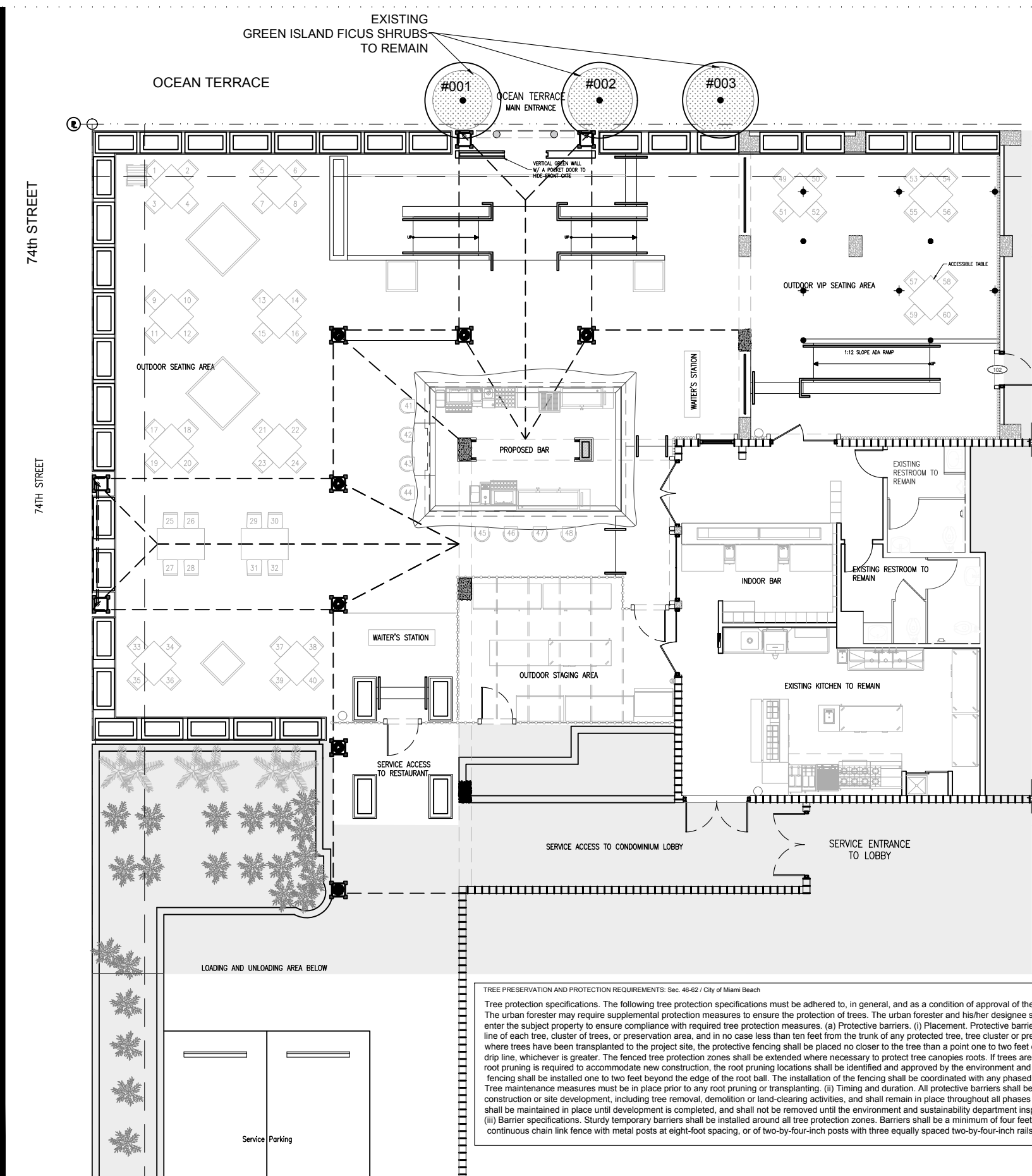




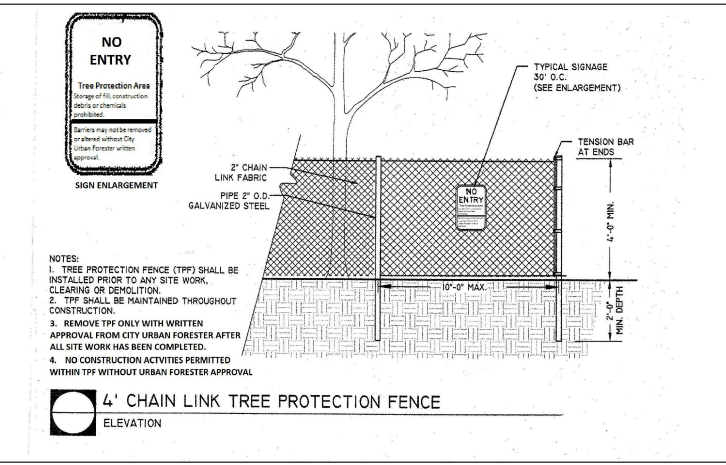
CITY OF MIAMI BEACH

EXISTING TREE DISPOSITION LIST:						
TREE	COMMON NAME/SCIENTIFIC NAME	DBH(in)	HT(ft)	CANOPY(ft)	DISPOSITION	CONDITION
1	FLORIDA THATCH PALM/ <i>Thrinax radiata</i>		15 ct	6	REMAIN	GOOD
2	FLORIDA THATCH PALM/ <i>Thrinax radiata</i>		15 ct	6	REMAIN	GOOD
3	FLORIDA THATCH PALM/ <i>Thrinax radiata</i>		15 ct	6	REMAIN	GOOD

CONDITION: EXCELLENT=90-100%, GOOD=75-85%, FAIR=60-70%, POOR=40-50%, VERY POOR=10-35%
ALL EXISTING TREES TO REMAIN / NO MITIGATION REQUIRED.

Do not relocate, remove or destroy a tree without first obtaining a permit from the City.
Existing trees to be retained on site shall be protected from all types of construction disturbance. Root cutting, storage of soil or construction materials, movement of heavy vehicles, change in drainage patterns, and wash of concrete or other materials shall be prohibited.

See sheet L2 for Landscape Plans.

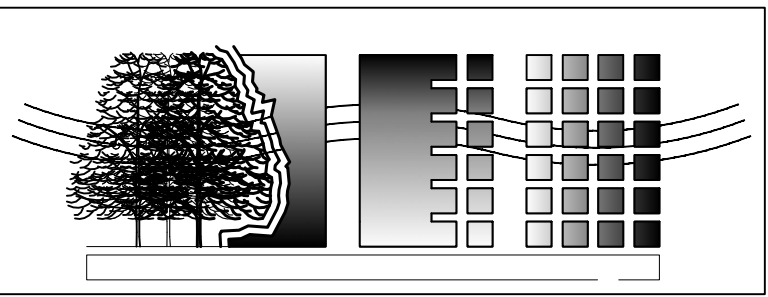


LEGEND	
TYPE	DESCRIPTION
[Symbol]	NOT PART OF THE WORKING AREA



TREE PRESERVATION AND PROTECTION REQUIREMENTS: Sec. 46-62 / City of Miami Beach

Tree protection specifications. The following tree protection specifications must be adhered to, in general, and as a condition of approval of the site plan for any project. The urban forester may require supplemental protection measures to ensure the protection of trees. The urban forester and his/her designee shall have the authority to enter the subject property to ensure compliance with required tree protection measures. (a) Protective barriers. (i) Placement. Protective barriers shall be placed at the drip line of each tree, cluster of trees, or preservation area, and in no case less than ten feet from the trunk of any protected tree, tree cluster or preservation area. In situations where trees have been transplanted to the project site, the protective fencing shall be placed no closer to the tree than a point one to two feet outside the root ball, or at the drip line, whichever is greater. The fenced tree protection zones shall be extended where necessary to protect tree canopies roots. If trees are to be preserved in place and root pruning is required to accommodate new construction, the root pruning locations shall be identified and approved by the environment and sustainability department, and fencing shall be installed one to two feet beyond the edge of the root ball. The installation of the fencing shall be coordinated with any phased root pruning that must occur. Tree maintenance measures must be in place prior to any root pruning or transplanting. (ii) Timing and duration. All protective barriers shall be installed prior to the start of any construction or site development, including tree removal, demolition or land-clearing activities, and shall remain in place throughout all phases of construction. Protective barriers shall be maintained in place until development is completed, and shall not be removed until the environment and sustainability department inspects the site and authorizes their removal. (iii) Barrier specifications. Sturdy temporary barriers shall be installed around all tree protection zones. Barriers shall be a minimum of four feet high, and shall be constructed of continuous chain link fence with metal posts at eight-foot spacing, or of two-by-four-inch posts with three equally spaced two-by-four-inch rails. Posts may be shifted to avoid roots.



info@landstonedesign.com | www.landstonedesign.com TEL. 818-856-9556
LANDSCAPE PROJECT MANAGER: FAVIO PEREZ / 305-778-7136

BICHI RESTAURANT

OWNER: SUSHI BICHI, LLC
ADDRESS: 7330 Ocean Terrace, #5, Miami Beach, FL 33141

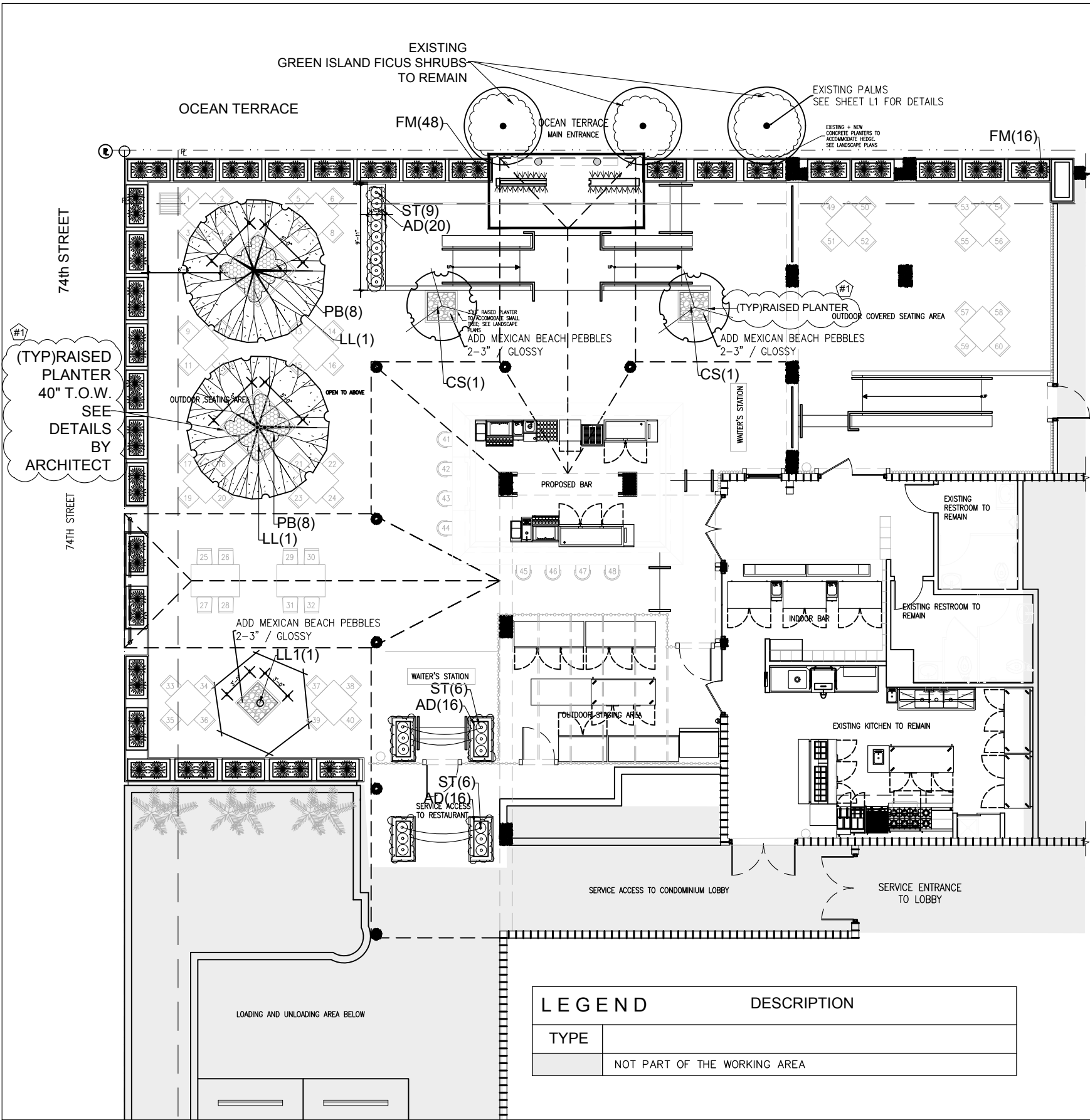
ARCHITECTUREWORKS, LLC

30071 Street, Suite 520 Miami Beach, FL 33141 (305) 986 1622 Resumes (305) 986 1881

ARCHITECT
James R. Mackenzie
FLORIDA AR-0015491

SHEET

L-1



INITIAL PROJ. DATE	
PROJECT	
DRAWN BY	
REVISION DATE	BY
BY REVIEW PER	11/6/19
CITY CMNTS	

© 2008 Architectureworks, LLC. No part of these plans, notes or designs may be reproduced or copied in any form without the express written permission of the copyright owner. Any changes shall have no effect on the original design. Architectureworks, LLC, assumes no liability for the unavailability of these plans, drawings and specifications or for any variation from original specifications.

BICHI RESTAURANT
OWNER: SUSHI BICHI, LLC
ADDRESS: 7330 Ocean Terrace, #5, Miami Beach, FL 33141
ARCHITECTUREWORKS, LLC
300 711 Street Suite 208 Miami Beach, FL 33141 (305) 866 1623 Facsimile (305) 866 1683

ARCHITECT
James R. Mackenzie
FLORIDA - AR-0015491
SHEET

L-2

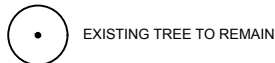
PLANT LIST:

QTY.	KEY	BOTANICAL/COMMON NAME	DESCRIPTION
2	CS	* * ^ Conocarpus erectus 'Sericeus' SILVER BUTTONWOOD	8-10' o.a. ht., STD. 3-4' c.t. min., 25 gal.
2	LL	* * Lysiloma latisiliquum WILD TAMARIND	10-12' o.a. ht., STD 3-4' c.t. min., 25 gal.
1	LL1	* * Lysiloma latisiliquum WILD TAMARIND	8-10' o.a. ht., STD 3-4' c.t. min., 15 gal.
52	AD	* Asparagus densiflorus ASPARAGUS FERN	12"ht.x 12"spr. 1 gal.
64	FM	* * Ficus microcarpa GREEN ISLAND FICUS	18"ht.x 18"spr. 3 gal.
16	PB	* Philodendron 'Burle Marx' PHILODENDRON BURLE MARX	18"ht.x 18"spr. 3 gal.
21	ST	* * Sanseveria trifasciata 'Black Gold' SNAKE PLANT	16"ht.x 16"spr. 1 gal.

ABBREVIATIONS / DROUGHT TOLERANCE-ORIGIN
* MODERATE DROUGHT TOLERANCE
* * VERY DROUGHT TOLERANT
^ NATIVE SPECIES

"ST. TROPEZ OCEAN CONDOMINIUM" LOBBY AREA

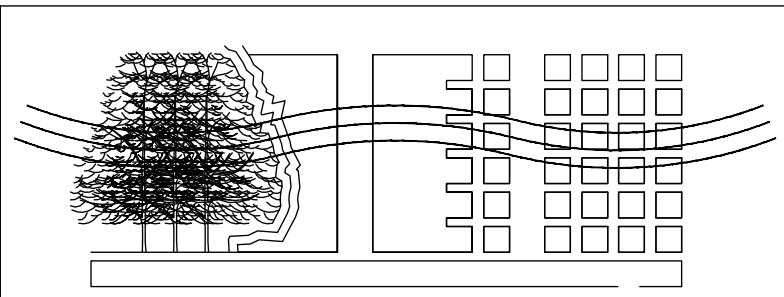
SYMBOL KEY



Symbols do not show the actual canopy of the trees, for clarity, always cross check with Existing Tree Disposition List for sizes and disposition status.

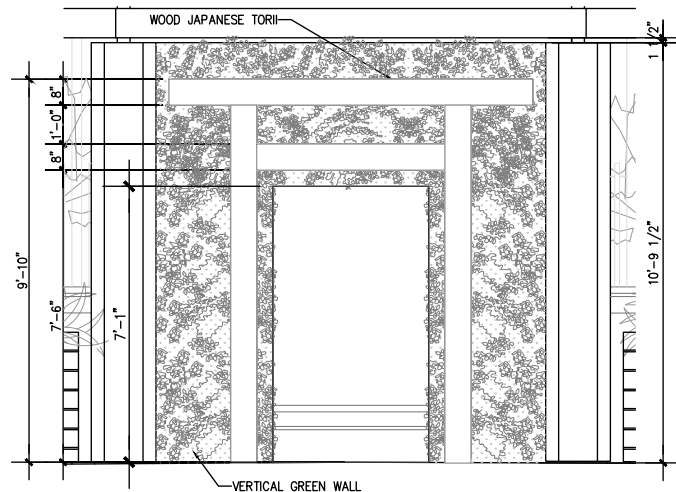


DERICK LANGEL
LA6667045



info@landstonedesign.com | www.landstonedesign.com TEL. 818-856-9556
LANDSCAPE PROJECT MANAGER: FAVIO PEREZ / 305-778-7136

TYPE	DESCRIPTION
	NOT PART OF THE WORKING AREA



FRONT ELEVATION – FACING STREET N.T.S.
SEE WALL & COLUMN DETAILS BY ARCHITECT.

Wally Pro	Wally Pro	Wally Pro	Wally Pro
Wally Pro	Wally Pro	Wally Pro	Wally Pro
Wally Pro			Wally Pro
Wally Pro			Wally Pro
Wally Pro			Wally Pro
Wally Pro			Wally Pro
Wally Pro			Wally Pro
Wally Pro			Wally Pro

CENTER WOOLLY POCKETS
IN GREEN WALL

NE(3)	EA(3)	EA(3)	NE(3)
TS(3)	EA(3)	EA(3)	TS(3)
TS(3)			TS(3)
TS(3)			TS(3)
AD(3)			AD(3)
AD(3)			AD(3)
SA(2)			SA(2)
SA(2)			SA(2)

INSTALL WOOLLY POCKETS IN WALL
-FOLLOW MANUFACTURERS SPECIFICATIONS
FOR INSTALLATION.

GREEN WALL POCKETS BY: WOOLLY POCKET (WOOLLYPOCKET.COM)
MODEL: WALLYPRO BLACK PLANTER POCKET (WALLY GRO)
DIMENSIONS: 15" H x 24" W
QTY.: 60

PROVIDE DRIP TIMER AND DRIP KIT BY WOOLLY POCKET:
DRIP TIMER GALCON 11000
SUPPLY LINE KIT

CONTRACTOR TO PROVIDE WATER CONNECTION AS REQUIRED.
FOLLOW MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION.

CENTER WOOLLY POCKETS
IN GREEN WALL

Wally Pro	Wally Pro	Wally Pro	Wally Pro	Wally Pro	Wally Pro
Wally Pro	Wally Pro	Wally Pro	Wally Pro	Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro
Wally Pro	Wally Pro			Wally Pro	Wally Pro

INTERIOR ELEVATION N.T.S.
SEE WALL & COLUMN DETAILS BY ARCHITECT.

AD(3)	DT(2)	NE(3)	NE(3)	DT(2)	AD(3)
EA(3)	DT(2)	EA(3)	EA(3)	DT(2)	EA(3)
TS(3)	EA(3)			EA(3)	TS(3)
TS(3)	TS(3)			TS(3)	TS(3)
TS(3)	DT(2)			DT(2)	TS(3)
DT(2)	AD(3)			AD(3)	DT(2)
AD(3)	SA(2)			SA(2)	AD(3)
SA(2)	SA(2)			SA(2)	SA(2)

INSTALL WOOLLY POCKETS IN WALL
-FOLLOW MANUFACTURERS SPECIFICATIONS
FOR INSTALLATION.

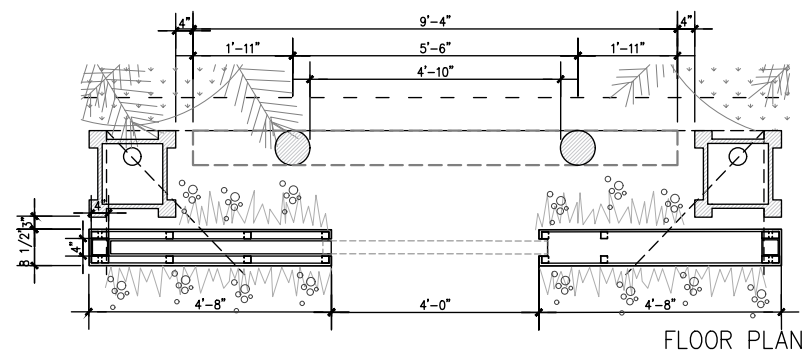
GREEN WALL PLANT LIST:

QTY.	KEY	NAME	DETAILS
30	AD	Asparagus densiflorus 'Meyeri' / FOXTAIL FERN	1 gal. F
16	DT	Dianella tasmanica 'Variegata' / VAR. FLAX LILY	3 gal. F
18	EA	Epipremnum aureum 'Neon' / GOLDEN POTHOS VINE	2 gal., full head with runners
12	NE	Nephrolepis exaltata / BOSTON FERN	1 gal. F
20	SA	Schefflera arboricola 'Dwarf' / DWF. SCHEFFLERA	3 gal. F
42	TS	Tradescantia spathacea 'Dwarf' / DWF. OYSTER PLANT	1 gal. F

SOIL: PROVIDE ALL PURPOSE POTTING SOIL AS NEEDED TO FILL EACH POCKET. PROVIDE MORE SOIL ON SIDES THAN ON CENTER.

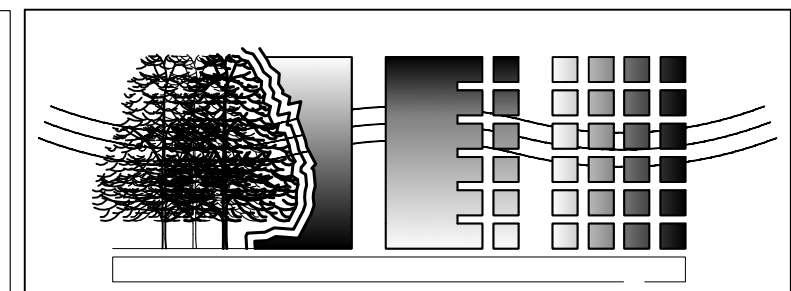
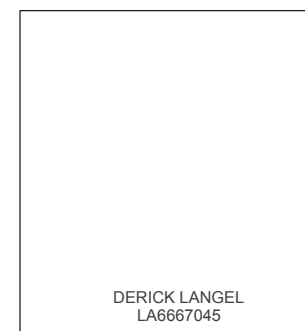
IRRIGATION:

Place drip irrigation heads as far as possible from the sides of Wallys to help avoid excessive sweating and potential leakage. With the WallyGro Wally System, place drip irrigation heads along the back inside wall of the pocket.

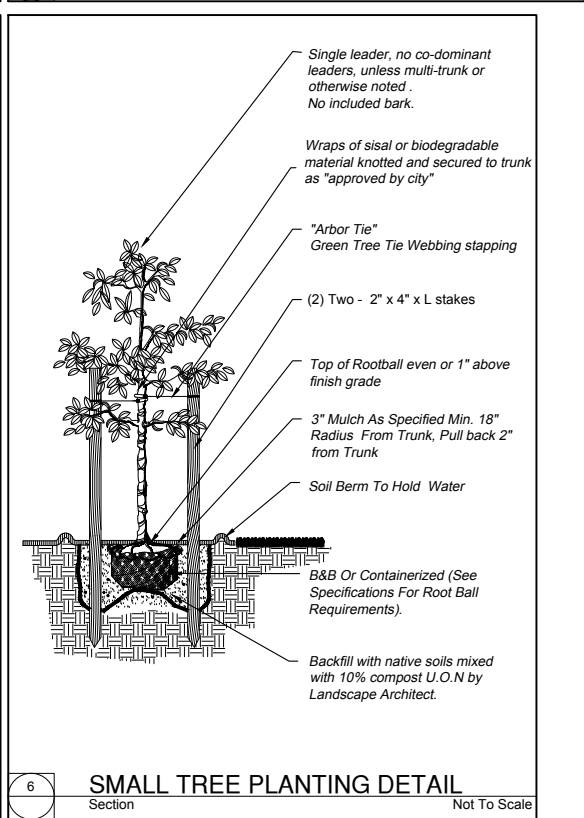
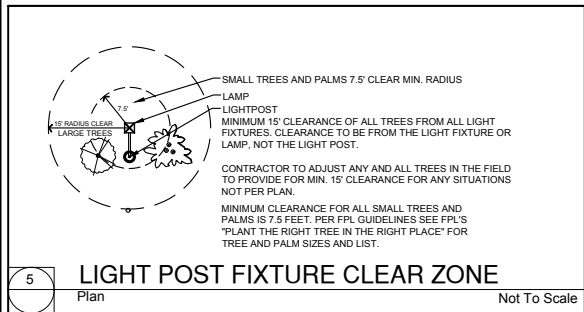
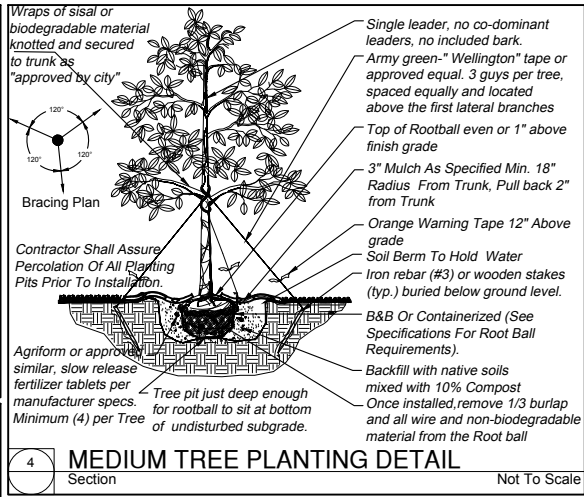
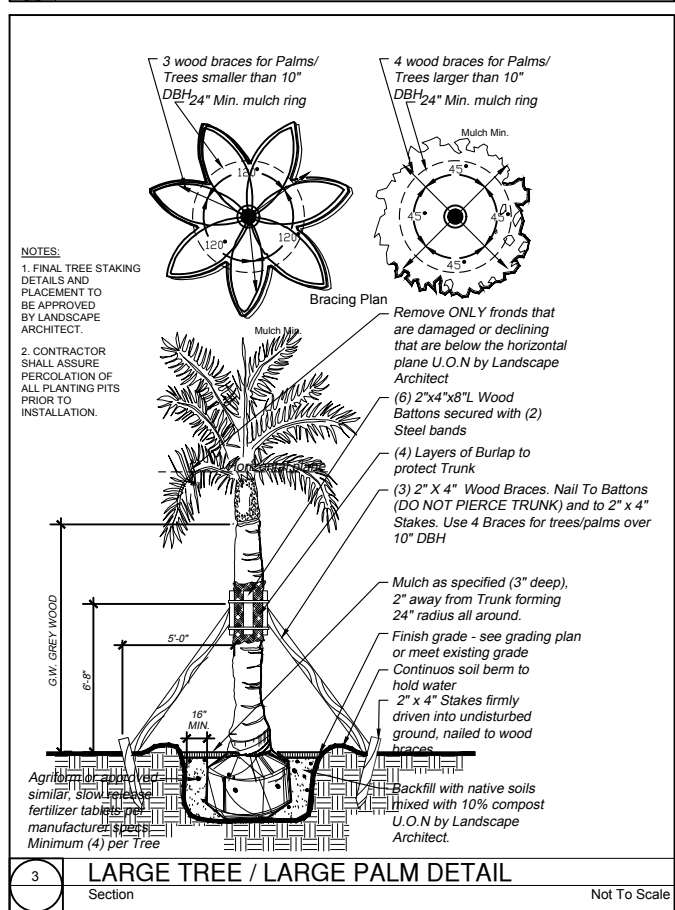
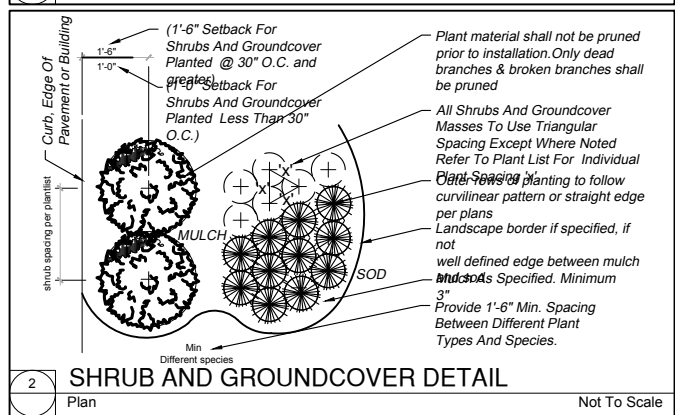
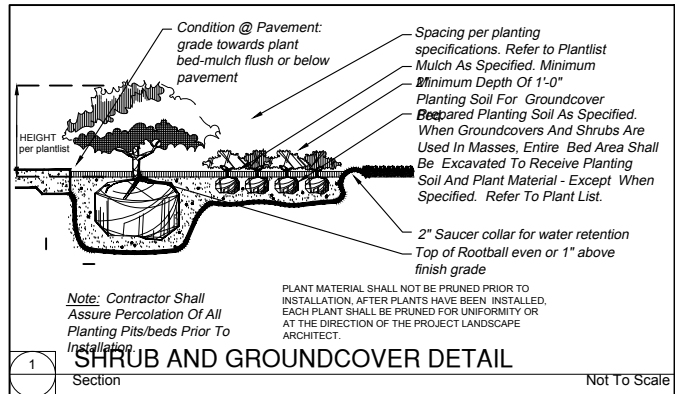


FLOOR PLAN

1 GREEN WALL PLAN VIEW
SCALE: N.T.S.



info@landstonedesign.com | www.landstonedesign.com TEL. 818-856-9556
LANDSCAPE PROJECT MANAGER: FAVIO PEREZ / 305-778-7136



GENERAL PLANTING REQUIREMENTS

THE PLAN TAKES PRECEDENCE OVER THE PLANT LIST.

2 FULL BUSINESS DAYS BEFORE DIGGING, CALL TOLL FREE 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC. NOTIFICATION CENTER. CONTRACTORS ARE RESPONSIBLE FOR COORDINATING WITH THE OWNERS AND APPROPRIATE PUBLIC AGENCIES TO ASSIST IN LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

GENERAL SITE AND BERM GRADING TO +/- 1 INCH (1") SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. ALL FINISHED SITE GRADING AND ANY FINAL DECORATIVE BERM SHAPING SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR.

ALL SIZES 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 EFFECT AS NOTED ON THE PLAN(S) WILL ALSO BE REQUIRED FOR FINAL ACCEPTANCE.

ALL PLANT MATERIAL FURNISHED BY THE LANDSCAPE CONTRACTOR SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY GRADES AND STANDARDS FOR FLORIDA NURSERY TREES AND PLANTS.

ALL TREES DESIGNATED AS SINGLE TRUNK SHALL HAVE A SINGLE, RELATIVELY STRAIGHT, DOMINANT LEADER, PROPER STRUCTURAL BRANCHING AND EVEN BRANCH DISTRIBUTION. TREES WITH BARK INCLUSION, TIPPED BRANCHES, AND CO-DOMINANT TRUNKS WILL NOT BE ACCEPTED. TREES WITH GIRDLING, CIRCLING AND/OR PLUNGING ROOTS WILL BE REJECTED.

ALL PLANTING BEDS SHALL BE FREE OF ALL ROCKS 1/2" OR LARGER, STICKS, AND OBJECTIONABLE MATERIAL INCLUDING WEEDS, WEED SEEDS. ALL LIMESTONE SHALL BE REMOVED/CLEANED DOWN TO THE NATIVE SOILS. PLANTING SOIL 50/50 SAND/TOPSOIL MIX SHALL BE DELIVERED TO THE SITE IN A CLEAN LOOSE AND FRIABLE CONDITION AND IS REQUIRED AROUND THE ROOT BALL OF ALL TREES AND PALMS, THE TOP 6" OF ALL SHRUBS AND GROUND COVER BEDS AND TOP 2" OF ALL SODDED AREAS. THIS SOIL SHALL BE TILLED INTO THE EXISTING SOIL AFTER THE EXISTING SOIL HAS BEEN CLEANED OF ALL ROCKS, LIMESTONE AND STICKS. RECYCLED COMPOST IS ENCOURAGED AS A SOIL AMENDMENT ALTERNATIVE. A MANDATORY INSPECTION OF THE PLANTING BEDS IS REQUIRED BEFORE PLANTING

ALL BURLAP, STRING, CORDS, WIRE BASKETS, PLASTIC OR METAL CONTAINERS SHALL BE REMOVED FROM THE ROOTBALLS BEFORE PLANTING. REMOVE ALL BAMBOO AND METAL NURSERY STAKES. REMOVE ALL TAGGING TAPE.

ALL TREES/PALMS SHALL BE PLANTED SO THE TOP OF THE ROOT BALL, ROOT FLAIR ARE SLIGHTLY ABOVE FINAL GRADE. SHRUB MATERIAL SHALL BE PLANTED SUCH THAT THE TOP OF THE PLANT BALL IS FLUSH WITH THE SURROUNDING GRADE. 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 TREES/PALMS SHALL BE STAKED USING BIODEGRADABLE MATERIAL. NO WIRE, BLACK STRAPPING, OR OTHER SYNTHETIC MATERIAL SHALL BE USED. NAILING INTO TREES AND PALMS FOR ANY REASON IS PROHIBITED AND THE MATERIAL WILL BE REJECTED. PLEASE REFER TO THE PLANTING DETAILS

ALL LANDSCAPE AND LAWN AREAS SHALL BE IRRIGATED BY A FULLY AUTOMATIC SPRINKLER SYSTEM WITH A MINIMUM 100% COVERAGE WITH ALL HEADS ADJUSTED TO 50% OVERLAP. EACH SYSTEM SHALL BE INSTALLED WITH AN OPERATIONAL RAIN SENSOR AND RUST INHIBITOR. EXISTING IRRIGATION SYSTEM (IF APPLICABLE) SHALL BE RETROFITTED TO COMPLY WITH THOSE SPECIFICATIONS AS OUTLINED ABOVE.

NO FERTILIZERS ARE REQUIRED.

ALL LANDSCAPE AREAS SHALL BE COVERED WITH A 1" COMPACTED LAYER OF PINE STRAW, THEN TOPPED WITH A 2" LAYER OF PINE BARK MULCH TO A MINIMUM DEPTH OF THREE INCHES (3") OF TOTAL COVER WHEN SETTLED. SPREAD MULCH TO 1" THICKNESS 3" AWAY FROM THE TRUNKS/STEMS OF ALL PLANT MATERIAL. ALL TREES IN SODDED AREAS SHALL HAVE A CLEAN CUT 4" DIAMETER MULCH RING. THE 5-6" HEIGHT WATER RING SHALL BE MADE FROM MULCH, NOT SOIL. CERTAIN AREAS MAY RECEIVE A THICKER MULCH COVER WHERE NOTED ON PLANS. CYPRESS, RED, GOLD AND GREEN MULCH IS PROHIBITED.

ALL OPEN AREAS NOT COVERED BY TREES, PALMS, SHRUBS, VINES OR GROUND COVERS SHALL RECEIVE STENOTAPHRUM SECUNDATUM, ST. AUGUSTINE 'PALMETTO' SOD, WHETHER LABELED ON THE PLANS OR NOT, UNLESS A DIFFERENT SPECIES IS INDICATED ON THE PLANTING PLAN. ALL NOTED S.F. SHALL BE APPROXIMATE; IT IS THE CONTRACTOR'S RESPONSIBILITY TO DO HIS OR HER TAKE OFF AND SOD ALL OPEN AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE IN THE BID, THE REPAIR OF ANY EXISTING SOD WHICH MAY BE DAMAGED DURING CONSTRUCTION.

PLEASE REFER TO THE PLANTING DETAILS FOR A GRAPHIC REPRESENTATION OF THE ABOVE NOTES.

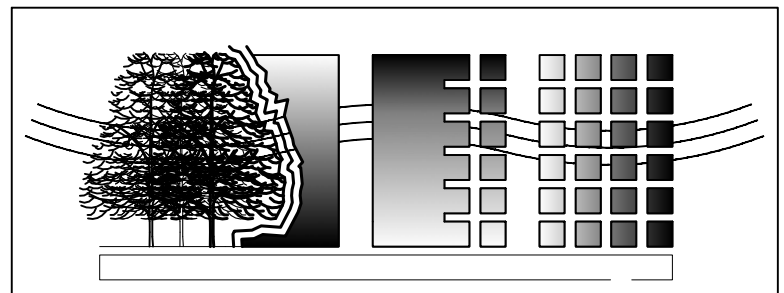
ALL PLANT MATERIAL AS INCLUDED HEREIN SHALL BE WARRANTED BY THE LANDSCAPE CONTRACTOR FOR A MINIMUM PERIOD AS FOLLOWS: ALL TREES AND PALMS FOR 12 MONTHS, ALL SHRUBS, VINES, GROUNDCOVERS AND MISCELLANEOUS PLANTING MATERIALS FOR 90 DAYS, AND ALL LAWN AREAS FOR 60 DAYS AFTER FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE.

FAILURE TO COMPLY WITH ANY OF THE ABOVE WILL RESULT IN LANDSCAPE REMOVAL

EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS. SUPERVISION OF THE TRIMMING SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST TO INSURE QUALITY WORK. ALL EXISTING TREES SHALL BE "LIFTED AND THINNED" TO PROVIDE AN 8" MINIMUM CLEARANCE FOR SIDEWALKS AND PEDESTRIAN WALKWAYS AND A 14" MINIMUM CLEARANCE FOR ROADWAYS, DRIVEWAYS AND ALL VEHICULAR USE AREAS.

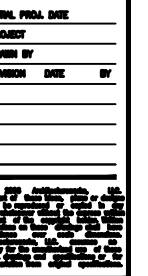
ALL PLANT MATERIAL WAS CONFIRMED AVAILABLE AT THE TIME OF DESIGN. NO CHANGES ARE AUTHORIZED UNLESS APPROVED BY LANDSCAPE ARCHITECT.

PRUNNING SHALL BE PER ANSI-300 STANDARDS



info@landstonedesign.com | www.landstonedesign.com TEL. 818-856-9556
LANDSCAPE PROJECT MANAGER: FAVIO PEREZ / 305-778-7136

PLANTING DETAILS SCALE: N.T.S.

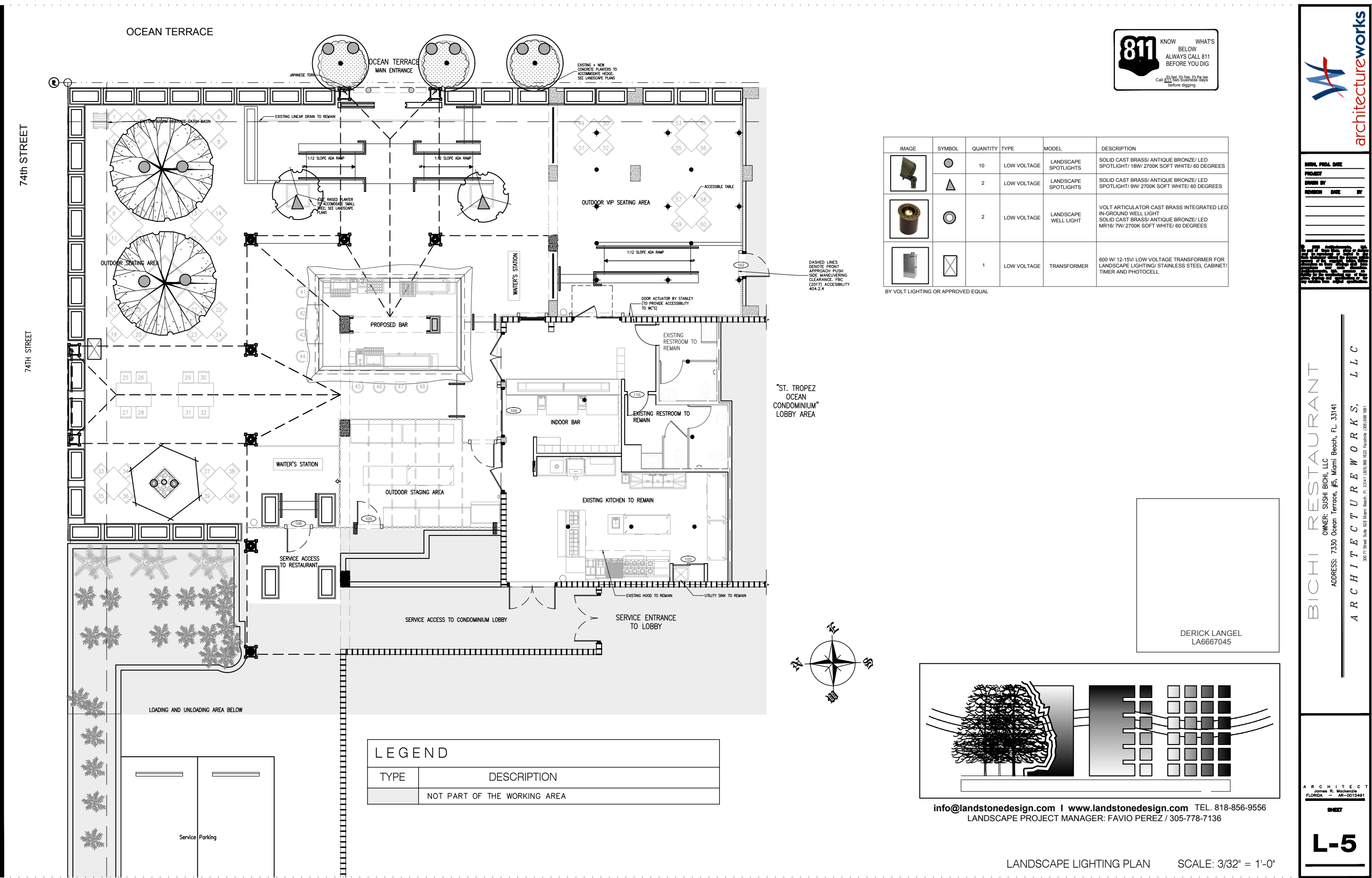


BICHI RESTAURANT
OWNER: SUSHI BICHI, LLC
ADDRESS: 7330 Ocean Terrace, #5, Miami Beach, FL 33141
ARCHITECTUREWORKS, LLC
30071 Street Suite 503 Miami Beach, FL 33141 (305) 986 1622 Resumé (305) 689 1881

ARCHITECT
James R. Mockenzie
FLORIDA - AR-0015491

SHEET

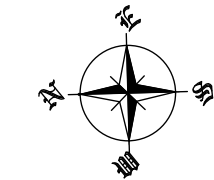
L-4



811 KNOW WHAT'S BELOW
ALWAYS CALL 811 BEFORE YOU DIG
It's free. It's fast. It's the law.
Call 811 two business days before digging.

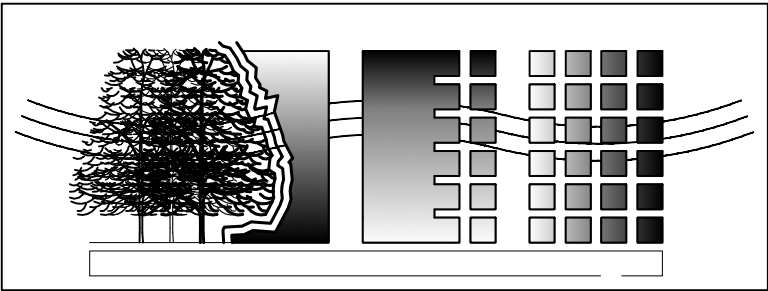
IMAGE	SYMBOL	QUANTITY	TYPE	MODEL	DESCRIPTION
		10	LOW VOLTAGE	LANDSCAPE SPOTLIGHTS	SOLID CAST BRASS/ ANTIQUE BRONZE/ LED SPOTLIGHT/ 18W/ 2700K SOFT WHITE/ 60 DEGREES
		2	LOW VOLTAGE	LANDSCAPE SPOTLIGHTS	SOLID CAST BRASS/ ANTIQUE BRONZE/ LED SPOTLIGHT/ 9W/ 2700K SOFT WHITE/ 60 DEGREES
		2	LOW VOLTAGE	LANDSCAPE WELL LIGHT	VOLT ARTICULATOR CAST BRASS INTEGRATED LED IN-GROUND WELL LIGHT SOLID CAST BRASS/ ANTIQUE BRONZE/ LED MR16/ 7W/ 2700K SOFT WHITE/ 60 DEGREES
		1	LOW VOLTAGE	TRANSFORMER	600 W/ 12-15V/ LOW VOLTAGE TRANSFORMER FOR LANDSCAPE LIGHTING/ STAINLESS STEEL CABINET/ TIMER AND PHOTOCELL

BY VOLT LIGHTING OR APPROVED EQUAL



LEGEND	
TYPE	DESCRIPTION
	NOT PART OF THE WORKING AREA

DERICK LANGEL
LA6667045



info@landstonedesign.com | www.landstonedesign.com TEL. 818-856-9556
LANDSCAPE PROJECT MANAGER: FAVIO PEREZ / 305-778-7136

LANDSCAPE LIGHTING PLAN SCALE: 3/32" = 1'-0"



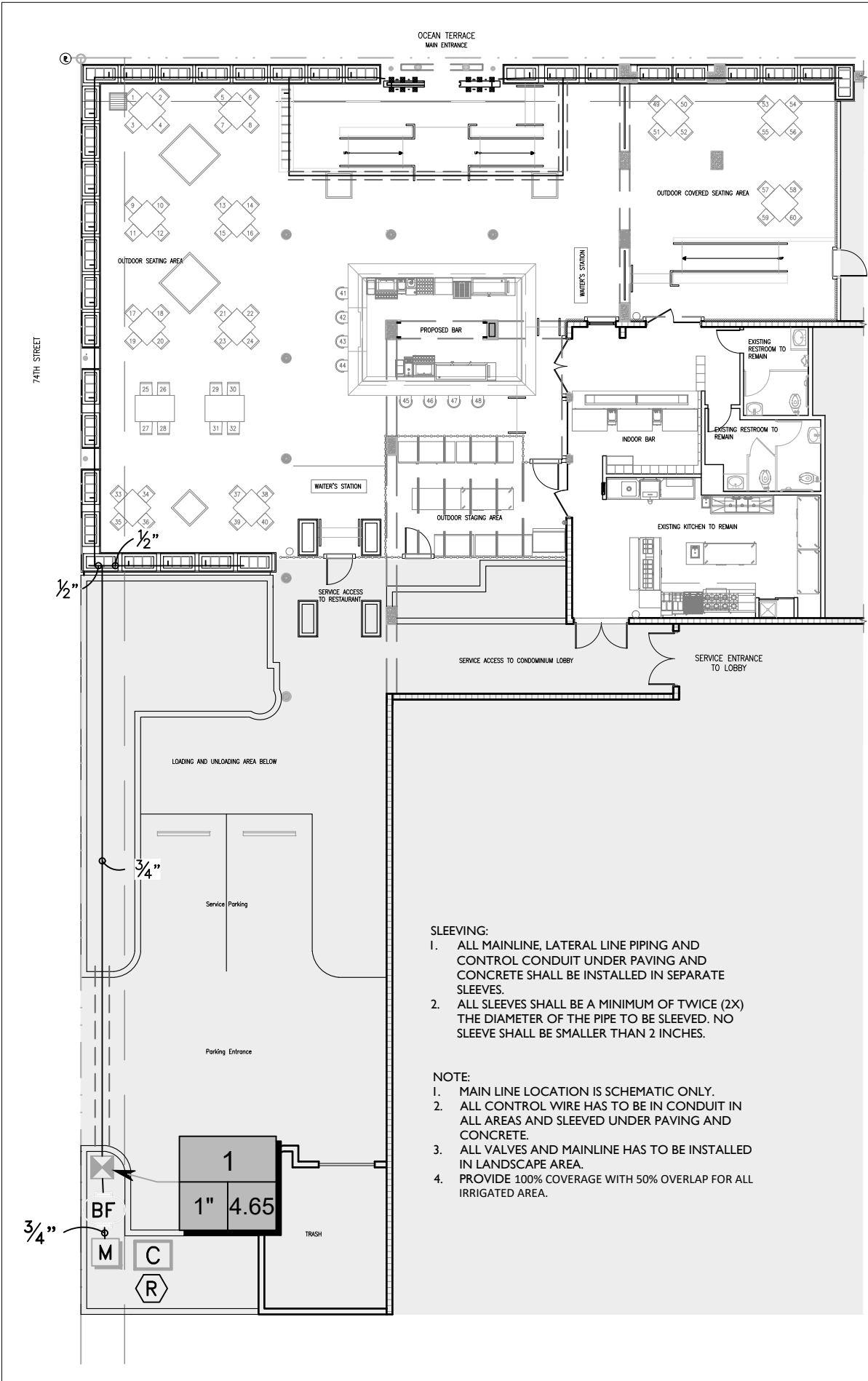
REVISION TABLE

NO.	DATE	BY

BICHI RESTAURANT
OWNER: SUSHI BICHI, LLC
ADDRESS: 7330 Ocean Terrace, #5, Miami Beach, FL 33141
ARCHITECTUREWORKS, LLC
30071 Street, Suite 500 Miami Beach, FL 33141 (305) 986 1022 Resumes: (305) 986 1081

ARCHITECT
James R. Mackenzie
FLORIDA — AR-0015491

L-5



- SLEEVING:**
1. ALL MAINLINE, LATERAL LINE PIPING AND CONTROL CONDUIT UNDER PAVING AND CONCRETE SHALL BE INSTALLED IN SEPARATE SLEEVES.
 2. ALL SLEEVES SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. NO SLEEVE SHALL BE SMALLER THAN 2 INCHES.

- NOTE:**
1. MAIN LINE LOCATION IS SCHEMATIC ONLY.
 2. ALL CONTROL WIRE HAS TO BE IN CONDUIT IN ALL AREAS AND SLEEVED UNDER PAVING AND CONCRETE.
 3. ALL VALVES AND MAINLINE HAS TO BE INSTALLED IN LANDSCAPE AREA.
 4. PROVIDE 100% COVERAGE WITH 50% OVERLAP FOR ALL IRRIGATED AREA.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
1401 1402 1404 1408	1/2" Pipe for Dripbags on green wall. 1401	12
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
☒	Rain Bird XCZ-100-PRB-COM Wide Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. 0.3gpm to 20gpm.	1
▨	Area to Receive Dripline Rain Bird XFS-06-12 (12) XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology. 0.6GPH emitters at 12.0" O.C. Laterals spaced at 12.0" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	154.0 s.f.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
BF	Watts U009 3/4" Reduced Pressure Backflow Preventer	1
C	Rain Bird TBOS2-CM4 and TBOS2-FTUS Battery-Operated Controller available in 4 models: 1, 2, 4, and 6. 4 stations, with TBOS2-FTUS field transmitter.	1
R	Rain Bird RSD-CEX Rain Sensing Device, conduit mount. With threaded adapter, extension wire.	1
M	Water Meter 3/4" PROPOSED SUB-METER	1
---	Irrigation Lateral Line: PVC Class 160 SDR 26	300.8 l.f.
---	Irrigation Mainline: PVC Schedule 40	9.7 l.f.
---	Pipe Sleeve: PVC Schedule 40	62.3 l.f.
☐	Valve Callout	
#	Valve Number	
→	Valve Flow	
○	Valve Size	

VALVE SCHEDULE	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
I	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	4.65	27.34	38.48	1.03 in/h

WATERING SCHEDULE	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
I	Rain Bird XCZ-100-PRB-COM	Area for Dripline	1.03 in/h	1	59	274.2	91.4
		TOTALS:			59	274.2	91.4

CONTRACTOR MUST COMPLY WITH FLORIDA BUILDING CODE AMENDED APPENDIX F:
NO PRODUCT SUBSTITUTIONS OR CHANGES WILL BE ALLOWED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER AND THE IRRIGATION CONSULTANT.

GENERAL NOTES

1. All mainline, lateral line and control wire conduit under paving shall be installed in separate sleeves. Sleeves shall be a minimum of twice (2X) the diameter of the pipe to be sleeved.
2. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.
3. Install all backflow prevention devices and all piping between the point of connection and the backflow preventer as per local codes.
4. Final location of the backflow preventer and automatic controller shall be approved by the owner's authorized representative.
5. 120 VAC electrical power source at controller location shall be provided by others. The electrical contractor shall make the final connection from the electrical source to the controller.
6. All sprinkler heads shall be set perpendicular to finish grade unless otherwise specified.
7. The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum spray with minimal overspray onto walks, streets, walls, etc.
8. This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas wherever possible. The contractor shall locate all valves in shrub areas where possible.
9. It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of walls, retaining walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.
10. Do not willingly install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. such obstructions or differences should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
11. All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
12. The irrigation contractor shall install check valves on all heads in areas where finish grade exceeds 4:1, where post valve shut-off draining, of the irrigation head occurs or as directed by the owner's authorized representative.
13. The contractor shall provide 1800 PCS (pressure compensating screens) as necessary to reduce or eliminate overspray onto streets, walks or other areas as directed by the owner's authorized representative.
14. All remote control valves, gate valves, quick couplers, control wire and computer cable pull points shall be installed in approved valves boxes with covers. All shall be marked indicating controller and station numbers for control valve boxes and/or titled in the equipment legend with 1" white heat braided letters.
15. All control wires shall be installed in PVC conduit, min #14 AWG.
16. Installer is required to conduct final testing and adjustment to achieve design specification prior to completion of the system and acceptance by the owner or owner's representative.
17. Contractor to provide owner with post construction documentation, including as-built drawings, recommended maintenance schedules and activities, operational schedule, design precipitation rates, system adjusting methods for decreasing water once landscape is established, water source and shutoff method and all operational guides for controller.
18. A map of the system shall be kept in a readily available location with details for operation.
19. If the water supply for irrigation system is a well water, a constant pressure flow control device of pressure tank is required to minimize pump "cycling".
20. Check valves must be installed at irrigation heads as needed to prevent low head drainage and puddling.
21. Nozzle precipitation rates for all heads within each valve circuit must be matched to within 20% of one another.

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



CONSULTING GABLES INC.
C.A. No. 28232
4437 W FLAGLER ST SUITE #8
CORAL GABLES, FL. 33134
V: (786) 220-0083 F: (866) 326-7843
services@consultinggables.com

SHEET DESCRIPTION:
IRRIGATION PLAN
HEAD LAYOUT

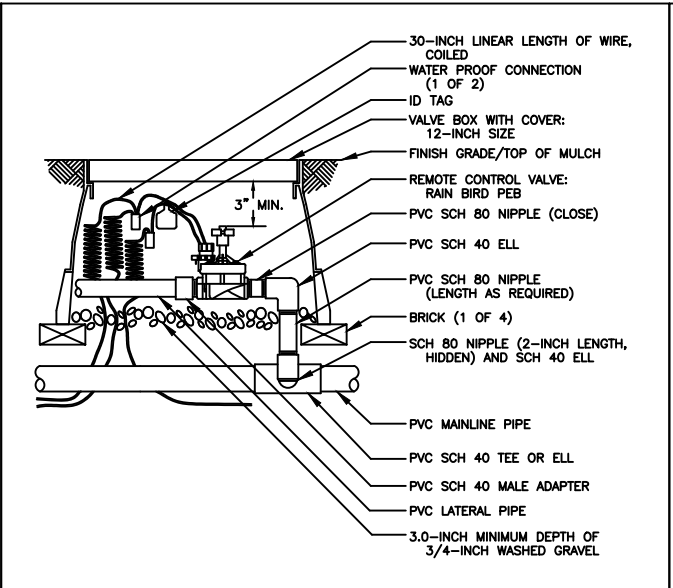
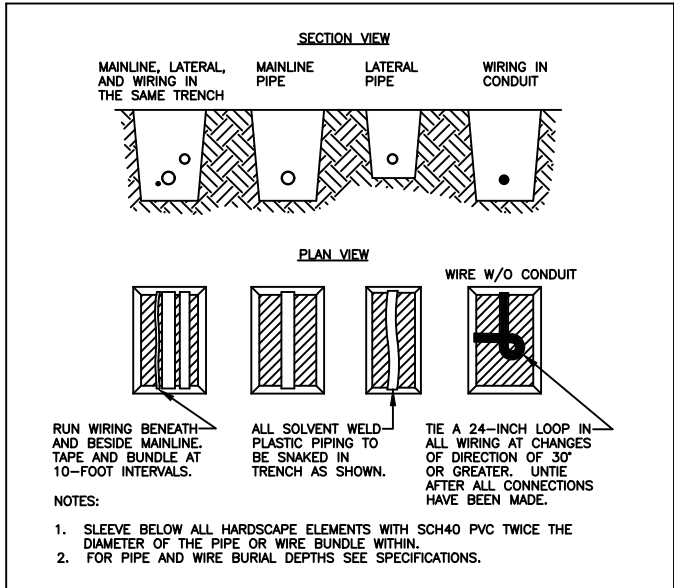
SEAL:

Damian Gonzalez PE.
PH: (305) 726-5669
P.E. No. 63910

PROJECT: BICHI RESTAURANT
7330 OCEAN TERRACE, #5
MIAMI BEACH, FL 33141

REVISIONS:

DATE: 11/08/2019
DRAWN BY: Damian Gonzalez PE.
CHECKED BY:
SCALE: SCALED AS SHOWN
SHEET: IP - 1



Depth of coverage per Florida Building Code amended appendix F

FOR NONTRAFFIC AND NONCULTIVATED AREAS:

Pipe Diameter	Minimum depth of Cover
1/2" through 1 1/4"	6" - 12"
1 1/2" through 2"	12" - 18"
2 1/2" through 3"	18" - 24"
6" and larger	24" - 36"

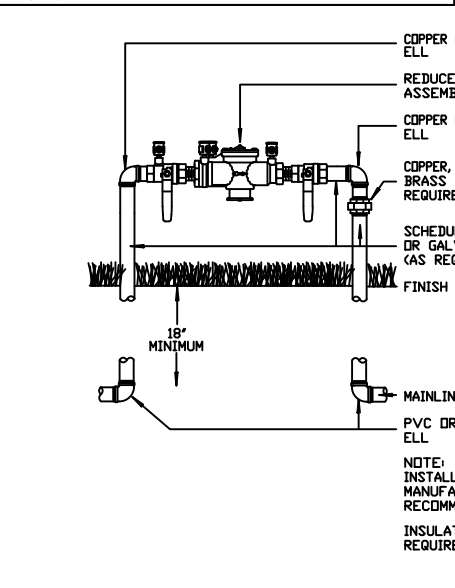
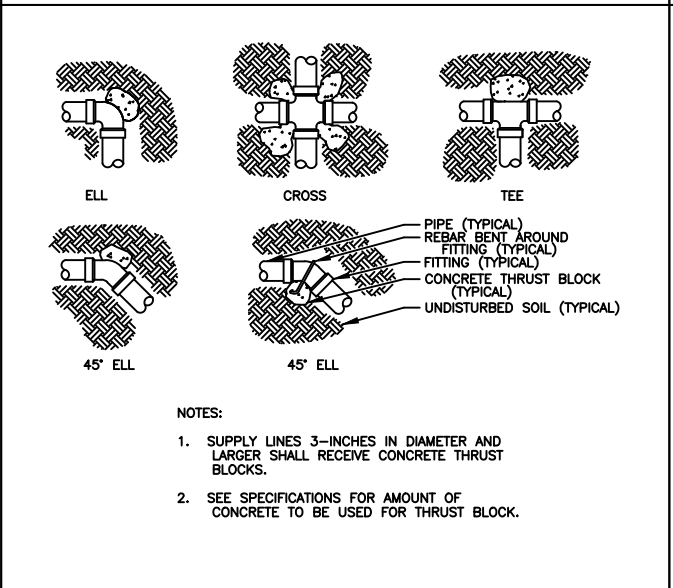
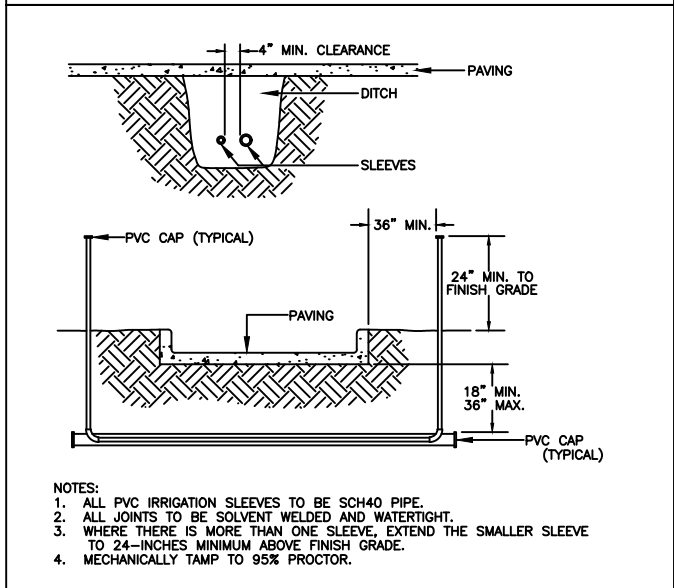
FOR VEHICLE TRAFFIC AREAS:

Pipe Diameter	Minimum depth of Cover
1/2" through 2 1/2"	18" - 24"
3" through 5"	24" - 30"
6" and larger	30" - 36"

(4) PIPE & WIRE TRENCHING

(3) REMOTE CONTROL VALVE

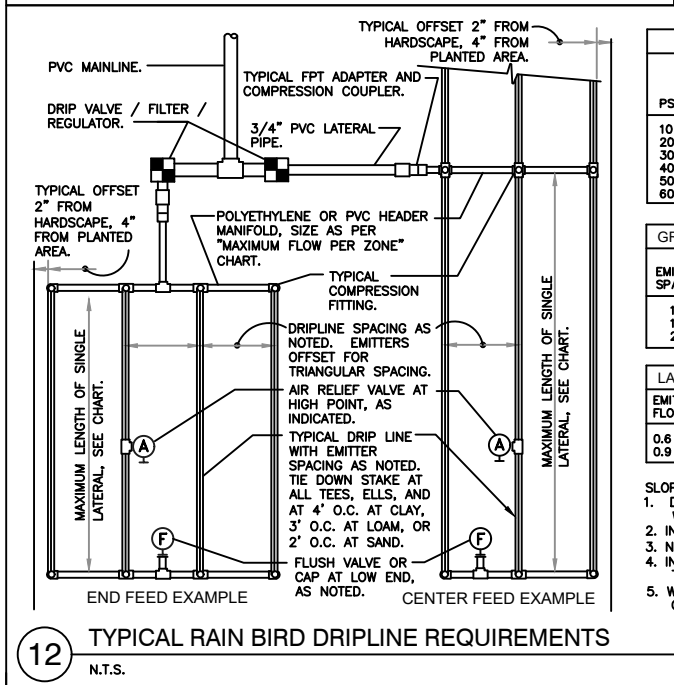
(7) DEPTH OF COVERAGE



(8) SLEEVING

(9) THRUST BLOCKS

(10) BACKFLOW BRP



MAXIMUM LATERAL LENGTH (FEET)

EMITTER FLOW RATE GPH

12" SPACING	18" SPACING	24" SPACING
0.6 0.9	0.6 0.9	0.6 0.9
125 96	175 135	218 171
249 191	350 271	442 340
307 236	434 333	550 422
350 268	495 380	627 471
125 96	175 135	218 171
125 96	175 135	218 171

GRID PRECIPITATION RATES (IN/HR)

EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
		0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	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	1.5 GPM	1.0 GPM	0.75 GPM	0.50 GPM	0.33 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM	1.0 GPM	0.67 GPM	0.50 GPM	0.33 GPM	0.22 GPM	

SLOPED CONDITION NOTE:

1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE

WHENEVER POSSIBLE.

2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.

3. NORMAL SPACING WITHIN THE TOP 1/3 OF SLOPE.

4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.

5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.

PVC SCH 40 TEE OR ELL
PVC MANIFOLD LINE.

EASY FIT COMPRESSION
ADAPTER.

EASY FIT COMPRESSION
COUPLING: RAIN BIRD MDCFCOUP.

LANDSCAPE
DRIPLINE TUBING.

MAXIMUM FLOW PER ZONE

SCHEDULE 40 PVC HEADER SIZE	MAX GPM	PSI LOSS
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.8 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI

POLY PIPE HEADER SIZE

SCHEDULE 40 PVC HEADER SIZE	MAX GPM	PSI LOSS
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

DOGBONE SHAPED

CORNER SHAPED

CURVED POLYGON

HOURGLASS SHAPED

POLYGON SHAPED

"C" SHAPED

ODD SHAPED

12 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS
N.T.S.

DETAIL-FIELD

DETAIL-FIELD