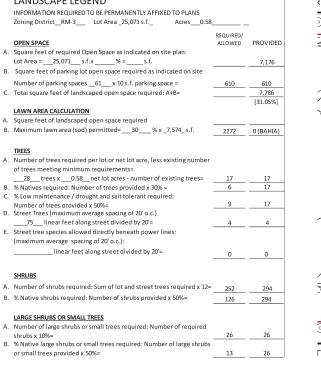


PLANT LIST TREES					
CAWI	Canella winterana	8	ea.	12' tall x 5' spread, 2" DBH min.	
	Wild Cinnamon				
COER	Conocarpus erectus	8	ea.	12' tall x 5' spread, 2" DBH min.	
	Green Buttonwood				
COES	Conocarpus erectus "Sericeus"	5	ea.	12' tall x 5' spread, 2" DBH	
	Silver Buttonwood			min., 4' CT single leader	
SHRUI	BS AND GROUNDCOVERS				
KEY	PLANT NAME	QTY.	UT.	SIZE	
CACY	Capparis cynophallophora	11	ea.	6' tall OA, full to ground	
	Jamaica Caper				
CHIC	Chrysobalanus icaco	254	ea.	18"x18", install 24" o.c.	
	Cocoplum				
COUV	Coccoloba uvifera	11	ea.	6' tall OA, full to ground	
	Seagrape				
ERLI	Ernodea littoralis	275	ea.	3 gal cans, full, install 18" o.c.	
	Golden Creeper				
GAPU	Gallardia pulchella	48	ea.	1 gal cans, full, install 12" o.c.	
	Blanket Flower		-		
GYLU	Gymnanthes lucida	4	ea.	6' tall OA, full to ground	
	Crabwood		-		
IPPC	Ipomea pes-caprae	230	ea.	1 gal cans, full, install 24" o.c.	
SERE	Railroad Vine	8	+	0.0000000000000000000000000000000000000	
SERE	Serenoa repens "Silver Form" Saw Palmetto	8	ea.	24'x24", silver color	
SPBA	Spartina bakerii	3	ea.	3 gal cans, full	
	Sand Cordgrass	3	eu.	3 gai cans, ion	
TRDA	Tripsacum dactyloides	3	eg.	3 gal cans, full	
	Fakahatchee Grass	3	eu.	3 gai cans, ion	
MICCI	ELIANEOUS		-		
	Bahia Sod	1	s.f.	solid sod	
sod	Planting Soil	as req.	c.y.	SOIIG SOG	
	70% Silica Sand	as req.	c.y.		
	30% Everglades Muck	1			
	Amerigrow Pinebark Mulch	as req.	c.y.	2" layer in all shrub beds	



CITY OF MIAMI BEACH LANDSCAPE LEGEND

OPEN SPACE

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

A. Square feet of required Open Space as indicated on site plan Lot Area = ___25,071___ s.f.x _____ % = ____ s.f. B. Square feet of parking lot open space required as indicated on site Number of parking spaces __61___ x 10 s.f. parking space = C. Total square feet of landscaped open space required: A+B=

B. Maximum lawn area (sod) permitted= ___30____ % x _7,574_ s.f.

A. Number of trees required per lot or net lot acre, less existing number

___ linear feet along street divided by 20'=

B. % Native shrubs required: Number of shrubs provided x 50%=

A. Number of large shrubs or small trees required: Number of required

__28__ trees x ___0.58__ net lot acres - number of existing trees= B. % Natives required: Number of trees provided x 30% = C. % Low maintenance / drought and salt tolerant required

A. Square feet of landscaped open space required

of trees meeting minimum requirements=

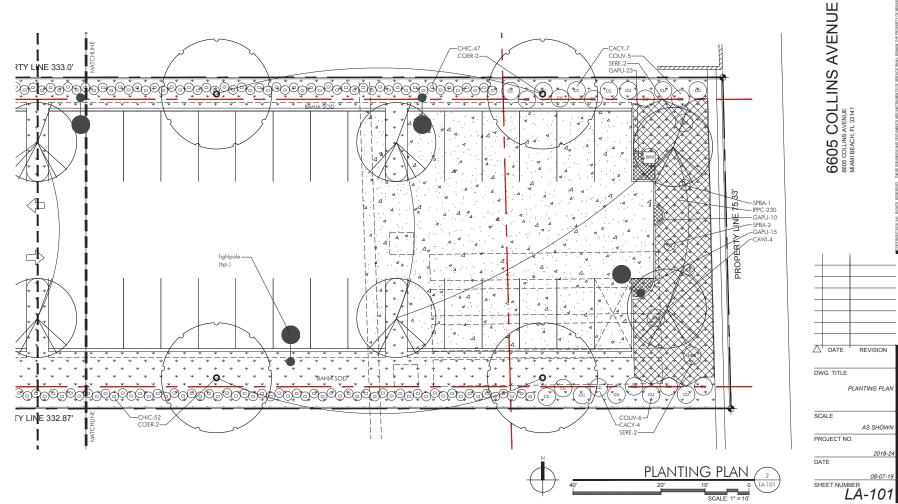
Number of trees provided x 50%= D. Street Trees (maximum average spacing of 20' o.c.)
____75___ linear feet along street divided by 20'= E. Street tree species allowed directly beneath power lines (maximum average spacing of 20' o.c.):

LARGE SHRUBS OR SMALL TREES

or small trees provided x 50%=

SHRUBS

shrubs x 10%=



AVENUE

DWG. TITLE

SCALE

PROJECT NO.

PLANTING PLAI

AS SHOW

08-07-1

1.1 SCOPE
A. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which

1.2 CONTRACTOR QUALIFICATIONS

A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurseymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist, certified by the International Society of Arboriculture (ISA) and licensed in Miami-Dade County.

A. Only materials specified will be accepted, unless approved in writing by the Landscape Architect in advance.

1.5 PLANT SIZES

1.3 FLANT SIZES
A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured following purings, with branches in normal position. All necessary pruning shall be done at the time of planting.

A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

does not conform to the intent of the written specifications or design.

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY

the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.

1.8 UNIT PRICES

A. The successful bidder shall furnish to the Owner and the Landscape Architect, breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

SUBMITALS
 A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.

cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.

ures in FDOT Index 600 for maintenance of traffic during construction.

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.

Landscape Architect, all debris and surplus material from his work shall be removed from the job site.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE

A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, wearing, mulching, per and dissess control, fightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position, estarctions of plant sauce; flatte pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.

Ton Heads, begin inhametrative or inhimetatively following the public field but not confline until 30 distribution is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery practice.

3. Re-setting or straightening trees and palms:
The Contractor shall re-set and/or straighten trees and palms as required at no additional
cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of
the operations may be charged to the owner. Re-set trees within 48 hours.

1.12 ACCEPTANCE OF INSTALLATION
A. Inspection: Inspection of the work, to determine completion of contract work, exclusive the possible replocement of plants and util, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor of least the I (10) day point or the articipated data.

1.13 GUARANTE

A. Guarantee Oljants for a period of one year (CCD). Guarantee shall commence from
the date of written acceptance. Plant material which is on the site and scheduled to be
redocated is not covered by the guarantee except in the oscie of Contractor's regilgance or
work that has been done in an unworkman-like manner. The Contractor is not responsible
for loss due in acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning,
vandalism or their.

determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.

indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possi replacements, including material and labor will be retained by the Owner and Contractor after all replacements have been satisfactorily made and approved by the

PART 2 - MATERIALS

PLANTING SOIL
 A. Planting soil for trees, shrubs and ground covers shall be of the composition plans, measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

2.2 FERTILIZER
A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13:3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturers' guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

B. Install per details in the plans.

PART 3 - INSTALLATION PROCEDURES

A Verify location of all underground utilities and obstructions prior to excavation

3.2. IncREMILLER INCENTENT

A. In all areas infected with wead and/or grass growth, a systemic herbicide shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to Itil all naisous growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undestable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.

B. All planting holes shall be hand dug where machine dug holes may adversely affect

D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.

3.4 WATERING
A. The Controtor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period affer acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor: can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION For trees up to 5 inch caliper - 5 gallons From 5 to 8 inch caliper - 25 gallons

9 inch and up caliper - 50 gallons

For large trees and shrubs, add water while backfilling hole to elimingte any air pockets in the

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contract shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installed.

3.5 FERTILIZING

A: Add refinite for log or measured or anisona season in the for planting offer planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates.

Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over the root ball area

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

3.6 MULCHING A. Spread mulch hor (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk. Create of 6" high pollins planted in sod areas. Keep mulch owey from contact with the trunk.

A. See the details bound herewith or made part of the plans

3.8 SODDING.
A Provide of blanket of lown sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Exercise existing non-conforming soil as required so that the finish grade of soil is flux with adjacent povement or top of curb as well as adjacent soil in the case of soil patching.

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two es below the bottom of sod strips.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

PLANT BED PREPARATION NOTES

1. In all areas where new sod and shrub and groundcover masses are to be plante kill all existing weeds by treating with Round-up prior to beginning soil preparation.

2. In all shrub and groundcover beds, prepare soil as described for either condition, over the entire area to be planted:

Condition A: If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 187 depth of planting soil per plant list unless otherwise stated. Bacdfill the entire area of the shirt band ground-cover beds with 187 planting soil (as specified in 1911 so) to within 2 inches of the adjacent pavement or top of cuts. Remove all debris and rocks and pebbles larger than 2 inches in size

CONDING B:

Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil per plant list into the existing soil to a depth of 16 inches unless otherwise stated. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is influented to a minimum of 2 inches below top of cutor or adjacent ways. Premove all debters and rocks and pebbles larger than 2 inches in size and level the grade before planting.

For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inchs in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.

For Trees and shrubs larger than 7 gallon, Add Dlehard' transplant innoculant supplied by Horticultural Alliance, Inc. (800-628-6373) or equal. Mix into top 8-10 inches of planting hole, making sure it is contact with the root ball. Add at a rate specified by manufacturer (typically 4oz. per 1 inches of trunk caliper or 7 gallon can).

1. Plants shall be planted sufficiently away from edges of pavements or curbs, to

The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment anatherials, any toxic materials, why offer the cancey for fine can of the protect of



☐ ½" X 5½" (3.2MM X 140MM), 0.072" (1.82MM) THICK w/ 0.135" (3.43MM) EXPOSED TOP LIP

NOTES:

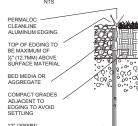
. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES"

2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES. 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 12" (305 MM)

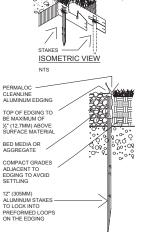
ALUMINUM STAKES.

CORNERS - CUT BASE EDGING UP
HALFWAY AND
FORM A CONTINUOUS CORNER.
PERMALOC CLEANLINE AS

MANUFACTURED BY
5. PERMALOC CORPORATION,
HOLLAND MI.
(800) 356-9660,



PLAN VIEW



ALUMINUM STAKES TO LOCK INTO

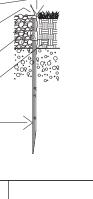
ALUMINUM EDGING DETAIL

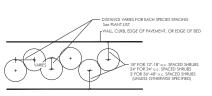
INSTALL WHEN 8'
OR LESS

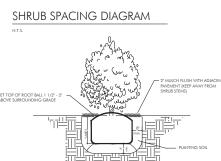
ROOT BARRIER INSTALLATION DETAIL

UNDER 3 1/2" CALIPER

NTS







DETAIL A

SET ROOTBALL SO
TRUNK FLARE OR TOP ROOT
IS 2" ABOVE SURROUNDING GRADE

SHRUB INSTALLATION DETAIL

MULTI-TRUNKED TREE/PALM BRACING DETAIL

PLANTING & BRACING DETAIL

FOR LEANING/CROOKED PALMS

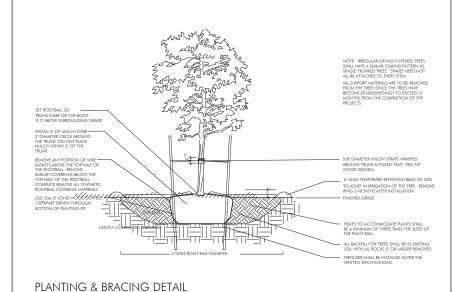
DETAIL A

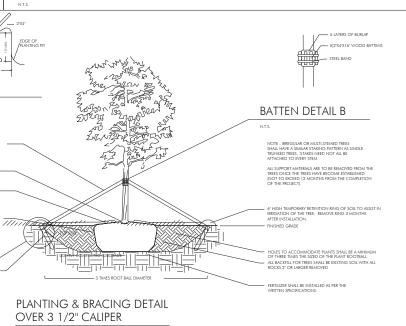
CURVED TRUNK LEAN ANGLE A

NOTE- USE 4" X 4" STAKES PALMS OVER 12" CALIPER

DETAIL A

N.T.S.





ARCHITECTURE AAC001062 JOSE L. GOMEZ AR0015416 8101 BISCAYNE BLVD SUITE 309 TEL. (305) 559.1250 FAX (305) 551.1740

- 5 LAYERS OF BURLAP

- STEEL BAND

BATTEN DETAIL B

AVENU COLLINS 6605

DATE DWG. TITLE SCALE

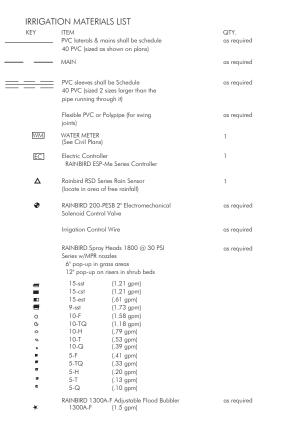
AS SHOW PROJECT NO

DATE

SHEET NUMBER

08-07-1

2018-



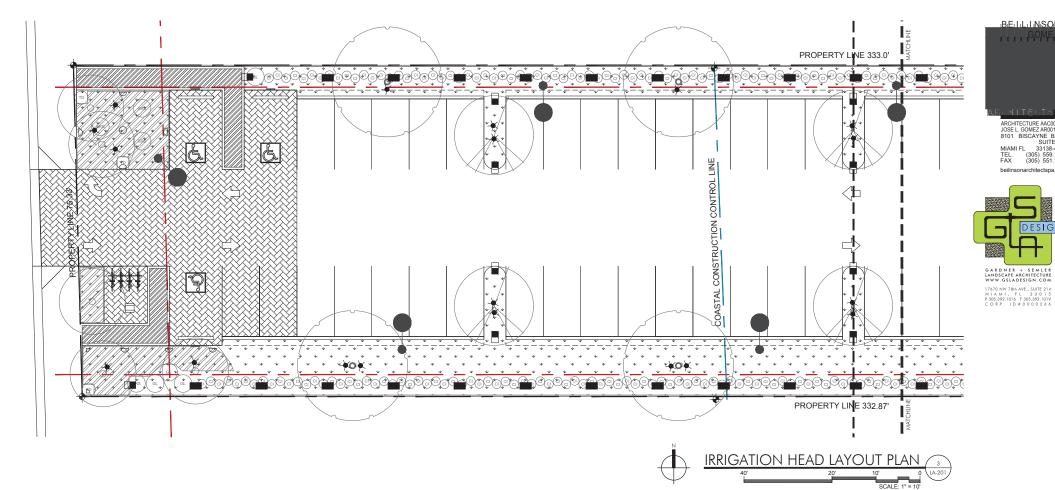
AVENUE

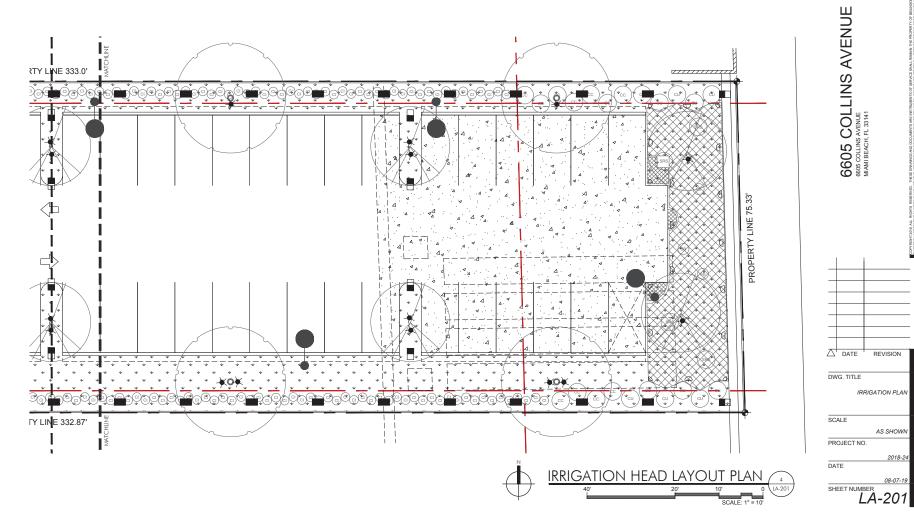
COLLINS

LATERAL PIPE SIZING
The Contractor is responsible to properly size all laterals. All laterals shall be sized according to the following schedule. Total gallonage per pipe section shall be accludated be adding the GPM per head for every head downstream of the pipe.

PIPE SIZING CHART

PIPE SI	ZING CHAK
SIZE	GPM
1/2"	0-4 GPM
3/4"	4-6 GPM
1"	6-10 GPM
11/4"	10-18 GPM
11/2"	18-25 GPM
2"	25-40 GPM
21/2"	40-60 GPM
3"	60-90 GPM





AVENUE 6605 COLLINS A MANIBEALL OF THE AMANIBEALL OF THE AMANIBEALL OF THE AMANIBEAL OF THE AMANIB DATE DWG. TITLE IRRIGATION PLAN SCALE AS SHOWN PROJECT NO.

2018-2

08-07-19

GENERAL NOTES:

1. SCOPE OF WORK: The Contractor shall furnish all labor, machinery, tools, supplies, and equipment as necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, whee, sprinkler heads, filtings, controllers, electrical, view ear diffillings, primer glue, etc.). yourt, protection to the public, exercation, assembly, installation, boddfilling, compaction, repair of road or powement surfaces, controller and low voltage feed to the valves, clean-up, maintenance and guarantee, and as-built plans.

2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insure that sleenes are provided and installed under hard surfaces to allow access to all creas to be irrigated. All sleens shall be contracted of Schedule 40 PVC. Bury all sleenes a minimum of 24' below the surface. Sleene to be 2 times the size if the pipe numling through it. Sleene shall extend 24' post the edge of poverment into the area to be irrigated.

3. GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

4. REPAIR UTILITIES: The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result indiamage to utilities students, or property. The Contractor shall loke immediates steps to repair, replace, or restore all services to any utilities which are discussed when the insequentians. All casts involved in disruption of disentice and repairs due to negligence on part of the Contractor shall be his responsibility.

5. AS-BUILT DRAWINGS: Prints of the plans will be supplied to the Contractor for recording 'as-built' information. Immediately upon installation of any work which deviates from what a shown on the Plann, the Corntactor shall clearly indicate such changes in red penal on the prints. Such changes shall include, but not be limited to, changes in University. If you do not make it is of meterials (3) bootions; and (4) quantities.

6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the contract.

7. UNIT PRICES: The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials. The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.

8. MAINTENANCE PERIOD: The irrigation system shall be maintained for a period of 90 days after final acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractors that bit responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandation. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.

The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray.

11. All pipe shall be made of Schedule 40 PVC, except flexible PVC (or Toro funny pipel for flexible swing joint and Schedule 80 gelvenized steel pipe for all above ground fittings. Poe locations shall be adjusted in the flexif. When laying our mains and laterabs, locate pape near edges of powement or against buildings wherever possible, to allow space flexible plant radioble. Scordbale pipe Scotlands wherever possible and the power p

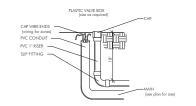
12. Keep pop-up sprinkler heads a minimum of 8° from edges of pavement and curbing, and heads on risers a minimum of 18°, or as indicated in the pans.

13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.

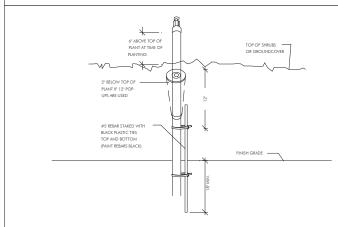
14. Place irrigation control wire in conduit in the same trench as mains and under the main. ASI wire shall be #14 or larger solid copper U.L. approved underground direct buriol coble and shall be continuous with no splices from controller to solenoid valve.

15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve box (10° x 16°) min.). When grouping whee boxes in grass or granufactor areas, set boxes a minimum of 12° part to allow grass or groundcover to grow between them. When possible, hide valve boxes in shirtly beds, a minimum of 12° mort age of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6° of pea graved of the bottom of the box, with at least 2° of clearance from the bottom of the valve to the top of the gravel.

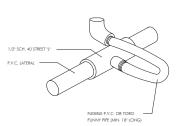
16. TESTING: Notify the Londscape Architect in writing when testing will be conducted. Conduct test in the presence of the Londscape Architect. After all PCC assembly is completed the lines shall be fluided to insure that no rocks, sond, or other foreign debris remains in the lines. The mains shall be filled with water and conductive the complete and plagged. The main shall be pressurated to 100 PSI for a minimum of one hour. No section of the main will be approved if the pressure does more than 5PS did the end of the one hour period Leads shall be repaired endough and the spleen shall be ne-tested until found satisfactory by the Landscape Architect.



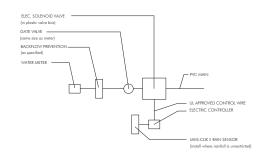
DETAIL OF STUB-OUT FOR FUTURE USE



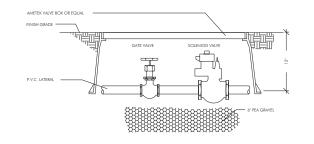
SPRINKLER ON RISER DETAIL FOR SHRUB AREAS



FLEXIBLE SWING JOINT DETAIL



CONNECTION TO METER DETAIL



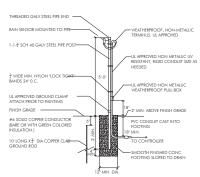
TYPICAL SOLENOID VALVE ASSEMBLY

NOTE:

ALL WIRE CONNECTIONS SHALL BE APPROVED WATERTIGHT CONNECTIONS.

FINISH ENTIRE ASSEMBLY, EXCEPT FOR EQUIPMENT, WITH FLAT BLACK ACRYLIC ENAMEL PAINT.

PRIME METALLIC SURFACES WITH ZINC CHROMATE PRIOR TO FINISHING.



RAIN SENSOR DETAIL

BELLLINSON 1

ARCHITECTURE AAC001062 JOSE L. GOMEZ AR0015416 8101 BISCAYNE BLVD. SUITE 309 MIAMI FL 33138-4664 TEL (305) 559.1250 FAX (305) 551.1740



17670 NW 78th AVE., SUITE 214 M I A M I , F L 3 3 0 1 5 P 305.392.1016 F 305.392.1019 C O R P . I D # 0 0 0 0 2 6 6

AVENUE COLLINS 6605 COLLINS MIAMI BEACH

DATE

DWG. TITLE

SCALE

AS SHOWN PROJECT NO.

DATE

08-07-19 SHEET NUMBER LA-202

2018-2