER BY OTHERS.
12. EXISTING 1" WATER METER BEHIND THE MEDIAN IN FRONT OF THE PROJECT AND THE MEDIAN TO THE SOUTH. THIS METER IS TO BE RELOCATED BY THE PLUMBING CONTRACTOR.
13. THE LANDSCAPE CONTRACTOR SHALL RELOCATE THE PRESSURE MAIN LINE BEHIND THE MEDIAN IN FRONT OF THE PROJECT AND TO THE SOUTH. INSTALL SLEEVES AS NECESSARY. WHERE THE PRESSURE MAIN LINE WILL RUN BENEATH DRIVEWAYS AND WALKS.



POC #1 - (1) EXISTING 4" POTABLE WATER METER BY OTHERS;
(1) ELECTRIC METER BY OTHERS;
CONTROLLER 'A', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE, FIRITH DRIN AUECTION SYSTEM, BOOSTER PUMP, FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI - BOOSTED PRESSURE: 72 PSI
MAX FLOW: 140 GPM
NOTE: LANDSCAPE CONTRACTOR TO CONNECT THE IRRIGATION BACKFLOW AFTER THE EXISTING 4" POOL AND COOLING TOWER BACKFLOW BY OTHERS.

POC #4 IS WITHIN THE CITY OF HOLLYWOOD, FL RIGHT-OF-WAY. ALL EQUIPMENT TO BE INSTALLED WITHIN THIS AREA SHALL COMPLY WITH THE CITY STANDARDS. THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT ALL INSPECTION POINTS ARE ADHERED TO, AND THAT ALL CITY DEPARTMENTS TO BE NOTIFIED PRIOR TO DIGGING OR EQUIPMENT INSTALLATION ARE SO NOTIFIED. PRIOR TO WORKING WITHIN THIS AREA, THE LANDSCAPE CONTRACTOR SHALL MAKE HIMSELF OR HERSELF FAMILIAR WITH ALL REQUIREMENTS OF THE CITY OF HOLLYWOOD, FL AND OR BROWARD COUNTY AS THEY RELATE TO THE INSTALLATION OF IRRIGATION SYSTEMS. ANY EQUIPMENT OR PRACTICES THAT DEVIATE FROM CITY STANDARDS SHALL BE REPLACED OR CORRECTED AT NO COST TO THE OWNER. ALL LATERALS WITHIN THE CITY RIGHT-OF-WAY TO BE SCH. 40 PVC.

POC 4 - (1) EXISTING 1" POTABLE WATER METER BY OTHERS;
EXISTING ELECTRIC METER BY OTHERS;
CONTROLLER 'D', REDUCED PRESSURE BACK FLOW DEVICE, MASTER VALVE AND FLOW SENSOR BY THE LANDSCAPE CONTRACTOR.
STATIC PRESSURE: 62 PSI
MAX FLOW: 38 GPM

DIG ALERT
TOLL FREE
1-800-432-4770

SCALE: 1"=20'

Russell-Reton Group
LANDSCAPE IRRIGATION DESIGN SINCE 1984
10745 SOVEREIGN LANE
DAVIE/WEST, CA 92644
(949) 440-5784
EMAIL: russellretongroup@yahoo.com

Lifescape International, Inc.
4000 Cypress Grove
Pompano Beach, Florida 33069
Phone (954) 979-9000 Fax (954) 979-9004
www.lifescapeinternational.com

PROJECT DESIGN TEAM:
ARCHITECTS
ADMORE GROUP ARCHITECTS
CREATIVE DESIGNER
PAT NORRIS CO.
M.E.P. ENGINEER
TKR ENGINEERS
STRUCTURAL ENGINEER
WG WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3101 SL OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

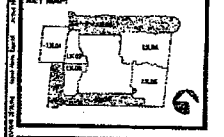
ISSUED FOR: 70% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

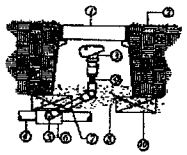
SHEET TITLE:
LANDSCAPE - LEVEL 01
IRRIGATION PLAN - SHRUBS

KEY MAP:

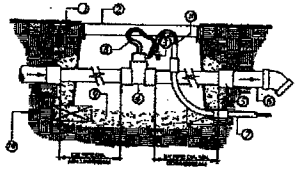


DATE: 10/17/11
SCALE: 1"=10'-0"
DRAWN BY: MM
CHECKED BY: PA
JOB NO.: 10046

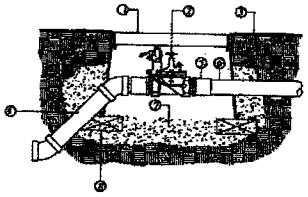
SHEET NO.:
L9.06



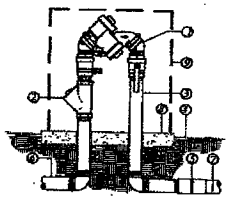
QUICK COUPLING VALVE — SCALE: NONE — D



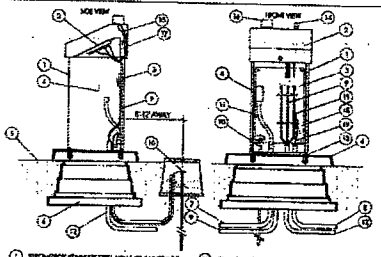
FLOW SENSOR — SCALE: NONE — C



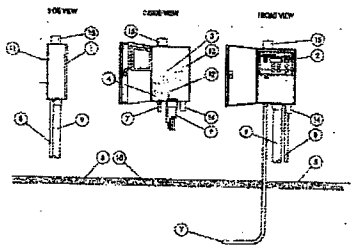
MASTER VALVE — SCALE: NONE — B



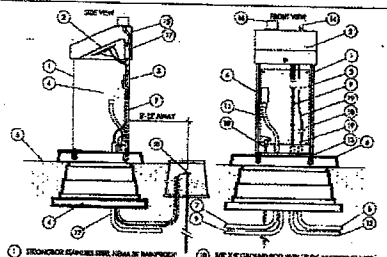
BACK FLOW DEVICE — SCALE: NONE — A



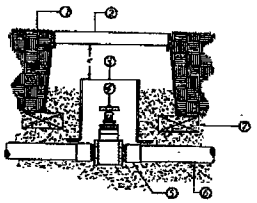
CONTROLLER (CONTROLLERS 'D' - BOAT DOCK) — SCALE: NONE — H



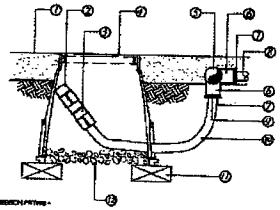
CONTROLLER (CONTROLLER 'B' - POOL DECK) — SCALE: NONE — G



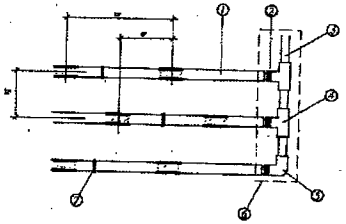
CONTROLLER (CONTROLLER 'A' - SITE SPECIFIC) — SCALE: NONE — F



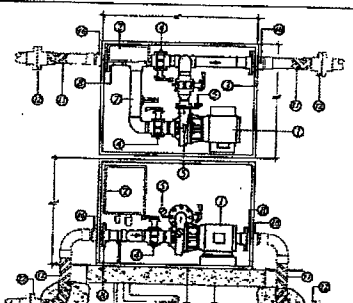
ISOLATION VALVE — SCALE: NONE — E



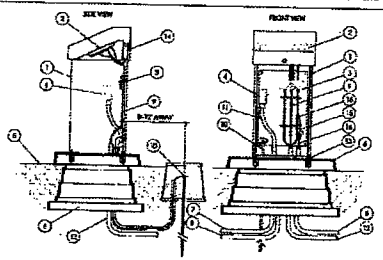
FLUSH ASSEMBLY — SCALE: NONE — L



DRIPLINE FITTINGS — SCALE: NONE — K



BOOSTER PUMP (SITE SPECIFIC) — SCALE: NONE — J



CONTROLLER (CONTROLLERS 'C' AND 'D' RAIN BIRD - JOHNSON AND MICHIGAN STREETS) — SCALE: NONE — I

L.Mancuso International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ADACHI GROUP ARCHITECTS

CREATIVE DESIGNER
PATWORKS CO.

M.E.P. ENGINEER
TVR ENGINEERS

STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING

CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER: MARIANTAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/12/2011

REVISIONS:

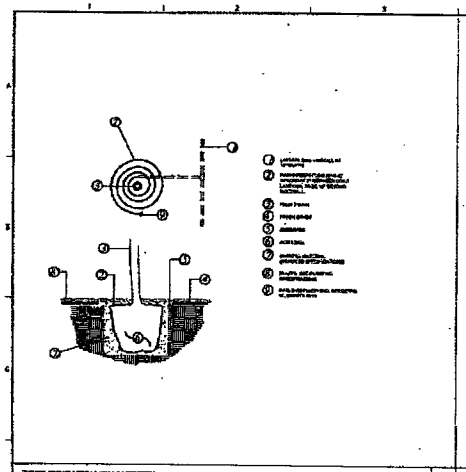
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
IRRIGATION DETAILS

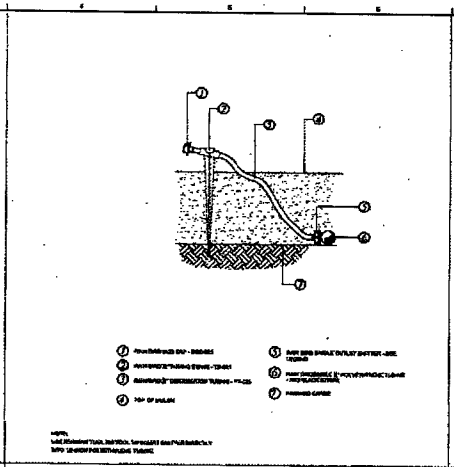
KEY MAP:

DATE: 10/27/11
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

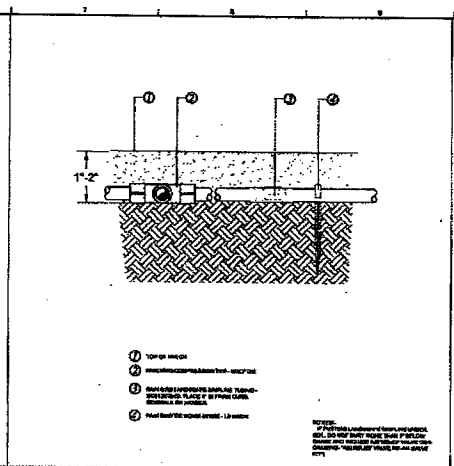
SHEET NO.:
L10.01



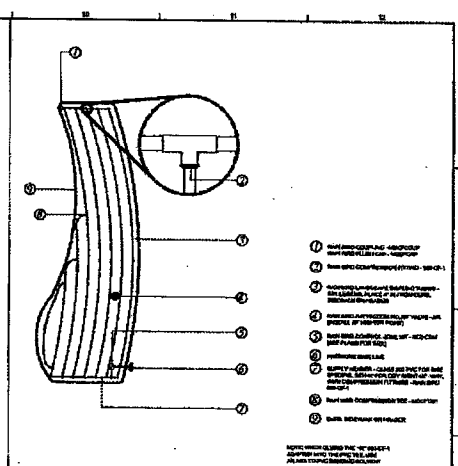
TREE IRRIGATION (PALM TREES) — SCALE: NONE — P



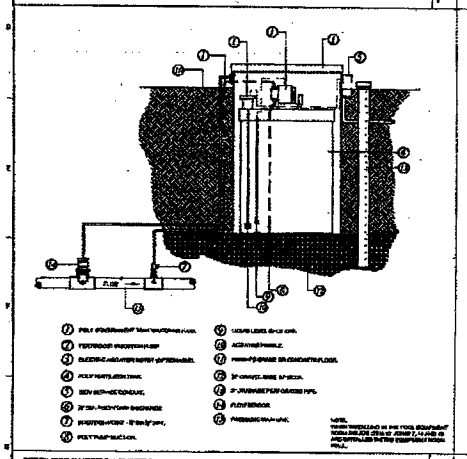
POLYETHYLENE TUBING WITH EMITTERS — SCALE: NONE — O



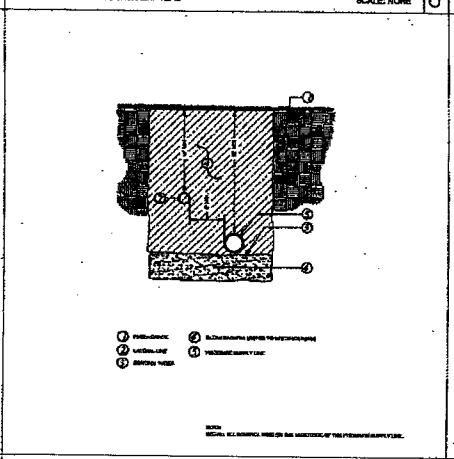
DRIPLINE ON-GRADE — SCALE: NONE — N



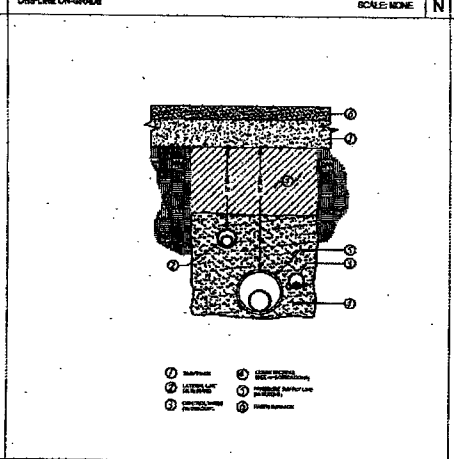
DRIP LINE — SCALE: NONE — M



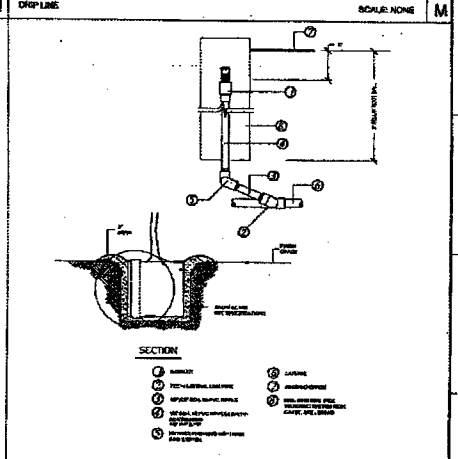
FERTILIZER INJECTION SYSTEM — SCALE: NONE — T



LATERAL AND MAIN LINE — SCALE: NONE — S

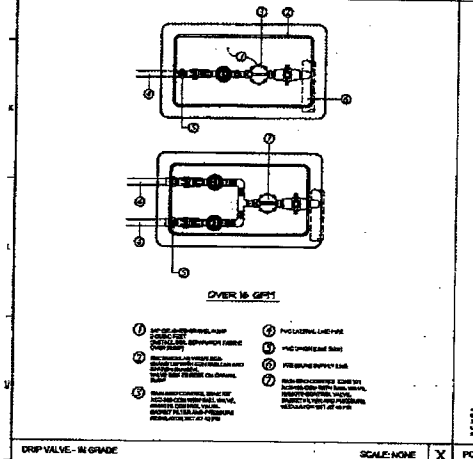


SLEEVES AND CONDUIT — SCALE: NONE — R



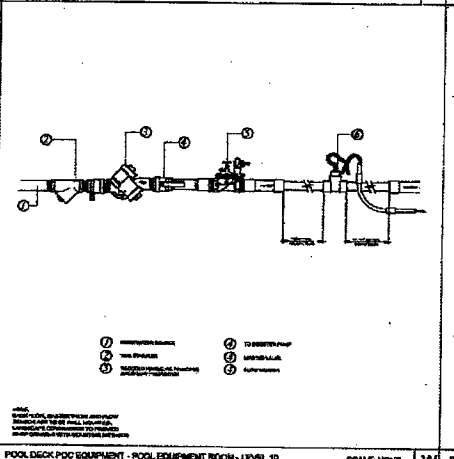
SECTION

TREE IRRIGATION (OTHER THAN PALMS) — SCALE: NONE — Q

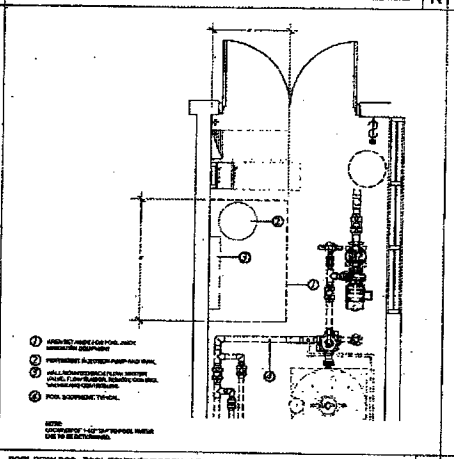


OVER 16 GPH

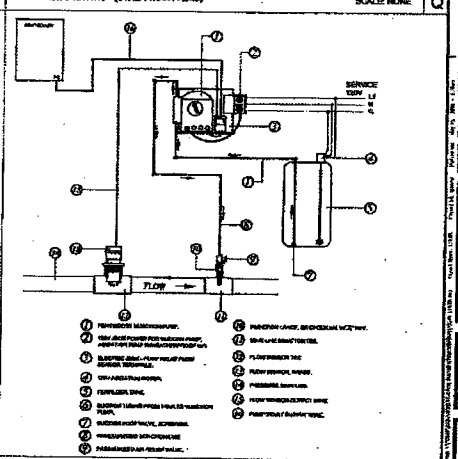
DRIP VALVE - IN GRADE — SCALE: NONE — X



POOL DECK POC EQUIPMENT - POOL EQUIPMENT ROOM - LEVEL 10 — SCALE: NONE — W



POOL DECK POC - POOL EQUIPMENT ROOM - LEVEL 10 — SCALE: NONE — V



LIS SYSTEM DETAIL — SCALE: NONE — U

Landscape International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ADACHE GROUP ARCHITECTS

CREATIVE DESIGNER
PAT MONROE CO.

M.E.P. ENGINEER
Tom Engineering

STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING

CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
IRRIGATION DETAILS

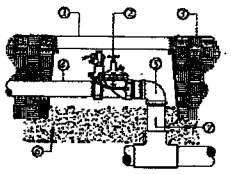
KEY SHAP:

DATE: 10/7/11
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L10.02

SCALE: NONE

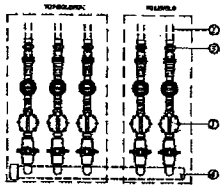
SCALE: NONE



REMOTE CONTROL VALVE

SCALE: NONE

Z



DRIP VALVE - POOL EQUIPMENT ROOM

SCALE: NONE

Y

SCALE: NONE

SCALE: NONE

SCALE: NONE

SCALE: NONE

Lifescape International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ARCHITECT GROUP ARCHITECTS

CREATIVE DESIGNER
PAT MCBRIDE CO.

M.E.P. ENGINEER
TWN ENGINEERS

STRUCTURAL ENGINEER
TWC WORLDWIDE ENGINEERING

CIVIL ENGINEER
COMPUTING ENGINEERING & SCIENCE, INC

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3801 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

HOLLYWOOD BEACH, FLORIDA

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

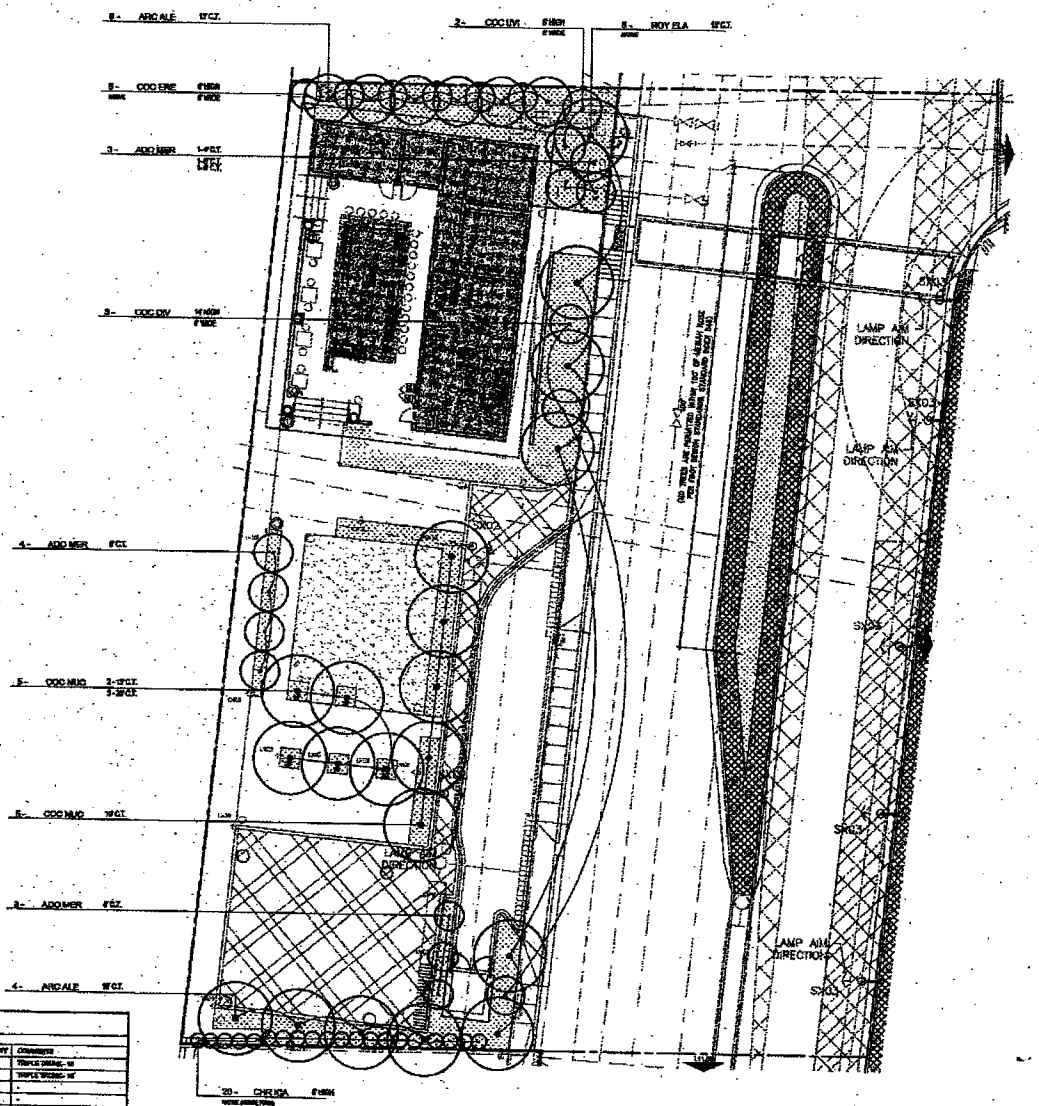
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
IRRIGATION DETAILS

KEY MAP:

DATE: 10/17/11
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L10.03



TREE LEGEND

NOTE	SYM.	BOTANICAL NAME	COMMON NAME	SIZE HEIGHT	SIZE WIDTH	QUANTITY	COMMENTS
NO	ADO MER	ADONIDIA MERRILLII	CHRISTMAS PALM	10' C.T.	-	7	TRIPLE TRUNK - 10'
NO	ADO MER	ADONIDIA MERRILLII	CHRISTMAS PALM	8' C.T.	-	7	TRIPLE TRUNK - 10'
NO	ADO MER	ADONIDIA MERRILLII	CHRISTMAS PALM	8' C.T.	-	3	-
NO	ARC ALE	ARCHIMIRIPHOEBE ALEXANDRAE	ALEXANDER PALM	10' C.T.	-	10	-
YES	CHEUCA	CHAMEROPS HUMILIS EUROPA	DWARF FAN PALM	8'	-	20	-
YES	COC DIV	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	14'	8'	6	MATCHED
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	10' C.T.	-	5	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	10' C.T.	-	3	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	20' C.T.	-	3	-
YES	COC LIV	COCCOLOBA LIVIDA	SEA GRAPE	8'	6'	4	LIMBED UP
YES	COC ERE	CLUSIA ROSEA PARVIFOLIA	WALSH SAY WOOD	8'	6'	5	-
YES	HOY ELA	SCHEFFLERA ELEGANTISSIMA	FLORIDA RED OTIL PACH	10' C.T.	-	6	-

NOTICE:
1. MINIMUM 65% OF TREES TO BE FLORIDA GRADE #1 FLORIDA #1 OR BETTER
2. TREE DIMENSIONS ARE SUBJECT TO OWNER & VENDOR AVAILABILITY
3. MAINTAINED AT THE LEGEND ARE FOR REFERENCE ONLY.
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO FINAL BID.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 546, TABLE C, ITEM 6
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTE:
1. REFER TO SHEET L1.02 FOR TREE PLANTING.
2. LANDSCAPE CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF ALL PLANT MATERIAL FOR REVIEW/APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE.
3. REFER TO IRRIGATION CONSULTANTS DRAWINGS
4. ALL COCONUT PALMS SHOWN EAST OF THE CCCL ARE EXISTING AND WILL REMAIN ON SITE.
5. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 546.

RECEIVED

SCALE 1"=20'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS:
ARACHE GROUP ARCHITECTS
CIVIL ENGINEER
PAZ ASSOCIATES CO.
M.E.P. ENGINEER
TWG ENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARRIOTTSVILLE HOLLYWOOD BEACH RESORT, LLC.
3001 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

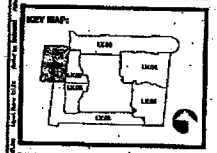
ISSUED FOR: 75% CONSTRUCTION
DATE: 11/12/2011

REVISIONS:

No.	DATE	REMARKS

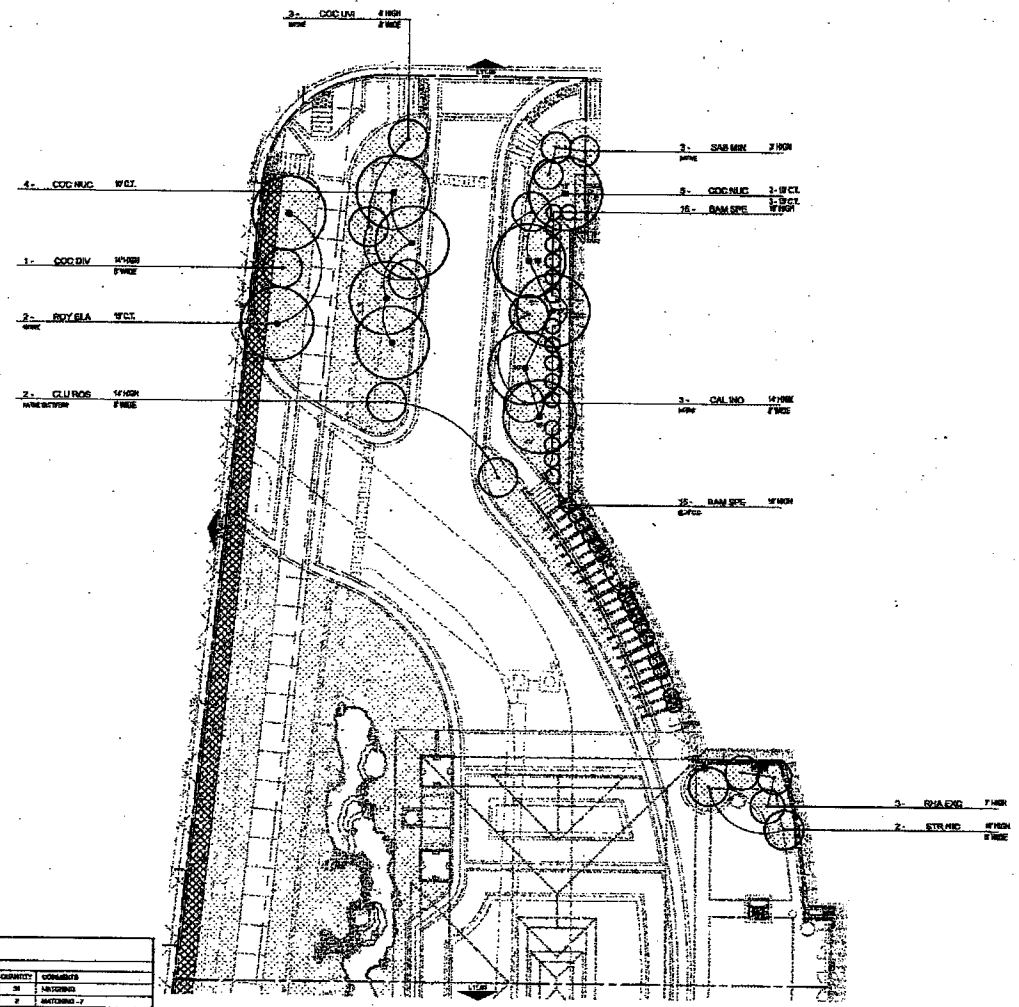
SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - TREES

KEY MAP:



DATE: MM/DD/YYYY
SCALE: 1"=10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10015

SHEET NO.:
L11.01



TREE LEGEND

KEYNOTE	SYM.	BOTANICAL NAME	COMMON NAME	SIZE HEIGHT	SIZE WIDTH	QUANTITY	COMMENTS
NO	BAM SPE	BAMBUSA SPECIES	BAMBOO	18'	-	36	MATCHING
YES	CLI ROS	CLUSIA ROSEA 'TATTY'S BAY'	AUTOGRAPH TREE	14'	8'	2	MATCHING - 7
NO	CAL INO	CALOPHYLLUM INOPHYLLUM	BEAUTY LEAF	14'	8'	3	MATCHING STANDARDS
YES	COC DIV	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	14'	8'	1	-
YES	COC TAI	COCCOLOBA UVIFERA	SEA GRAPE	8'	8'	3	LOW BRANCH
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	18' CT.	-	9	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	18' CT.	-	3	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	20' CT.	-	-	-
NO	COC NUC	COCOS NUCIFERA 'DWARF GREEN MALAYAN'	COCONUT PALM	18' CT.	-	-	-
NO	COC NUC	COCOS NUCIFERA 'DWARF GREEN MALAYAN'	COCONUT PALM	18' CT.	-	-	-
NO	DRA VAR	DRACAENA 'VARIEGATAM'	DRAGON PLANT	6'	6'	-	-
NO	RHA EXC	RAPHIS EXCELSA	LADY PALM	7'	-	3	-
YES	ROY ELA	ROYSTONEA ELATA	FLORIDA ROYAL PALM	18' CT.	-	2	-
YES	SAB MIN	SABAL MINOR	DWARF BLUE-STEM PALMETTO	7'	-	3	-
NO	STR HID	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	14'	8'	2	-

NOTES:
1. MINIMUM 65% OF TREES TO BE FLORIDA NATIVES & FLORIDA #1 OR BETTER
2. TREE QUANTITIES ARE SUBJECT TO CHANGE IN WORKING DRAWINGS
3. QUANTITIES IN THE LABELED AREA FOR CONVENIENCE ONLY.
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO PRIME BID.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 700, TABLE C, Item 6
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTE:
1. REFER TO SHEET L8.02 FOR TREE PLANTING.
2. LANDSCAPE CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF ALL PLANT MATERIAL FOR REVIEW/APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE
3. REFER TO IRRIGATION CONSULTANT'S DRAWINGS
4. ALL COCONUT PALMS SHOWN EAST OF THE CCCL ARE EXISTING AND WILL REMAIN ON SITE.
5. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 544.

SCALE: 1"=10'

Lifescape International, Inc.

PROJECT DESIGN TEAM:

ARCHITECT:
ARCHE GROUP ARCHITECTS

CREATIVE DESIGNER:
PAT MORROW CO.

M.E.P. ENGINEER:
TWR ENGINEERS

STRUCTURAL ENGINEER:
"RC" WORLDWIDE ENGINEERING

CIVIL ENGINEER:
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3001 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

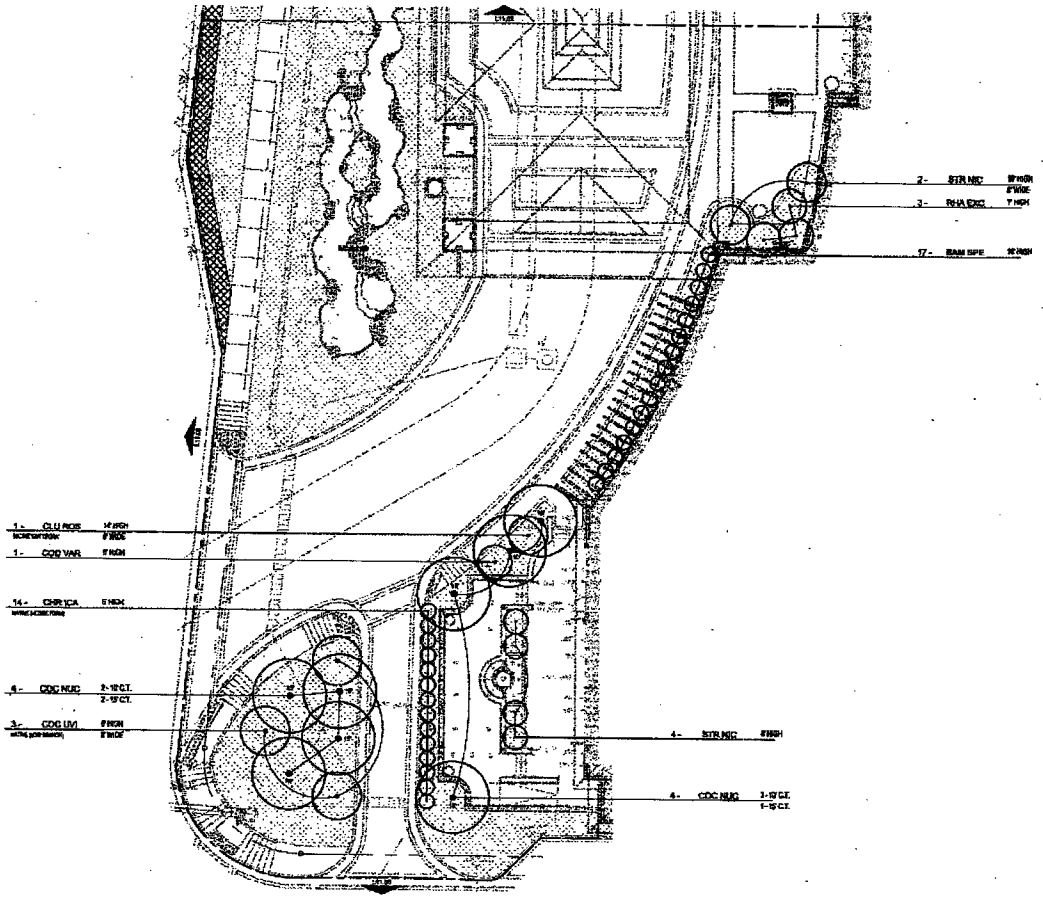
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - TREES

KEY MAP:

DATE: MM/DD/YYYY
SCALE: 1"=10'-0"
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L11.02



TREE LEGEND

NATIVE	SYM	BOTANICAL NAME	COMMON NAME	SIZE HEIGHT	SIZE WIDTH	QUANTITY	COMMENTS
NO	BAM SPE	BAMBUSA SPECIES	BAMBOO	10'	-	17	-
YES	CHR ICA	CHRYSOBALANUS ICACO	COCO PLUM	8'	-	14	HEDGE FORM
YES	CLU RIG	CLUSIA RIGIDA 'MUTTAMBA'	AUROCRAFT TREE	14'	8'	1	MATCHING
YES	COD VAR	COCCOLOBA UVIFERA	SEA GRAPE	8'	8'	4	LOW BRANCH
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	10' C.T.	-	5	-
NO	COC RUC	COCOS NUCIFERA	COCONUT PALM	10' C.T.	-	3	-
NO	COC RUC	COCOS NUCIFERA	COCONUT PALM	20' C.T.	-	-	-
NO	COC NUC	COCOS NUCIFERA 'GIANT' GREEN MALAYAN	COCONUT PALM	8' C.T.	-	-	-
NO	COC NUC	COCOS NUCIFERA 'GIANT' GREEN MALAYAN	COCONUT PALM	10' C.T.	-	-	-
NO	COD VAR	CROTON VAR	CROTON	8'	8'	1	-
NO	RHA EXC	RHAPIS EXCELSA	LADY PALM	7'	-	3	-
NO	STR NIC	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	10'	8'	2	-
NO	STR NIC	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	8'	-	4	-

NOTES:
1. MINIMUM 50% OF TREES TO BE FLORIDA NATIVES & FLORIDA#1 OR BETTER
2. TREE QUANTITIES ARE SUBJECT TO CHANGE IN PLANS AND DRAWINGS
3. QUANTITIES IN THE LEGEND ARE FOR CONVENIENCE ONLY.
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO FINAL BID.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FOOT INDEX 700, TABLE C, ITEM 6
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTE:
1. REFER TO SHEET L0.02 FOR TREE PLANTING.
2. LANDSCAPE CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF ALL PLANT MATERIAL FOR REVIEW/APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE
3. REFER TO IRRIGATION CONSULTANTS DRAWINGS.
4. ALL COCONUT PALMS SHOWN WEST OF THE CCCL ARE EXISTING AND WILL REMAIN ON SITE.
5. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 546.

SCALE: 1"=10'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
CREATIVE DESIGNER
M.E.P. ENGINEER
STRUCTURAL ENGINEER
CIVIL ENGINEER

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3301 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - TREES

KEY MAP:

DATE: MM/DD/YYYY
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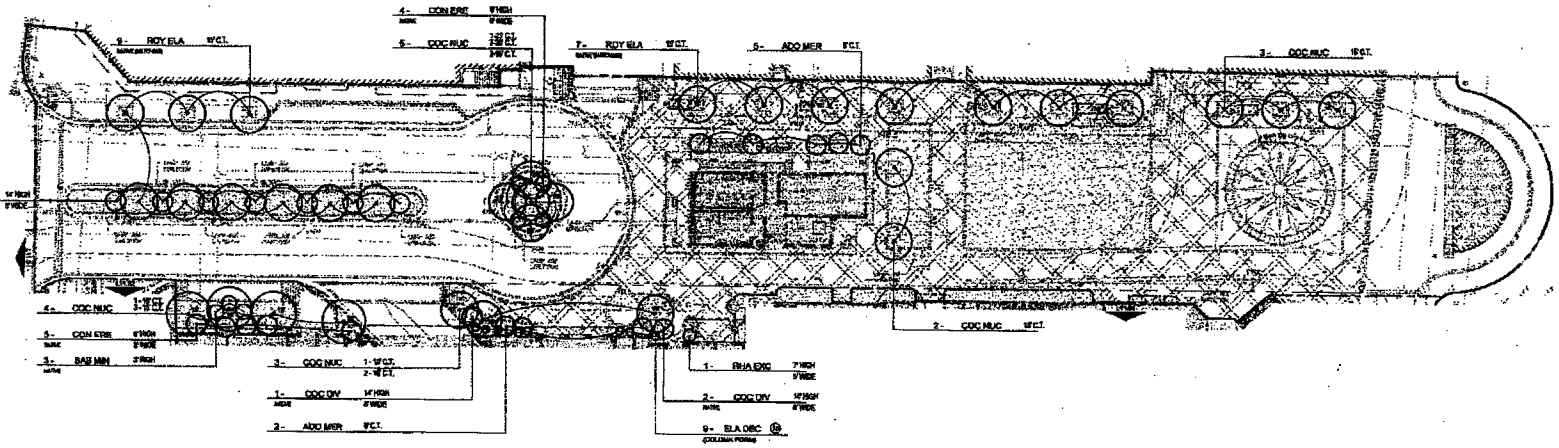
JOB NO.: 10048

SHEET NO.:
L11.03



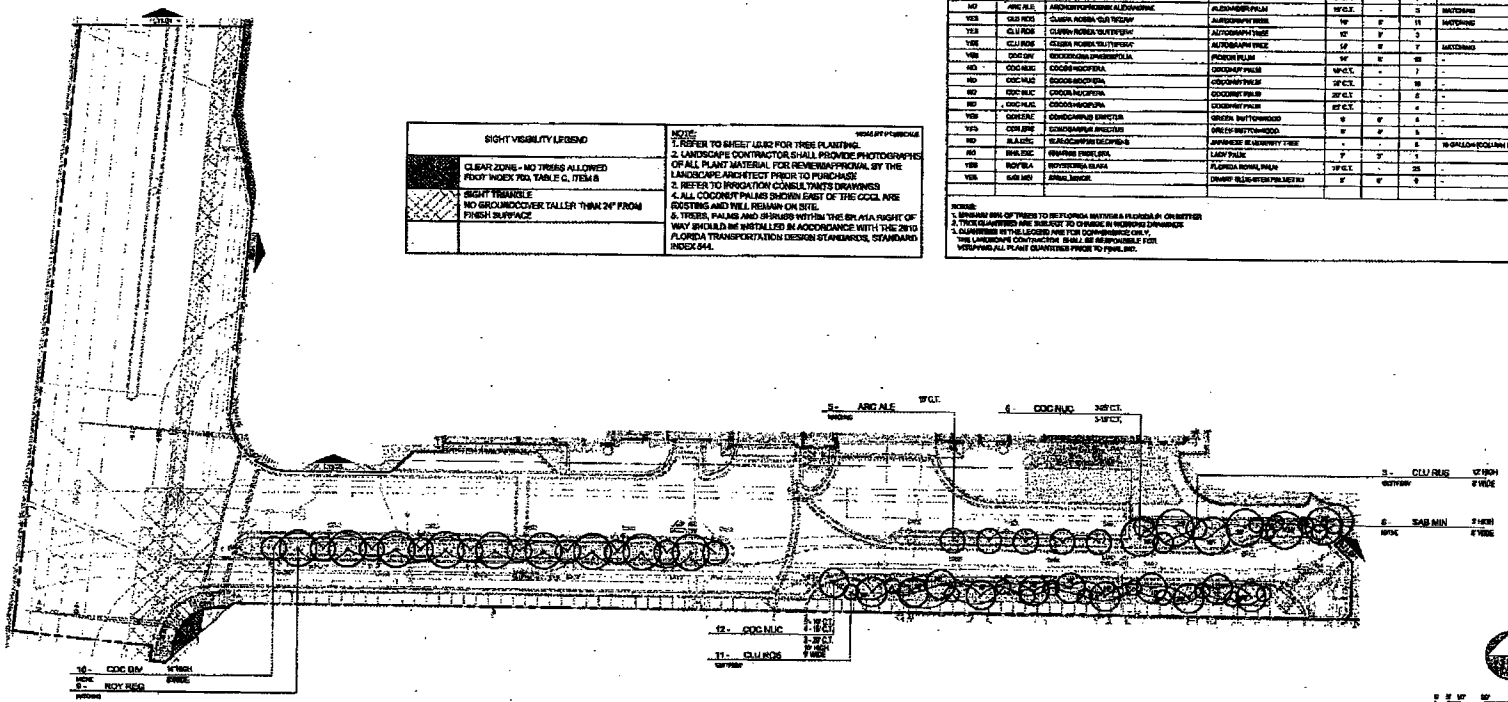
SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 700, TABLE C, ITEM 8
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTE:
1. REFER TO SHEET L0.02 FOR TREE PLANTING.
2. LANDSCAPE CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF ALL PLANT MATERIAL FOR REVIEW/APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE
3. REFER TO IRRIGATION CONSULTANTS DRAWINGS
4. ALL COCONUT PALMS SHOWN EAST OF THE CCCL ARE EXISTING AND WILL REMAIN ON SITE.
5. TREES, PALMS AND SHRUBS WITHIN THE SR/A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 544.

TREE LEGEND

NATIVE	SIGN.	BOTANICAL NAME	COMMON NAME	SIZE HEIGHT	SIZE WIDTH	QUANTITY	COMMENTS
NO	ADO MER	ADONIDIA MERRILLII	CHRISTMAS PALM	8'C.T.	-	7	-
NO	ARE ALE	ARECHISTROGRAPHIS ALEXANDRINAE	ALEXANDER PALM	18'C.T.	-	3	MATCHING
YES	CLU ROS	CLUSIA ROSEA 'GUATEMALA'	AUTOGRAPH TREE	14'	8'	11	MATCHING
YES	CLU ROS	CLUSIA ROSEA 'GUATEMALA'	AUTOGRAPH TREE	12'	7'	3	-
YES	CLU ROS	CLUSIA ROSEA 'GUATEMALA'	AUTOGRAPH TREE	12'	8'	7	MATCHING
YES	COC DIV	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	14'	8'	10	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	14'C.T.	-	7	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	18'C.T.	-	18	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	20'C.T.	-	8	-
NO	COC NUC	COCOS NUCIFERA	COCONUT PALM	22'C.T.	-	4	-
YES	CONERE	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	8'	8'	4	-
YES	CONERE	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	8'	8'	5	-
NO	ELA OBC	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	-	-	5	10-GALLON (COLUMN FORM)
NO	RHA EXC	RHAPHIS EXCELSA	LADY PALM	7'	3'	1	-
YES	ROY ELA	ROYSTONEA ELATA	FLORIDA ROYAL PALM	18'C.T.	-	25	-
YES	SAB MIN	SABAL MINOR	DWARF BLUE-STEM PALMETTO	8'	8'	9	-

NOTES:
1. SPANISH BAN OF TREES TO BE FLORIDA NATIVES FLORIDA A CHAPTER
2. TREE QUANTITIES ARE SUBJECT TO CHANGE IN WORKING DRAWINGS
3. QUANTITIES WITHHELD/LEGEND ARE FOR DOWNSIZING ONLY, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO FINAL BID.



Lifescapes International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
ARCHE GROUP ARCHITECTS
CREATIVE DESIGNER
PAT MORROW CO.
M.E.P. ENGINEER
TMR ENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3501 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - TREES

KEY MAP:

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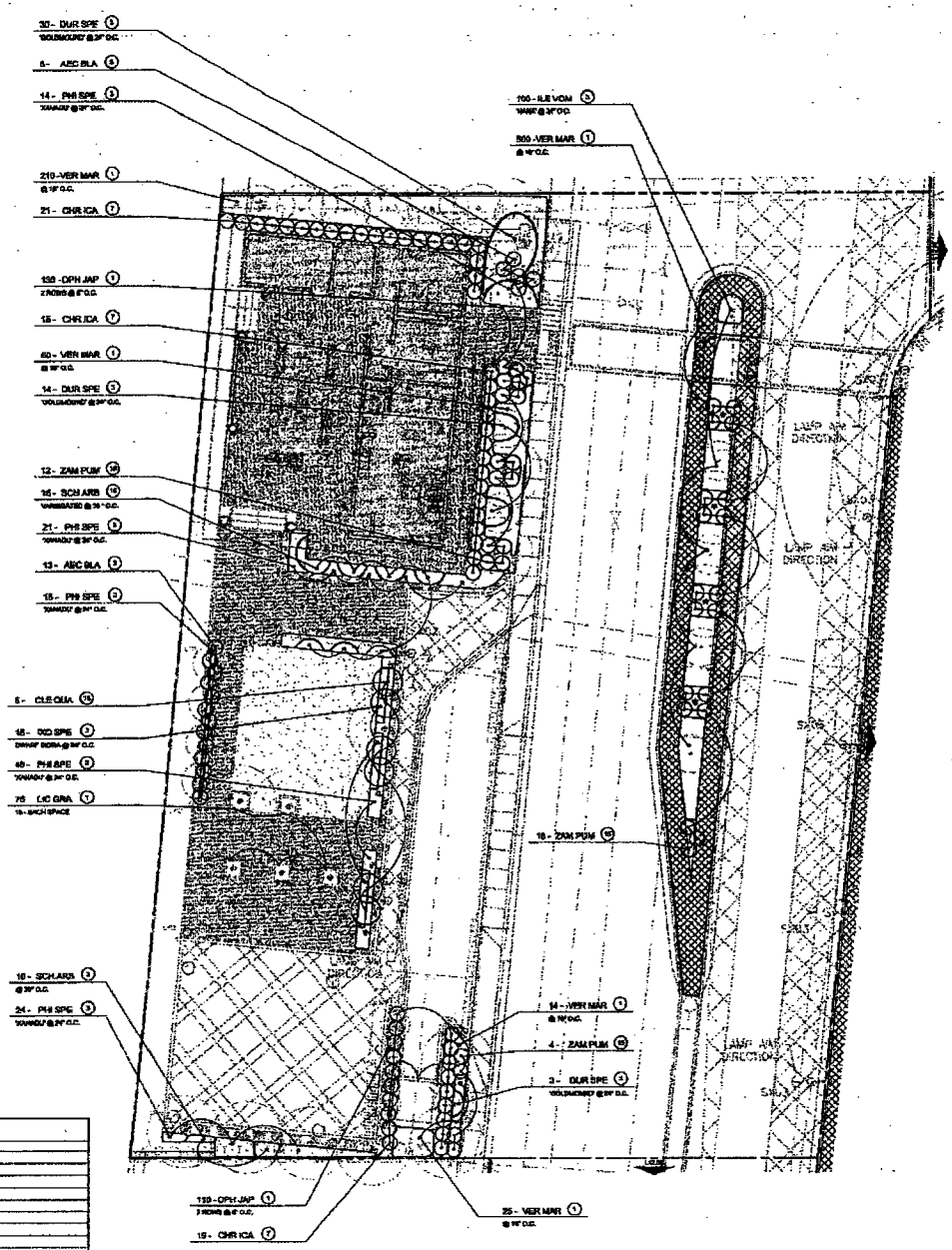
JOB NO.: 10048

SHEET NO.:
L11.06



SHRUB LEGEND

NATIVE	SYM.	BOTANICAL NAME	COMMON NAME	SIZE HO	SPR	PO	HEI	COMMENTS
NO	ARC BLA	ARECHIRA 'BLANCO STAR'	ORANGE BROMELIAD	-	21	-	-	-
YES	CHR ICA	CHRYSOBALANUS ICACO	COCO PLUM	-	-	36	-	-
NO	CLE GIA	CLERODENDRUM QUADRILOCULARE	STANLEIRI BUSH	-	-	-	6	-
NO	DUR SPE	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	-	27	-	-	-
YES	ILE VOM	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	-	100	-	-	-
NO	DIO SPE	DIONA SPECIOSA 'DWARF'	DWARF DIONA	-	33	-	-	-
NO	LIC GRA	LICUALA GRANDIS	LICUALA PALM	72	-	-	-	-
NO	OPH JAP	OPHIOPOGON JAPONICUS	MONDO GRASS	300	-	-	-	-
NO	PHI SPE	PHILODENDRON SPECIOSUM 'RAINBOW'	PHILODENDRON	-	157	-	-	-
NO	SCH ARB	SCHEFFLERA ARBORICOLA 'VARIEGATA'	VARIEGATED SCHEFFLERA	-	18	-	18	-
YES	VER MAR	VERBENA MARITIMA	BEACH VERBENA	600	-	-	-	-
YES	ZAM PUM	ZAMIA PUMILA	COONTIE	-	-	-	34	-
		SEASONAL/ANNUAL COLOR		-	-	-	-	4" POTS @ 6" OC

NOTES:
1. MINIMUM 50% OF SHRUBS TO BE FLORIDA NATIVES & A FLORIDA #1 OR BETTER
2. SHRUB CONTAINER AND SPACING TO CONFORM TO MINIMUM STANDARDS
3. QUANTITIES IN THE LEGEND ARE FOR CONVENIENCE ONLY. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO PRICING.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 700, TABLE C, ITEM 8
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTES:
1. REFER TO SHEET L002 FOR SHRUB PLANTING
2. REFER TO IRRIGATION CONSULTANT'S DRAWINGS
3. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 544.

SCALE: 1"=10'

Livescape International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
ARCHIC GROUP ARCHITECTS
CREATIVE DESIGNER
PAT MCGRICE CO.
M.E.P. ENGINEER
THE ENGINEERS
STRUCTURAL ENGINEER
THE MCALPINE CMPI PROFESSIONAL
CIVIL ENGINEER
CONSULTING ENGINEERING & SURVEY, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
2401 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

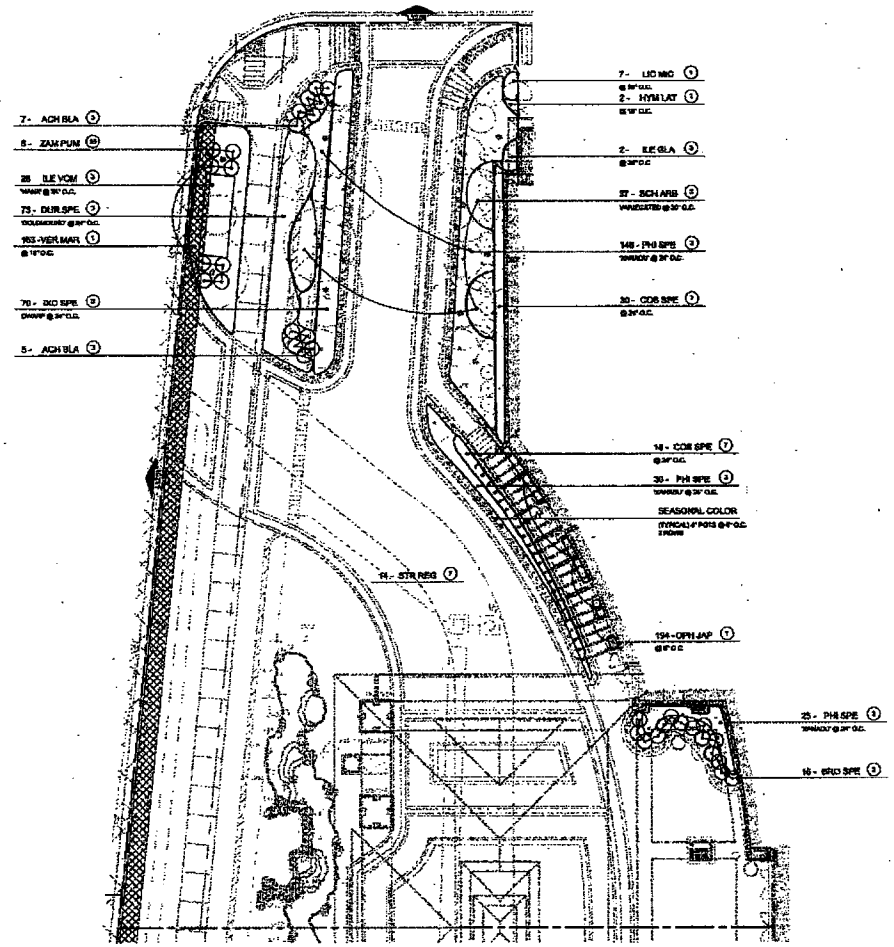
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - SHRUBS

KEY MAP:

DATE: MM/DD/YYYY
SCALE: 1" = 10'-0"
DRAWN BY: MM
CHECKED BY: DB
JOB NO.: 10046

SHEET NO.:
L12.01



SHRUB LEGEND

QUANTITY	SYM.	BOTANICAL NAME	COMMON NAME	1G	3G	7G	15G	COMMENTS
NO	ACE BLA	ACERADIS 'BLACK BEAUTY'	DWARF BANEBERRY	-	15	-	-	-
NO	ACL MOH	ACLYPHA 'MOHO'	ACLYPHA MOHO	-	-	-	-	-
NO	BRO SPE	BROMELIAD SPECIES	BROMELIAD	-	10	-	-	-
NO	CLE CLA	CLERODENDRUM QUADRIFLORUM	STARGLORY BUSH	-	-	-	5	-
NO	COR VAR	CORDYLINE TERMINALIS 'FESTIVA GREEN'	HAWAIIAN TI PLANT	-	-	-	-	-
NO	COS SPE	CONEIZA SPECIES	NUN	-	-	48	-	-
NO	DUR SPE	DURANTA SPECIES 'GOLD MOUND'	GOLD MOUND DURANTA	-	73	-	-	-
NO	GRA PIC	GRAPTOPHYLLUM PICTUM	CARICATURE PLANT	-	-	-	-	-
YES	HYM LAT	HAMELIA LUCIDA LANFOLIA	SPICEWOOD	2	-	-	-	-
YES	ILE GLA	ILEX GLABRA	INKBERRY	-	2	-	-	-
YES	ILE VOM	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	-	28	-	-	-
NO	IXO SPE	IXORA SPECIES 'DWARF'	DWARF IXORA	-	70	-	-	-
NO	LIG OVA	LIGUSTRUM SINENSE	LIGUSTRUM PALUS	-	-	-	-	-
YES	LIG MIC	LIGUSTRUM MICROPHYLLUM	GLOSSY PRIVET	7	-	-	-	-
NO	MIC SCO	MICROSORUM SCOLOPENDRIUM	WART FERN	55	-	-	-	-
NO	NEO FER	NEOPHEGOLETIA PURPUREOPUNCTATA	HAGSAIL	-	-	-	-	-
NO	OPH JAP	OPHIOPOGON JAPONICUS	MONDO GRASS	194	-	-	-	-
NO	PHI SPE	PHILODENDRON SPECIES 'XANADU'	PHILODENDRON	-	269	-	-	-
NO	SAN SPE	SANCHEZIA SPECIOSA	SANCHEZIA	-	-	-	-	-
NO	SCH ARB	SCHEFFLERA ARBORICOLA 'VARIEGATA'	HAWAIIAN ELF SCHEFFLERA	-	37	-	-	-
NO	STR REG	STRELITZIA REGINAE	BIRD OF PARADISE	-	-	-	-	-
NO	TRA AB	TRACHELOSPERMUM ASIATICUM	ASIAN JASMINE	-	-	-	-	-
YES	VER MAR	VERBENA MARITIMA	BEACH VERBENA	163	-	-	-	-
YES	ZAM PUM	ZAMIA PUMILA	COONTIE	-	6	-	-	-
		SEASONAL COLOR		-	-	-	-	4" POTS @ 8" O.C.

NOTES:
1. SIZES AND SPECIES TO BE FLORIDA #1 PER THE FLORIDA GRADES & STANDARDS.
2. SHRUB QUANTITIES ARE SUBJECT TO CHANGE IN WORKING DRAWINGS.
3. QUANTITIES IN THE LEGEND ARE FOR COMPLIANCE ONLY. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO PAVILING.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 700, TABLE C, ITEM 6
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM PAVEM SURFACE

NOTES:
1. REFER TO SHEET L1.02 FOR SHRUB PLANTING
2. REFER TO IRRIGATION CONSULTANTS DRAWINGS
3. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 544.

SCALE: 1"=50'

Urbanscape International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
ARCHI GROUP ARCHITECTS
CREATIVE DESIGNER
PAT MORROW CO.
M.E.P. ENGINEER
THELENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
1501 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/18/2011

REVISIONS:

No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - SHRUBS

KEY MAP:

DATE: MM/DD/YYYY
SCALE: 1" = 10'-0"
DRAWN BY: MM
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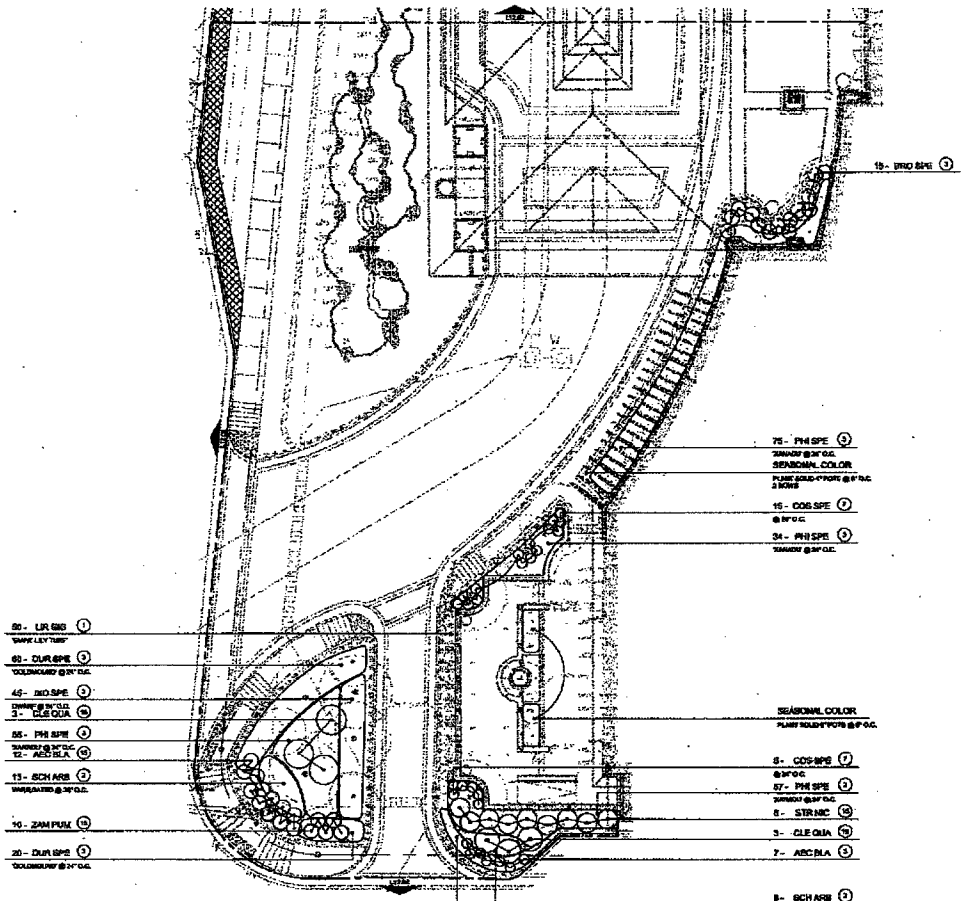
JOB NO.: 10048

SHEET NO.:
L12.02



SHRUB LEGEND

NOTE	SYM.	BOTANICAL NAME	COMMON NAME	SIZE 1G	3G	7G	15G	COMMENTS
NO	ARC BLA	ARCHIMA 'BLANCHETIANA'	CHANGE BRAMBLEBUD	-	-	-	13	7 - 5 GALLON
NO	ACU HEN	ACHIMEA 'HENDY'	ACHIMEA HENE	-	-	-	-	-
NO	BRO SPE	BROMELIAD SPECIES	BROMELIAD	-	15	-	-	-
NO	CLE QUA	CLERODENDRUM QUADRILOCULARE	STARBURST BUSH	-	-	-	7	-
NO	COR PER	COROPLANE TERNANLIS NEO-MINTERY	'AMBIANT N PLANT'	-	-	-	-	-
NO	COS SPE	COSTUS SPECIES	KOSA	-	-	21	-	-
NO	DUR SPE	DURANTA SPECIES "GOLD MOUND"	GOLDMOUND DURANTA	-	61	-	-	-
NO	GRA PIC	GRAPTOPETHALUM PICTUM	GHOSTLURE PLANT	-	-	-	-	-
YES	ILE VOS	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	-	-	-	-	-
NO	NID SPE	NIDORA SPECIES "CRANS"	DWARF NORA	-	45	-	-	-
NO	LIG SIN	LIGUSTRA CHINENSE	LIGUSTRA PREM	-	-	-	-	29 - 5 GALLON
NO	LIR SIN	LIRIOPE MUSCARI TA	BANTI LILY TURF	50	-	-	-	-
NO	MIC SCO	MICROSORUM SCOLOPENDRIUM	WART FERN	-	33	-	-	-
NO	NID FER	NEPHROLEPIS FERNOPTAN	FIRESHILL	-	13	-	-	-
NO	OPH JAP	OPHIOPOGON JAPONICUS	MONDO GRASS	94	-	-	-	-
NO	PHI SPE	PHILODENDRON SPECIES "CANADA"	PHILODENDRON	-	239	-	-	-
NO	SAN SPE	SANCHEZIA SPECIOSA	SANCHEZIA	-	-	-	-	-
NO	SCH ARB	SCHEFFLERA ARBORICOLA VARIEGATA	HAWAIIAN ELF SCHEFFLERA	-	30	-	-	-
NO	STR NIC	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	-	-	-	6	-
NO	STR REG	STRELITZIA REGINAE	BIRD OF PARADISE	-	-	-	-	-
NO	TRA ARI	TRACHELOSPERMUM ASIATICUM	JASMIN JASMINE	-	-	-	-	-
YES	VER MAR	VERBENA MARIANA	BEACH VERBENA	-	-	-	-	-
YES	ZAM FUR	ZAMIA FURFURACEA	CARDBOARD PALM	-	-	-	-	-
YES	ZAM PUM	ZAMIA PUMILA	COCONTE	-	-	-	10	-
	SEASONAL/ANNUAL COLOR			-	-	-	-	4" POTS @ 8" O.C.

NOTES:
1. MINIMUM SIZE OF SHRUBS TO BE FLORIDA NATIVE 6 & FLORIDA GRADE #1
2. SHRUB QUANTITIES ARE SUBJECT TO CHANGE IN WORKING DRAWINGS
3. QUANTITIES IN THIS LEGEND ARE FOR CONVENIENCE ONLY. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO BID.

SIGHT VISIBILITY LEGEND
CLEAR ZONE - NO TREES ALLOWED FDOT INDEX 700, TABLE C, ITEM 6
SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTES:
1. REFER TO SHEET L0.02 FOR SHRUB PLANTING
2. REFER TO IRRIGATION CONSULTANT'S DRAWINGS
3. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 546.

SCALE: 1"=10'

Lifescapes International, Inc.

PROJECT DESIGN TEAM:
ARCHITECTS
ADMOS GROUP ARCHITECTS
CREATIVE DESIGNER
PAT MONROE CO.
M.E.P. ENGINEER
TMS ENGINEERS
STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING
CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3601 N. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

MARGARITAVILLE HOLLYWOOD BEACH RESORT
HOLLYWOOD BEACH, FLORIDA

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No.	DATE	REMARKS

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PLANTING PLAN - SHRUBS

KEY MAP:

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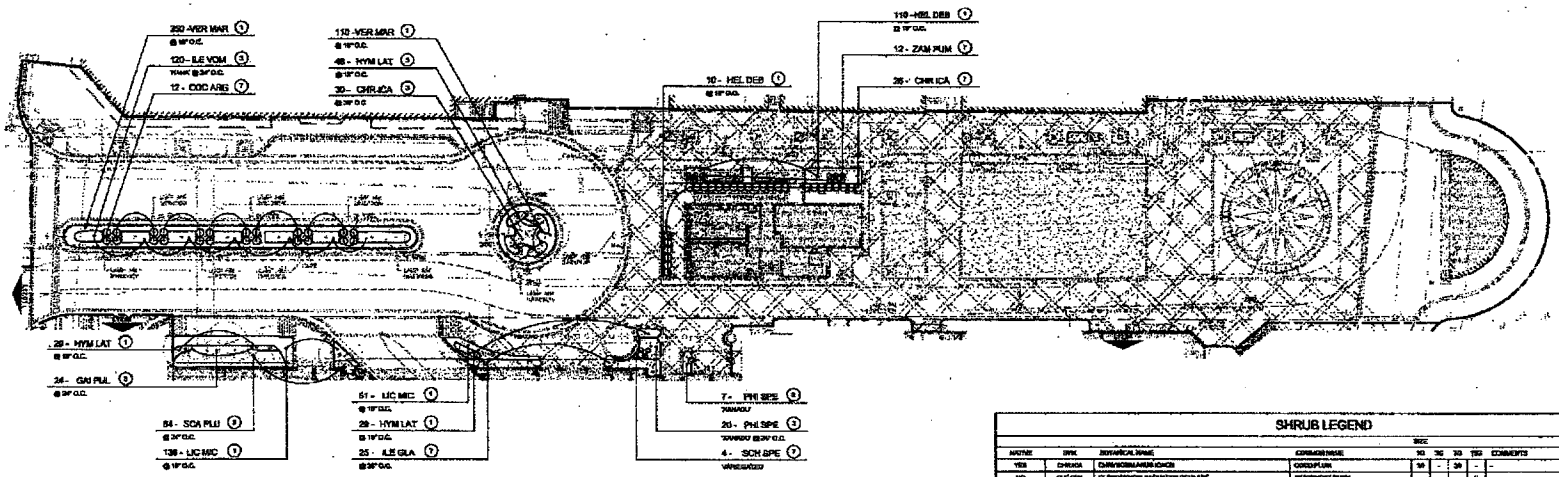


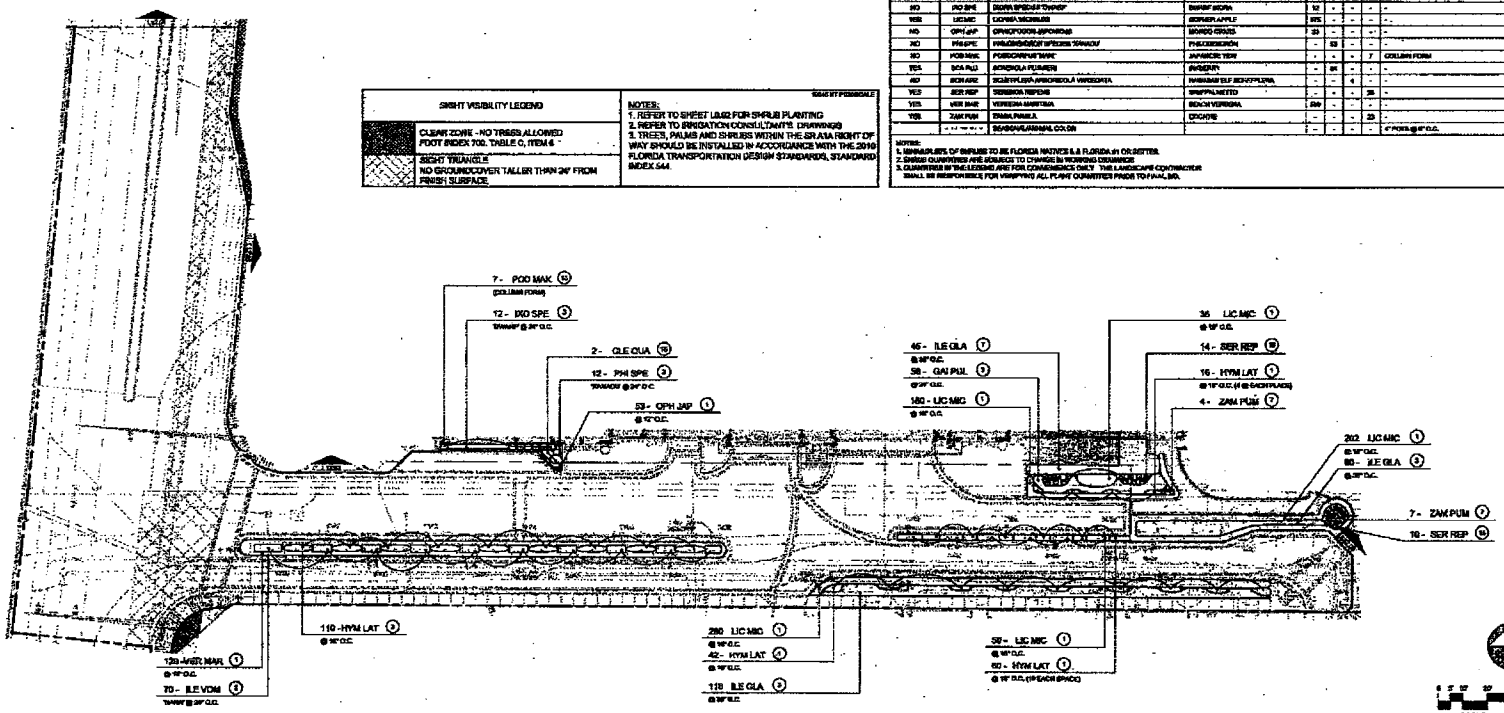
SHRUB LEGEND

				SIZE				
NATIVE	SYM.	BOTANICAL NAME	COMMON NAME	10	30	10	15	COMMENTS
YES	CHR ICA	CHRYSOBALANUS ICACO	COCOPLUM	59	-	39	-	-
NO	CLE QUA	CLERODENDRUM QUADRILOCULARE	JERUSALEM THORN	-	-	-	2	-
YES	COC ARB	COCCOTHRINAX ARGENTATA	SILVER PALM	-	-	12	-	-
YES	GAI PUL	GAILLARDIA PULCHELLA	YELLOW TOP	-	62	-	-	-
YES	HEL DEB	HELIOTROPIUM DEBILE	DUNE SUN HELIOTROPE	110	-	-	-	-
YES	HYM LAT	HYMENOCALLIS LATIFOLIA	SPIDER LILY	183	83	-	-	-
YES	ILE GLA	ILEX GLABRA	INKBERRY	-	119	19	-	-
YES	ILE VOM	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	59	-	-	-	-
NO	PID SPE	PIDIA SPECIOSA 'DWARF'	DWARF IXORA	12	-	-	-	-
YES	LIC MIC	LICANIA MICHAUXII	GOPHER APPLE	375	-	-	-	-
NO	OPH JAP	OPHIOPOGON JAPONICUS	MONDO GRASS	33	-	-	-	-
NO	PHI SPE	PHILODENDRON SPECIOSUM 'RANGOT'	PHILODENDRON	-	53	-	-	-
NO	POD MAK	PODOCARPUS MACRI	JAPANESE YEW	-	-	-	7	COLUMN FORM
YES	SCA PLU	SCAEVOLA PLUMIERI	INKBERRY	-	84	-	-	-
NO	SCH ARE	SCHEFFLERA ARBORICOLA VARIEGATA	HAWAIIAN ELF SCHEFFLERA	-	-	4	-	-
YES	SER REP	SERENOA REPENS	SAW PALMETTO	-	-	-	36	-
YES	VER MAR	VERBENA MARITIMA	BEACH VERBENA	249	-	-	-	-
YES	ZAM PUM	ZAMIA PUMILA	COCHOTE	-	-	-	23	-
	[illegible]	SEASONAL/ANNUAL COLOR		-	-	-	-	4" POTS @ 8" O.C.

NOTES:
1. MINIMUM SIZE OF SHRUBS TO BE FLORIDA NATIVE & FLORIDA #1 OR BETTER.
2. SHRUB QUANTITIES ARE SUBJECT TO CHANGES IN WORKING DRAWINGS.
3. QUANTITIES IN THE LEGEND ARE FOR CONVENIENCE ONLY. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO FINAL BID.

SIGHT VISIBILITY LEGEND	
	CLEAR ZONE - NO TREES ALLOWED FOOT INDEX 700, TABLE C, ITEM 6
	SIGHT TRIANGLE NO GROUNDCOVER TALLER THAN 24" FROM FINISH SURFACE

NOTES:
1. REFER TO SHEET L.00.2 FOR SHRUB PLANTING
2. REFER TO IRRIGATION CONSULTANT'S DRAWINGS
3. TREES, PALMS AND SHRUBS WITHIN THE SR A1A RIGHT OF WAY SHOULD BE INSTALLED IN ACCORDANCE WITH THE 2010 FLORIDA TRANSPORTATION DESIGN STANDARDS, STANDARD INDEX 544.



Lifescapes International, Inc.

PROJECT DESIGN TEAM:

ARCHITECTS
ARMONE GROUP ARCHITECTS

CREATIVE DESIGNER
PAT BORRIE CO

M.E.P. ENGINEER
TWN ENGINEERS

STRUCTURAL ENGINEER
TYC WORLDWIDE ENGINEERING

CIVIL ENGINEER
CONSULTING ENGINEERING & SCIENCE, INC.

OWNER:
MARGARITAVILLE HOLLYWOOD BEACH RESORT, LLC.
3201 S. OCEAN DRIVE
HOLLYWOOD, FLORIDA 33019

300 JOHNSON STREET
HOLLYWOOD BEACH, FLORIDA

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/13/2011

REVISIONS:

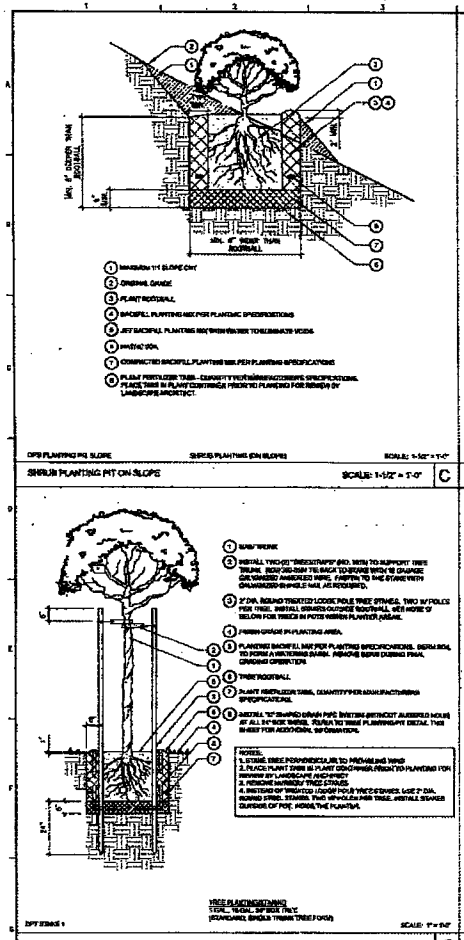
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE - LEVEL 01
PLANTING PLAN - SHRUBS

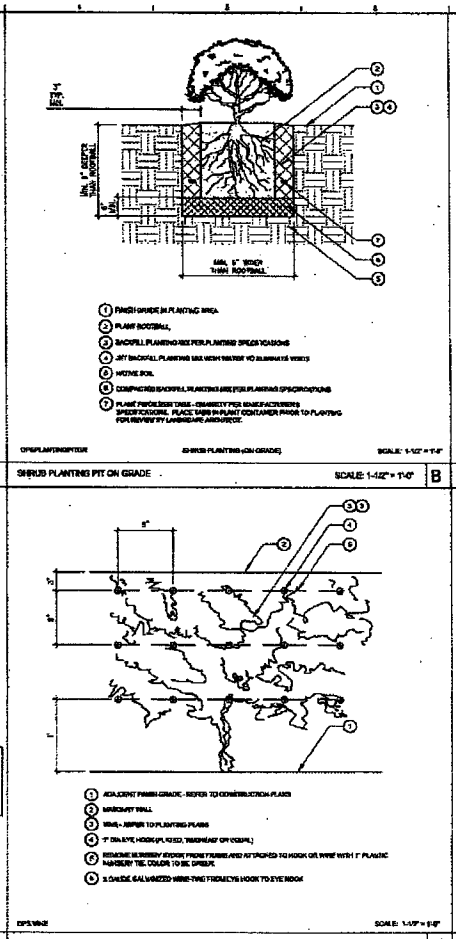
KEY MAP:

DATE: MM/DD/YYYY
SCALE: 1" = 20'-0"
DRAWN BY: MM
CHECKED BY: DR
JOB NO.: 10046

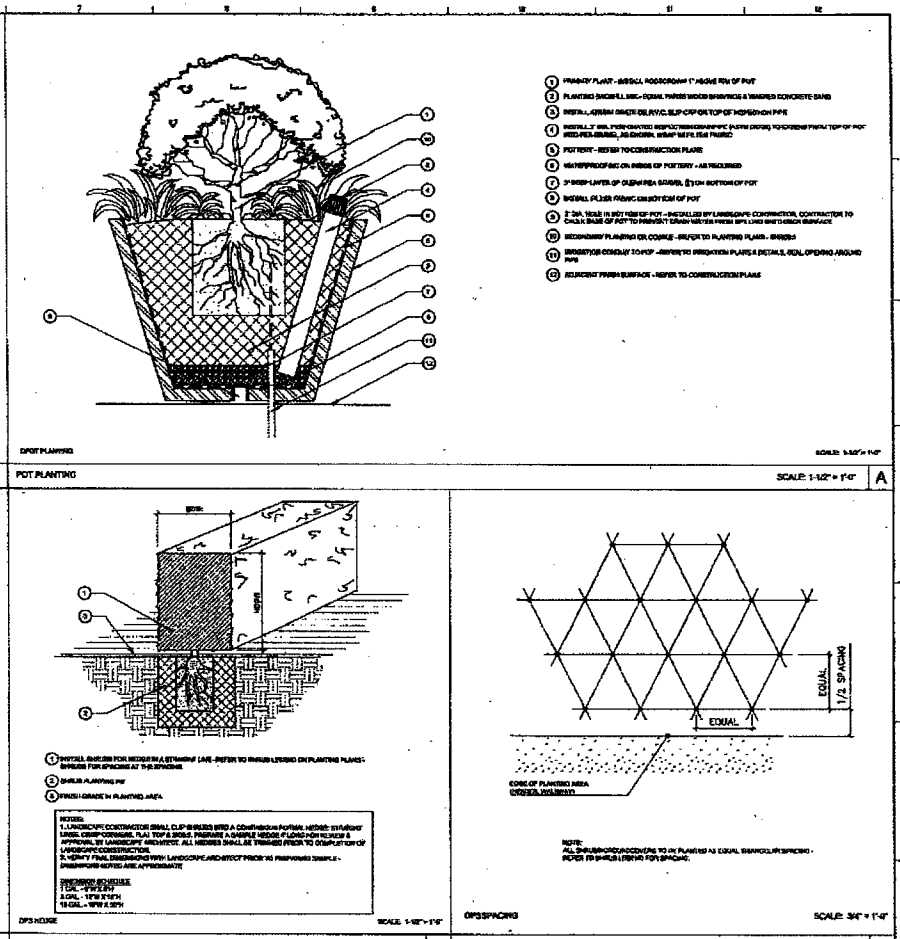
SHEET NO.:
L12.06



SHRUB PLANTING PIT ON SLOPE — SCALE: 1-1/2" = 1'-0" — C



SHRUB PLANTING PIT ON GRADE — SCALE: 1-1/2" = 1'-0" — B



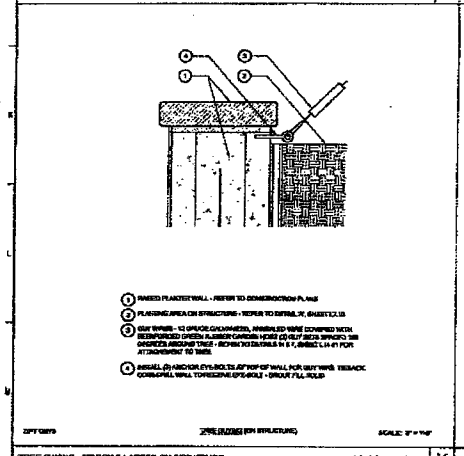
POT PLANTING — SCALE: 1-1/2" = 1'-0" — A

TREE STAKING - 5G., 15., & 24" BOX TREE — SCALE: 1" = 1'-0" — G

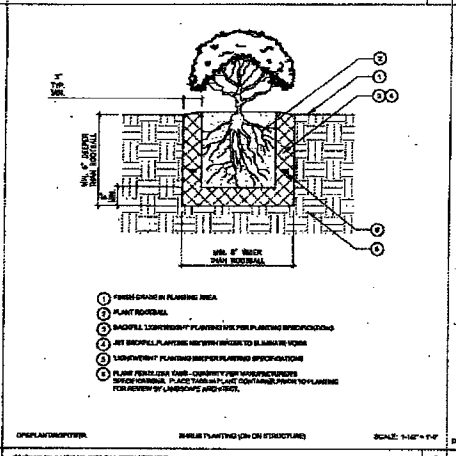
VINE PLANTING — SCALE: 1-1/2" = 1'-0" — F

HEDGE PLANTING — SCALE: 1-1/2" = 1'-0" — E

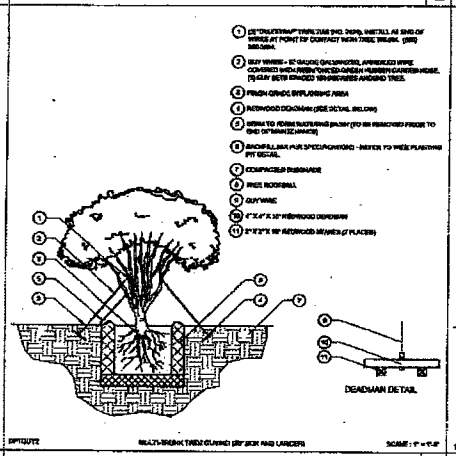
SHRUB PLANTING SPACING — SCALE: 3/4" = 1'-0" — D



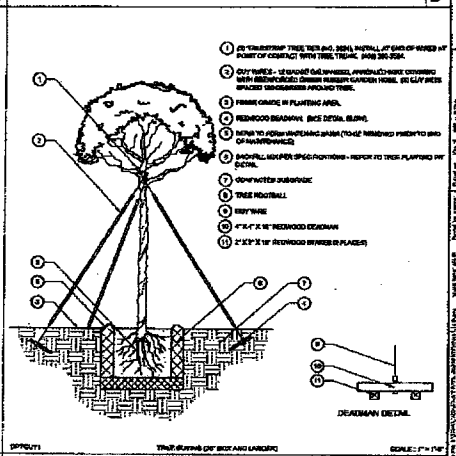
TREE GUYING - 36" BOX & LARGER, ON STRUCTURE — SCALE: 3" = 1'-0" — K



SHRUB PLANTING PIT ON STRUCTURE — SCALE: 1-1/2" = 1'-0" — J



MULTI-TRUNK TREE GUYING - 36" BOX & LARGER — SCALE: 1" = 1'-0" — I



TREE GUYING - 36" BOX & LARGER — SCALE: 1" = 1'-0" — H

Lifescape International, Inc.

PROJECT DESIGN TEAM:

ARCHITECT
ADACHE GROUP ARCHITECTS

CREATIVE DESIGNER
RAY MORROW CO.

M.E.P. ENGINEER
TBW ENGINEERS

STRUCTURAL ENGINEER
TRC WORLDWIDE ENGINEERING

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HOLLYWOOD, FLORIDA 33019

SEAL:

ISSUED FOR: 75% CONSTRUCTION
DATE: 11/15/2011

REVISIONS:

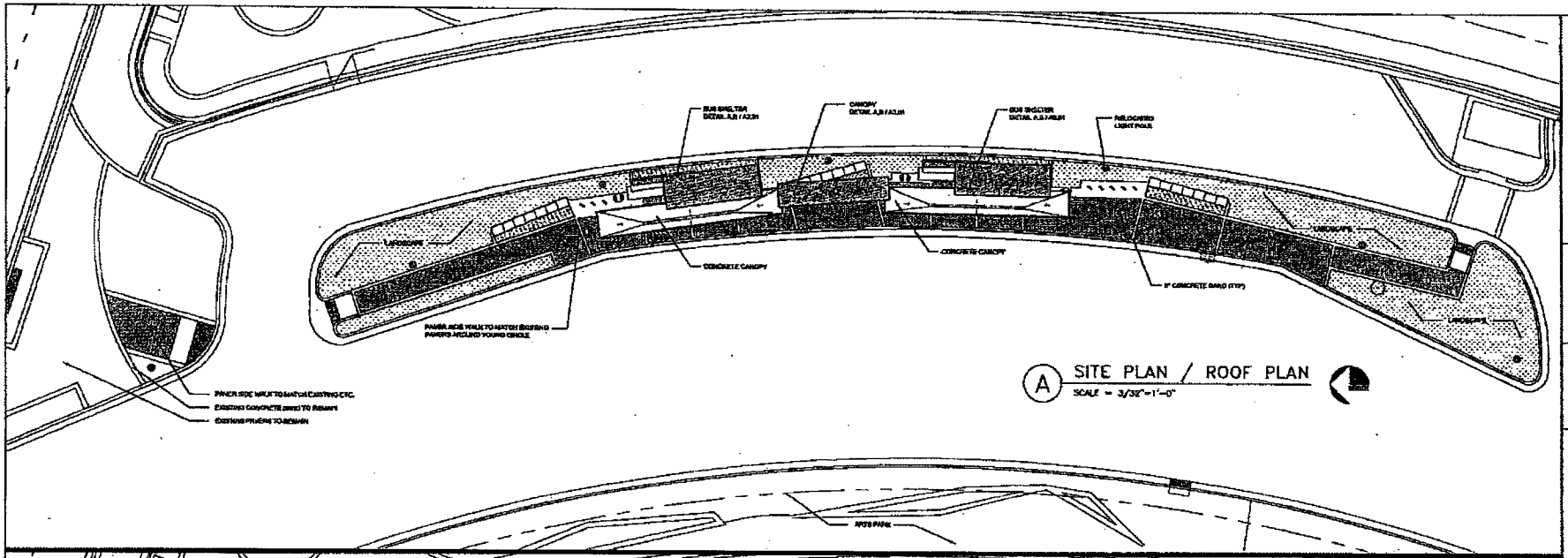
No.	DATE	REMARKS

SHEET TITLE:
LANDSCAPE
PLANTING DETAILS

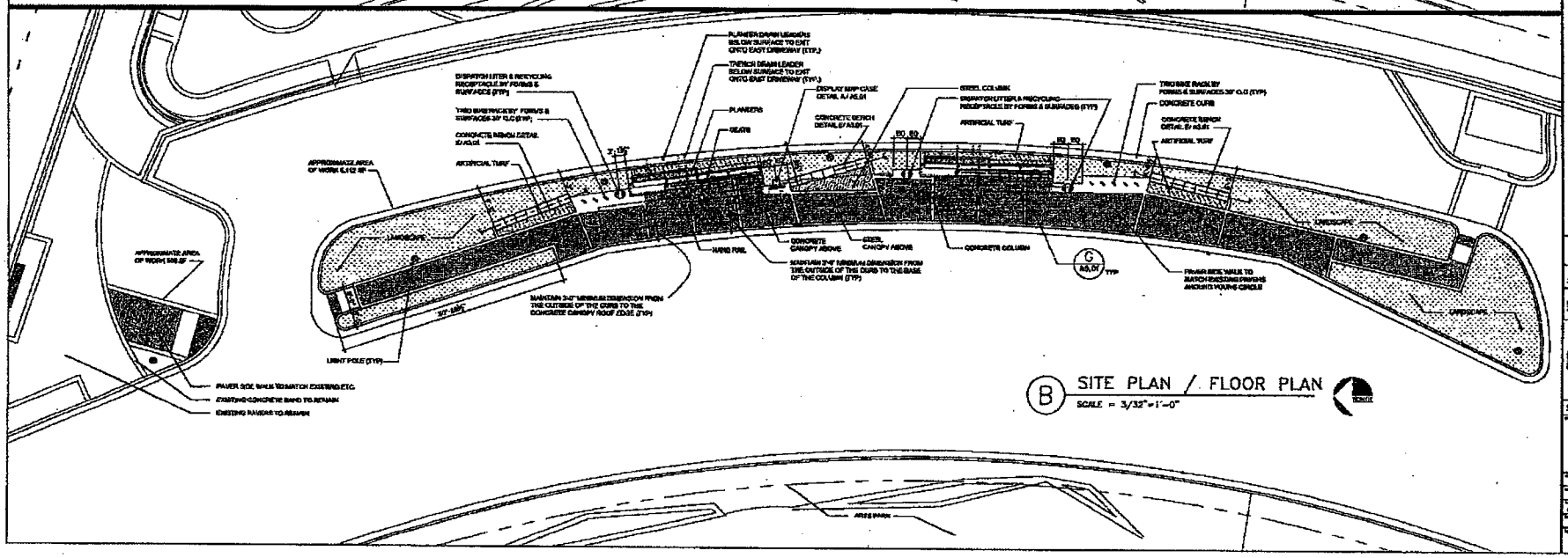
KEY MAP:

DATE: MM/DD/YYYY
SCALE: AS NOTED
DRAWN BY: MM
CHECKED BY: DA
JOB NO.: 10046

SHEET NO.:
L14.01



A SITE PLAN / ROOF PLAN
SCALE = 3/32"=1'-0"



B SITE PLAN / FLOOR PLAN
SCALE = 3/32"=1'-0"

SINGER ARCHITECTS

BROWARD COUNTY TRANSIT
HOLLYWOOD BUS SHELTER
YOUNG CIRCLE, HOLLYWOOD,
FLORIDA 33022

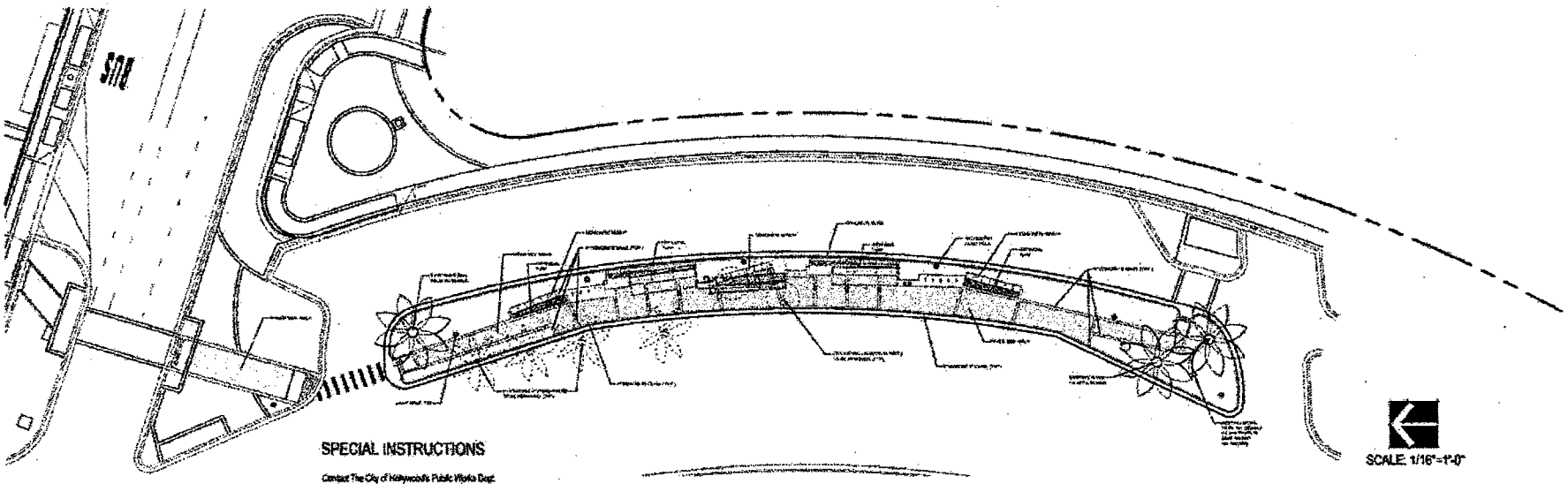
100% CONSTRUCTION DOCUMENT

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

SITEPLAN

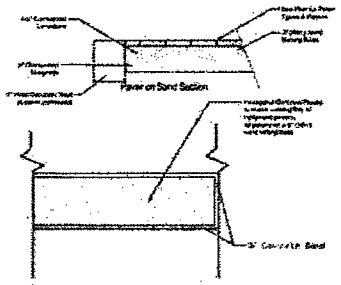
DRAWN BY: AA
CHECKED BY: TW
SCALE: AS SHOWN
DATE: 07-13-12
SITE PLAN DWG.

A1.01



SPECIAL INSTRUCTIONS

Contact The City of Hollywood's Public Works Dept. for supervision of relocation and removal of existing plant material.

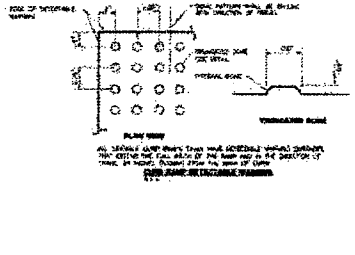


LC-1A PAVER DETAIL

NTS

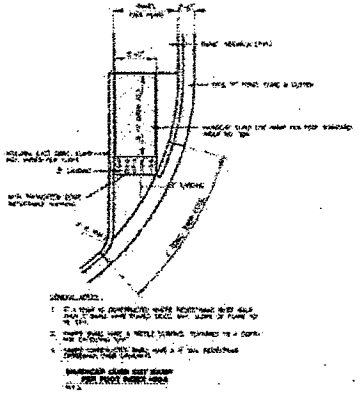
NOTE:

TRUNCATED DOMES WILL BE CREATED WITH PAVERS WHEN "PAVER" WALKS ARE A PART OF THE DETAIL OR STAMPED CONCRETE WHERE WALKS ARE POURED CONCRETE.



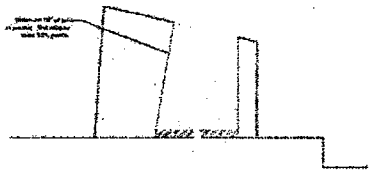
LC-1B DETECTABLE DOME DETAIL

NTS



LC-1C PLANTER SECTION

NTS



SINGER ARCHITECTS

ARCHITECTURAL ASSOCIATES

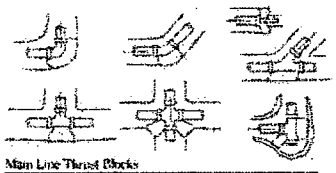
BROWARD COUNTY TRANSIT
HOLLYWOOD BUS SHELTER
FLORIDA

HARDSCAPE PLAN

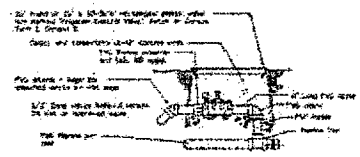
LC.01

NOTES:
POINT OF CONNECTION SHALL BE EXISTING WATER METER. IRRIGATION CONTRACTOR TO FIELD VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

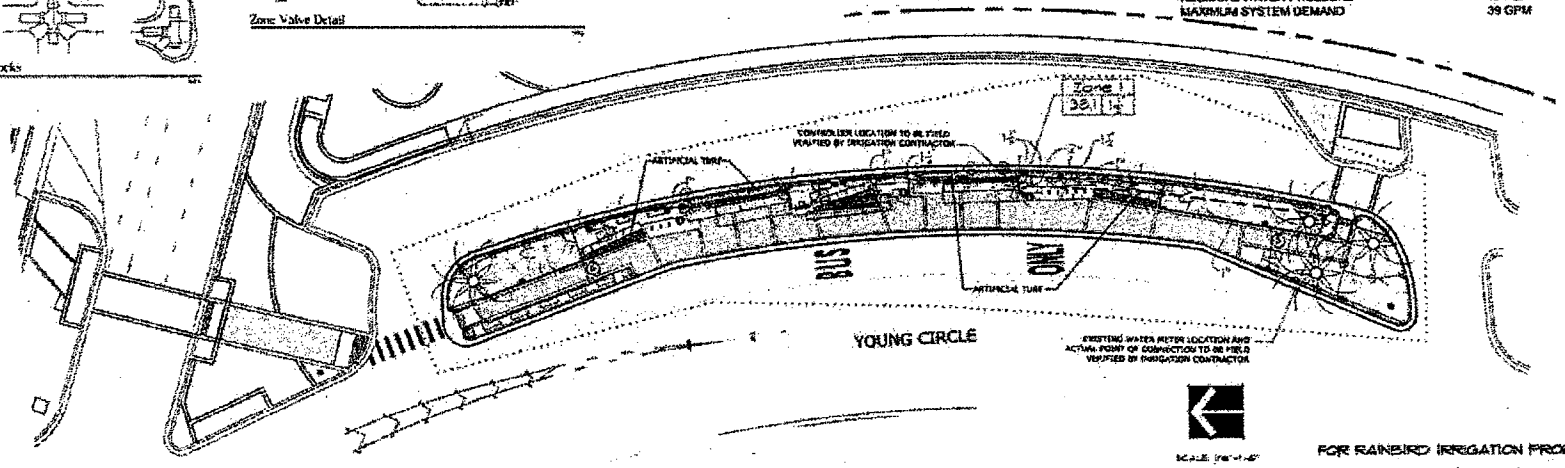
MINIMUM PRESSURE REQUIRED	50 PSI
DESIGN WATER PRESSURE	40 PSI
RESIDUAL WATER PRESSURE	10 PSI
MAXIMUM SYSTEM DEMAND	39 GPM



Main Line Thrust Blocks

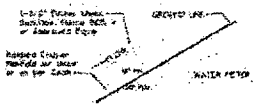


Zone Valve Detail

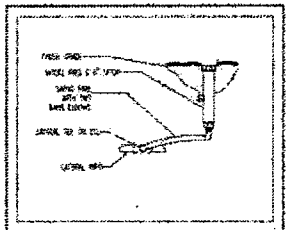


FOR RAINBIRD IRRIGATION PRODUCTS:
Please contact City of Hollywood

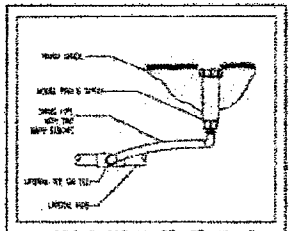
Shrub Riser Spray Detail



Point of Connection



PRO S SPRAY: 6" POPTION INSTALLATION
IRRIGATION INSTALLATION DETAIL



PRO S SPRAY: 2", 3" AND 4"
IRRIGATION INSTALLATION DETAIL

IRRIGATION NOTES:

Pipe

[illegible]

Sleeves and water line PVC, SDR 40

Fittings SCH 40 PVC

Installation To installation specification. Use blue or gray PVC cement, square cut, clean and prime all joints.

Allow all sub lines to cure for 24 hours before pressuring.

All pipe, fittings, and valves to conform to latest ASTM specs.

Depth of trench Main line and wiring - 18 in. depth min.
Sleeving under pavement - 24 in. depth min.
Lateral line - 12 in. depth minimum.
Zone lines 1-1/2 in. and smaller - 12 in. depth min.

Control wires [illegible]
Solid copper type UF UL listed for direct burial.
Run when water main and tape every 20 feet.
Use splices this way.
Splice wires only in a valve box. All splices shall be waterproof using Snap Type or DBY UL connectors.
Ground shall be white. All shall be red or color coded.
Spare shall be black. Run a spare wire as Plan for min.

Backfill all trenches free of debris compact to original density. Work all lines, use manual or air wands, adjust heads to proper coverage coming from water or walk walks, etc.

All pipes are generally shown only. All operations shall be approved by the contractor prior to installation. It shall be the contractors responsibility to ensure complete overlapping coverage. Any deviations shall be reported to the owner and landscape architect before proceeding. Codes and local regulations shall take precedence over these plans. It is the contractors responsibility to comply. The landscape architect reserves the right to make minor field changes. The contractor may field adjust spray heads location to provide for proper 100% min. coverage.

Provide [illegible] with an accurate as installed plan(s) at completion showing map back wiring, valves, sprinkler, etc. using standard field plans.

Contractor shall verify all underground utilities prior to commencement of work.

The sprinkler irrigation and landscape may be required to be adapted prior to either or both pump stations and or main line / valve array. A separate plan showing modifications and alternate water source will be provided prior to construction. The modifications will be made upon the direction of landscape architect the construction plan.

IRRIGATION LEGEND:

MAIN LINE - 1-1/2" Feed From City Water Source

LATERAL ZONE LINES - SCH PVC as noted

ZONE BOUNDARIES

BACK FLOW Sole Point of Connection Detail.

CONTROLLER - Rainbird Electric 8 station controller, mounted on Southwest corner of structure, with a Rainbird automatic rain sensor, shutoff switch mounted outside on wall of structure.

ZONE VALVES - Rainbird

PROPOSED WATER METER - 1-1/2" or per City Code

SLEEVES - Type 40, 2 Sizes Larger
NOTE - Pipe Size Shown is the Lateral Size, NOT the Sleeve Size

6" POP-UP SPRAY - Rainbird Nozzles as Required
NOTE - All of the Spray may not be used

6" Series -	12" Series -	12" Series -	6" Series -
15-12-PC - 1/2"	12"-0-PC - 1/4"	10-6-PC - 1/2"	6-6-PC - 1/2"
15-1-PC - 1/2"	12-1-PC - 1/2"	10-1-PC - 1/2"	6-1-PC - 1/2"
15-2-PC - 1/2"	12-2-PC - 1/2"	10-2-PC - 1/2"	6-2-PC - 1/2"
15-TT-PC - 1/2"	12-TT-PC - 1/2"	10-TT-PC - 1/2"	6-TT-PC - 1/2"
15-TS-PC - 3/4"	12-TS-PC - 1/2"	10-TS-PC - 3/4"	6-TS-PC - 3/4"
15-F-PC - Full	12-F-PC - Full	10-F-PC - Full	6-F-PC - Full

6" Series -
6-0-PC - 1/2"
6-1-PC - 1/2"
6-2-PC - 1/2"
6-TT-PC - 1/2"
6-TS-PC - 3/4"
6-F-PC - Full

M-SST-PC 4 x 48"
M-SST-PC 4 x 36"
M-DST-PC 4 x 36"

6" POP-UP FLOOD BUBBLER - Toro 570 Series MPR Pressure Compensating Nozzles as Required.

Zone 2 — Zone Number
37.6 1½ — Valve Size
GPM per Zone.

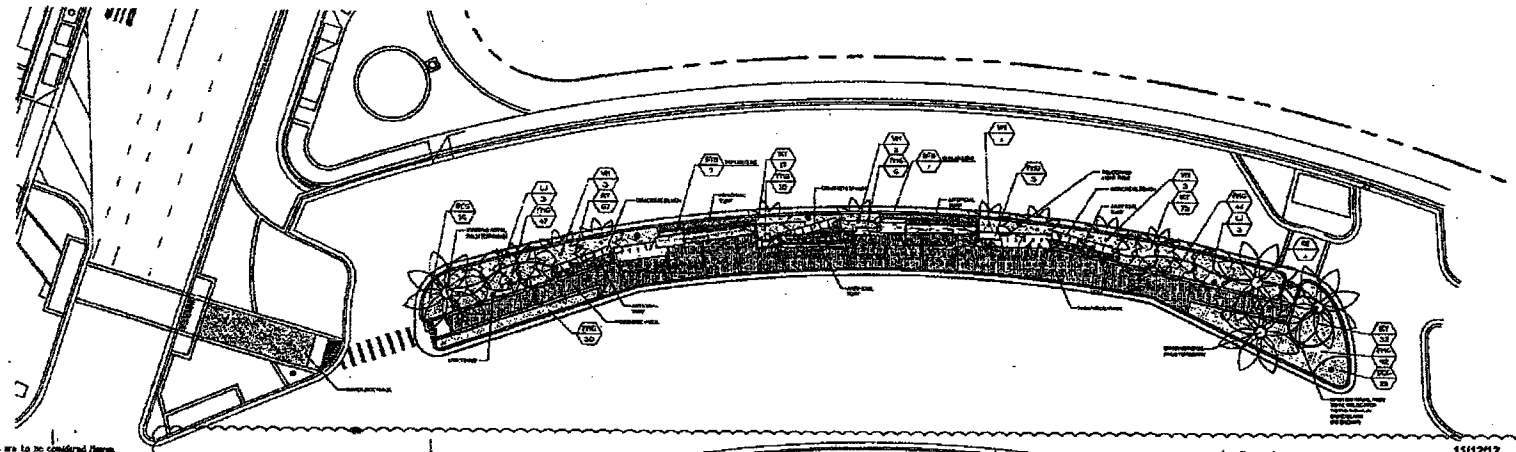
SYSTEM DESIGN OPERATING PRESSURE = Between 35 and 40 psi - CONNECT TO EXISTING IRRIGATION SYSTEM

SINGER ARCHITECTS

BROWARD COUNTY TRANSIT
HOLLYWOOD BUS SHELTER
FLORIDA

IRRIGATION PLAN

L1.01



SPECIAL INSTRUCTIONS

Contact The City of Hollywood's Public Works Dept. for supervision of relocation and removal of existing plant material. Refer to Sheet LC.01.

NOTES:

GENERAL PLANTING REQUIREMENTS

All areas shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or attribute as noted on the plans(s) or plan are required for final acceptance.

11/12/12

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by "Grades and Standards for Florida Nursery Plants" and "Grades and Standards for Florida Nursery Trees". All material shall be installed as per FDOT Standard Specification 580 and 544.

All plant material as included herein shall be guaranteed by the landscape contractor for a minimum period as follows: All trees and palms for 12 months. All shrubs, vines, groundcovers and miscellaneous planting materials for 90 days, and all lawn areas for 60 days after final acceptance by the owner or owner's representative.

All plant material shall be planted in planting soil that is delivered to the site in a clean loose and friable condition. All soil shall have a soil derived characteristic. Soil must be free of roots, sticks, and objectionable material including weeds and weed seeds as per CSI specifications.

Twelve inches (12") of planting soil 50/50 sand/topsoil mix is required around and beneath the root ball of all trees and palms, and 1 cubic yard per 50 bedding or groundcover plants.

All landscape areas shall be covered with Mulch to match exactly match a parking pods to a minimum depth of three inches (3") of cover when settled. Cypress bark mulch shall not be used.

All plant material shall be thoroughly watered in at the time of planting to dry planting permitted. All plant materials shall be planted such that the top of the root ball is flush with the surrounding grade.

All landscape and lawn areas shall be irrigated by a fully automatic sprinkler system adjusted to provide 100% coverage of all landscape areas. All heads shall be adjusted to 100% overlap as per manufacturers specifications and performance standards utilizing a rust free water source. Each system shall be installed with a rain sensor.

It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All plant material shall be installed with fertilizer, which shall an State approved on a complete fertilizer containing the required minimum of three elements in addition to N-P-K at which 50% of the nitrogen shall be derived from an organic source as per CSI specifications.

Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in marking and verifying all underground utilities prior to excavation.

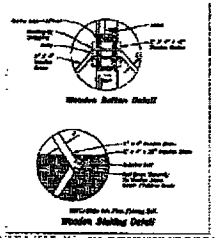
All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Architectural Alliance.

The plan takes precedence over the plant list.

SPECIAL INSTRUCTIONS

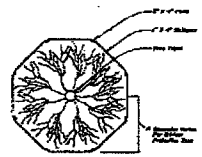
General site and turn grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative turn shaping shall be provided by the landscape contractor.

All sod areas as indicated on the planting plan shall receive Sod sodded for a Plant list water maintenance - solid sod. It shall be the responsibility of the landscape contractor to exhale in the bid, the repair of any sod which may be damaged from the landscape installation operation.

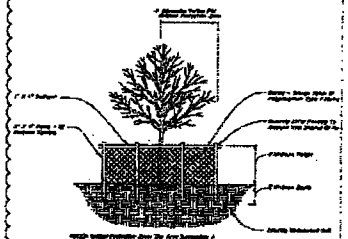


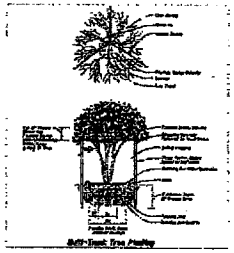
Wooden Batten Detail

Wooden Staking Detail

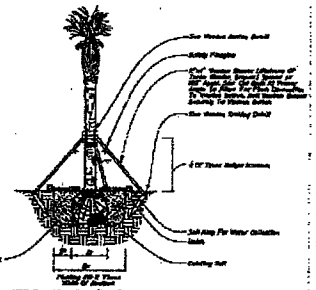


Tree Protection Barricade





Ball-Dead Tree Planting



Large Specimen For Up To 12" Clear Trunk

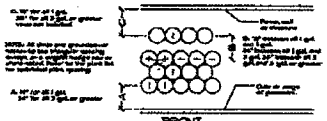
11/12/12

ADDITIONAL INSTRUCTIONS

For areas a which existing pavement is being removed and replaced with landscaped areas.
-Contractor shal preserve a continuous band of undisturbed compacted subsoil 18" from the back of curb.
-Contractor shal insure that all unsuitable soil subsoil, concrete, pavement, road base, stones over 3" diameter and all construction debris is removed from undisturbed areas to be planted and replaced with specified planting soil. s.p. 50% sand and 40% muck.

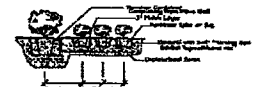
Areas to be planted with shrubs and/or groundcovers removed compacted soil to a depth of 12" and replace with specified planting soil. Planting soil shall come up to 4" from top of curb reserving space for 3" compacted mulch and 1" clear from top of curb.

SCALE: 1/16"=1'-0"



Typical Plant Spacing

NTS



Shrub & Ground Cover Planting Detail

NTS

PLANT LIST

Code	Drought	QTY.	Botanical Name / Common Name	Specifications
LARGE TREES / PALMS				
RE	(N)	24	1 Roystonea elata / Florida Royal Palm	B&B Field Grown, 19' GW
WM	V	9	Washingtonia robusta / Mexican Fan Palm	B&B Field Grown, 16-18' OA., Single,Matched Hts., FF
SMALL TREES / PALMS				
LJ		16	6 Ligustrum japonicum / Tree Ligustrum	B&B Field Grown, 10' X 10', multi-trunked.
ACCENTS / SHRUBS / GROUND COVERS				
DEG	(N)	V	31 Duranta 'Gold Mound' / Golden Duranta	3 Gal., 14x16" OA., 2' OC. Min. containerized ht: 30"
FMQ		V	232 Ficus microcarpa / Green Island Figs	3 Gal., 18-14" Ht., 18" Spd., 2' OC. Min. containerized ht: 30"
IXY		M	198 Ixora 'Yellow Queen Mini' / Yellow Ixora	3 Gal., 18-20" OA., 2' OC. Min. containerized ht: 42"
STB		M	14 Serenoa repens 'Silverdust' / Black Gold' Saw palmetto	18" pot, 30-32" OA specimen, 2' OC. Min. containerized ht: 30"
MISCELLANEOUS				
SOIL			50/50 Soil Mix	Sand / Topsoil

(N) Florida Native Plant Species
L Low Drought Tolerance
M Moderate Drought Tolerance
V Very Drought Tolerant

SINGER ARCHITECTS

BROWARD COUNTY TRANSIT
HOLLYWOOD BUS SHELTER
FLORIDA

LANDSCAPE PLAN

JS | HJ
AS SHOWN | 10-8-09

LP.01

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OCEAN DRIVE / S.R. A1A MEDIAN BEAUTIFICATION
FOR
CITY OF HOLLYWOOD CRA

FLORIDA'S HOLLYWOOD
COMMUNITY REDEVELOPMENT AGENCY

COMMUNITY REDEVELOPMENT AGENCY (CRA)
BOARD MEMBERS
JANUARY 2013

Peter Boher	CHAIRPERSON
Patricia Asseff	BOARD MEMBER
Peter D. Hernandez	BOARD MEMBER
Traci L. Collari	BOARD MEMBER
Richard Blattner	VICE CHAIRPERSON
Kevin D. Biederman	BOARD MEMBER
Linda Sherwood	BOARD MEMBER
Jorge Comejo, AICP	EXECUTIVE DIRECTOR

LANDSCAPE SHEET SCHEDULE

L0.01	OVERALL PLAN AND NOTES
L1.01–L1.12	PLANTING PLANS
L1.13	PLANTING DETAILS
L1.14	PLANTING SPECIFICATIONS
L2.01–L2.12	IRRIGATION PLANS
L2.13	IRRIGATION DETAILS
L2.14–L2.15	IRRIGATION SPECIFICATIONS

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PERMITEE:
CITY OF HOLLYWOOD
2600 HOLLYWOOD BLVD, ROOM 308
HOLLYWOOD, FLORIDA 33022
ATTN: MOSHE ANUAR, PROJECT MANAGER
PHONE (954) 921-3900

Kimley-Horn and Associates, Inc.
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PLANS PREPARED BY:
KIMLEY-HORN AND ASSOCIATES, INC.
SUITE 200
1920 WEKIVA WAY
WEST PALM BEACH, FLORIDA 33411
CERTIFICATE OF AUTHORIZATION NO. 696
PHONE (561) 845-0665

L.A. OF RECORD: JONATHAN D. HAIGH
L.A. NO.: #LA 6666795

PROJECT SITE LOCATION

END PROJECT
SHERIDAN STREET
Mile marker: 4.089

BEGIN PROJECT
NEW YORK STREET
Mile marker: 2.793

PROJECT AREA:
±1.2 MILES
(NOT TO SCALE)

PROJECT NUMBER: BCRA 12-010

Kimley-Horn and Associates, Inc.
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PHONE (561) 845-0665 / FAX (561) 863-8773
WWW.KIMLEY-HORN.COM CA 0000696

SCALE	NO SCALE
DESIGNED BY	JH
DRAWN BY	JH
CHECKED BY	JH
DATE	1.23.13
FLORIDA REG. No.	LA 6666795

NO.	REVISIONS	DATE	BY

COVER

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE JAN 2013
PROJECT NO. 044241012
SHEET NUMBER L-0.00

Drawing name: K:\WPB_LRC\044241012 Hollywood A1A\ADV\L0.00-L0.01_Cover-Overall.dwg L-0.00 Jan 28, 2013 4:34pm by: tristacrosis
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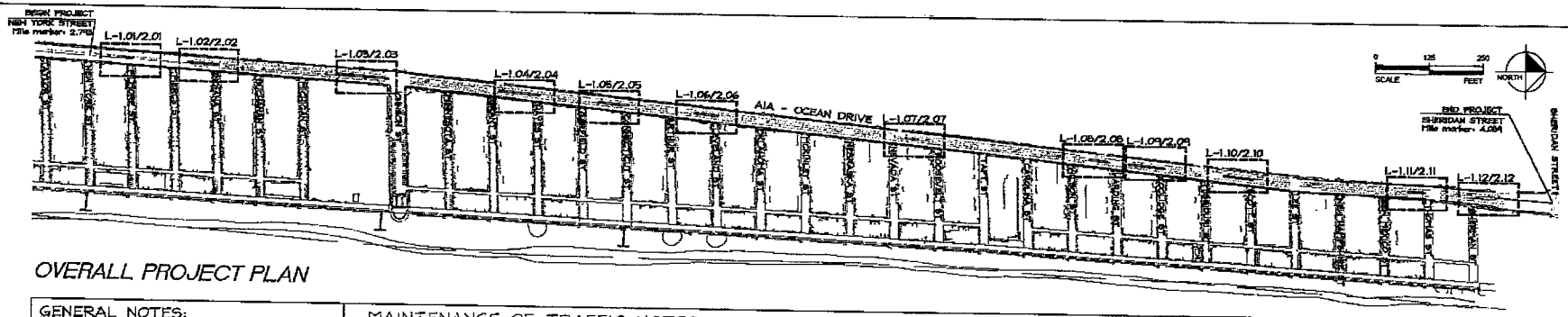

OVERALL PROJECT PLAN

GENERAL NOTES:

1. ALL WORK SHALL BE CONFINED TO THE A1A RIGHT OF WAY

2. CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AS WARRANTED.

3. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE PERFORMED AT THE CONTRACTOR'S RISK.

4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.

5. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.

6. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.

7. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY (CALL SUNSHINE DIG/CALL - 811).

8. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

9. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.

10. ALL SURPLUS EXCAVATION SHALL BE TAKEN TO A SITE DESIGNATED BY OWNER, AT NO ADDITIONAL COST TO THE OWNER. IF OWNER CHOOSES, THE CONTRACTOR MAY TAKE POSSESSION OF SURPLUS EXCAVATION MATERIAL.

11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION. FDOT LANDSCAPE PERMIT WILL BE PROVIDED BY THE CITY OF HOLLYWOOD.

12. CONTRACTOR IS TO MAINTAIN CONTROLLED PEDESTRIAN AND A1A ACCESS THROUGH ALL AREAS OF THE SITE THROUGHOUT CONSTRUCTION PERIOD.

13. MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.

14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.

15. PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNHARRIED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.

MAINTENANCE OF TRAFFIC NOTES:

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL AS PERTAINS TO MAINTENANCE OF TRAFFIC, THE CURRENT EDITIONS OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
2. THE CONTRACTOR SHALL DEVELOP MAINTENANCE OF TRAFFIC PLAN OF HIS OWN, MEETING THE REQUIREMENTS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND THE FDOT INDEX AND MANUAL. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. THE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
3. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
4. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY COORDINATING WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, MIAMI-DADE COUNTY TRAFFIC OPERATIONS, AND THE CITY OF HOMESTEAD.
5. THE CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF A DETOUR IN ACCORDANCE WITH SECTION 336.07 OF THE FLORIDA STATUTES.
6. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
7. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
8. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS. NO INTERRUPTION TO TRAFFIC IS PERMITTED FROM MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M. OR ON WEEKENDS AND HOLIDAYS.
9. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE 25 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES.
10. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS INCLUDE ALL COMMERCIAL ESTABLISHMENTS AND BUSINESSES.
11. SIGNS ARE TO BE LOCATED BEFORE EACH BUSINESS OR SHOPPING PLAZA ENTRANCE WHERE CONSTRUCTION NEGATIVELY IMPACTS THE ACCESS TO THE BUSINESS OR SHOPPING PLAZA OR AS DIRECTED BY THE ENGINEER. THE SIGNS WILL TYPICALLY BE REQUIRED AT EACH ENTRANCE. SIGNS ARE TO BE DISPLAYED AS DESCRIBED IN INDEX 600 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS.
12. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
13. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING, AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
14. EACH EXISTING STREET NAME AND TRAFFIC SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED IN THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
16. FOR DROP-OFF, THE CONTRACTOR'S ATTENTION IS DIRECTED TO FDOT STANDARD INDEX NO. 600, SHEET 10. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
17. DURING ASPHALT CONSTRUCTION OPERATIONS, NO MORE THAN 1 1/4" DROP-OFF BETWEEN ADJACENT TRAVEL LANES OR AT TRANSVERSE JOINTS SHALL BE ALLOWED WHEN LANES ARE OPEN TO TRAFFIC. WHERE DROP OFF CONDITIONS EXIST, THE SIGNING FOR UNEVEN LANES SHALL BE INSTALLED FOR THE DURATION OF THE CONDITION (NB-8).
18. THE CONTRACTOR IS TO PLACE TEMPORARY OR REMOVABLE PAVEMENT MARKINGS BETWEEN EACH LAYER OF PAVEMENT, AND IS RESPONSIBLE FOR THE TEMPORARY RELOCATION OF STOP BARS & STOP SIGNS AS APPLICABLE. PAVEMENT MARKINGS AND BARRICADES PLACEMENT SHALL BE APPROPRIATELY COORDINATED.
19. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS. COST OF REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REGARDLESS OF METHOD, IS INCLUDED IN THE RELATED PAY ITEMS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
20. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT. ON THE TANGENT SECTIONS BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
21. TEMPORARY RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON THE EDGE, CENTER, AND LANE LINES OF ALL CROSS-OVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPMS SHALL BE 40 FT. ON CENTERS FOR TANGENT SECTIONS AND 5 FT. FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPMS SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
22. CROSS STREET INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL STRUCTURAL COURSE IS IN PLACE.
23. AT ALL INTERSECTING STREETS, NO LESS THAN ONE "ROAD CONSTRUCTION AHEAD" SIGN AND ONE "ROAD CONSTRUCTION" SIGN MUST BE INSTALLED. (TWO EACH FOR STREETS WITH MEDIAN).
24. ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER.
25. HOT TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 120 TYPE SP ASPHALTIC CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL, WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
26. PAVED TEMPORARY CONNECTIONS SHALL BE PROVIDED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER, PAYMENT TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
27. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 8 INCH LIMEROCK BASE, PRIME COAT AND 1 INCH TYPE S ASPHALTIC CONCRETE. THE BASE LAYER SHALL BE PLACED OVER A FIRM, DRYWELLING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
28. TRAFFIC SHALL BE MAINTAINED ON A PAVED, DUST-FREE SURFACE AT ALL TIMES.
29. ALL LANES OPEN TO TRAFFIC SHALL BE A MINIMUM OF 10' IN WIDTH.
30. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 INCHES (150 MM) ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED MATERIAL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
31. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND DELINEATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF 4 FT. WIDE WITH A SMOOTH SURFACE THAT IS NOT BLOCK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
32. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ROADWAY LIGHTING ILLUMINATION LEVELS DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING OR SUPPLY TEMPORARY LIGHTING UNTIL THE PROPOSED SYSTEM IS IN OPERATION. THE CONTRACTOR SHALL SUBMIT A COMPLETE PROPOSED METHOD OF MAINTAINING LIGHTING FOR APPROVAL BY THE PROJECT ENGINEER PRIOR TO BEGINNING WORK. REFER TO ROADWAY LIGHTING PLANS AND OTHER APPLICABLE DRAWINGS FOR INFORMATION ON EXISTING AND PROPOSED ROADWAY LIGHTING AND DETAIL OF ROADWAY CONSTRUCTION. COORDINATE CLOSELY WITH HOMESTEAD ENERGY SERVICES. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
33. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE EROSION CONTROL MEASURES TO PREVENT CLOG OF PROPOSED DRAINAGE STRUCTURES AND SEDIMENT INTRUSION ON WATERWAYS DURING CONSTRUCTION. THESE MEASURES SHALL BE APPROVED BY THE ENGINEER AND CONFORM WITH CURRENT EDITION OF THE FDOT DESIGN STANDARDS FOR EROSION CONTROL (100 SERIES).
34. CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. THE EXISTING DRAINAGE SYSTEM SHALL BE KEPT OPERATIONAL OR TEMPORARY DRAINAGE PROVIDED WHILE THE PROPOSED DRAINAGE SYSTEM IS BEING CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY DRAINAGE AS APPROVED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
35. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE TEMPORARILY SODDED FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. COST ASSOCIATED WITH FURNISHING, LAYING, AND REMOVING TEMPORARY SOD TO BE INCLUDED IN ITEM 102-1 MAINTENANCE OF TRAFFIC. TEMPORARY SOD IS TO BE BAHIA, ESTIMATED QUANTITY IS 8185 SY. TEMPORARY BAHIA SOD IS TO BE REMOVED WHEN APPROPRIATE FOR PLACEMENT OF PERMANENT SOD AND LANDSCAPING. SEE LANDSCAPE PLANS.
36. THE CONTRACTOR SHALL PERMANENT AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AS DIRECTED BY THE ENGINEER. MESSAGES FOR THE PCMS SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE IN PLACE ONE WEEK BEFORE THE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. PCMS INSTALLATION, OPERATION, AND REMOVAL TO BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
37. THE CONTRACTOR MUST PROVIDE FLASHING ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.
38. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING BUSINESSES AT LEAST 20 WORKING DAYS PRIOR TO COMMENCING ANY WORK ON THE ROAD IN THE VICINITY OF THE BUSINESS OR ANY ROAD THAT IS USED TO ACCESS THE BUSINESS.
39. THE CONTRACTOR SHALL CONTACT MIAMI-DADE TRANSIT AT (305)637-8444 ONE (1) WEEK PRIOR TO ANY LANE CLOSURES.
40. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY TRAFFIC SIGNS AND SIGNALS DIVISION LOCATED AT 700 NW 94 STREET, MIAMI, FLORIDA 33146 AND PHONE NO. (305) 592-2470, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY SIGNALS, AND MAINTAINING THE EXISTING TEMPORARY TRAFFIC SIGNAL SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
41. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OR PHONE LINE CONSTRUCTION. CONTRACTORS SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

FDOT LANDSCAPE PERMIT CONDITIONS:

1. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF HOLLYWOOD TO OBTAIN A COPY OF THE FDOT LANDSCAPE PERMIT AND COMPLY WITH ITS CONDITIONS.

2. DURING CONSTRUCTION OF LANDSCAPE PROJECT, ALL SAFETY REGULATIONS OF THE DEPARTMENT SHALL BE OBSERVED AND THE HOLDER MUST TAKE MEASURES, INCLUDING PLACING AND DISPLAYING OF SAFETY DEVICES, THAT MAY BE NECESSARY IN ORDER TO SAFELY CONDUCT THE PUBLIC THROUGH THE PROJECT AREA IN ACCORDANCE WITH APPROVED PLANS AS REQUIRED IN RULE 14-40.008(3)(9)7, FLORIDA ADMINISTRATIVE CODE.

CALL 2 WORKING DAYS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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WWW.KIMLEY-HORN.COM CA 00000696

NO.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: AR
DRAWN BY: TR
CHECKED BY: AR
JONATHAN M. HAGH
FLORIDA REGISTRATION NUMBER: L46666795
DATE: 1.23.13

OVERALL PLAN & GENERAL NOTES

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
0442241012
SHEET NUMBER
L-0.01

Drawing name: K:\FPB_LRG\0442241012 Hollywood A1A\CAD\LD.00-L0.01_Cover-Overall.dwg L-0.01 Jan 23, 2013 3:55pm by: jonathan.hagh
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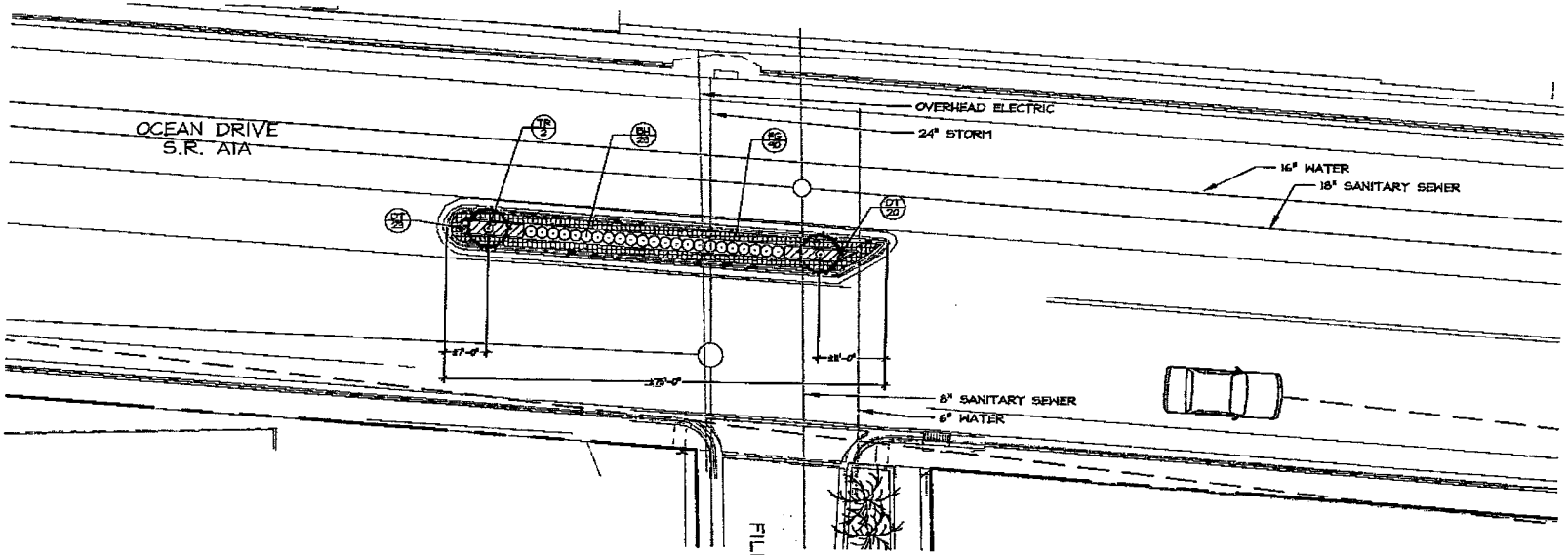

PLANT SCHEDULE MEDIAN 1

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	2
SHRUBS						
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	O.C. 24" O.C.	12"X12"	SIZE 28
SHRUB AREAS						
PG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	90
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	48

NORTH

0 10 20
SCALE FEET

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
9. REFER TO ALL IRRIGATION NOTES ON IRRIGATION PLANS PRIOR TO REMOVING EXISTING PLANTS. CITY OF HOLLYWOOD WILL TAKE OWNERSHIP OF CERTAIN SALVAGED IRRIGATION EQUIPMENT.

EXISTING UTILITIES SHOWN ARE SCALED FROM CITY-PROVIDED GIS DRAWINGS. CONTRACTOR RESPONSIBLE FOR LOCATING UTILITIES (CALL 811) PRIOR TO EXCAVATION.

PLANT SCHEDULE OVERALL

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY	MAINTENANCE REQUIREMENTS:
TREES							
PS	Phoenix sylvestris Florida Fancy	Sylvester Date Palm	F.G.	14" Cal.	14' CT	7	Prune only dead fronds at trunk. Prune fruit stalks as they appear
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	48	Prune only dead fronds at trunk. Prune fruit stalks as they appear
SHRUBS							
BH	Bougainvillea x 'Helen Johnson'	COMMON NAME Compact Bougainvillea	CONT 3 gal	O.C. 24" O.C.	SIZE 12"X12"	QTY 516	Maintain at 24" H
SHRUB AREAS							
PG	Ficus microcarpa 'Green Island'	COMMON NAME Green Island Ficus	CONT 3 gal@ 18" oc	O.C. 18" O.C.	SIZE 12"x12"	QTY 1,824	Maintain at 18" H
GROUND COVERS							
DT	Dianella tasmanica 'Blueberry'	COMMON NAME Blueberry Flax Lily	CONT 1 gal@ 12" oc	O.C. 12" O.C.	SIZE 10" H.	QTY 818	Trim dead flower stalks

ALTERNATE BID ITEM #1

Replace 48 Thatch Palms with 48 Alexander Palms per the following specification:

Ptychosperma elegans Single Trunk.	Alexander Palm	F.G.	4" Cal.	18' OA

REFER TO EACH SHEET FOR MEDIAN-BY-MEDIAN QUANTITIES

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN / AS NOTED
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
LANDSCAPE ARCHITECT JONATHAN HUGH
FLORIDA REGISTRATION NUMBER: L-6666795
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.01

Drawing name: K:\WPB_LRD\044241012 Hollywood A1A\CAD\L1.01-L1.12_PLANTING PLAN.dwg L-1.01 Jan 24, 2013 5:30pm by: jonathan.hugh
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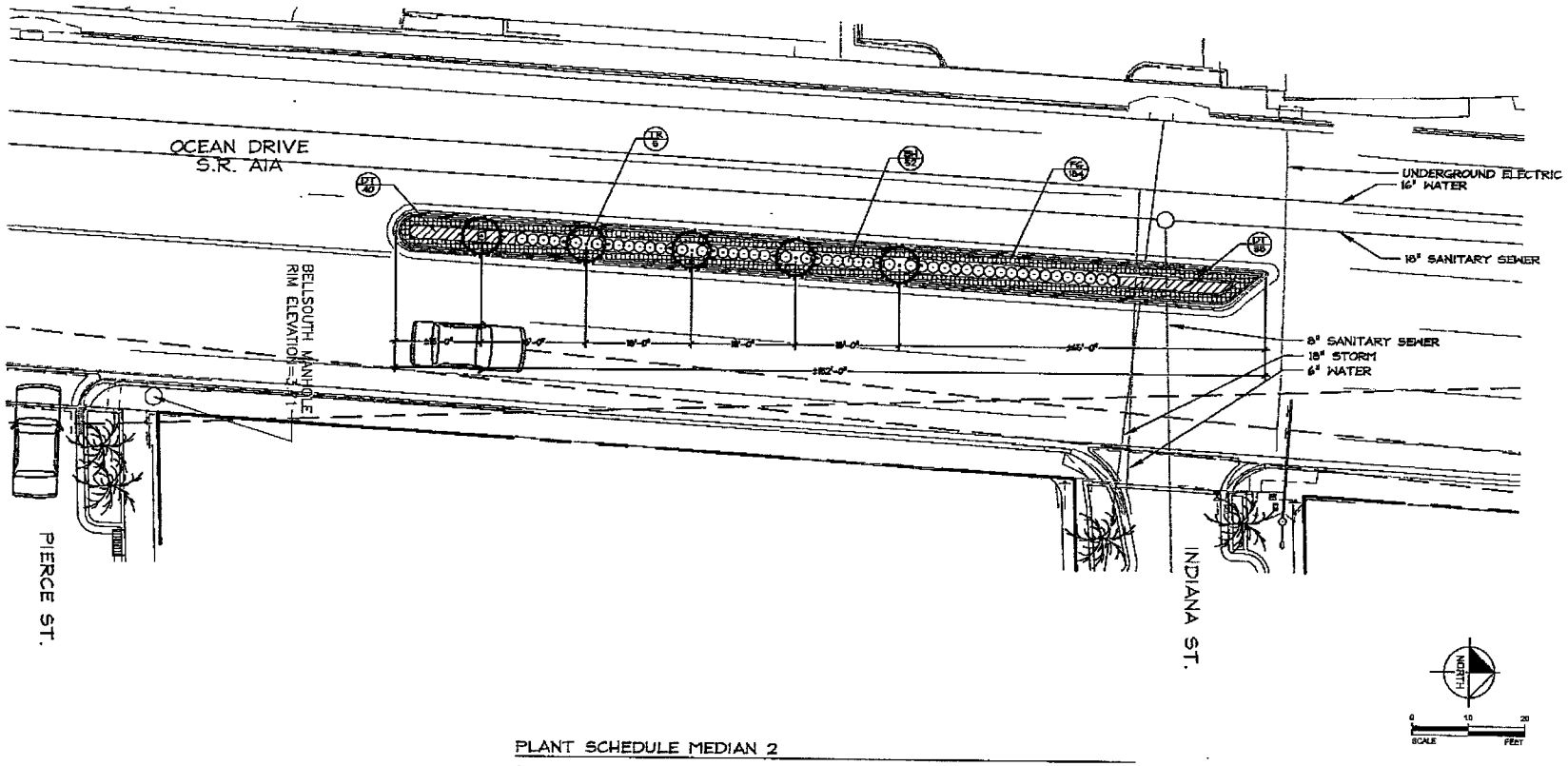

PLANT SCHEDULE MEDIAN 2

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	6
SHRUBS						
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	52
SHRUB AREAS						
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"X12"	184
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	78

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SCALE AS SHOWN
AS NOTED
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
DATE: 1.23.13
FLORIDA REGISTRATION NUMBER: LA6666795

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.02

Drawing name: K:\WPB_LPRO\044241012 Hollywood AVA\CADD\L-01-L-1.17_PLANTING PLAN_R.dwg L-1.02 Jan 23, 2013 4:51pm by: jonathan.hall@

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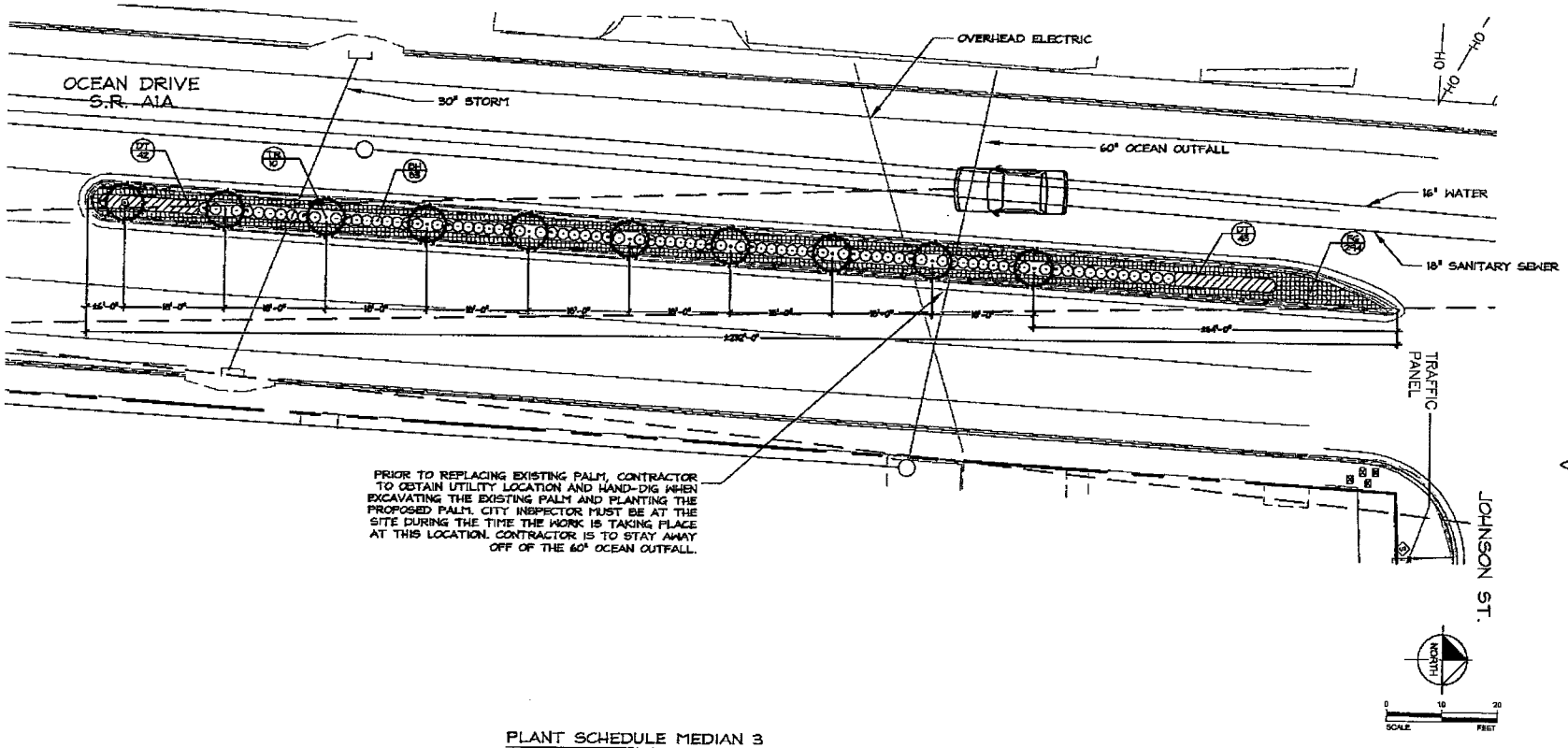

PLANT SCHEDULE MEDIAN 3

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	10
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	85
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 15" oc	18" O.C.	12"x12"	294
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	86

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NO.	REVISIONS	DATE
		BY

SCALE: AS SHOWN
AS NOTED
DESIGNED BY: JH
DRAWN BY: TR
CHECKED BY: JH
DATE: 1.23.13
PROFESSIONAL ENGINEER (NOTICE)
JONATHAN HIGH
STATE OF FLORIDA LICENSE NO. 66795
CA 0000696

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.03

Drawing name: I:\NPD_LRO\044241012 Hollywood A1A\CAD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.03 Jan 24, 2013 5:14pm by: jonathon.high

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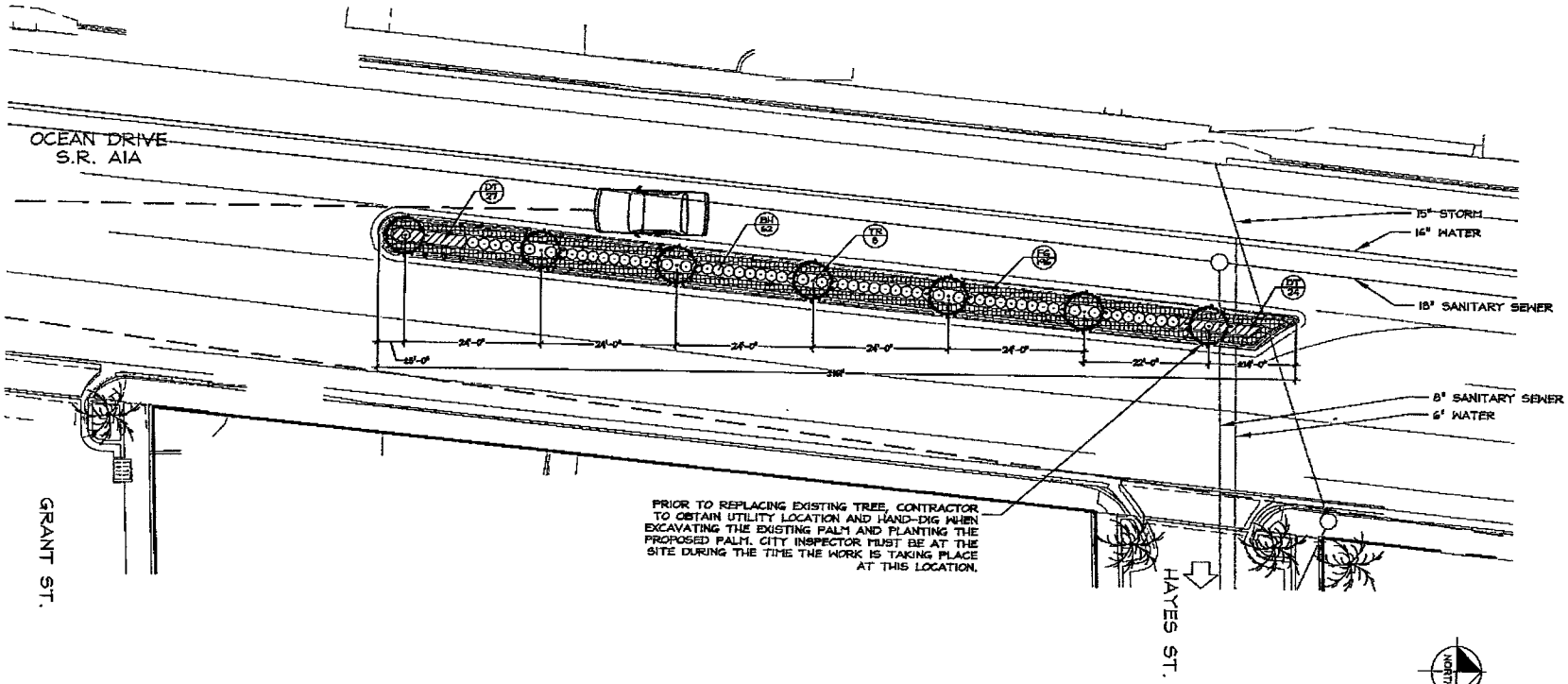

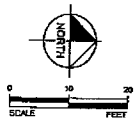

PLANT SCHEDULE MEDIAN 4

	BOTANICAL NAME	COMMON NAME	CONT	CAL.	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Keney, stick trunk, top of trunk matching to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	5
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
BN	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	62
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	146
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	51

EXISTING UTILITIES SHOWN ARE SCALED FROM CITY-PROVIDED GIS DRAWINGS. CONTRACTOR RESPONSIBLE FOR LOCATING UTILITIES (CALL 811) PRIOR TO EXCAVATION.

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SEAL: AS SHOWN
AS NOTED
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
DATE: 1.23.13
JAMES HALL III, P.E.
FLORIDA REGISTRATION NUMBER
A8556795

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.04

Drawing name: K:\WPB_LIBRY\044241012 Hollywood A1A\CADD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.04 Jan 24, 2013 5:13pm by: jonathan.hagh

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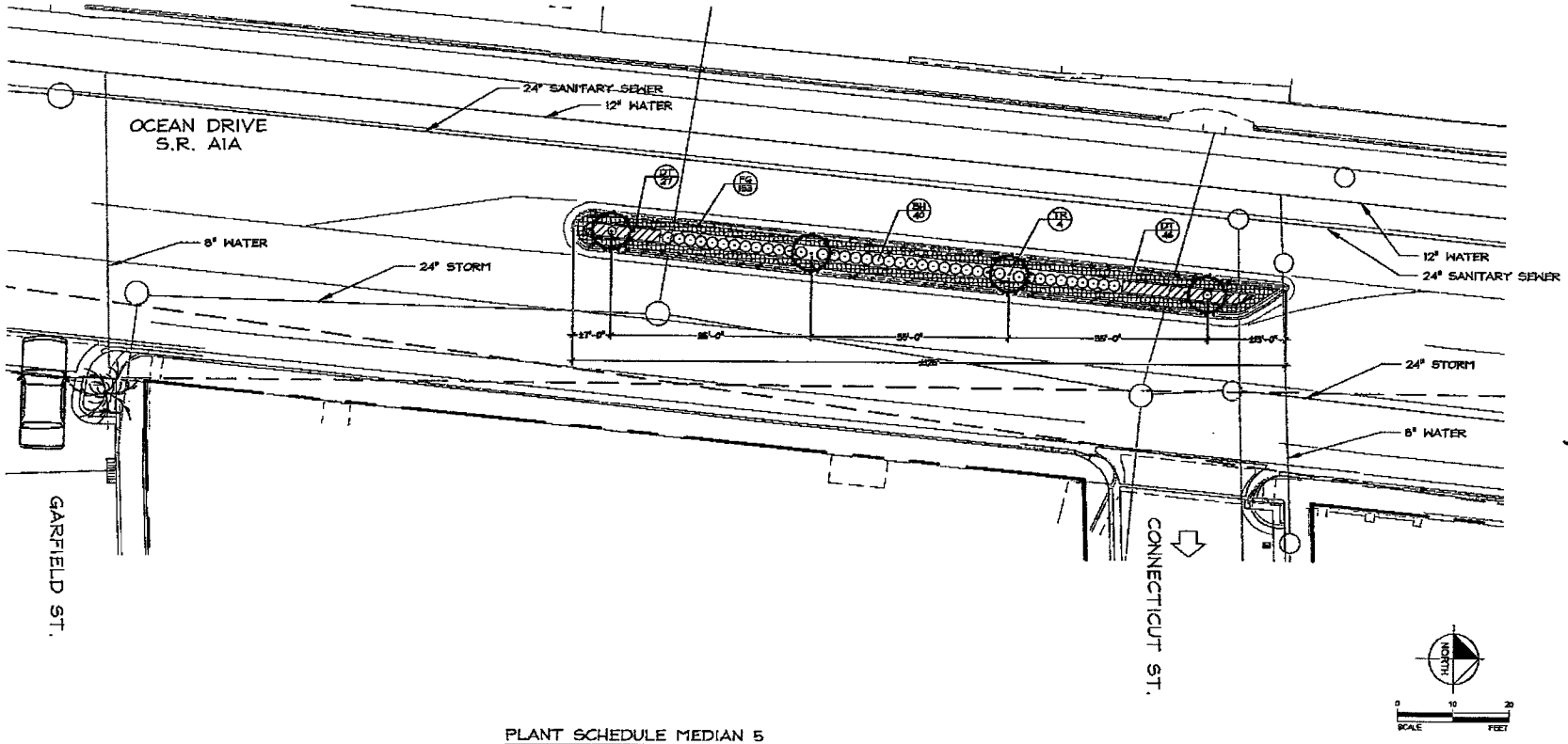

PLANT SCHEDULE MEDIAN 5

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	4
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	5 gal	24" O.C.	12"x12"	40
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	153
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	73

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SCALE: AS SHOWN
ALL SHEETS
DESIGNED BY: JH
DRAWN BY: TK
CHECKED BY: JH
JONATHAN D. HAYES
PROFESSIONAL LANDSCAPE ARCHITECT
FLORIDA LICENSE NO. LA0666785
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.05

Drawing name: K:\WPB_LAND\044241012 Hollywood A1A\CAD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.05 Jan 23, 2013 4:53pm by: jonathan.hayes
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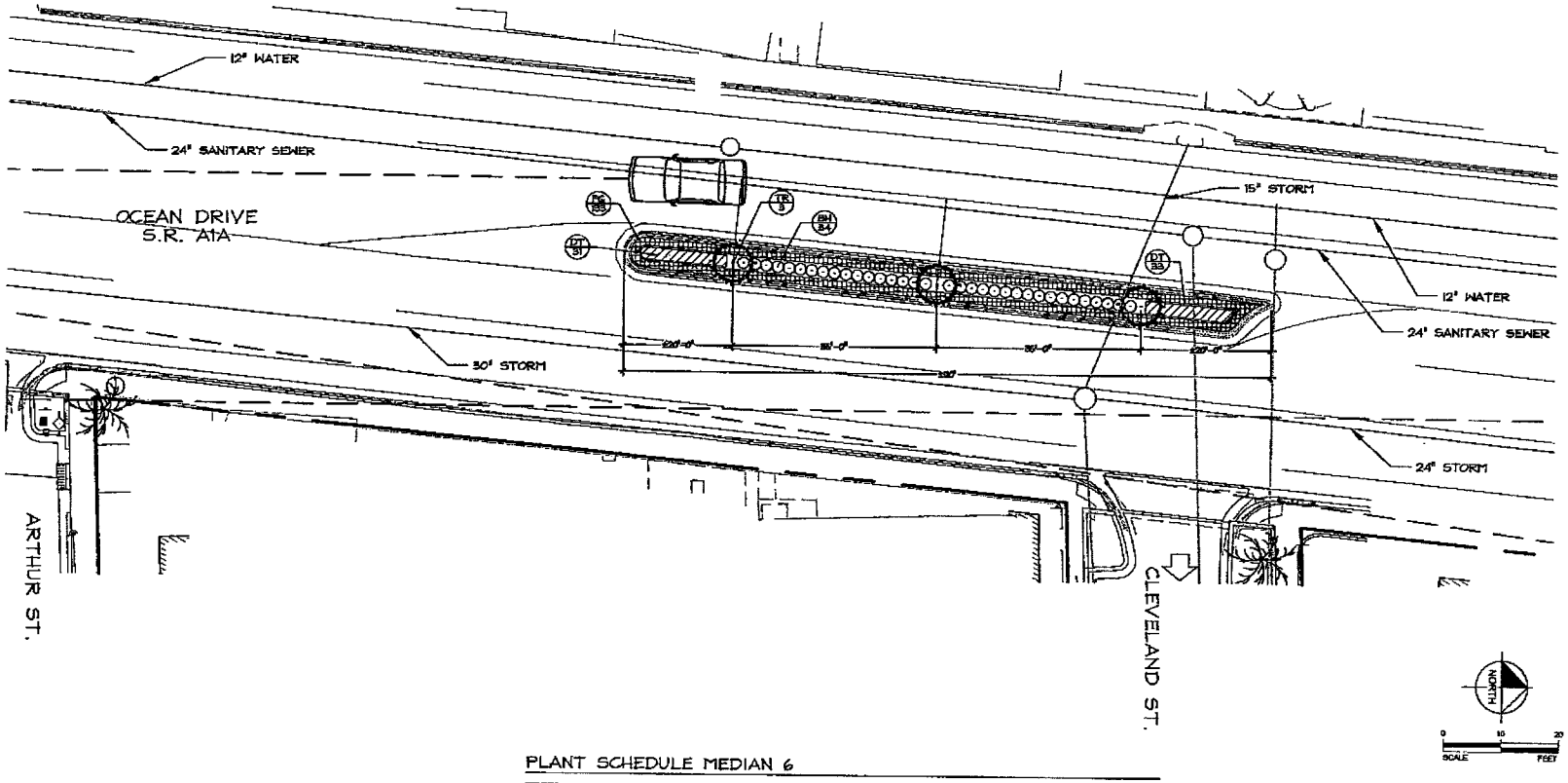

PLANT SCHEDULE MEDIAN 6

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matching to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	5
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	34
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 15" oc	18" O.C.	12"x12"	135
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	84

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SCALE: AS NOTED
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DRAWN BY JK
CHECKED BY JB
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.06

Drawing name: K:\WPB_LRD\044241012 Hollywood A1A\CAD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.06 Jan 23, 2013 4:56pm by jonathan.holgh
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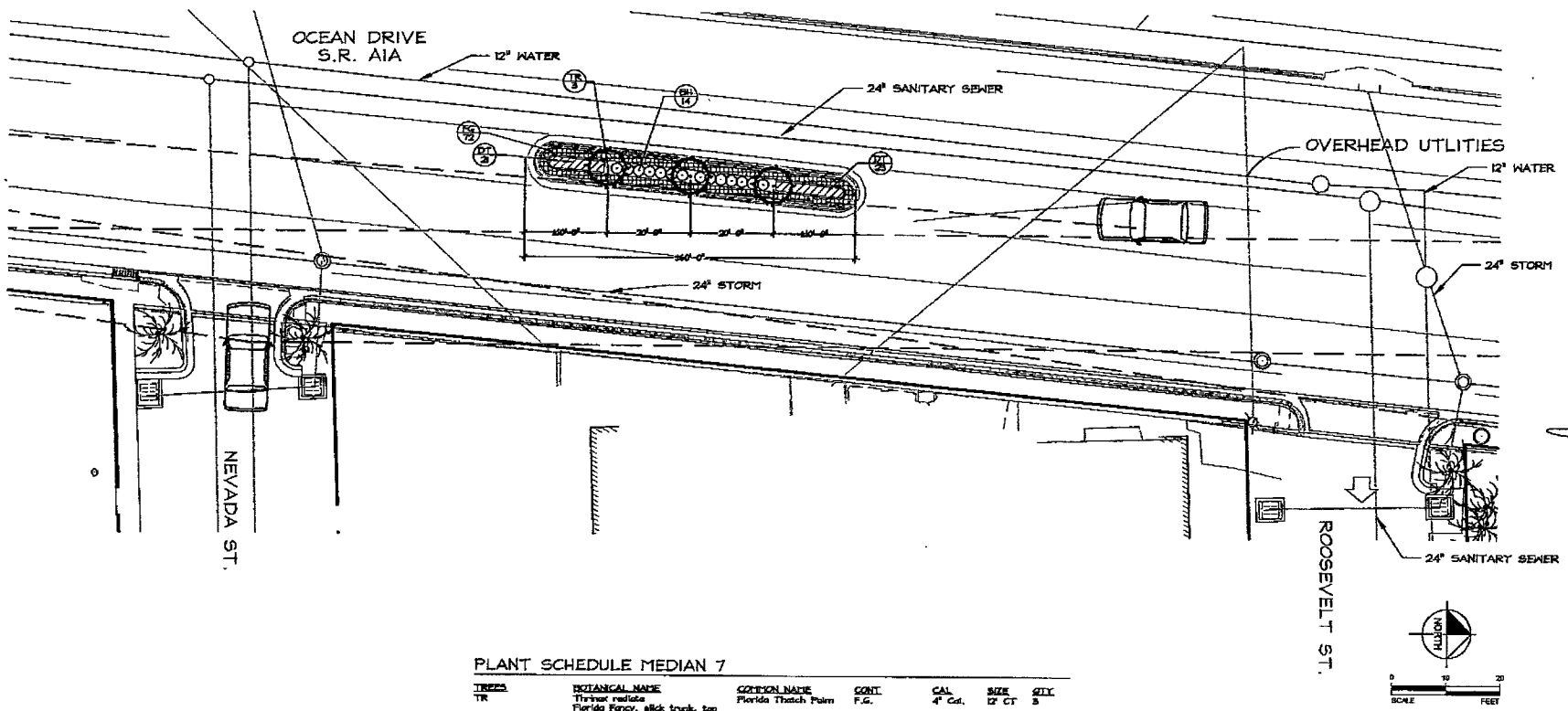

PLANT SCHEDULE MEDIAN 7

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	3

	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
SHRUBS						
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	14
SHRUB AREAS						
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	72
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	44

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SCALE: AS SHOWN
DATE: AS NOTED
ISSUED BY: TR
DRAWN BY: TR
CHECKED BY: JH
JOSHUA D. HAGEN
LICENSED ARCHITECT
FLORIDA REGISTRATION NUMBER
LA0666795
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.07

Drawing name: K:\WPB_LDTD\044241012 Hollywood AIA\CAD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.07 Jan 28, 2013 9:17am by: trisha.rosile

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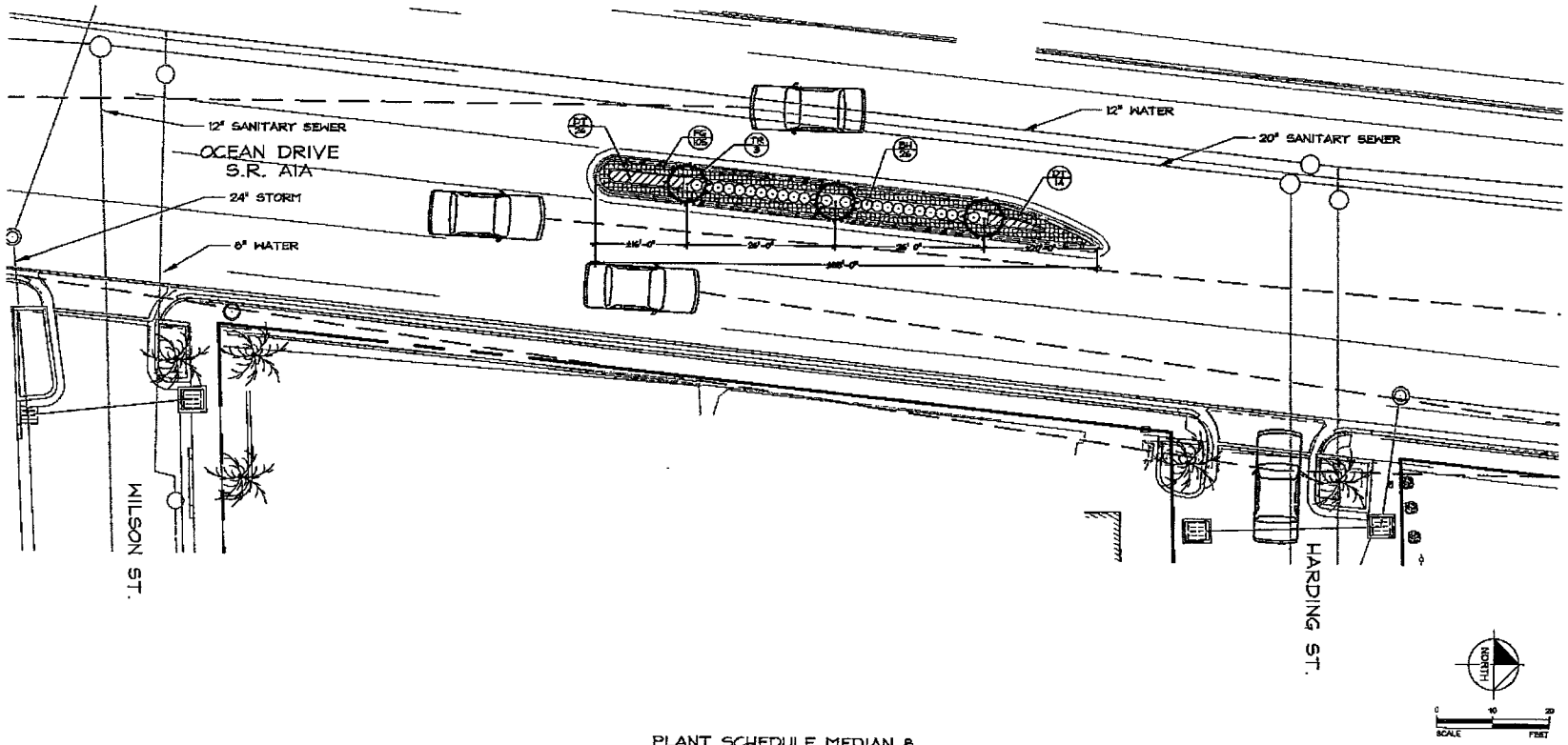

PLANT SCHEDULE MEDIAN 8

	BOTANICAL NAME	COMMON NAME	CONT	CAL.	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	26
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	108
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	QTY
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	40

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SCALE: 1" = 10'-0"
AS SHOWN
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
JONATHAN H. HUGH
LICENSED PROFESSIONAL ENGINEER
LA5666795
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.08

Drawing name: K:\WPB_LIRC\044241012 Hollywood A1A\CAD\L1.03-L1.12_PLANTING PLAN_R.dwg L-1.08 Jan 23, 2013 4:07pm by: jonathan.hugh
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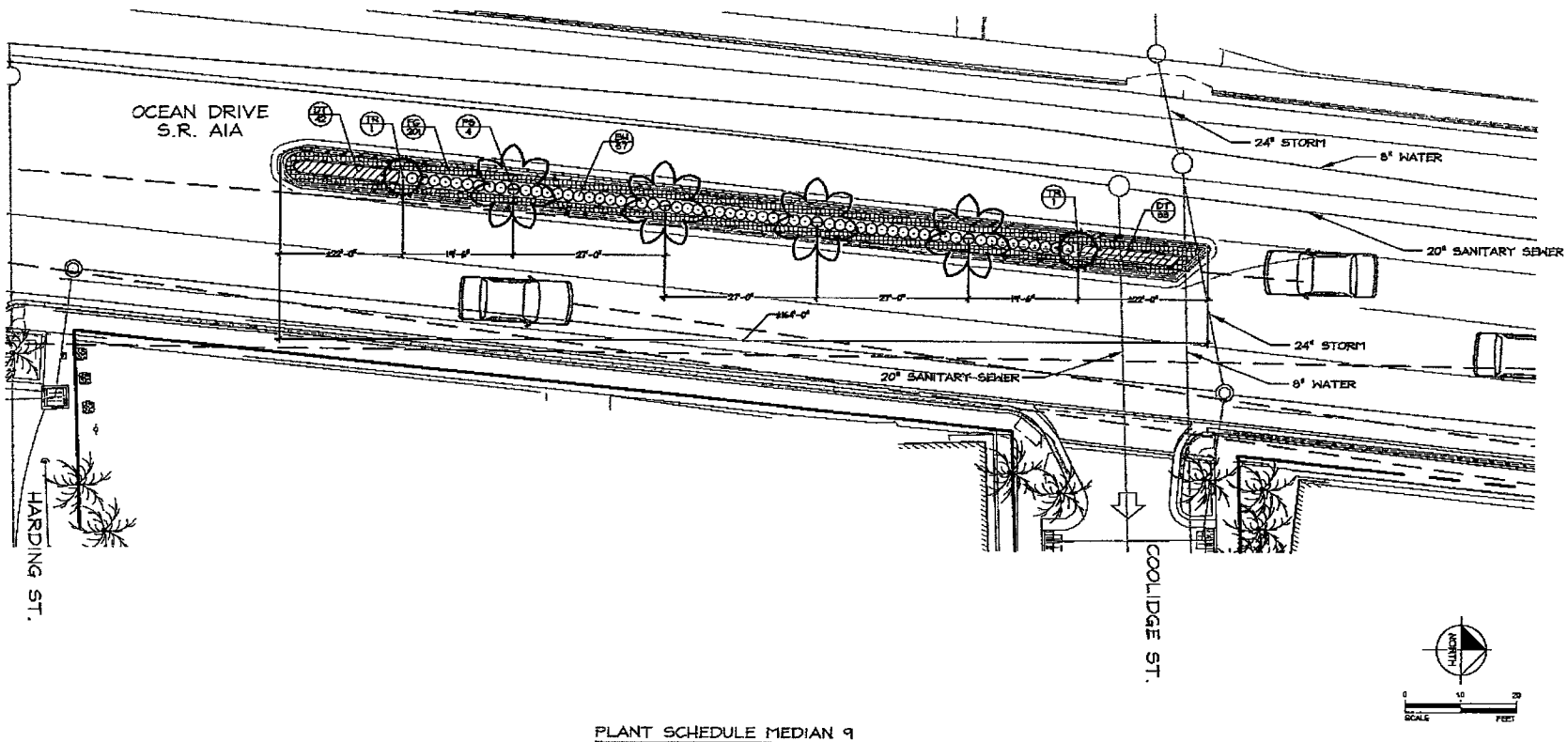

PLANT SCHEDULE MEDIAN 9

TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**QTY**
PS	Phoenix sylvestris Florida Fancy	Sylvester Date Palm	F.G.	14" Cal.	14' CT	4
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	2
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**QTY**
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	57
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**QTY**
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	201
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**QTY**
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	75

EXISTING UTILITIES SHOWN ARE SCALED FROM CITY-PROVIDED GIS DRAWINGS. CONTRACTOR RESPONSIBLE FOR LOCATING UTILITIES (CALL 811) PRIOR TO EXCAVATION.

No.	REVISIONS	DATE	BY

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LANDSCAPE ARCHITECT: JOHN HUN D. LAUCH
FLORIDA REGISTRATION NUMBER: LA6666795
DATE: 1.23.13

SCALE: AS SHOWN / AS NOTED
DESIGNED BY: JH
DRAWN BY: TR
CHECKED BY: JH

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.09

Drawing name: K:\WPB_LWR\044241012 Hollywood A1A\CAD\LI\01-LI.1.12_PLANTING PLAN_R.dwg L-1.09 Jan 23, 2013 4:58pm by: jonathan.haigh

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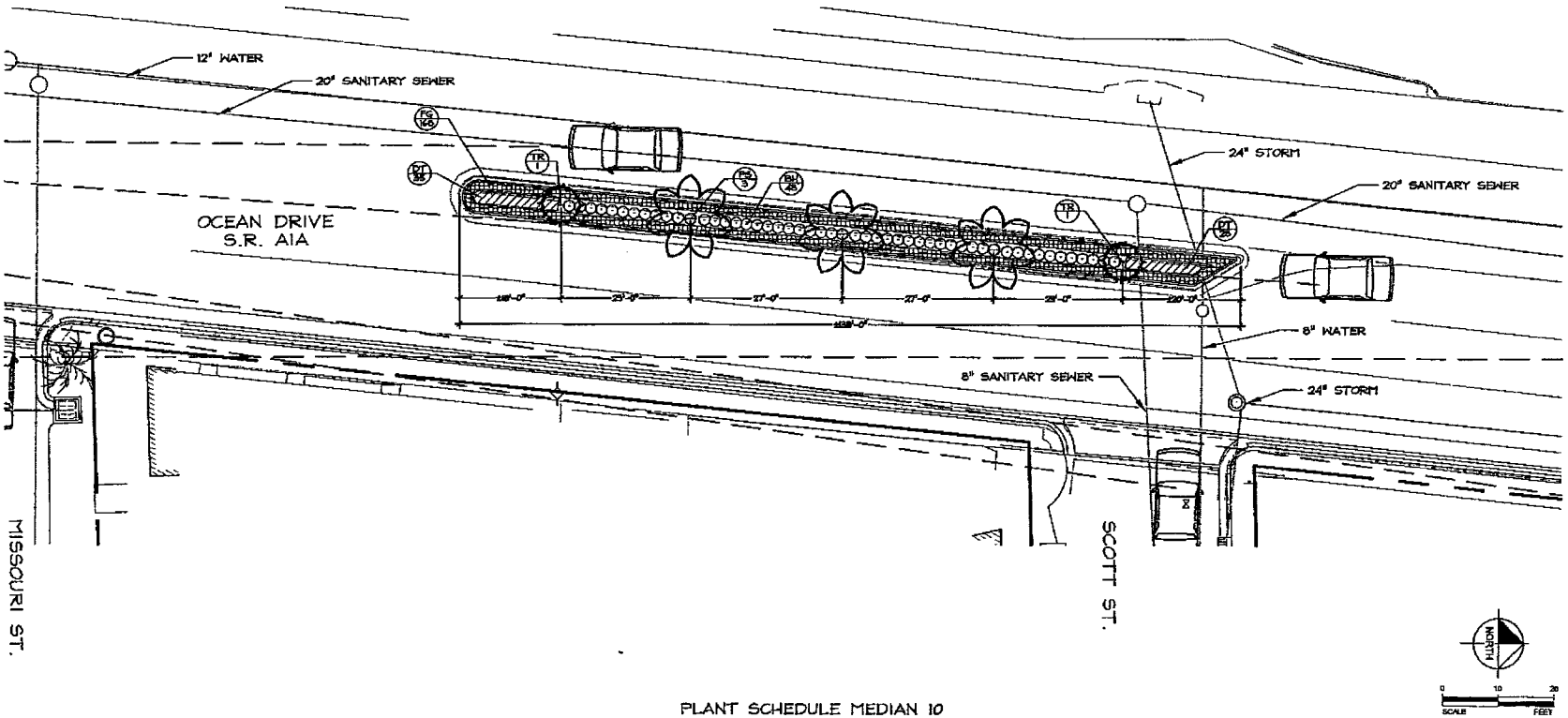

PLANT SCHEDULE MEDIAN 10

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
PS	Phoenix sylvestris Florida Fancy	Sylvester Date Palm	F.G.	14" Cal.	14' CT	3
TR	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	2
SHRUBS						
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	24" O.C.	12"X12"	48
SHRUB AREAS						
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"X12"	165
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	63

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CONTRACTOR
JONATHAN D. MAGE
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PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.10

Drawing name: K:\FMS_LIRO\044241012 Hollywood A1A\CAD\LD\L-1.10_PLANTING PLAN_R.dwg L-1.10 Jan 23, 2013 4:59pm by: jonathan.haigh

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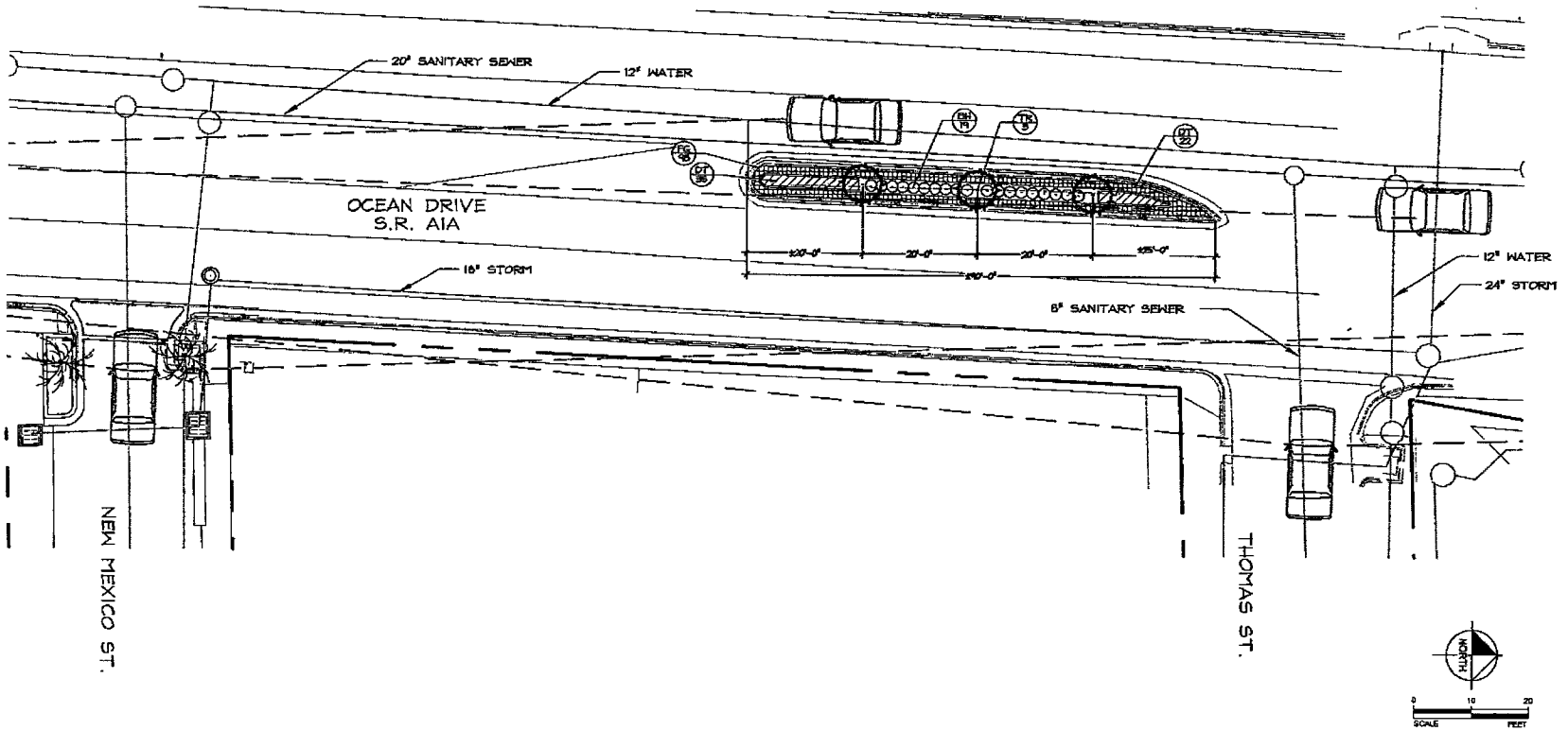

PLANT SCHEDULE MEDIAN II

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TK	Thrinax radiata Florida Fancy, slick trunk, top of trunk matting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	3
SHRUBS						
BH	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	5 gal	24" O.C.	12"X12"	19
SHRUB AREAS						
FS	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 18" oc	18" O.C.	12"x12"	48
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	12" O.C.	10" H.	57

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CHECKED BY JH
CONSULTANT CERTIFICATION: JONATHAN D. HUGHES
LICENSED LANDSCAPE ARCHITECT NUMBER: LA6666795
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
049241012
SHEET NUMBER
L-1.11

Drawing name: K:\WPB_LAND\049241012 Hollywood A1A\CAD\L1.01-L1.12_PLANTING PLAN_R.dwg L-1.11 Jan 23, 2013 2:20pm by: jonathan.hughes
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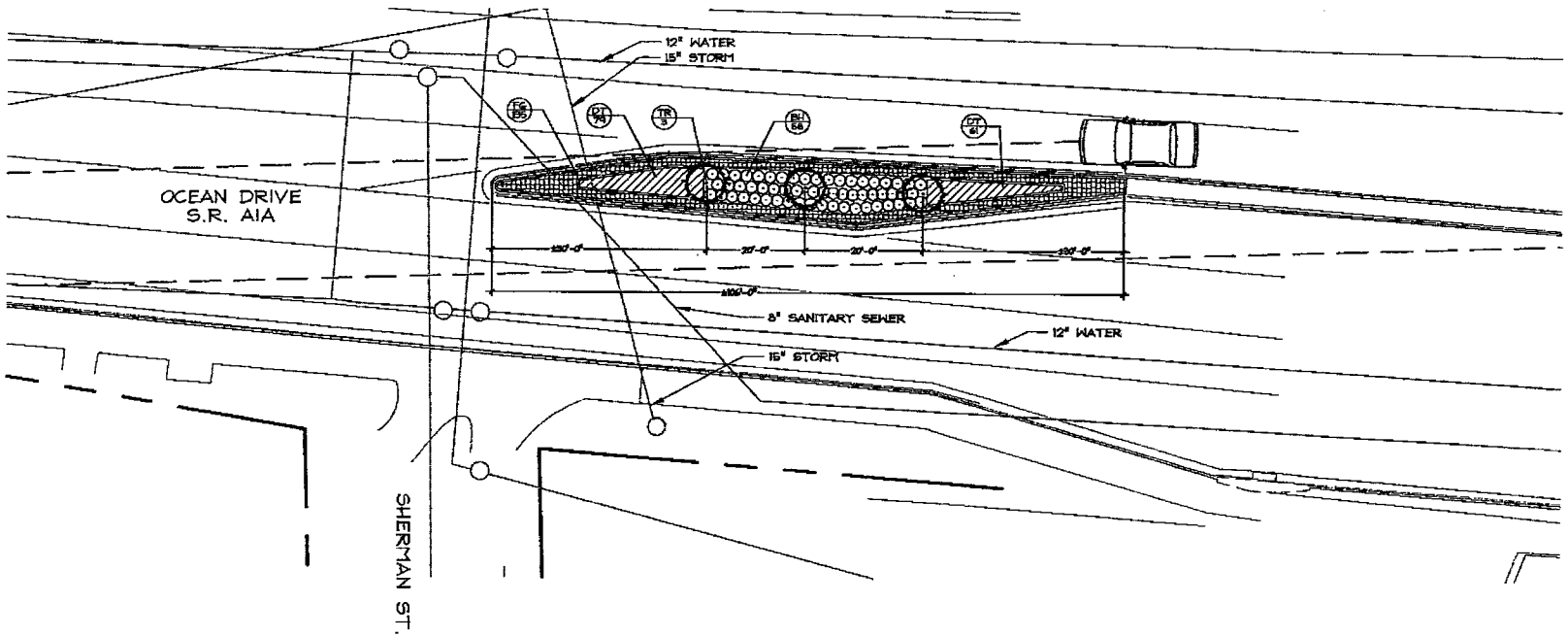

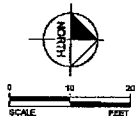

PLANT SCHEDULE MEDIAN 12

	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
TR	Thrinax radiata Florida Fanny, slick trunk, top of trunk melting to remain	Florida Thatch Palm	F.G.	4" Cal.	12' CT	3
SHRUBS						
BU	Bougainvillea x 'Helen Johnson'	Compact Bougainvillea	3 gal	O.C. 24" O.C.	SIZE 12"X12"	QTY 56
SHRUB AREAS						
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal@ 15" oc	O.C. 15" O.C.	SIZE 12"x12"	QTY 135
GROUND COVERS						
DT	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	1 gal@ 12" oc	O.C. 12" O.C.	SIZE 10" H.	QTY 140

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DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
LANDSCAPE ARCHITECT: JONATHAN D. HIGH
FLORIDA LICENSE NUMBER: LA0666795
DATE: 1.23.13

PLANTING PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-1.12

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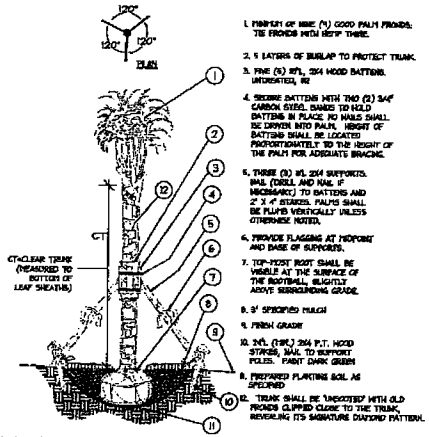
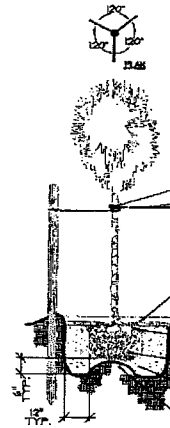


1. MINIMUM OF NINE (9) GOOD PALM FRONDS; TIE FRONDS WITH BEST TWINE.
2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
3. NINE (9) #1, 2X4 WOOD BATTENS. UNTREATED, #2
4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
5. THREE (3) #1, 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
8. 3" SPECIFIED MULCH
9. FINISH GRADE
10. 2#1, (TYP.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES. PAINT DARK GREEN
11. PREPARED PLANTING SOIL AS SPECIFIED
12. TRUNK SHALL BE UNSCATHED WITH OLD FRONDS CLIPPED CLOSE TO THE TRUNK, REVEALING ITS SIGNATURE DIAMOND PATTERN.

A Sylvester Date Palm Planting and Staking
SECTION NTS



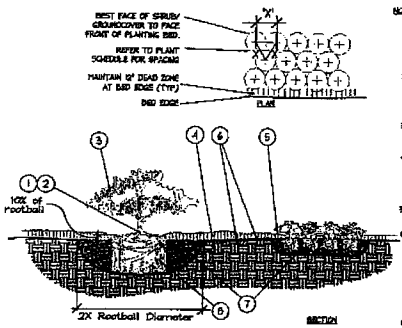
1. PROTECT PALM TRUNKS WITH BURLAP
2. BIODEGRADABLE FABRIC TIES - ARBORTIE OR EQUAL
3. THREE 2" X 8' LODGE POLES SPACE EVENLY AROUND TREE.
4. 3" MINIMUM OF MULCH AS SPECIFIED, WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 8' DIAMETER (TYP.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. SOIL BERM TO HOLD WATER.
6. FINISHED GRADE (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
8. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
9. PREPARED PLANTING SOIL AS SPECIFIED.
10. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.

NOTES:

A. CONTRACTOR SHALL ASSURE TERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. "TREE SAVER" ANCHORING SYSTEM MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

B Thatch and Solitaire Palm Planting
SECTION NTS

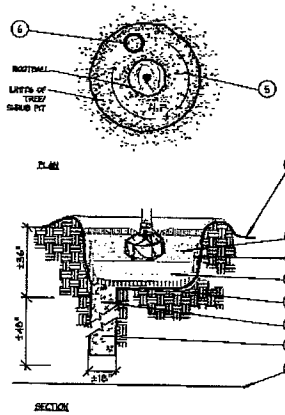


NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SLOPES WITH SOIL.
3. PRUNE ALL LIVE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASSHEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE WATER RUNOFF. ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. MIX WITH GROUNDCOVERS AND SHRUBS USED IN MASSES. ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

C Shrub / Groundcover Planting
PLAN/SECTION NTS



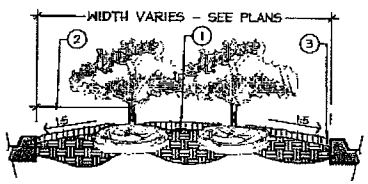
1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 600X OR BETTER.
4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
5. SLOPE BOTTOM TO DRAIN
6. 36"Ø AUGERED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
8. WATER TABLE. (DEPTH VARIES)

NOTE:

FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 4" OF BACK OF CURB OR EDGE OF PAVEMENT.

REFER TO NOTE 6.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D Poor Drainage Condition
PLAN/SECTION NTS



PLANTER ISLAND NOTES:

1. CROWN MEDIANS @ 5% SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH, SEE PLANS.
3. 1' MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- PROTECT AND RETAIN ALL CURBS AND BASE, COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

E Planted Medians
SECTION NTS

NO.	REVISIONS	DATE	BY

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SCALE: AS SHOWN
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DESIGNED BY JH
DRAWN BY TB
CHECKED BY JK

LICENSED LANDSCAPE ARCHITECT
JOHN M. KNOTH
FLORIDA REGISTRATION NUMBER LA0666795

DATE: 1.23.13

PLANTING DETAILS

OCEAN DRIVE MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE JAN 2013
PROJECT NO. 044241012
SHEET NUMBER L-1.13

Drawing name: K:\WPB_LURD\044241012 Hollywood AIA\CAD\L1.13-L1.14_DETAILS-SPECS.dwg L-1.13 Jan 23, 2013 5:27pm by: jonathan.hulgh
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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND THELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	ANALYSIS MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (FOR TAGGED IN NURSERY) CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS. INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA
STAKING/GUYING	FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FRIABLE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAN MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A FINISH DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE
4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK Z60.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. AMEND PINE AND OAK PLANT PITS WITH ECTOTOMORHICAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORHICAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS, MIX TOP 4" TO ACHIEVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
15. TREE GUYING AND STAKING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO HAVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
16. MULCHING: PROVIDE A THREE INCH (THINKUP) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL. TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. NET PREPARED AREA THOROUGHLY.
4. SODDING
   A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
   C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
6. LAWN MAINTENANCE:
   A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
   B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DATS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REINSPECTION AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF THELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN / AS NOTED
DESIGNED BY JH
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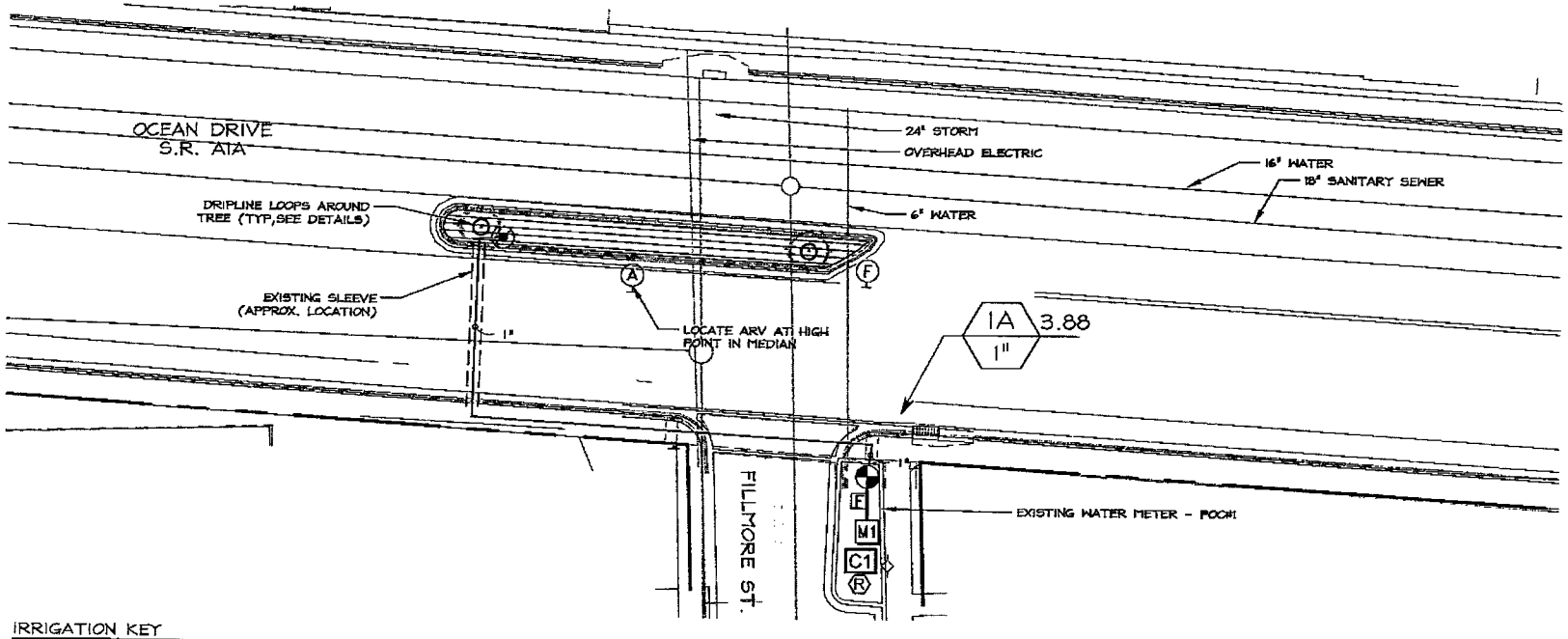

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
	Flush Valve Install per details
	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SED 7X5 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
	Existing BFP 1" Existing Backflow Preventer
	DIG LBIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-QKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 Irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #1:

1. POC#1 (M1) IS AN AN EXISTING METER AND BACKFLOW PREVENTER. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.13.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.13 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NORTH

0 10 20
SCALE FEET

NO.	REVISIONS	DATE	BY

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PHONE: 561-845-0665 FAX: 561-845-1073
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SCALE: AS SHOWN
DESIGNED BY JM
DRAWN BY JM
CHECKED BY JM
LICENSED PROFESSIONAL ARCHITECT
JONATHAN M. HEIGH
FLORIDA REGISTRATION NUMBER
L.0686795
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.01

Drawing name: K:\WPB_LARG\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.01 Jan 23, 2013 6:23pm by: jonathan.heigh
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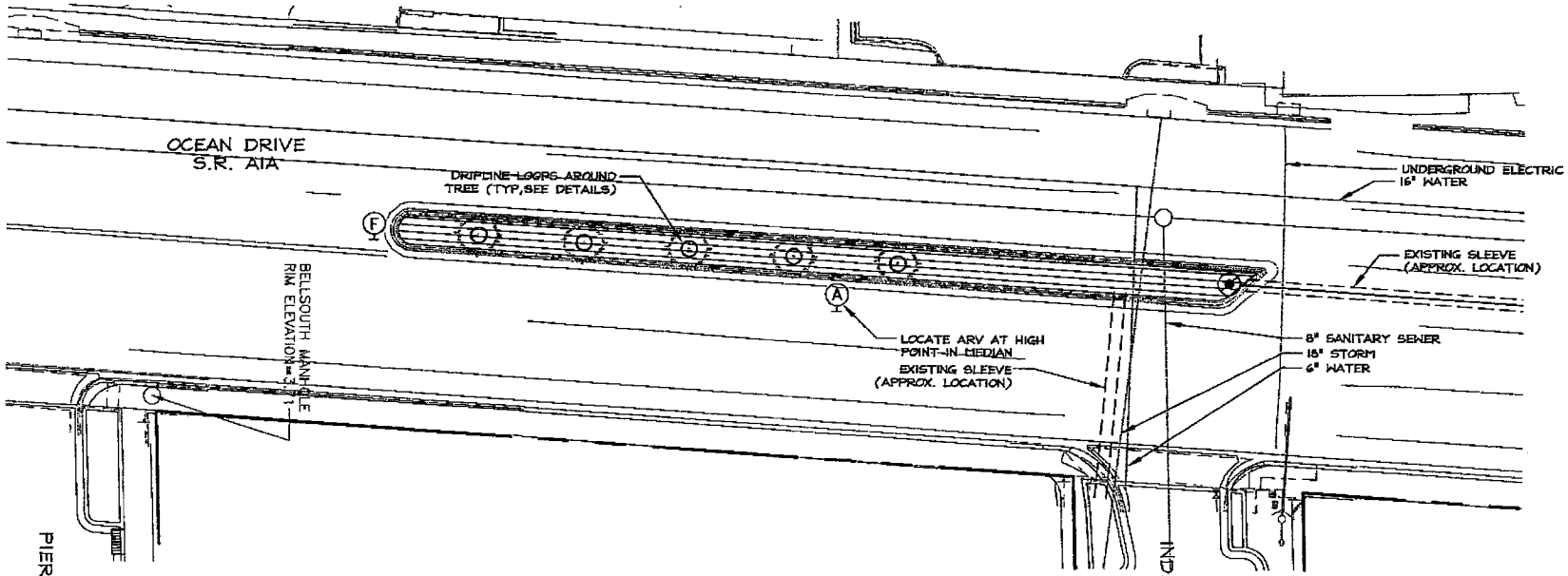

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Ø	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7XB emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.66PH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
DIG	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
P	Rainbird PRB-QKCHK-100 1" Bucket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 15 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #241

1. POC#2 (T12) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN SHOWN ON L2.03. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.

* REFER TO NOTES ON SHEET L-2.03

NORTH

0 10 20
SCALE FEET

REVISIONS	DATE	BY

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SCALE: AS SHOWN AS NOTED
DESIGNED BY JPL
DRAWN BY TM
CHECKED BY JPL
PROJECT MANAGER: JONATHAN HAIGH
FLORIDA REGISTRATION NUMBER: LA6666725
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.02

Drawing name: K:\WPB_LPRO\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.02 Jan 23, 2013 6:25pm by: jonathan.haigh

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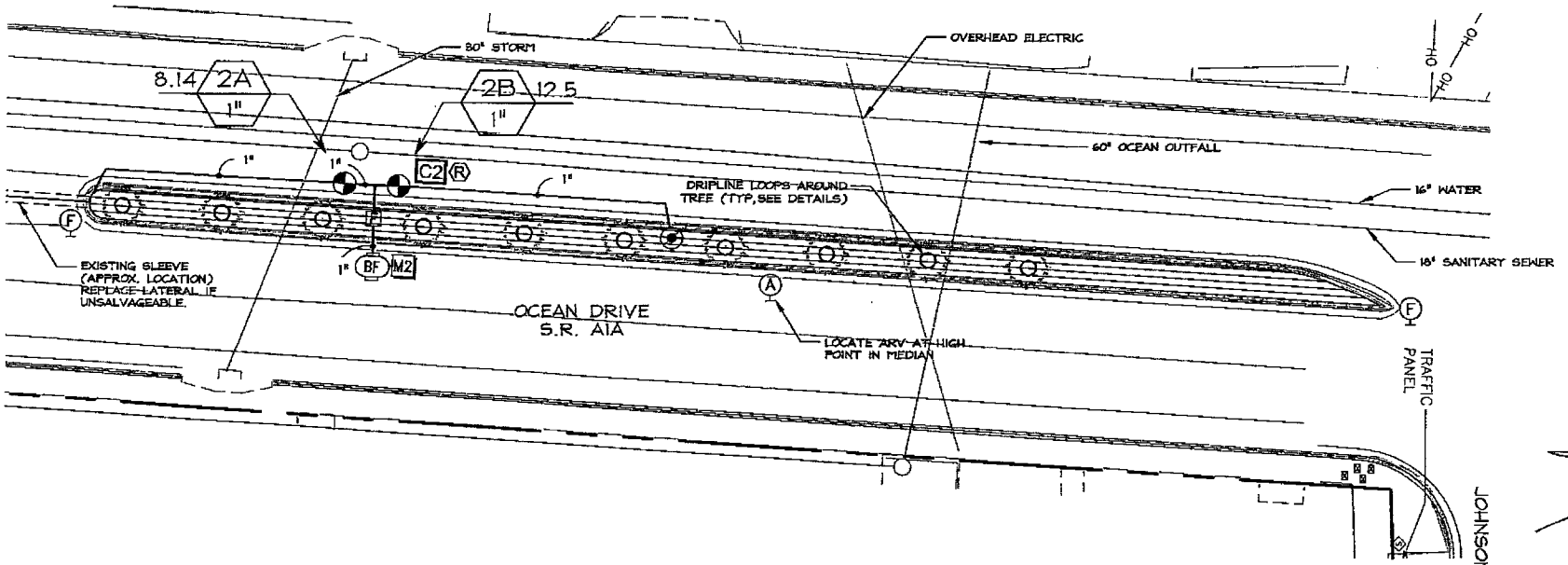

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SCB 7X3 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
CX	DIG LETT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK Rain Sensor, mount as noted
	Rainbird PRS-GKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen.

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #2:

1. POC#2 (T12) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN SHOWN ON L2.03. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.15. INSTALL TWO (2) FLUSH VALVES IN MEDIAN SHOWN ON THIS SHEET.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.15 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NO	REVISIONS	DATE	BY

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LANDSCAPE ARCHITECT
JOHN D. SMITH
FLORIDA REGISTRATION NUMBER: LA0666795
DATE: 1.23.13

SCALE: AS SHOWN / AS NOTED
DESIGNED BY JH
DRAWN BY TS
CHECKED BY JH

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.03

Drawing name: K:\WPB_LRD\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.03 Jan 23, 2013 8:25pm by: jonathan.haigh
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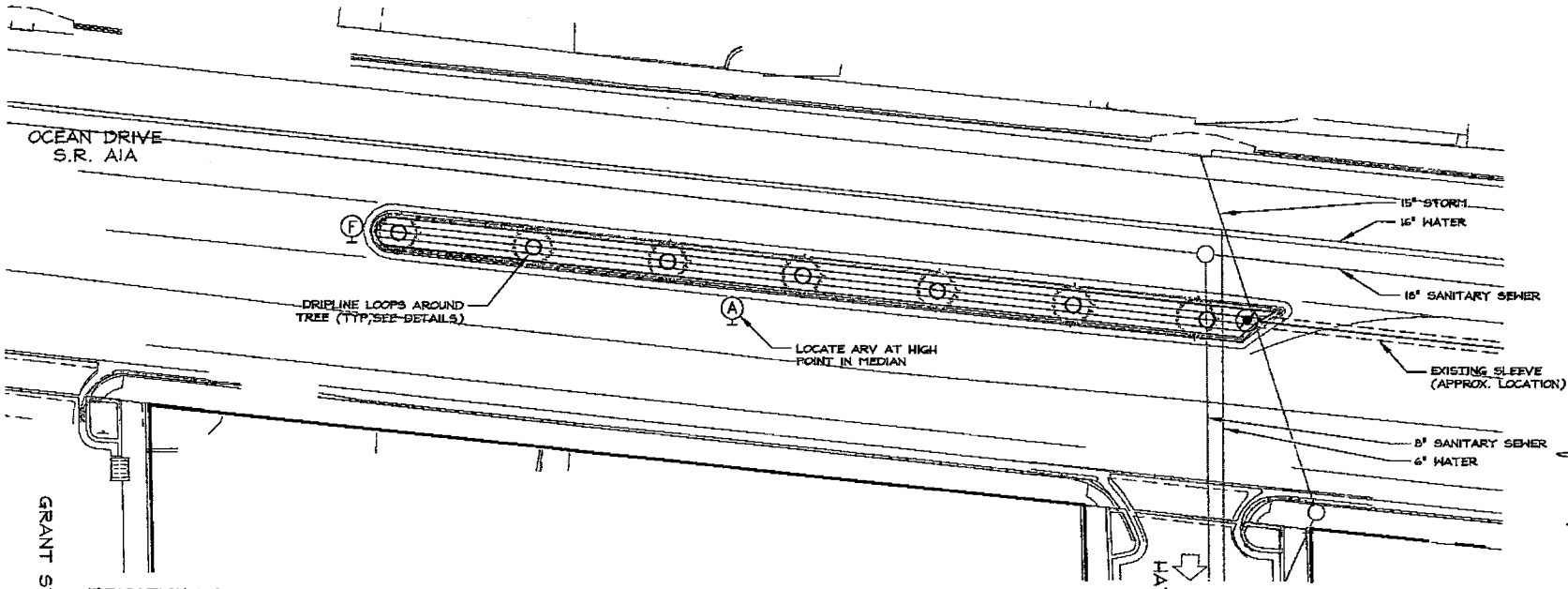

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
(P)	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
(F)	Flush Valve Install per details
(A)	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 700 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.60GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
(BF)	Existing BFP 1" Existing Backflow Preventer
CX	DIG LET-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-GKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
1" — Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #3:

1. POC#3 (MB) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN SHOWN ON L2.05. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.

* REFER TO NOTES ON SHEET L-2.05

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
LANDSCAPE ARCHITECT
XXXX XXXXXXXXXX
FLORIDA CERTIFICATE NUMBER
LA0685795
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.04

Drawing name: K:\MPB_LR\044241012 Hollywood AIA\CADD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.04 Jan 23, 2013 6:24pm by: jonathan.hogh
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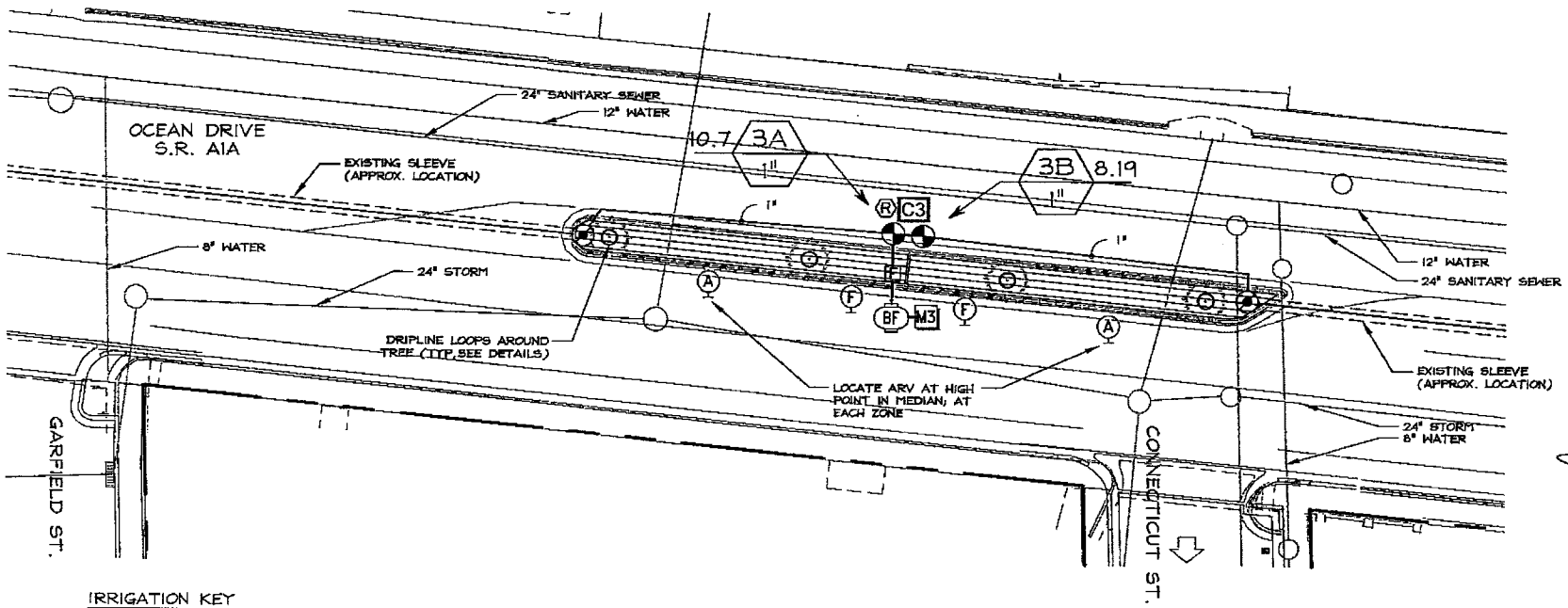

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7X3 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18.) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves, Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
C3	DIG LBIT-2 Solar Controller Two Station solar controller, post mount as shown in details, include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird FRB-QKCJIK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
#. — Valve Flow
#" — Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #3:

1. POC#3 (TB) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN SHOWN ON L2.05. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.13. INSTALL TWO (2) FLUSH VALVES IN MEDIAN SHOWN ON THIS SHEET.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.13 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NORTH
0 10 20
SCALE FEET

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN / AS NOTED
DESIGNED BY JK
DRAWN BY TB
CHECKED BY JK
LICENSED ARCHITECT JOSHUA R. KUNN
LICENSE NUMBER AR666793
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.05

Drawing name: K:\WPB_LARG\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.05 Jan 23, 2013 6:23pm by: joshtanohsigh
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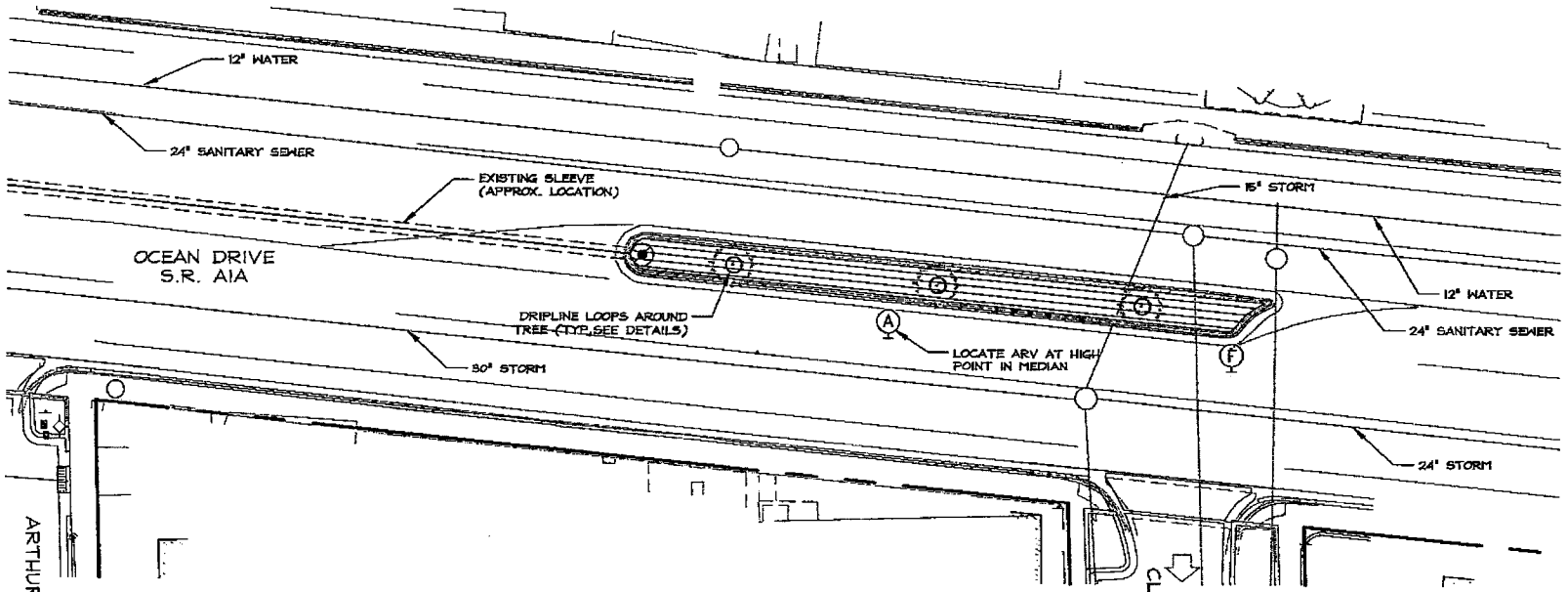

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
	Flush Valve Install per details
	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SBB 7X3 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XF5-06-12 (18) XFB Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
	Existing BFP 1" Existing Backflow Preventer
	DIG LGIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-QKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
1" — Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

NORTH

0 10 20
SCALE FEET

IRRIGATION NOTES - POC #3L

1. POC#3 (TYP) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN SHOWN ON L2.05. APPROXIMATE LATERAL/MAINLINE ROUTING TO THE MEDIAN IS SHOWN - CONTRACTOR TO VERIFY.

* REFER TO NOTES ON SHEET L-2.05

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SCALE: AS SHOWN AS NOTED
DESIGNED BY JH
DRAWN BY JH
CHECKED BY JH
PROJECT MANAGER: JONATHAN D. HIGH
FLORIDA LICENSE NUMBER: LA6683795
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.06

Drawing name: K:\WPB_LRG\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.06 Jan 23, 2013 6:21pm by: jonathan.high
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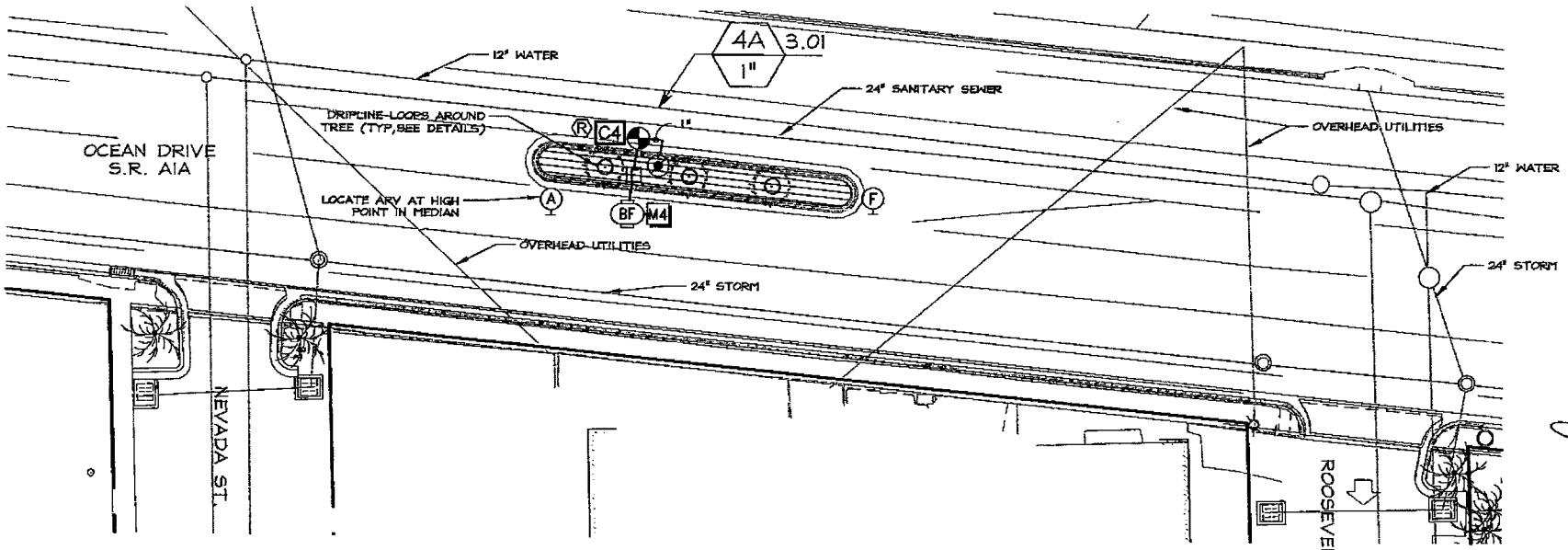

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (6BB 7XB emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18.) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PEB5 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
	DIG LET-2 Solar Controller Tue Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-GKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 15 inches beyond edges of paving or construction.

Valve Callout:
#" — Valve Number
— Valve Flow
#" — Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #4:

1. POC#4 (M4) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.15.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.15 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NORTH
0 10 20
SCALE FEET

NO.	REVISIONS	DATE	BY

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WWW.KIMLEY-HORN.COM CA 00000696

SCALE: AS SHOWN / AS NOTED
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
DATE: 1.23.13
LICENSED ARCHITECT: JOHN K. HUGH
LICENSE NUMBER: LA6666795

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.07

Drawing name: K:\WPB_LRD\044241012 Hollywood AIA\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.07 Jan 28, 2013 9:43am by: trida.rosita
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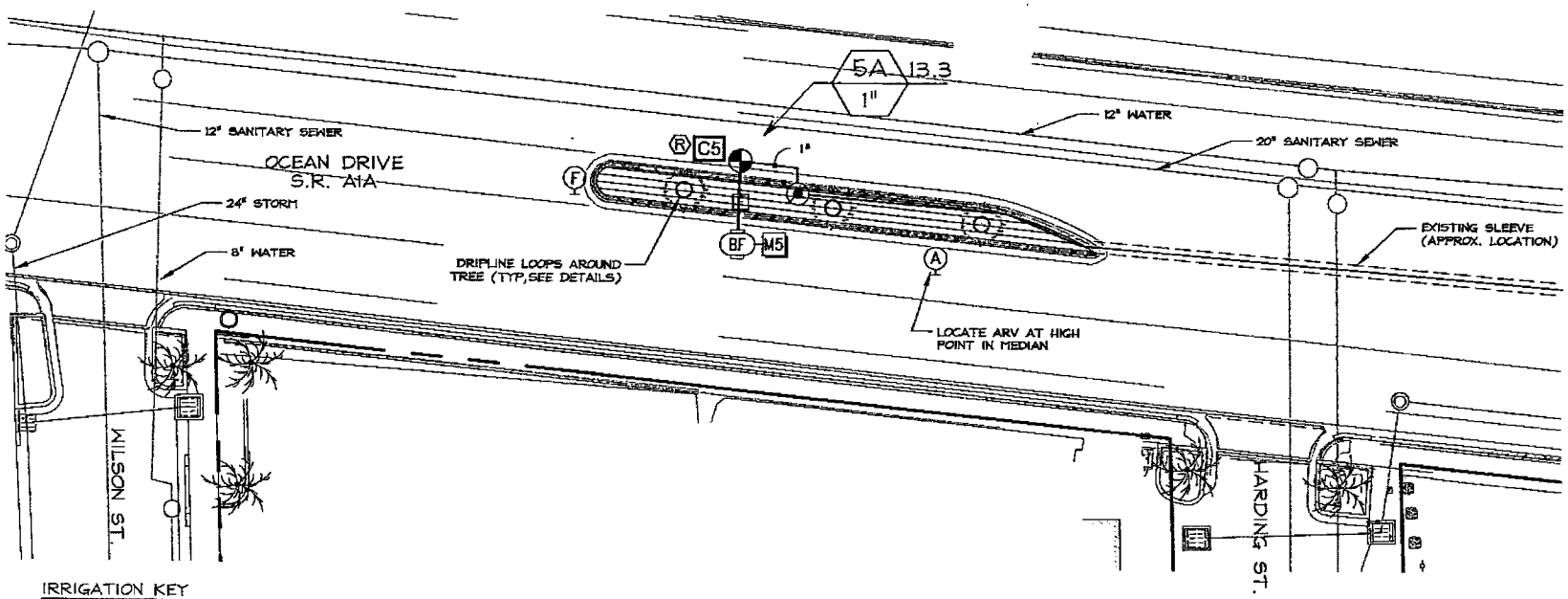

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (BID 7X9 emitter box). Use with installation below wet. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (15) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPM emitters at 12.0" O.C. Dripline laterals spaced at 15.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird P255 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
CX	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRS-DKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 15 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #5:

1. POC#5 (M5) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.13.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.13 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NORTH
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SCALE FEET

No.	REVISIONS	DATE	BY

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LANDSCAPE ARCHITECT
JOHN W. WALKER
FLORIDA REGISTRATION NUMBER
LA0666795
DATE: 1.23.13

SCALE: AS SHOWN UNLESS NOTED
DESIGNED BY JP
DRAWN BY JP
CHECKED BY JW

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
041241012
SHEET NUMBER
L-2.08

Drawing name: K:\WPB_LAND\041241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.08 Jan 23, 2013 6:18pm by: jpoulton.heigh
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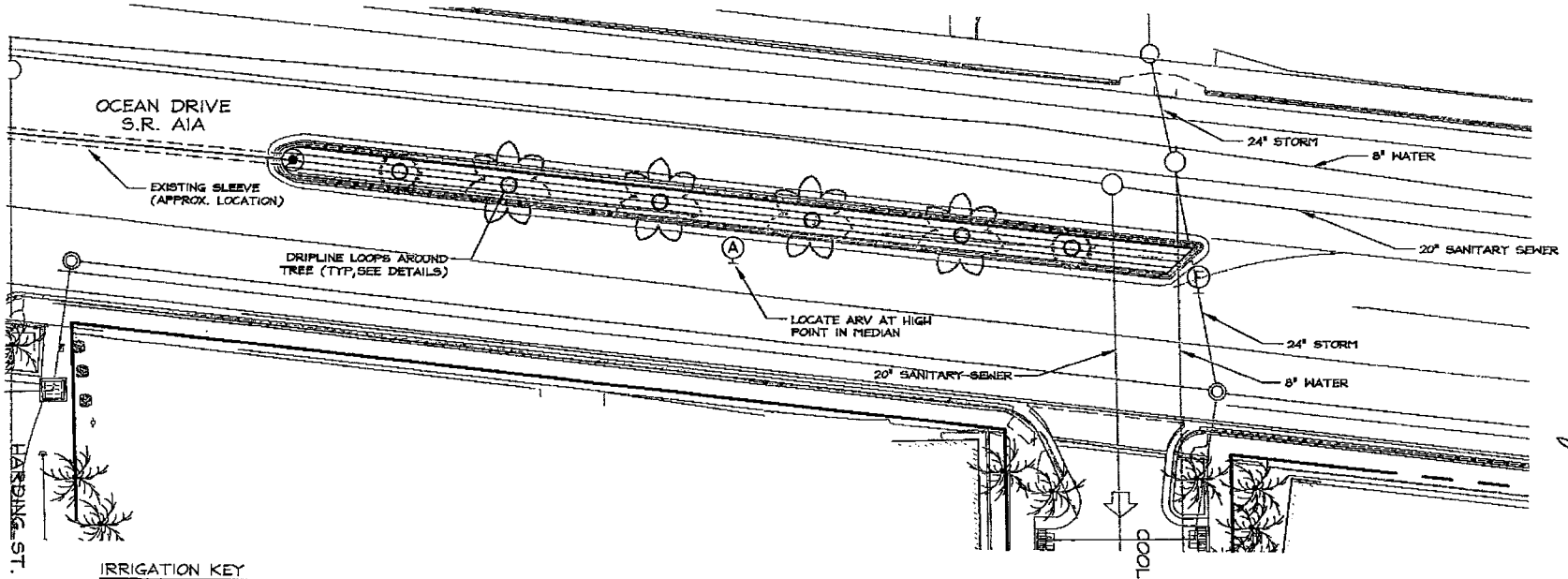

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
	Flush Valve Install per details
	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7XB emitter box). Use with installation below exit. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.60GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
EX	DIG LET-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-OKCLIK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #5:

1. POC#5 (M5) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.

* REFER TO NOTES ON SHEET L-2.08

NORTH

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SCALE FEET

DATE	BY	REVISIONS

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SCALE: AS SHOWN / AS NOTED
DESIGNED BY: JM
DRAWN BY: BR
CHECKED BY: JM
DATE: 1.23.13
SUBMITTAL PROJECT MANAGER: JONATHAN A. HIGH
SUBMITTAL PROJECT NUMBER: LA6686795

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD
FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.09

Drawing name: K:\WPB_LPD\044241012 Hollywood A1A\CADD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.09 Jan 23, 2013 5:17pm by: jonathan.high
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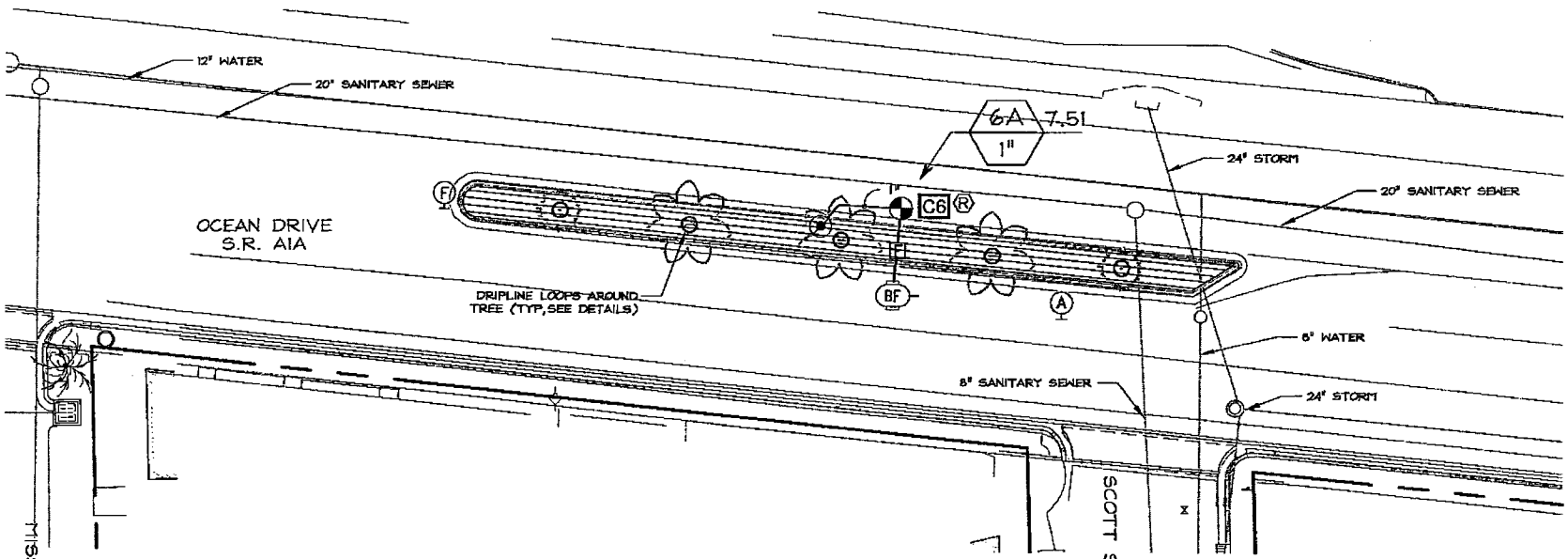

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
P	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7X8 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Dripline Rain Bird XFS-06-12 (TD) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
C6	DIG LXIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
R	Hunter MINI-CLIK Rain Sensor, mount as noted
F	Rainbird PRB-QKCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

IRRIGATION NOTES - POC #6

1. POC#6 (M6) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.13.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION.
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.13 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

NORTH
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SCALE FEET

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN
DESIGNED BY: JH
DRAWN BY: TK
CHECKED BY: JH
LICENSED ARCHITECT: JONATHAN J. HEIGH
FLORIDA REGISTRATION NUMBER: L.A.#6666795
DATE: 1.23.13

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.10

Drawing name: K:\FPB_LRO\044241012 Hollywood A1A\DWG\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.10 Jan 23, 2013 6:19pm by: jonathan.heigh
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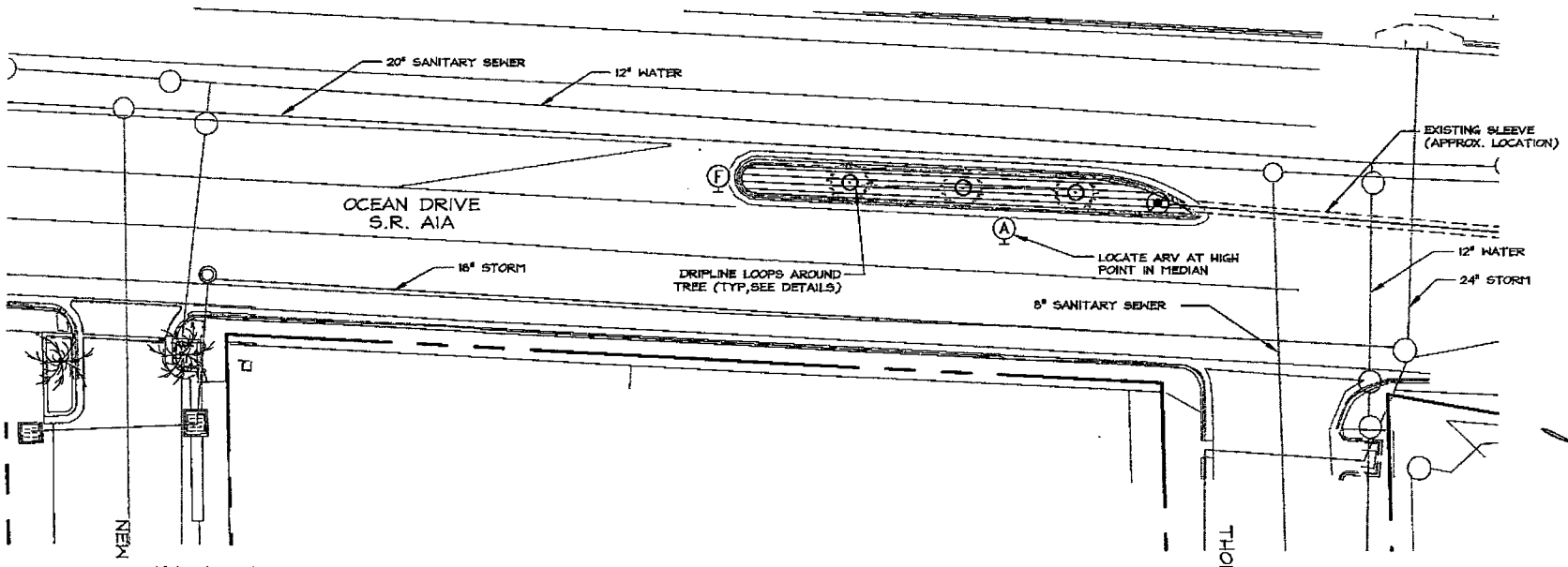

IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
F	Flush Valve Install per details
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7X5 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
	Area to Receive Driplines Rain Bird XFS-06-12 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Existing BFP 1" Existing Backflow Preventer
	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.
	Hunter MINI-CLIK
	Rain Sensor, mount as noted
	Rainbird PRB-0KCHK-100 1" Basket Filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen

Irrigation Lateral Line: PVC Class 200 SDR 21
PVC Class 200 irrigation pipe.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

REFER TO SHEET L-2.12 FOR FULL SCHEDULE

NORTH

0 10 20
SCALE FEET

IRRIGATION NOTES. - POC #7

1. POC#7 (M7) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.

* REFER TO NOTES ON SHEET L-2.12

No.	REVISIONS	DATE	BY

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7740 N. 16TH STREET, SUITE 300, PHOENIX, AZ 85020
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SCALE: AS SHOWN
DESIGNED BY: JH
DRAWN BY: TR
CHECKED BY: JH
DATE: 1.23.13
JONATHAN D. HAUGH
LA#0667725

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD GRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.11

Drawing name: K:\WPB_LAND\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.11 Jan 28, 2013 9:42am by: trish.rosie
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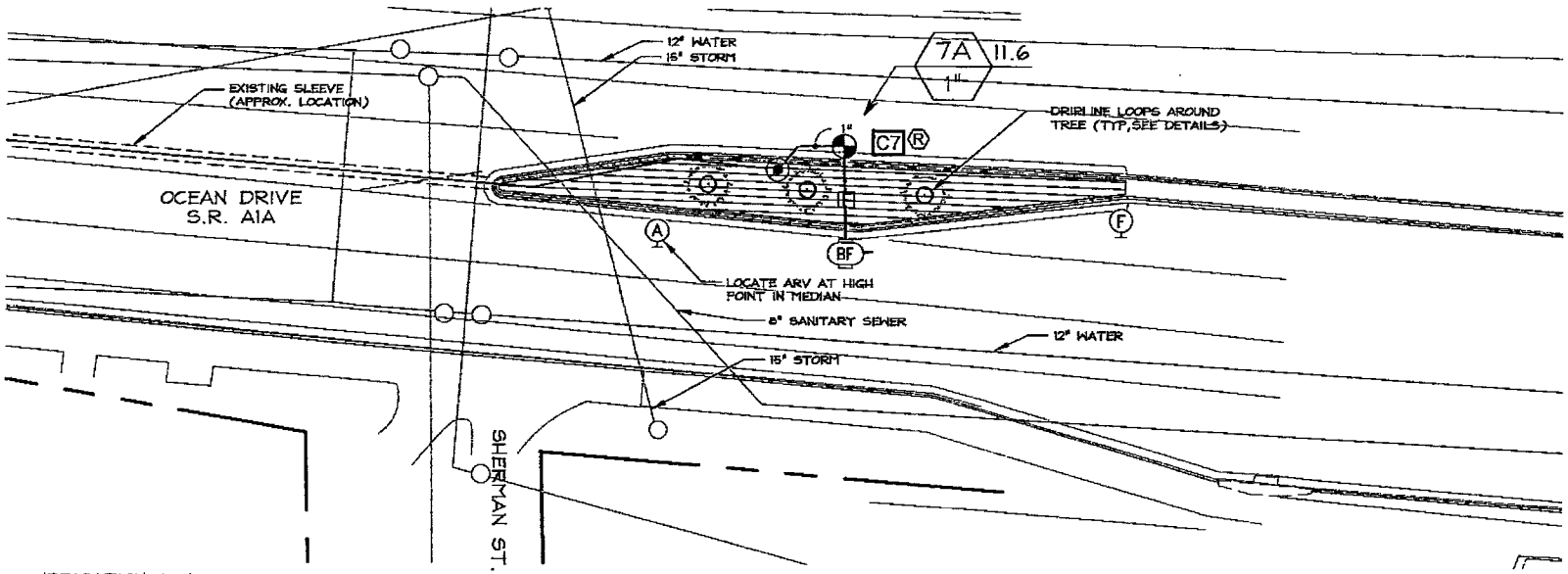

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
P	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	13
F	Flush Valve Install per details	14
A	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEE 7X9 emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.	13
	Area to Receive Dripline Rain Bird XFS-06-12 (B) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.	±7,673 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird P33B5 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	4
BF	Existing BFP 1" Existing Backflow Preventer	6
C1	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C2	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C3	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C4	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C5	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C6	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
C7	DIG LEIT-2 Solar Controller Two Station solar controller, post mount as shown in details. Include solenoid adapter for use with Rainbird Valves and Hunter rain sensor.	1
R	Hunter MINI-CLIK Rain Sensor, mount as noted	7
	Rainbird FRB-QKCHK-100 1" Basket filter with built-in Pressure Regulator (40psi) and 200 mesh SS screen	7
	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.	AS NEEDED
	Irrigation Mainline: PVC Schedule 40	AS NEEDED
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	AS NEEDED

Valve Callout
#1 — Valve Number
— Valve Flow
— Valve Size

IRRIGATION NOTES - POC #7

1. POC#7 (M7) IS AN AN EXISTING METER AND BACKFLOW PREVENTER LOCATED IN THE MEDIAN AS SHOWN - CONTRACTOR TO VERIFY.
2. CONTRACTOR TO LOCATE IRRIGATION CONTROLLER AND REPLACE WITH SOLAR-POWERED VERSION SPECIFIED.
3. DESIGN SHOWN IS APPROXIMATE AND DIAGRAMMATIC. INSTALL ALL EQUIPMENT WITHIN MEDIANS AND PLANTER BEDS. (SOME EQUIPMENT IS SHOWN IN ROADWAY FOR THE SAKE OF PLAN LEGIBILITY.)
4. EXISTING IRRIGATION EQUIPMENT, SLEEVE, AND PIPE LOCATES ARE SCALED FROM CITY OF HOLLYWOOD-PROVIDED 'AS BUILT' DRAWINGS. CONTRACTOR TO FIELD-VERIFY ACCURACY AND ADJUST DESIGN AS NECESSARY TO MEET THE INTENT.
5. CONTRACTOR SHALL INSTALL ONE (1) AIR RELIEF VALVE AND ONE (1) FLUSH VALVE IN EACH MEDIAN, PER DETAILS ON SHEET L-2.13.
6. COORDINATE LOCATION OF CONTROLLER, FILTER AND CONTROL VALVE WITH OWNER PRIOR TO INSTALLATION.
7. CITY OF HOLLYWOOD WISHES TO TAKE POSSESSION OF THE FOLLOWING EXISTING IRRIGATION EQUIPMENT THAT THE CONTRACTOR WILL REMOVE AS A PART OF CONSTRUCTION:
   - FILTERS
   - IRRIGATION SPRAY HEADS
   - FLUSH VALVES
   - AIR RELIEF VALVES
   - CONTROLLERS
   - CONTROL VALVES
   - SHUT-OFF VALVES
   - RAIN SENSORS

   COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF SALVAGED EQUIPMENT.
8. REFER TO MASTER IRRIGATION LIST ON SHEET L-2.12, DETAILS ON SHEET L-2.13 AND SPECIFICATIONS ON SHEETS L-2.14 AND L-2.15

HUDSON

0 10 20
SCALE FEET

No.	REVISIONS	DATE	BY

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SEALED BY: DAVID A. HUGH
FLORIDA REGISTRATION NUMBER: L86666793
DATE: 1.23.13

SCALE: AS SHOWN AS NOTED
DESIGNED BY: TR
DRAWN BY: TR
CHECKED BY: JP

IRRIGATION PLAN

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE
JAN 2013
PROJECT NO.
044241012
SHEET NUMBER
L-2.12

Drawing name: K:\WPB_SIRC\044241012 Hollywood A1A\CAD\L2.01-L2.12_IRRIGATION_PLANS.dwg L-2.12 Jan 23, 2013 3:34pm by: jonathan.hodgh
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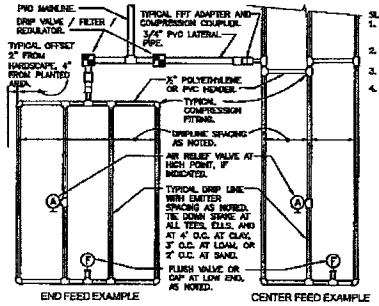


SLOPED CONDITION NOTES:
1. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
2. SPACING AS NOTED ON TOP ⅓ OF SLOPE.
3. SPACING AT BOTTOM ⅓ AS NOTED PLUS 25%.
4. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE BOTTOM ⅓ SEPARATELY.

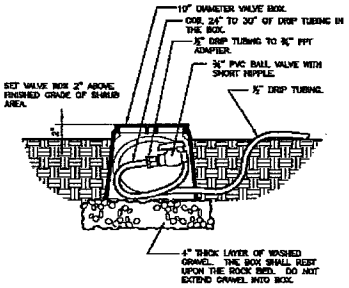
MAXIMUM LATERAL LENGTH (FEET)							
	EMITTER FLOW RATE GPH						
	12" SPACING		18" SPACING		24" SPACING		
PSI	0.6	0.9	0.6	0.9	0.6	0.9	
10	173	95	173	135	218	171	
20	246	181	260	171	442	340	
30	307	236	434	333	660	492	
40	358	286	493	300	827	171	
50	125	96	173	135	289	171	
60	125	96	173	134	288	171	

GRID PRECIPITATION RATES (IN/HR)			
EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
		0.6	0.9
12	12	0.98	1.44
18	18	0.65	0.96
24	24	0.29	0.41

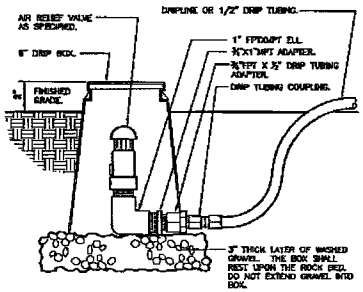
LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	4.8 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	3.8 PSI
2"	62.6 GPM	1.8 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	9.9 PSI
3/4"	8.3 GPM	5.3 PSI
1"	13.5 GPM	4.9 PSI
1-1/2"	33.6 GPM	2.9 PSI
2"	62.4 GPM	2.2 PSI

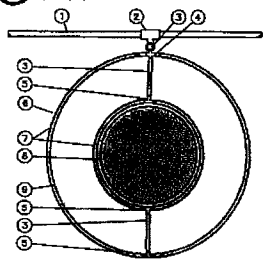
1 TYPICAL DRIPLINE LAYOUT REQUIREMENTS
3" = 1'-0"
32 8413.50-08



2 DRIP FLUSH VALVE
1 1/2" = 1'-0"
32 8413.40-03



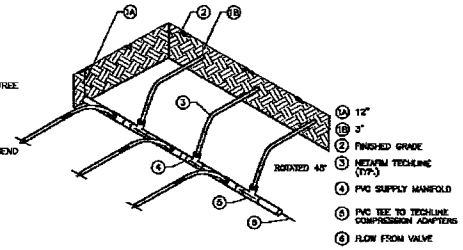
3 DRIP AIR RELIEF VALVE IN BOX
3" = 1'-0"
32 8413.53-03



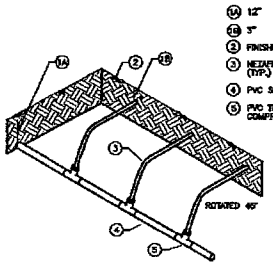
1. PVC DRIP MANIFOLD PIPE
2. PVC SCH 40 TEE OR ELL
3. PVC BALL VALVE - LINE SIZE
4. BARB CROSS INSERT FITTING
5. BARB TEE INSERT FITTING
6. PROJECTED CANOPY LINE OF TREE
7. ON-SURFACE DRIPLINE
8. ROOT BALL
9. TIE DOWN STAKE: RAIN BIRD 12S-CSO WITH BEND (QUANTITY AS REQUIRED)

NOTES:
1. DISTANCE BETWEEN LATERAL RINGS TO BE 12" FOR DATE PALMS AND 8" FOR SQUARE PALMS.
2. PLACE TIE DOWN STAKES EVERY 36"
3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

4 TREE LOOPS
NOT TO SCALE

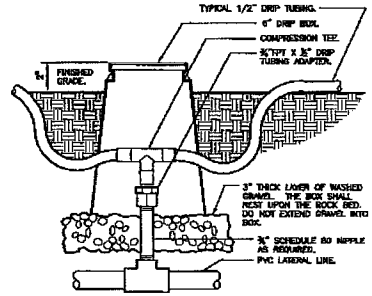


CENTER FEED SUPPLY MANIFOLD

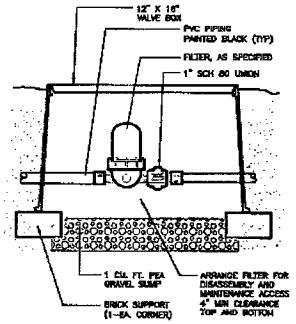


SUPPLY/EXHAUST MANIFOLD

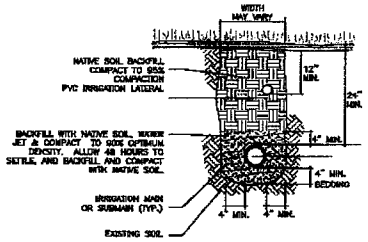
5 LATERAL TO DRIP FEED DETAILS
NOT TO SCALE



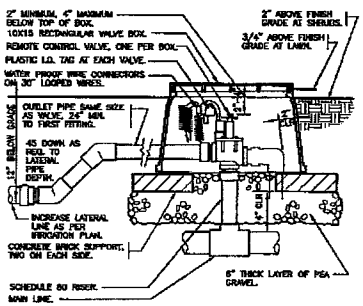
6 ZONE CONTROL
3" = 1'-0"
32 8413.40-03



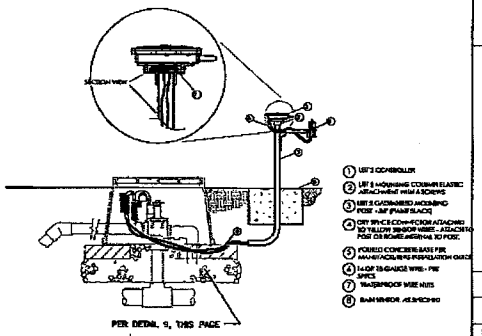
7 FILTER
NOT TO SCALE
32 8408.70-03



8 TRENCHING DETAIL
NOT TO SCALE
32 8408.70-03



9 ELECTRIC REMOTE CONTROL VALVE
1 1/2" = 1'-0"



10 POST MOUNT SOLAR CONTROLLER AND RAIN SENSOR
NOT TO SCALE

DATE	BY	REVISIONS	NO

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LANDSCAPE ARCHITECT: JAY MAIN JR. JR. FLORIDA REGISTRATION NUMBER: LA6666785 DATE: 1.23.13

SCALE: AS SHOWN AS NOTED | DESIGNED BY JH | DRAWN BY TR | CHECKED BY JH

IRRIGATION DETAILS

OCEAN DRIVE MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE JAN 2013
PROJECT NO. 042241012
SHEET NUMBER L-2.13

Drawing name: K:\WPB_LRG\042241012 Hollywood A1A\CAD\L2.13-L2.15_IRRIGATION_DETS_SPECS.dwg L-2.13 Jan 23, 2013 5:30pm by: jonathan.haigh

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UNDERGROUND IRRIGATION SYSTEM

PART I. GENERAL

1.01 SCOPE

A. The work covered by this specification shall include the furnishing of all labor, materials, tools and equipment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.

B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.

C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.02 QUALITY ASSURANCE

D. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.

E. Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.

F. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or those scheduled to do underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities.

G. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site conditions to remain. Should damages be incurred, this Contractor shall repair the damage to its original condition at his own expense. Any disruption, destruction, or disturbance of any existing plant, tree, shrub, or turf, or any structure shall be completely restored to the satisfaction of the Owner and his representatives, solely at the Contractor's expense.

H. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.

1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, roads, grounds, landscaping or structure of any kind (including without limitation, damage from leaks in the piping system being installed or having been installed by Contractor) damaged by the Contractor, or by his agents, employees, or subcontractors, during the course of his work, whether through negligence or otherwise, shall be replaced or repaired by Contractor at his own expense in a manner satisfactory to Owner, which repair or replacement shall be a condition precedent to Owner's obligation to make final payment under the Contract.

2. Contractor shall also be responsible for damage to any work covered by these specifications before final acceptance of the work. He shall securely cover all openings into the systems and cover all apparatus, equipment and appliances, both before and after being set in place to prevent destruction or the pipes and the breakage, misuse or disfigurement of the apparatus, equipment or appliance.

3. All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way.

   Buildings, walks, walls, and other property shall be protected from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor by approved means. The Contractor shall restore disturbed areas to their original condition.

4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.

   The Contractor shall take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be completely repaired to its original condition, at no additional cost to the Owner.

5. The Contractor shall request the Owner, in writing, to locate any private utilities (*i.e.*, electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which were not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.

J. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes. Arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.

K. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.

L. The superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.

M. The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.

N. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory completion of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of his responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which may later be discovered.

O. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects in material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be done promptly at no cost to the Owner.

1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The Contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of Contractor providing guarantee, address, and telephone number. It shall be signed by the chief executive of the Contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense provided, however, that in the case of emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and Contractor shall pay the cost thereof.

P. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.

Q. On-site Observation: At any time during the installation of the irrigation system by the Contractor, the Owner or Landscape Architect may visit the site to observe work underway. Upon request, the Contractor shall be required to uncover specified work as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.

R. Workmanship: All work shall be installed by qualified, skilled personnel, proficient in the trades required, in a neat, orderly, and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

All materials shall be those specified and/or approved by the Landscape Architect.

A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data, and installation instructions which he proposes to install.

B. Commence no work before approval of material list and descriptive material by the Landscape Architect.

C. Record Drawings: The Contractor shall record on reproducibles, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.

1. Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or at sites other than indicated, the Contractor shall clearly indicate such changes on a set of blueline prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Owner.

2. The Contractor shall also indicate on the record prints the location of all wire splices, original or due to repair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.

3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review and shall be kept in a location designated by the Owner's Representative.

4. Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.

5. If in the opinion of the Owner or his representative, the record drawing information is not being properly or promptly recorded, construction payment may be stopped until the proper information has been recorded and submitted.

6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information shall be approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions.

H. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his designated representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information:

1. Index sheet stating the Contractor's address and business telephone number, list of equipment with name(s) and address(es) of local manufacturer's representative(s).

2. Catalog and parts sheets on every material and equipment installed under this Contract.

3. Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.

4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required to meet such conditions.

B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.

C. All work called for o on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.

D. The Contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

E. If, in the opinion of the Landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment inadequate, improper or unsafe, or if the Contractor shall fail to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such causes of noncompliance and the Contractor shall promptly comply.

F. The Contractor shall be responsible for full and complete coverage of all irrigation areas. The Landscape Architect shall be notified of any necessary adjustments at no additional cost to the Owner. Any revisions to the irrigation system must be submitted and secured in written form, along with any change in Contract price. Layout may be modified, if necessary to obtain coverage. Spacing not to exceed 60% of the diameter.

PART II. PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior written approval of the Owner/Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation, and defective materials shall be replaced with the proper materials and equipment. Those items used in the installation found to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper manner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective pipe and equipment from the site.

2.02 PIPING

A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.

B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.)

1. Laterals: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping less than 3" in diameter shall be Class 200 SDR-21.

2. Main Line Under Pressure: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connection.

3. Pipe Markings: All PVC pipe shall bear the following markings:
   - Manufacturer's Name
   - Nominal Pipe Size
   - Schedule or Class
   - Pressure Rating of PSI
   - NSF (National Sanitation Foundation) Approval
   - Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

A. Threaded PVC connections shall be made up using Teflon tape only.

B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

2.06 SOLVENT CEMENT

A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketted pipe to be britical ring type. Insert gaskets will not be accepted.

B. Thrust Blocks: Main line piping 3" or greater in diameter shall have thrust blocks steel and placed in accordance with the pipe manufacturer's recommendations or, in the absence of specified recommendations by the pipe manufacturer. 3000 PSI concrete thrusts shall be properly installed at tees, elbows, 45's, crosses, reducers, plugs, caps and valves.

2.07 PIPE AND WIRE SLEEVES

A. Sleeves to be installed:

1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:

   a. All pipe sleeves shall extend a minimum of 24" beyond the edge of pavement.

   b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans.

   c. All irrigation system wires shall be sleeved separately from main or lateral lines.

   d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire.

   e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 DRIPLINE/ SPRINKLER HEADS

A. Inline Emitter Tubing

1. Pressure-Compensating Landscape Dripline
   a. The inline emitter shall be welded to the inner circumference of the polyethylene tubing. The inline emitter shall have dual outlet ports, 180° apart, ensuring only one port has contact with the ground when the tubing is installed at grade and mulched over.
   b. Emitter shall pressure compensate by lengthening the emitter's turbulent flow path. The emitter shall be cylindrical in shape and provide surface area for filtration throughout 360° of its outer circumference. This increased filtration surface area shall assure that the water that enters the inline emitter can always come from the cleanest part of the flow path in the polyethylene tubing regardless of how the inline tubing lays on the ground.
   c. Landscape Dripline tubing shall be brown in color and conform to an outside diameter (O.D.) of 0.630 inches (16 mm) and an inside diameter (I.D.) of 0.540 inches (13,7 mm) and wall thickness of 0.045 inches (1,1 mm).
   d. Landscape Dripline shall have factory installed, pressure-compensating, inline emitters with spacing as indicated on drawings.
   e. The flow rate from each installed inline emitter shall be consistent when inlet pressure is between 9.5 and 60 psi (0,7 to 4,1 bars). GPH rating indicated by specified model
   f. Operating pressure range: 9.5 to 60 psi (0,7 to 4,1 bar).
   g. Model: Pressure-Compensating Landscape Dripline as indicated on plans

B. Spray Sprinklers: The sprinkler shall be a fixed spray type designed for in-ground installation. The nozzle shall elevate 6" (or as designated on plan) when in operation. The body of the sprinkler shall be constructed of non-corrosive heavy duty Cycolac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the tip of the unit by removal of a threaded cap.

   Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body. The body of the riser-mount sprinkler shall be constructed of non-corrosive materials. A cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 40 PSI.

C. Low Volume, Pressure-Compensating (PC) Emitter Modules:
   a. Pressure-Compensating Modules shall be pressure compensating over the range of 10 to 50 psi (0,7 to 3,5 bar) and have a consistent flow rate over this pressure range, as specified.
   b. The pressure-compensating modules shall be made of UV resistant acetyl externally.
   c. The pressure-compensating modules shall be color-coded on the outlet side to identify flow rate. A tan outlet shall indicate an emitter with a flow rate of 5 gallons per hour (18,93 l/h), a violet outlet shall indicate a flow rate of 7 gallons per hour (26,50 l/h), a green outlet shall indicate a flow rate of 10 gallons per hour (37,85 l/h), a dark brown outlet shall indicate a flow rate of 12 gallons per hour (45,42 l/h), a white outlet shall indicate a flow rate of 16 gallons per hour (60,13 l/h) and an orange outlet shall indicate a flow rate of 24 gallons per hour (90,84 l/h).
   d. Model: as indicated on plans

(continued...)

Drawing name: K:\WPB_LPO\24241012 Hollywood A1A\CAD\L2.13-L2.15_IRRIGATION_DETS_SPECS.dwg L-2.14 Jan 23, 2013 5:30pm by: jonathan.haigh
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No.	REVISIONS	DATE	BY

SCALE: AS SHOWN AS NOTED
DESIGNED BY JH
DRAWN BY TR
CHECKED BY JH
LICENSED ARCHITECT JONATHAN HAIGH FLORIDA REGISTRATION NUMBER LA666666
DATE: 1.23.13

IRRIGATION SPECIFICATIONS

OCEAN DRIVE
MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE JAN 2013
PROJECT NO. 044241012
SHEET NUMBER L-2.14

2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.

B. Gate valves for 3" and larger: iron body, brass or bronze mounted AWWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150p PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

A. For gate valves, use AMETEK #10-161-014 box with #10-161-015 locking lid, or as per the drawings.

B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-161-014 box with #10-161-015 locking lid, or sized as necessary to effectively house the equipment

C. For control wiring splices, use AMETEK #10-161-014 box with #10-161-015 locking lid, or as per the drawings.

2.12 IRRIGATION WIRING

A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or load wires, and common wire to be 14 gauge, white in color.

B. Contractor shall perform an ohm test on ground to ensure adequate protection against surges and indirect lightning strikes.

2.13 MISCELLANEOUS MATERIALS

A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.

B. Metallized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene cold, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 4" utility color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0028") solid aluminum foil, core encapsulated within a 2.56 mil (0.00256") polyethylene backing and a 0.4 mil (0.004") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "conduit" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans. Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) 7VA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually by operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision valve adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.8 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightening protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device, as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space for backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:

Pipe and Wire Depth

Pressure Mainline	18" ok top of pipe from Finish Grade
Lateral Piping (water)	12" ok top of pipe from Finish Grade
Lateral Piping (sprays)	12" ok top of pipe from Finish Grade
Control Wiring	Side of main Line

B. Minimum Clearance: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

A. PVC Pipe and Joints: The Contractor shall not install solvent weld pipe when air temperature is below 40o F. Installation shall be in accordance with the manufacturer's instructions.

1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall reseed any areas not in healthy condition equal to adjoining lawns 10 days after replanting.

C. Seeded Areas: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.

D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

B. Gate Valves: Install where shown, in valve boxes.

C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, driveway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.

B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.

C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.

B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.

C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.

D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Teshdel GT-3-GEL - Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

A. General Provisions:

1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.

2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

B. Head Types:

1. Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.

2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 4" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with AWWA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.

B. During the warranty period, the Contractor will enforce all manufacture's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.

C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

No.	REVISIONS	DATE	BY

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SCALE: AS SHOWN / AS NOTED
DESIGNED BY JR
DRAWN BY TR
CHECKED BY JR
DATE: 1.23.13
LANDSCAPE ARCHITECT JONATHAN D. RHODES
FLORIDA REGISTRATION NUMBER LA6666795

IRRIGATION SPECIFICATIONS

OCEAN DRIVE MEDIAN BEAUTIFICATION
HOLLYWOOD CRA
CITY OF HOLLYWOOD FLORIDA

DATE JAN 2013
PROJECT NO. 044241012
SHEET NUMBER L-2.15

Drawing name: K:\WPB_LRD\044241012 Hollywood AIA\040\L2.13-L2.15_IRRIGATION_DETS_SPECS.dwg L-2.15 Jan 23, 2013 5:29pm by: jonathan.high
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability or liability exposure to Kimley-Horn and Associates, Inc.

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT E

LANDSCAPE MAINTENANCE PLAN(S)

See Attached

MAINTENANCE PLAN
Landscape Improvements
City of Hollywood

I. General Maintenance Requirements and Recommendations:
The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: *FDOT Design Standards, FDOT Plans Preparation Manual Vol. I, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction,* as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

Watering Requirements:
Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

Irrigation System:
The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

Integrated Plant Management:
An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

Mulching:
Mulch planting beds in such a manner as to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

Pruning:
All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms must be maintained

to prevent potential roadway and pedestrian hazards, all palms are to be kept fruit free. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants are noted on the plans (See Exhibit B.) and see Part II. Specific Requirements and Recommendations for guidelines. The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be maintained at a height in compliance with *FDOT Design Standards* Index 546; Page 6 of 6, Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards.

Staking and Guying:
All staking materials, except for replacements, are to be removed by the completion of FDOT warranty period or at one year (whichever comes first). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Design Standards* guidelines (See Index 544). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

Turf Mowing:
All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must at a minimum, meet *FDOT Maintenance Rating Program* (MRP).

Litter Control:
The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

Weeding/Herbicide:
All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage, resulting from overspray to the plantings, per the approved plans.

Plant Replacement:
Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a general use permit is required from FDOT for approval by the FDOT District Landscape Architect.

Hardscape (Specialty Surfacing):
All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Guide Specifications for Pavers on an Aggregate Base, Section 23 14 13 Interlocking Concrete Pavers*, Part 3.05. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

Hardscape (Non-Standard Travelway Surfacing):
It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right-of-way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the *FDOT Standard Specifications for Road and Bridge Construction*, and the *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System.*

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

Hardscape (Landscape Accent Lighting)
Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

Maintenance of Traffic Control
Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

Vegetation Management at Outdoor Advertising (ODA)
To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for "*Vegetation Management at ODA signs*" "Florida Statutes" and "Florida Administrative Code" related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

II. Specific Project Site Maintenance Requirements and Recommendations:
All site furnishing must be kept graffiti free. Benches shall be maintained in such a manner that they can safely support a user. If benches, bike racks or trash receptacles become damaged, they shall be replaced with the same type and specification as the approved plan. If trash receptacles, they must be emptied on a regular basis in order to prevent trash overflow and odor.

Superseded agreements' Maintenance Plans and any specific project site maintenance requirements continue to apply.

REFERENCES

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

Accessible Sidewalk Videos (ADA)
http://www.access-board.gov/news/sidewalk-videos.htm

Americans with Disabilities Act (ADA) (ADAAG)
http://www.ada.gov/2010ADAstandards_index.htm

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase
www.isa-arbor.com

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*, available for purchase
http://www.doacs.state.fl.us/pi/pubs.html

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2010 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*
http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*
http://www.dot.state.fl.us/rddesign/DS/13/IDx/00544.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*
http://www.dot.state.fl.us/rddesign/DS/13/IDx/00546.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*
http://www.dot.state.fl.us/rddesign/DS/13/IDx/00600.pdf

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*
http://www.dot.state.fl.us/rddesign/DS/13/IDx/00700.pdf

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapter 2.11 Horizontal Clearance*
Table 2.11.5 Horizontal Clearance to Trees
Table 2.11.11 Recoverable Terrain
http://www.dot.state.fl.us/rddesign/PPMManual/2012/Volume1/Chap02.pdf

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks/2013/Files/580-2013.pdf

Florida Department of Transportation, Landscape Architecture Website
www.MyFloridaBeautiful.com

Florida Department of Transportation, *Maintenance Rating Program Handbook*
http://www.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2011.pdf

Florida Department of Transportation Outdoor Advertising Database
http://www2.dot.state.fl.us/rightofway/

Florida Exotic Pest Plant Council Invasive Plant Lists
http://www.fleppc.org/list/list.htm

Florida Irrigation Society
http://www.fisstate.org

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
http://www.fpl.com/residential/trees/right_tree_right_place.shtml

Guide to Roadside Mowing and Guide to Turf Management, available for purchase
http://infonet.dot.state.fl.us/SupportServicesOffice/plist.htm

Interlocking Concrete Pavement Institute (ICPI)
http://www.icpi.org/

International Society of Arboriculture (ISA)
www.isa-arbor.com

UF IFAS: *Selecting Tropical and Subtropical Tree Species for Wind Resistance*
http://edis.ifas.ufl.edu/pdffiles/FR/FR17500.pdf

U.S. Department of Transportation, Federal Highway Administration, *Manual on Uniform Traffic Control Devices*
http://www.mutcd.fhwa.dot.gov

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT F

PENDING DEPARTMENT PROJECT(S) ESTIMATE

State Road 9 (I-95) and State Road 824 (Pembroke Road) Interchange See Attached	**$44,390.50**
State Road 9 (I-95) and State Road 820 (Hollywood Boulevard) Interchange See Attached	**$65,988.50**
State Road 9 (I-95) and State Road 848 (Stirling Road) Interchange See Attached	**$15,193.00**

CITY OF HOLLYWOOD
Plan Sheets 13B - 14B

CITY OF HOLLYWOOD					
I-95 @ Pembroke Road					
422796-1-52-01					
30-Nov-12					
OVERALL LANDSCAPE					
COST ESTIMATE					
	UNIT COST	UNIT	QUANTITY	TOTAL COST	SPECIFICATION
PALMS					
SABAL PALM	$240.00	EA	11	$2,640.00	12' Clear Trunk, Booted, Straight Trunk
THATCH PALM	$640.00	EA	14	$8,960.00	10'-12' Overall Height, Full Crown, Straight Trunk
SHRUBS					
DWARF FIREBUSH	$7.50	EA	1,273	$9,547.50	3 Gallon, 24"x18", Full, 3' On Center
DWARF FAKAHATCHEE	$7.00	EA	269	$1,883.00	3 Gallon, 24"x18", Full, 2.5' On Center
COCOPLUM HORIZONTAL	$8.00	EA	1,420	$11,360.00	3 Gallon, 10"x10", Full, 3' On Center
IRRIGATION					
MODIFICATIONS	$10,000.00	LS	1	$10,000.00	Modify / Repair Existing Irrigation
TOTAL OVERALL COST				**$44,390.50**	

CITY OF HOLLYWOOD
Plan Sheets 15B - 16B

CITY OF HOLLYWOOD					
I-95 @ Hollywood Blvd.					
422796-1-52-01					
30-Nov-12					
OVERALL LANDSCAPE					
COST ESTIMATE					
	UNIT COST	UNIT	QUANTITY	TOTAL COST	SPECIFICATION
***PALMS**					
SABAL PALM	$240.00	EA	7	$1,680.00	12' Clear Trunk, Booted, Straight Trunk
THATCH PALM	$640.00	EA	20	$12,800.00	10'-12' Overall Height, Full Crown, Straight Trunk
***SHRUBS**					
DWARF FIREBUSH	$7.50	EA	1,519	$11,392.50	3 Gallon, 24"x18", Full, 3' On Center
DWARF FAKAHATCHEE	$7.00	EA	400	$2,800.00	3 Gallon, 24"x18", Full, 2.5' On Center
SAND CORDGRASS	$7.00	EA	204	$1,428.00	3 Gallon, 24"x18", Full, 3.5' On Center
COCOPLUM HORIZONTAL	$8.00	EA	3,236	$25,888.00	3 Gallon, 10"x10", Full, 3' On Center
***IRRIGATION**					
MODIFICATIONS	$10,000.00	LS	1	$10,000.00	Modify / Repair Existing Irrigation
TOTAL OVERALL COST				**$65,988.50**	

CITY OF HOLLYWOOD
Plan Sheet 19B

CITY OF HOLLYWOOD					
I-95 @ Stirling Road					
FM#'s: 422796-1-52-01					
30-Nov-12					
OVERALL LANDSCAPE					
COST ESTIMATE					
	UNIT COST	UNIT	QUANTITY	TOTAL COST	SPECIFICATION
PALMS					
SABAL PALM	$240.00	EA	4	$960.00	12' Clear Trunk, Booted, Straight Trunk
SHRUBS					
DWARF FIREBUSH	$7.50	EA	100	$750.00	3 Gallon, 24"x18", Full, 3' On Center
DWARF FAKAHATCHEE	$7.00	EA	333	$2,331.00	3 Gallon, 24"x18", Full, 2.5' On Center
COCOPLUM HORIZONTAL	$8.00	EA	144	$1,152.00	3 Gallon, 10"x10", Full, 3' On Center
IRRIGATION					
MODIFICATIONS	$10,000.00	LS	1	$10,000.00	Modify / Repair Existing Irrigation
TOTAL OVERALL COST				**$15,193.00**	

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT G

PATTERNED PAVEMENT INSTALLATION
(When Applicable)

This Exhibit forms an integral part of the DISTRICT FOUR (4) MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

1. Prior to acceptance by the DEPARTMENT, all lanes for each of the stamped asphalt crossings projects shall be tested for friction in accordance with ASTM E 274-06. All costs for friction testing will be the responsibility of the AGENCY. The initial friction resistance shall be at least 35 obtained at 40 mph with a ribbed test tire (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL). All lanes receiving new installations shall again be friction tested within 60-90 days of their acceptance by the local AGENCY. The initial friction resistance of each new installation shall be at least 35 (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient areas be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the DEPARTMENT 'S Qualified Products List (QPL), or replaced with conventional pavement.

- The results of all friction tests and condition surveys shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying that the crosswalks comply with the above stated requirements; or what remedial action will be taken to restore the friction and/or integrity of the crosswalk area.

2. When remedial action is required in accordance with the above requirements, the local AGENCY at its own expense shall complete all necessary repairs within 90 days of the date the deficiency was identified.

3. Should the local AGENCY fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the DEPARTMENT reserves the right to replace the patterned pavement with conventional pavement and bill the local AGENCY for this cost. No more than two full stamped asphalt pavement depth repairs shall be made to an area without first resurfacing the pavement to its full depth.

SECTION No.(s):	**86010, 86016, 86030, 86018, 86040, 860105, 86040215, 86070, 86100, 86230**
S.R. No.(s):	**A1A, 5, 7, 9, 820, 822, 824 & 848**
COUNTY:	**Broward**

EXHIBIT H

PATTERNED PAVEMENT MAINTENANCE
(If Applicable)

This Exhibit forms an integral part of the DISTRICT FOUR (4) MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

"Maintenance" of all patterned pavement crosswalks in these Agreements shall be defined, as a minimum, to include its frictional characteristics and integrity as follows:

1. Within 60 days of project acceptance by the Department, all lanes of each patterned crosswalk shall be evaluated for surface friction. The friction test shall be conducted using either a locked wheel tester in accordance with ***FM 5-592 (Florida Test Method for Friction Measuring Protocol for Patterned Pavements)*** or Dynamic Friction Tester in accordance with ***ASTM E1911. All costs for friction testing are the responsibility of the AGENCY.***

   The initial friction resistance shall be at least 35 obtained at 40 mph with a ribbed tire test (FN40R) or equivalent (FM 5-592 attached). Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (land-by-land) and replaced with the same product installed initially. The AGENCY is responsible for all costs associated with the removal and replacement of the crosswalk. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL) or replaced with conventional pavement.

2. Approximately **one year** after project acceptance and **every two years** thereafter and for the life of the adjacent pavement, only the outside traffic lane areas of each patterned crosswalk shall be tested for friction resistance in accordance with ***ASTM E274*** or ***ASTME 1911***. Friction resistance shall, at a minimum, have a FN40R value of 35 (or equivalent).

3. The results of all friction tests shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying, that the crosswalks comply with the minimum friction criteria, or stating what remedial action will be taken to restore the friction.

4. Failure to achieve the minimum resistance shall require all lanes of the crosswalk to be friction tested to determine the extent of the deficiency. All deficient areas shall be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the QPL, or replaced with conventional pavement.

5. When remedial action is required in accordance with the above requirements, the local agency shall complete all necessary repairs at its own expense within 90 days of the date when the deficiency was identified. No more than two full depth patterned pavement repairs shall be made to an area without first resurfacing the underlying pavement to 1" minimum depth.

6. The Department will not be responsible for replacing the treatment following any construction activities by the Department in the vicinity of the treatment, or any costs for testing.

7. Should the local agency fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the Department reserves the right to replace the patterned pavement with conventional pavement (matching the adjacent pavement) and bill the local agency for this cost.

Florida Test Method
for
Friction Measuring Protocol for Patterned Pavements

Designation: FM 5-592

1. SCOPE

This method covers the testing procedures for evaluating the friction resistance of Patterned surfaces used in crosswalks over asphalt and concrete surfaces

Note: This test method contains two parts:
Part A- Friction testing performed with the Locked Wheel Friction Tester
Part B- Friction testing performed with the Dynamic Friction Tester (DFT)

2. APPARATUS

2.1 Locked Wheel Friction Tester- This apparatus shall be standardized in accordance with ASTM E 274, "Standard Test Method for Skid Resistance of Paved Surfaces Using a Full-Scale Tire". The friction test tire used shall be in accordance with ASTM E 501, "Standard Specification for Standard Rib Tire for Pavement Skid-Resistance".

2.2 Dynamic Friction Tester- This apparatus shall be standardized in accordance with ASTM E 1911, "Standard Test Method for Measuring Paved Surface Frictional Properties Using the Dynamic Friction Tester".

3. FRICTION NUMBER CONVERSION

The regression equations relating the locked wheel test results and the DFT results at 40 mph (65 km/h) are:

$$FN40R = 0.64 \cdot DFT40 + 9.23 \quad (1)$$

$$DFT40 = 1.56 \cdot FN40R - 14.42 \quad (2)$$

where,

FN40R = Friction Number from locked wheel testing at 40 mph using a ribbed tire
DFT40 = Coefficient of Friction from DFT at 40 mph multiplied by 100.

Although the above equations can be used to convert the DFT result to the locked wheel friction number at 40 mph and vice versa, conditions do exist where the DFT testing or the locked wheel testing at 40 mph is not feasible due to constraints such as safety, traffic congestion, speed limits, and/or roadway geometries. In these cases, it may be preferable to conduct the locked wheel

testing at a slower speed, e.g., 20 or 30 mph. The following regression equations have been developed to convert the locked wheel test results at 20 and 30 mph to those at 40 mph:

$$FN40R = 0.89 \cdot FN20R - 4.88 \quad (3)$$

where,

FN20R = Friction Number from locked wheel testing at 20 mph using a ribbed tire, and

$$FN40R = 0.95 \cdot FN30R - 2.91 \quad (4)$$

where,

FN30R = Friction Number from locked wheel testing at 30 mph using a ribbed tire.

For ease of application of the above harmonization results, Table 1 summarizes the conversions from FN30R, FN20R and DFT40 to FN40R. Note that the friction numbers shown in this table were rounded to the closest integer. The numbers highlighted in yellow represent the current minimum required friction numbers depending on survey cycle, test method, and speed evaluated.

Table 1. Friction Number Table

FN40R	FN30R	FN20R	DFT40
22	26	30	20
23	27	31	21
24	28	32	23
25	29	34	25
26	30	35	26
27	31	36	28
28	33	37	29
29	34	38	31
30*	35*	39*	32*
31	36	40	34
32	37	41	36
33	38	43	37
34	39	44	39
35**	40**	45**	40**
36	41	46	42
37	42	47	43
38	43	48	45
39	44	49	46
40	45	50	48
41	46	52	50
42	47	53	51
43	48	54	53
44	49	55	54
45	50	56	56

*Minimum friction numbers required for inventory cycles of patterned crosswalks.
**Minimum friction numbers required for new construction and 3-year QPL test decks for patterned crosswalks.

4. PROCEDURE

The test procedures for both the Locked Wheel Friction Tester and the Dynamic Friction Tester are described in the following. All testing should be performed within either the driver or passenger side wheel path, regardless of the equipment used.

4.1 PART A- Friction Testing with the Locked Wheel Friction Tester

A) **New Construction** – The locked wheel test shall be conducted on all crosswalks within 60 days of the new surface completion date. One valid lockup test is required for each lane; all lanes shall be evaluated

and compared. The test layout is shown in Figure 1.

B) **Inventory** – For in-service Qualified Product List (QPL) test sections, the locked wheel test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. The locked wheel test will require three repeat lockups and averaged for the designated test lane. The lane in which the friction tests were conducted must be identified in the report along with the test results.

C) **Retest** – At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.

D) **Special Request** – At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.

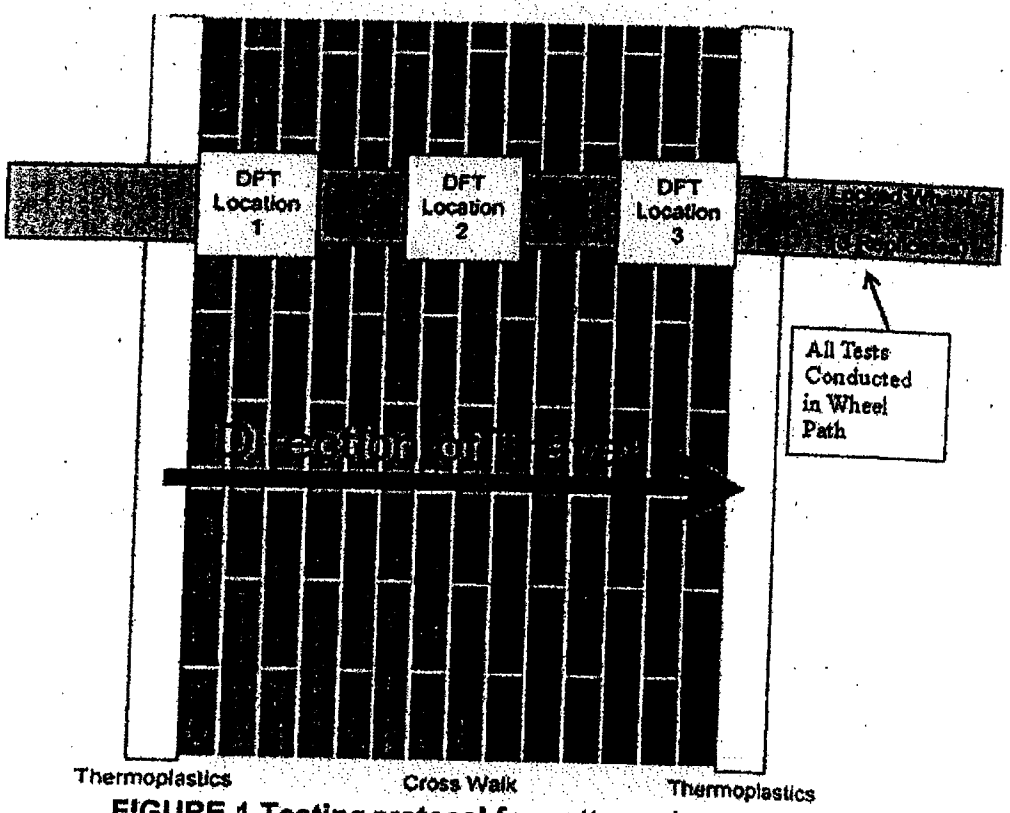

FIGURE 1 Testing protocol for patterned pavement.

4.2 PART B- Skid Testing with the Dynamic Friction Tester (DFT)

A) **New Construction** – The DFT test shall be conducted on all crosswalks within 60 days of the new surface completion date. DFT tests shall be conducted at three (3) discrete locations in each lane; the results shall be averaged and reported for each lane tested. All lanes shall be evaluated and compared. The test layout is shown in Figure 1.

B) **Inventory** – For in-service QPL test sections, the DFT test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. DFT tests will be conducted at three (3) discrete locations (Figure 1) in each lane; the results shall be averaged and reported for each lane tested. The lane in which the friction tests were conducted should be identified in the report with the test results.

C) **Retest** – At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.

D) **Special Request** – At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.

5 REPORT

5.1 Friction numbers for the patterned crosswalks should be reported using FDOT's Materials form number 675-060-05. This form can be downloaded from FDOT's website at: http://formserver.dot.state.fl.us/MiscRepository/forms/67506005.xlsm.