SCOPE OF WORK

THE FOLLOWING DRAWINGS ILLUSTRATE THE PROPOSED SCOPE OF WORK FOR **2740 N BAY ROAD, MIAMI BEACH, FL 33140**

- NEW HARDSCAPE AND LANDSCAPE DESIGN

DRAWING REVISION REGISTER

REV#	SHEET #	REVISION DESCRIPTION

08/07/2023 **BOARD 1st SUBMITTAL**

SHEET INDEX

LOCATION MAP

NORTH

KODA
7500 NE 4th Ct., Suite 100 | Miami, FL 33138
info@kodamiami.com
305.359.3669

BAY HOUSE
2740 N Bay Road, Miami Beach, FL 33140
HISTORIC PRESERVATION BOARD FIRST SUBMITTAL
NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT MARSH C. KRIPLEN LA 6667007 STATE OF FLORIDA

Digitally signed by marsh c kriplen
Date: 2023.08.17 11:29:38 -04'00'

LAND
7294 NW 1st COURT
MIAMI FL, 33150
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08 / 07 / 2023

Project # 22005

COVER & SHEET INDEX

LCVR

SITEWORK GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK BY THE SUBCONTRACTORS.

2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AT JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR OF DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING ANY WORK.

3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. ALL CONTRACTORS MUST COMPLY WITH PERMIT REQUIREMENTS, LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES RULES AND REGULATIONS AND LAND USE APPROVAL CONDITIONS AT ALL TIMES.

4. WORK PERFORMED WITHOUT APPROVAL OF LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES AND/OR NOT IN COMPLIANCE WITH SPECIFICATIONS AND/OR DRAWINGS IS SUBJECT TO REMOVAL AT CONTRACTOR'S EXPENSE.

5. ALL WORK SHALL CONFORM TO THE APPROPRIATE AGENCIES. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, LINES AND STRUCTURES PRIOR TO EXCAVATION OR TRENCHING. DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS AND ELECTRICAL LINES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL LAND MONUMENTS DISRUPTED BY CONSTRUCTION ACTIVITIES OR NEGLIGENCE ON THE PART OF THE CONTRACTOR. RESETS SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR AND MONUMENT RECORDS MUST BE FILED AS REQUIRED BY STATUTE FOR ALL MONUMENTS.

7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS AND STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

8. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS. PROVIDE ADEQUATE TIME FOR REVIEW AND APPROVAL BY THE ABOVE JURISDICTIONS PRIOR TO COMMENCEMENT.

9. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES UTILIZED OR FOR SAFETY PRECAUTIONS OR PROBLEMS IN CONNECTION WITH THE WORK. THE LANDSCAPE ARCHITECT WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACT DOCUMENTS INCLUDE THE CONSTRUCTION DOCUMENT DRAWING SET/TECHNICAL SPECIFICATIONS MANUAL/LASIS.

10. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.

11. A SYSTEM OF DIAGRAMMATIC SYMBOLS, HATCHES AND NOTATIONS IS USED IN THESE DRAWINGS. REVIEW NOTATIONS CAREFULLY, NOTIFY LANDSCAPE ARCHITECT AND REQUEST CLARIFICATION OF ANY UNCLEAR NOTATION OR DISCREPANCY PRIOR TO COMMENCING WORK.

SITEWORK GENERAL NOTES CONTINUED

1. PROVIDE SLEEVES AS REQUIRED FOR DRAINAGE, IRRIGATION AND ELECTRICAL LINES. IRRIGATION AND ELECTRICAL SLEEVES AND SUBSURFACE DRAINAGE SYSTEMS SHALL BE CONSTRUCTED PRIOR TO PAVING AND LANDSCAPE WORK. UTILITY SLEEVES ARE REQUIRED IN ALL PLANT BEDS ISOLATED BY PAVEMENT OR ANY OTHER STRUCTURES.

2. SPECIAL CONSIDERATION IS GIVEN TO THE DESIGN AND INTENDED RELATIONSHIP BETWEEN ARCHITECTURE, PLANTING AREAS AND PAVING SYSTEMS. PAVEMENT JOINTING, PAVERS, STONE, FINISHES AND GRADES HAVE BEEN STRICTLY COORDINATED IN THE CONTRACT DOCUMENTS. CONSTRUCTION OF THESE SYSTEMS SHALL BE STRICTLY COORDINATED.

3. VEHICLES, EQUIPMENT, AND/OR MATERIALS SHALL NOT BE PARKED OR STORED IN AREAS OF EXISTING VEGETATION, INCLUDING WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN.

4. CONSTRUCTION WASTE-INCLUDING BUT NOT LIMITED TO: PLANT MATERIAL, BUILDING MATERIALS, DEMOLISHED MATERIALS, PACKAGING, LEFTOVER PAINT AND CONCRETE SLURRY-SHOULD BE PROPERLY REUSED, RECYCLED, DISPOSED OF LEGALLY OFF-SITE OR IN DESIGNATED WASH-OUT AREAS DETERMINED BY THE GENERAL CONTRACTOR.

5. RECYCLING AND TRASH BINS TO BE PROVIDED ON SITE. SEPARATE BINS FOR CARDBOARD, CO-MINGLED, AND OTHER RECYCLABLE/REUSABLE MATERIALS IDENTIFIED BY THE LOCAL JURISDICTION SHALL BE MAINTAINED. ALL BINS TO BE WILDLIFE-PROOF.

6. ON-SITE FUEL STORAGE FOR CONSTRUCTION EQUIPMENT IS DISCOURAGED. CONSTRUCTION EQUIPMENT USED ON SITE TO BE CHECKED REGULARLY TO ASSURE CONTAMINATION CONCERNS FROM OILS AND GREASES ARE ELIMINATED. NO TOXIC MATERIALS SHALL BE STORED ON-SITE.

7. GENERAL CONTRACTOR TO KEEP ALL ITEMS IMPLEMENTED BY LANDSCAPE ARCHITECT IN PROPER WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.

8. THE CONSTRUCTION SITE TO BE INSPECTED ON A MONTHLY BASIS BY LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER TO ASSURE THAT THE SILT FENCE AND MUD TRACKING PAD ARE PROPERLY IN PLACE AND FUNCTIONING AS DESIGNED.

9. GREEN BUILDING PRACTICES SHALL BE EMPLOYED TO THE EXTENT FEASIBLE. SUCH PRACTICES INCLUDE: CARPOOLING/VANPOOLING TO JOB SITE, MINIMIZING MATERIALS PACKING BEFORE ARRIVAL TO JOB SITE, REDUCING MATERIAL/RESOURCE INEFFICIENCIES BY COORDINATING WORK.

10. THE PROJECT LIMIT OF CONSTRUCTION AND ALL EXISTING VEGETATION TO REMAIN IS TO BE CLEARLY DEFINED BY STURDY, WEATHERPROOF FENCING AT A MINIMUM OF FOUR (4) FEET HIGH.

11. WATERPROOFING OF SUBGRADE AND OTHER ARCHITECTURAL SPACES BELOW AND/OR ADJACENT TO IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT IS TO BE ADEQUATELY DESIGNED AND DETAILED BY OTHERS TO PERMANENTLY REPEL ALL WATER SOURCES INCLUDING, BUT NOT LIMITED TO: PRECIPITATION, STORM WATER RUNOFF, GROUND WATER, IRRIGATION, ROOF RUNOFF, GROUND WATER, AND PLUMBING LEAKS.

12. STRUCTURAL DESIGN TO SUPPORT IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT AND LOCATED ABOVE, BELOW, AND/OR ADJACENT TO SUBGRADE AND OTHER ARCHITECTURAL SPACES IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER. THE STRUCTURAL DESIGN SHOULD BE ADEQUATELY DESIGNED TO SUPPORT ALL POSSIBLE LOADS INCLUDING, BUT NOT LIMITED TO: BACKFILL, COMPACTION, PLANTINGS, HARDSCAPES, RETAINING AND FREESTANDING SITE WALLS, AND CONSTRUCTION MATERIALS/EQUIPMENT/ACTIVITY.

SOIL EROSION CONTROL NOTES

1. PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SESC MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED BY ANY GOVERNING AGENCIES.

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2. ALL SESC MEASURES TO BE MAINTAINED DAILY.

3. THE CONTRACTOR TO CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER IS NOT DISCHARGED INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.

4. WATER FROM TRENCHES AND OTHER EXCAVATION TO BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER.

5. NORTH AMERICAN GREEN SC-150 OR EQUIVALENT EROSION CONTROL FABRIC IS REQUIRED ON ALL DISTURBED SLOPES GREATER THAN 3:1 UNTIL PROJECT AREA IS REVEGETATED PER THE PLANTING PLAN.

6. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.

7. CONTRACTOR TO PROVIDE ONSITE WATERING TO REDUCE FUGITIVE DUST LEAVING THE SITE DURING CONSTRUCTION.

8. SOIL EROSION CONTROL MEASURES TO BE PROVIDED FOR ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS.

9. CONSTRUCTION STAGING AND PHASING SHALL OCCUR, WHERE APPLICABLE, TO MINIMIZE SOIL DISTURBANCE TIME.

10. BEST MANAGEMENT PRACTICES (BMPs) SHALL BE ADJUSTED AS NEEDED TO MEET ANY OTHER UNFORESEEN CONDITIONS.

11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING A MUD TRACKING PAD/WASHING PAD AT THE CONSTRUCTION ENTRANCES TO MINIMIZE MUD DETACHMENT FROM TRUCK TIRES. 1-1/2 INCH SCREENED ROCK TO BE PLACED ON MIRAFI 140-N FILTER FABRIC. ADDITIONAL CLEAN GRAVEL TO BE ADDED THROUGHOUT THE DURATION OF CONSTRUCTION AS NEEDED.

12. CONTRACTOR SHALL ABIDE BY THE LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES CONSTRUCTION MANAGEMENT PLAN REQUIREMENTS.

13. RESEED AS INDICATED IN SEEDING NOTES.

811 Know what's **below.** **Call** before you dig.

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Project # 22005

GENERAL SITE NOTES

L002

LEGEND

1. DRIVEWAY
2. PARKING
3. PEDESTRIAN ACCESS
4. PEDESTRIAN CIRCULATION
5. WATER FEATURE
6. LAWN AREA
7. POOL / SPA
8. POOL TERRACE
9. LANDSCAPE AREA

LOT 11
BLOCK 12

LOT 9
BLOCK 12

SUNSET LAKE

DOCK (BY OTHERS)

30'-0" R/W

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

REQUIRED INTERIOR SIDEYARD SETBACK 21'-4 3/4"
REQUIRED SUM OF SIDE YARD SETBACK
16'-6 3/4"
REQUIRED INTERIOR SIDE YARD SETBACK 20'-0"
25% ALLOWABLE PROJECTION 5'-0"
REQUIRED SUM OF SIDE YARD SETBACK
POOL REAR SETBACK
8'-1 3/4"
25% ALLOWABLE PROJECTION
32'-7 1/2"
REQUIRED REAR SETBACK
45'-4 3/4"
PROVIDED REAR SETBACK

5'-0"
25% ALLOWABLE PROJECTION
20'-0"
1ST FLOOR FRONT SETBACK
40'-0"
2ND FLOOR FRONT SETBACK

0 10 20 40
SCALE: 1:20

N

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Project # 22005

SITE PLAN

LPLN

TOTAL FRONT YARD AREA	3,386 SF	
FRONT YARD OPEN SPACE	1,645 SF	(49%)
HARDSCAPE	1,741 SF	(51%)

TOTAL REAR YARD AREA	3,114 SF	
REAR YARD OPEN SPACE	2,022 SF	(65%)
POOL AREA WITHIN REAR YARD	357 SF	(11%)
HARDSCAPE	735 SF	(24%)

LOT 11
BLOCK 12

30'-0" R/W

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

SUNSET LAKE

DOCK (BY OTHERS)

REQUIRED INTERIOR SIDEYARD SETBACK 16'-6 3/4"

REQUIRED SUM OF SIDE YARD SETBACK 21'-4 3/4"

REQUIRED SUM OF SIDE YARD SETBACK 20'-0"

REQUIRED INTERIOR SIDE YARD SETBACK 16'-6 3/4"

25% ALLOWABLE PROJECTION 5'-0"

POOL REAR SETBACK 7'-4"

25% ALLOWABLE PROJECTION 8'-1 3/4"

REQUIRED REAR SETBACK 32'-7 1/2"

PROVIDED REAR SETBACK 45'-4 3/4"

LOT 9
BLOCK 12

25% ALLOWABLE PROJECTION 5'-0"

1ST FLOOR FRONT SETBACK 20'-0"

2ND FLOOR FRONT SETBACK 40'-0"

N

0 10 20 40

SCALE: 1:20

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Project # 22005

FRONT + REAR YARD AREAS

L003

TOTAL LOT COVERAGE		26,168 SF	
	LANDSCAPE AREA	5,234 SF	(20%)
	LAWN AREA	2,133 SF	(8%)
	HARDSCAPE AREA	10,896 SF	(42%)
	BUILDINGS AREA	6,622 SF	(25%)
	POOL & WATER FEATURE AREA	1,283 SF	(5%)

LOT 11
BLOCK 12

30'-0" R/W

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

SUNSET LAKE

DOCK (BY OTHERS)

REQUIRED INTERIOR SIDEYARD SETBACK 16'-6 3/4"

REQUIRED SUM OF SIDE YARD SETBACK 21'-4 3/4"

REQUIRED SUM OF SIDE YARD SETBACK 20'-0"

25% ALLOWABLE PROJECTION 5'-0"

REQUIRED INTERIOR SIDE YARD SETBACK 16'-6 3/4"

7'-4"

POOL REAR SETBACK

25% ALLOWABLE PROJECTION 8'-1 3/4"

REQUIRED REAR SETBACK 32'-7 1/2"

PROVIDED REAR SETBACK 45'-4 3/4"

LOT 9
BLOCK 12

5'-0"
25% ALLOWABLE PROJECTION

20'-0"
1ST FLOOR FRONT SETBACK

40'-0"
2ND FLOOR FRONT SETBACK

N

0 10 20 40

SCALE: 1:20

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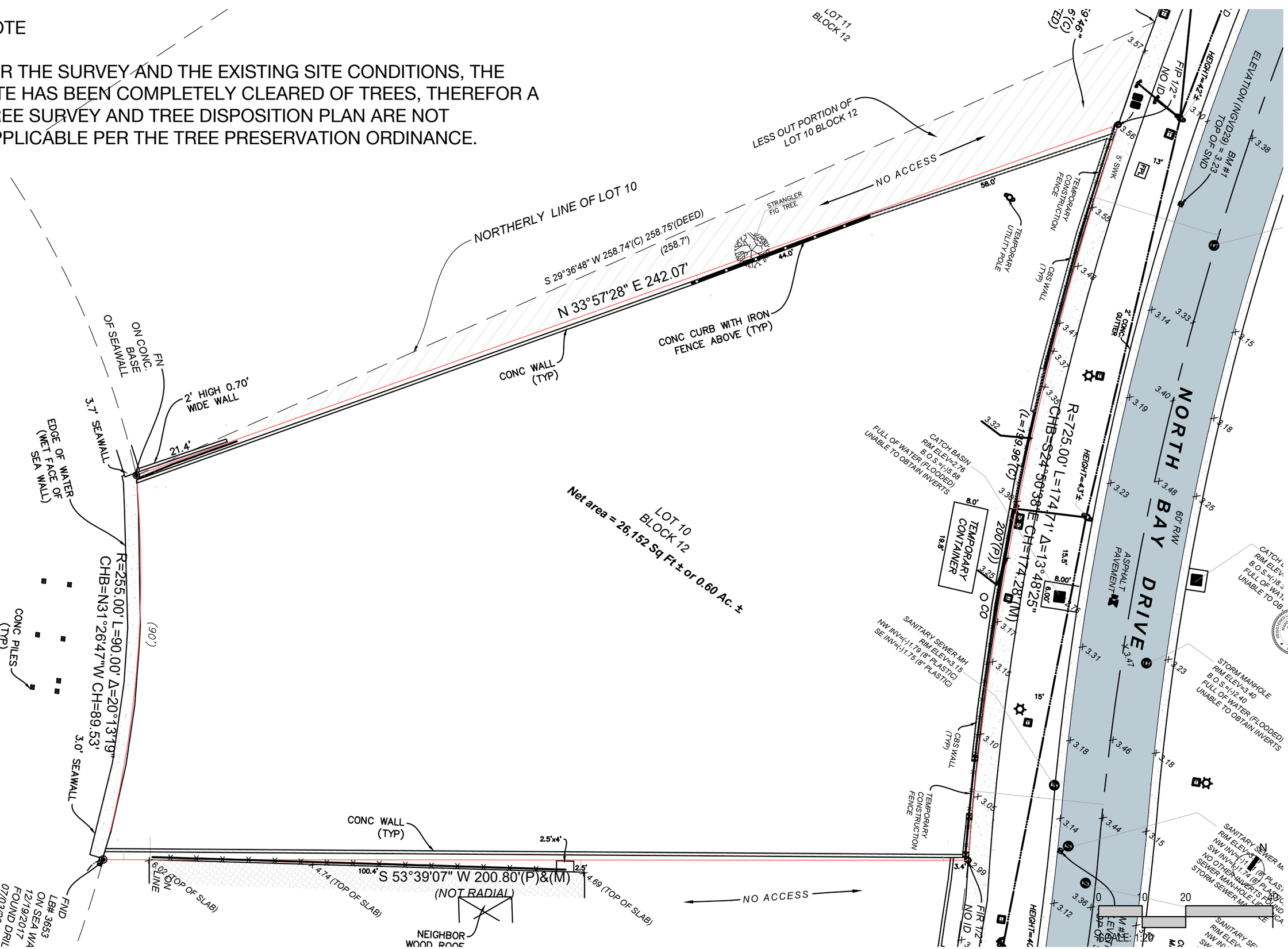
Project # 22005

OPEN SPACE DIAGRAM

L004

NOTE

PER THE SURVEY AND THE EXISTING SITE CONDITIONS, THE SITE HAS BEEN COMPLETELY CLEARED OF TREES, THEREFOR A TREE SURVEY AND TREE DISPOSITION PLAN ARE NOT APPLICABLE PER THE TREE PRESERVATION ORDINANCE.



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Project # 22005

TREE DISPOSITION PLAN

TD100

A

LIMESTONE PAVERS

COLOR:	NATURAL
LOCATION:	AS SHOWN ON PLAN
DIMENSIONS:	18" x 36" UNITS
SPECIFICATION:	FLAMED FINISH
SOURCE:	T.B.D.

B

CONCRETE WITH ROCK SALT FINISH

COLOR:	GREY
LOCATION:	MAIN DRIVEWAY
DIMENSIONS:	AS SHOWN ON PLAN
SPECIFICATION:	SMOOTH ROCK SALT FINISH
SOURCE:	T.B.D.

C

GRAVEL

MATERIAL:	GRAVEL
LOCATION:	DRIVEWAY
SPECIFICATION:	1/2" - 1"Ø
SOURCE:	BERNIE'S ROCK & GARDEN www.berniesrockandgarden.com 786.242.4443

D

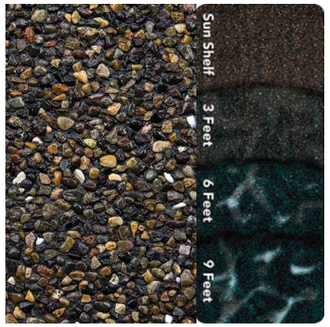
LADSCAPE EDGE

MATERIAL:	PRO-LINE LANDSCAPE EDGING
LOCATION:	LANDSCAPE AREAS
SPECIFICATION:	ALUMINUM 1/8" X 4" - BLACK
SOURCE:	PERMALOC WWW.PERMALOC.COM 800.356.9660

E

POOL & SPA TILES

MATERIAL:	PEEBLETEC - WHITE PEARL
LOCATION:	MAIN POOL
SPECIFICATION:	PER MANUFACTURER
SOURCE:	POOLTECH INC / PEEBLETEC® PHONE : (631) 694.4752 www.pooltech.net



F

WATER FEATURE TILES

MATERIAL:	PEEBLETEC - BLACK PEARL
LOCATION:	WATER FEATURE
SPECIFICATION:	PER MANUFACTURER
SOURCE:	POOLTECH INC / PEEBLETEC® PHONE : (631) 694.4752 www.pooltech.net

G

BROKEN CORAL STONE

MATERIAL:	CORAL STONE
LOCATION:	REFER TO L200
SPECIFICATION:	PER SUPPLIER
SOURCE:	TBD

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Project # 22005

MATERIALS SCHEDULE

L200

LEGEND

- MATERIAL A — LIMESTONE PAVERS
- MATERIAL B — CONCRETE ROCK SALT FINISH
- MATERIAL C — GRAVEL
- MATERIAL G — BROKEN CORAL STONE
- LAWN AREA
- POOL & WATER FEATURES
- LANDSCAPE AREA

LOT 11
BLOCK 12

LOT 9
BLOCK 12

SUNSET LAKE

DOCK (BY OTHERS)

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

42'-2" | 11'-9" | 17'-8" | 20'-9" | 17'-5"

38'-5" | 14'-0" | 8'-4" | 18'-6" | 31'-11"

30'-0" R/W

44'-8"

19'-5"

22'-11"

20'-7"

18'-0"

25'-10"

7'-4"

15'-4"

8'-5"

9'-7"

46'-3"

14'-0"

22'-6"

31'-0"

13'-1"

8'-11"

7'-3"

1.6' 6 3/4" REQUIRED INTERIOR SIDE YARD SETBACK

21'-4 3/4" REQUIRED SUM OF SIDE YARD SETBACK

20'-0" REQUIRED REAR YARD SETBACK

27'-0"

8'-3"

5'-0" 25% ALLOWABLE PROJECTION 16'-6 3/4"

REQUIRED SIDE YARD SETBACK 20'-0"

REQUIRED SUM OF SIDE YARD SETBACK

7'-4" POOL REAR SETBACK

8'-1 3/4" 25% ALLOWABLE PROJECTION

32'-7 1/2" 14'-4" REAR SETBACK

45'-4 3/4" PROVIDED REAR SETBACK

16'-8"

39'-4" | 30'-11" | 29'-2" | 51'-3"

5'-0" 25% ALLOWABLE PROJECTION

6'-0" 20' 13'-2" 1ST FLOOR FRONT SETBACK

40'-0" 2ND FLOOR FRONT SETBACK

20'-4"

58'-6"

15'-11"

4'-4"

0 | 10 | 20 | 40

SCALE: 1:20

N

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Project # 22005

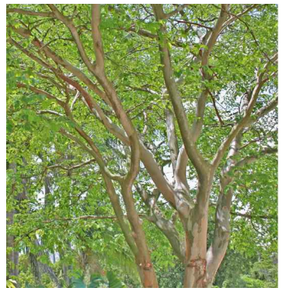
MATERIALS PLAN

L210

TREES & PALMS PLANTING SCHEDULE

ABR	QTTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
TREES				
CGR	9	CAESALPINA GRANADILLO	BRIDALVEIL	20' HT / 6" DBH
COE	6	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	16' HT / 4" DBH
COS	6	CONOCARPUS ERECTUS SERICEUS	SILVER BUTTONWOOD	12' HT / 4" DBH
CRO	3	CLUSIA ROSEA	AUTOGRAPH TREE	12' x 12' FG / MULTI TRUNK
CUD	3	COCOLOBA UVIFERA DIVERSIFOLIA	SEA PLUM	12' x 12' FG / MULTI TRUNK
CUV	3	COCOLOBA UVIFERA	SEA GRAPE	20' x 20' / MULTI TRUNK
PALMS				
AAL	3	ARCHONTOPHOENIX ALEXANDRAE	ALEXANDER PALM	FG 20'/25'/30' CT
EGU	7	ELAEIS GUINEENSIS	OIL PALM	25' OH
SPA	8	SABAL PALMETTO	SABAL PALM	FG 15'/20'/25' CT
VMO	6	VEITCHIA MONTGOMERYANA	MONTGOMERY PALM	FG 20'/25'/30' CT
HEDGES				
POE	35	PODOCARPUS ERECTUS	PODOCARPUS	12' HT
NATIVE UNDERSTORY TREES				
CWI	4	CANELLA WINTERANA	CINNAMON BARK	45 GAL / 3" DBH / 14' HT MIN
NUT	28	TBD	NATIVE UNDERSTORY TREE	12' HT / 4" DBH

PLANT IMAGES



CGR
CAESALPINA GRANADILLO
BRIDALVEIL

COE
CONOCARPUS ERECTUS
GREEN BUTTONWOOD

COS
CONOCARPUS ERECTUS SERICEUS
SILVER BUTTONWOOD

CRO
CLUSIA ROSEA
AUTOGRAPH TREE

CUD
COCOLOBA UVIFERA DIVERSIFOLIA
SEA PLUM

CUV
COCOLOBA UVIFERA
SEA GRAPE

AAL
ARCHONTOPHOENIX ALEXANDRAE
ALEXANDER PALM

EGU
ELAEIS GUINEENSIS
OIL PALM

SPA
SABAL PALMETTO
SABAL PALM

VMO
VEITCHIA MONTGOMERYANA
MONTGOMERY PALM

POE
PODOCARPUS ERECTUS
PODOCARPUS

CWI
CANELLA WINTERIANA
CINNAMON BARK

LANDSCAPE LEGEND

MUNICIPALITY: City of Miami Beach

ZONING CLASS: **RS-2** LOT AREA: 26,152 ACRES: 0.6004

ORDINANCE/CODE SECTION: CITY OF MIAMI BEACH SECTION 126

CODE REFERENCE			REQUIRED/ ALLOWED	PROVIDED	
	OPEN SPACE				
	A.	Sq. Ft. of required Open Space	7,846	7,509	
		Lot area: 26,152			
Sec. 126-6, c, Table A		Multiplier: 30%			
	B.	Sq. Ft. of parking lot open space	20	20	- MB Sec.
		Parking Spaces: 2			
		Multiplier: 10 sf/space			
	C.	Total Sq. Ft. of landscaped Open Space required	7,866	7,529	
	LAWN AREA				provided
	A.	Total Sq. Ft. of landscaped Open Space	7,866	7,529	37%
	B.	Maximum Lawn Area (sod) permitted-	1,573	2,821	
		Open space required: 7,866			
Sec. 126-6, c, Table A		Multiplier: 20%			
	TREES				
	A.	Number of trees required per lot, less existing trees	25	28	
		Required Trees/Lot: 5			
		Net lot acres: 0.6004			
		Required Trees: 20			
		Existing trees: 0			
	B.	% Palms allowed	0	0	
		Trees provided: 28			
		Multiplier: 0%			
	PER CODE SECTION 126-6.C.10 PALMS DO NOT COUNT TOWARD MIN. TREE REQUIREMENTS				
Sec. 126-6, c, 7	C.	% Native required	8	25	
		Trees provided: 28			
		Multiplier: 30%			
Sec. 126-6, c, 8	D.	% Drought tolerant and low maintenance species required	14	25	
		Trees provided: 28			
		Multiplier: 50%			
	STREET TREES				
	NO WORK IN THE ROW INCLUDED IN THIS SCOPE				
	A.	Street trees (maximum average spacing of 20' o.c.)	9	6	
		Linear ft of street frontage: 175			
Section 126-6, a, 1		Multiplier: 20			
		Existing trees: 0			
Section 126-6,3	B.	Street trees directly below power lines	0	0	
		Linear ft of street frontage: 20			
		Multiplier: 20			
	SHRUBS				
	A.	Number of shrubs required	264	264	
Sec. 126-6, d		Lot and street trees required: 34			
		Multiplier: 12			
Sec. 126-6, d	B.	% Native species required	132	132	
		Shrubs provided: 264			
		Multiplier: 50%			
	LARGE SHRUBS OR SMALL TREES				
	A.	Number of shrubs or small tree required	27	27	
		Shrubs required: 264			
		Multiplier: 10%			
	B.	% Native species required	14	14	
		Shrubs provided: 27			
		Multiplier: 50%			

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08 / 07 / 2023

Project # 22005

TREES & PALMS PLANTING SCHEDULE

L400

LEGEND

PROPOSED PALM

PROPOSED TREE

LOT 11
BLOCK 12

LOT 9
BLOCK 12

SUNSET LAKE

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

CUV 1
CUD 1
EGU 1
CRO 1
CUV 1
EGU 1
CUD 1
CUD 1
EGU 1
SPA 1
EGU 1
SPA 2
5 NUT
2 COE
2 CGR
1 SPA
3 VMO
7 NUT
3 AAL
CGR 3
NUT 2
1 NUT
3 COS
CWI 3
VMO 3
1 SPA
1 CUV
11 NUT
EGU 2
CUD 1
COS 3
NUT 3
1 EGU
3 SPA
35 POE
1 CRO
EGU 1
1 COE
1 CGR
1 CRO
1 COE
3 CGR
2 COE

REQUIRED INTERIOR SIDE YARD SETBACK 16'-6 3/4"
REQUIRED SUM OF SIDE YARD SETBACK 21'-4 3/4"
REQUIRED SUM OF SIDE YARD SETBACK
POOL REAR SETBACK
25% ALLOWABLE PROJECTION 5'-1 3/4"
32'-7 1/2"
REQUIRED REAR SETBACK
45'-4 3/4"
PROVIDED REAR SETBACK
5'-0"
25% ALLOWABLE PROJECTION
20'-0"
1ST FLOOR FRONT SETBACK
40'-0"
2ND FLOOR FRONT SETBACK

0 10 20 40
SCALE: 1:20

N

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TREES & PALMS PLANTING PLAN

L410

UNDERSTORY PLANTING SCHEDULE

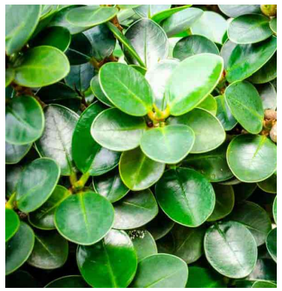
ABR	QTTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
SHRUBS & GROUNDCOVERS				
AD	193	ASPARAGUS DENSIFLORUS	FOXTAIL FERN	7 GAL / 18" O.C.
CI	72	CHRYSOBALANUS ICACO	COCOPLUM	7 GAL / 36" O.C.
FM	207	FICUS MACROCARPA	GREEN ISLAND FICUS	7 GAL / 24" O.C.
NF	59	NEPHROLEPIS FALCATA	MACHO FERN	7 GAL / 36" O.C.
PS	322	PHYMATOSORUS SCOLOPENDRIA	WART FERN	3 GAL / 24" O.C.
GRASSES				
TD	177	TRIPSACUM DACTYLOIDES	FAKAHATCHEE GRASS	3 GAL / 36" O.C.
ZJ	4014 SF	ZOYSIA JAPONICA	ZOYSIA GRASS	SOD

NOTE:
CONTRACTOR TO PROVIDE LANDSCAPE ARCHITECT WITH $ 10,000 WHOLESALE PLANT ALLOWANCE FOR INFILL PLANTS, ORCHIDS, AND ACCENTS

PLANT IMAGES

AD
ASPARAGUS DENSIFLORUS
FOXTAIL FERN

CI
CHRYSOBALANUS ICACO
COCOPLUM



FM
FICUS MACROCARPA
GREEN ISLAND FICUS

NF
NEPHROLEPIS FALCATA
MACHO FERN

PS
PHYMATOSORUS SCOLOPENDRIA
WART FERN

TD
TRIPSACUM DACTYLOIDES
FAKAHATCHEE GRASS

ZJ
ZOYSIA JAPONICA
ZOYSIA GRASS

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UNDERSTORY PLANTING SCHEDULE

L420

LEGEND

TYP #

PROPOSED SHRUB / GROUNDCOVER

PROPOSED LAWN AREA

LOT 11
BLOCK 12

LOT 9
BLOCK 12

SUNSET LAKE

DOCK BY OTHERS

2740 NORTH BAY ROAD
ASPHALT PAVEMENT 60' DEDICATED R/W

PS 191
ZJ 694
AD 114
NF 59
PS 31
FM 27
FM 50
PS 32
AD 24
CI 13
TD 59
ZJ 885
ZJ 135
TD 13
TD 24
ZJ 1134
TD 24
TD 24
ZJ 535
CI 4
PS 4
ZJ 578
PS 25
FM 130
CI 45
TD 26
AD 55
CI 10
TD 5
ZJ 53
PS 39

16'-6 3/4" REQUIRED INTERIOR SIDE YARD SETBACK
21'-4 3/4" REQUIRED SUM OF SIDE YARD SETBACK
5'-0" 25% ALLOWABLE PROJECTION
16'-6 3/4" REQUIRED INTERIOR SIDE YARD SETBACK
20'-0" REQUIRED SUM OF SIDE YARD SETBACK
POOL REAR SETBACK
5'-0" 25% ALLOWABLE PROJECTION
32'-7 1/2" REQUIRED REAR SETBACK
45'-4 3/4" PROVIDED REAR SETBACK
5'-0" 25% ALLOWABLE PROJECTION
20'-0" 1ST FLOOR FRONT SETBACK
40'-0" 2ND FLOOR FRONT SETBACK

0 10 20 40
SCALE: 1:20

N

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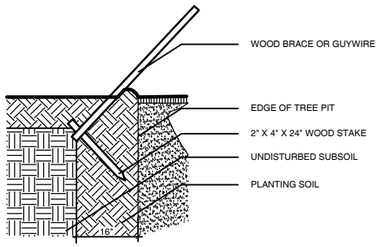
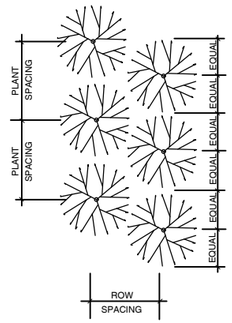
UNDERSTORY PLANTING PLAN

L430



TOP OF STAKE MUST BE MINIMUM OF 3" BELOW FINISHED GRADE

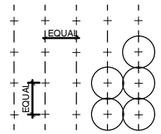
1 STAKING DETAIL
SCALE: NOT TO SCALE



PLANT SPACING	ROW SPACING
12"	10.4"
18"	15.6"
24"	20.8"
30"	26.0"
36"	31.2"
48"	41.6"
60"	52.0"

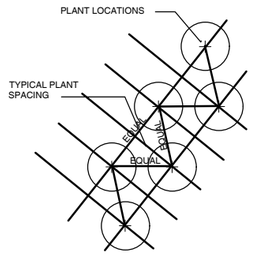
2 PLANT SPACING
SCALE: NOT TO SCALE

NOTE:
IN MOST CASES TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.

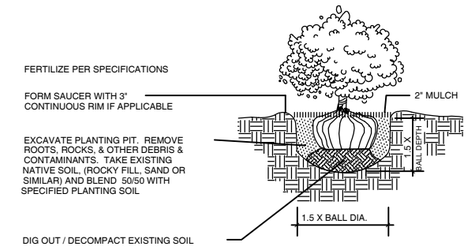


TYPICAL PLANT SPACING

SQUARE SPACING PLAN



TRIANGULAR SPACING PLAN



3 SHRUB PLANTING
SCALE: NOT TO SCALE

PREPARATION:
STORE ALL MATERIAL IN DRY, CLEAN AREA, COVER TO PROTECT FROM RAIN AND MINIMIZE DUST. COORDINATE RUN-OFF CONTROL WITH GENERAL CONTRACTOR.
TEST EXISTING SOIL TO ENSURE IT IS FREE OF EXCESSIVE CLAY OR SALT AND ANY CHEMICALS/PETROCHEMICALS WHICH MAY HARM PLANT HEALTH.

EXISTING MATERIAL:
IF INCORPORATING EXISTING SITE SOIL REMOVE ALL ROOTS, AND ROCK LARGER THAN 2" IN SIZE. REMOVE ALL PLASTIC, METAL AND MANMADE DETRITUS.

MIX:
50% EXISTING SOIL
10% COCO PEAT
10% COMPOST
20% CLEAN SAND
10% PERLITE

BLEND QUANTITIES NEEDED BY HAND OR MACHINE.

INSTALLATION:
REFER TO APPROPRIATE DETAILS FOR AMENDMENTS, COMPACTION DEPTHS ETC.

GENERAL: REFER TO LANDSCAPE NOTES FOR ADDITIONAL INFORMATION

4 PLANTING SOIL- TYPICAL

MULCH A:
PINE STRAW, FOR USE IN GENERAL PLANTING AREAS AND ON SLOPES GREATER THAN 10%

MULCH B:
MINI PINE BARK NUGGETS, FOR USE IN SPECIALTY AREAS

MULCH C:
MELALEUCA MULCH, FOR USE IN GENERAL PLANTING AREAS AND ON SLOPES GREATER THAN 10%

BLEND QUANTITIES NEEDED BY HAND OR MACHINE.

INSTALLATION:
REFER TO APPROPRIATE DETAILS FOR EXTENTS AND DEPTHS.

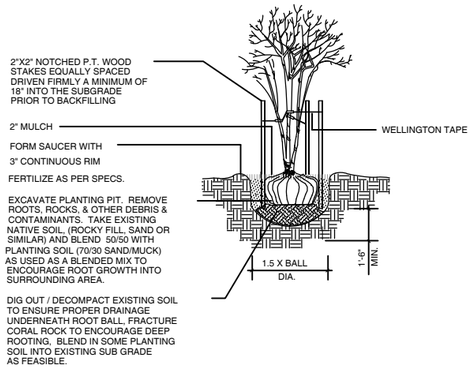
GENERAL: REFER TO LANDSCAPE NOTES FOR ADDITIONAL INFORMATION, CONFIRM TYPE TO BE USED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

5 MULCH- TYPICAL

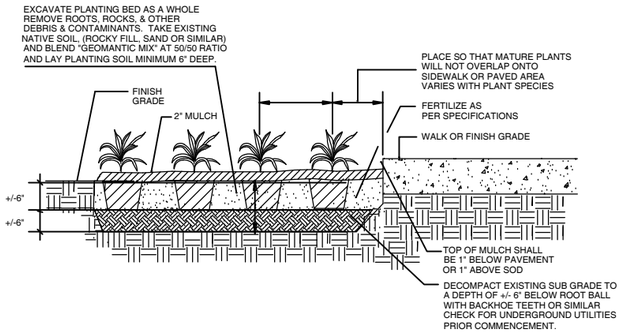
MIX:
5050- MUCK AND FINE SAND

SUPPLIER: ATLAS PEAT AND SOIL 561.734.7300

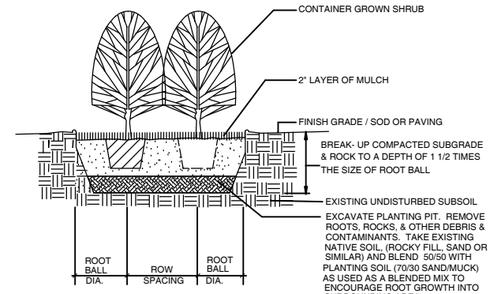
6 PLANTING SOIL- LAWN TOP DRESSING



7 MULTI TRUNK TREE- PLANTNG & STAKING
SCALE: NOT TO SCALE

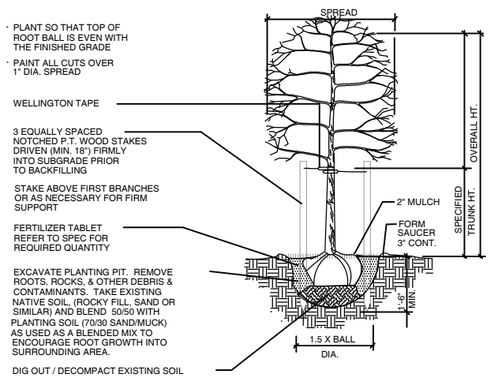


8 SHRUB- HEDGE AND MASS PLANTING
SCALE: NOT TO SCALE



9 SHRUB- HEDGE AND MASS PLANTING
SCALE: NOT TO SCALE

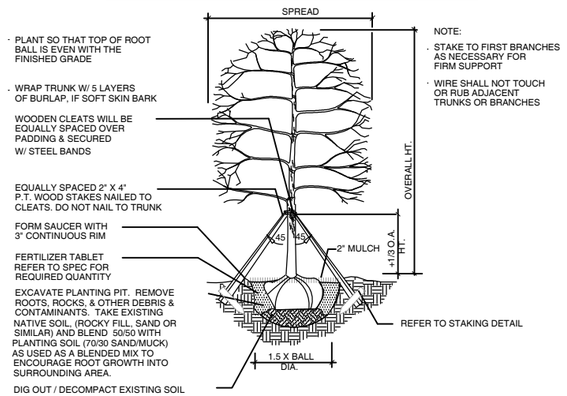
CALIPER	TIES	STRANDS	STAKES
1" - 1 1/2"	2	1 # 12	2 - 2 X 2
1 1/2" - 2"	3	1 # 12	3 - 2 X 2
2" - 3"	3	2 # 12	2 - 2 X 2



NOTE:
USE FOR 3" OR LESS SINGLE STEM TREES & PALMS

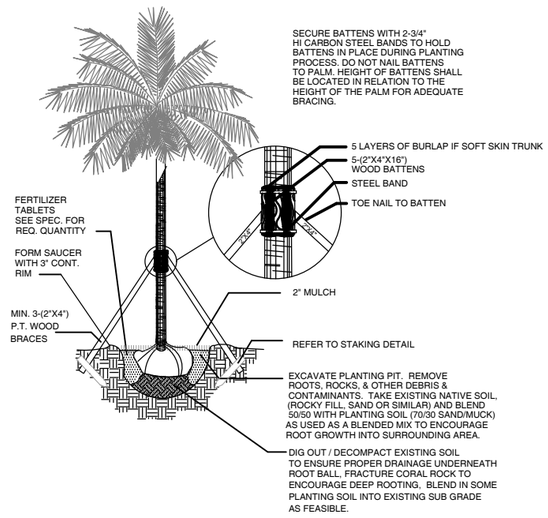
10 CANOPY AND PALM TREE- PLANTING & VERTICAL STAKING
SCALE: NOT TO SCALE

CALIPER	CLEATS	STRAPS	BRACES	NAILS
3" - 8"	2 x 4 x 8"	1 # 12	3 - 2 X 4	2 - 16d
8" - 10"	2 x 4 x 12"	1 # 12	3 - 2 X 4	3 - 16d
10" - 16"	2 x 4 x 12"	2 # 12	4 - 2 X 4	3 - 16d



NOTE:
USE FOR 3" TO 12" SINGLE TRUNK TREES

11 CANOPY TREE- PLANTING & TRIPLE BRACE STAKING
SCALE: NOT TO SCALE



12 PALM- PLANTING & STAKING
SCALE: NOT TO SCALE

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Project # 22005

PLANTING DETAILS

L450

EXTERIOR LIGHTING SCHEDULE

SYMBOL	QUANTITY	TYPE	MANUFACTURER	SPECIFICATION NUMBER	LAMP	NOTES
1	-	DOWNLIGHT (24')	HUNZA	REFER TO CUT SHEET	LED	-
2	-	UPLIGHT	HUNZA	REFER TO CUT SHEET	LED	-
3		ACCENT	HUNZA	REFER TO CUT SHEET	LED	-
4	-	DECK LIGHT	HUNZA	REFER TO CUT SHEET	LED	-
5	-	WATER FEATURE	HUNZA	REFER TO CUT SHEET	LED	-

EXTERIOR LIGHTING CUT SHEETS

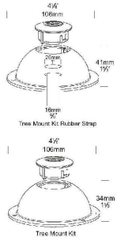
1

Tree Mount Kit
Cat. No. SSP/T
Cat. No. SSP/TS

The Tree Mount Kit enables a NPS Spot to be mounted onto a tree to create moon lighting effects. A cable connection can be made at the rear of the dome. The Kit consists of a mounting dome and three 316 stainless steel bolts. The bolts initially fix the dome 40mm (1½") out from the tree's surface, which allows the tree to grow without causing any harm.

An alternative mounting option is the Tree Mount Kit Rubber Strap. The kit consists of a mounting dome and a one metre adjustable rubber strap, which expands as the tree grows.

Both kits come with a female adaptor for NPS thread.




Tree Mount Kit with a NPS Spot attached.

Ordering Information

Luminaire Type	Material	Accessories
SSP/T - Tree Mount Kit SSP/TS - Tree Mount Kit Rubber Strap	Black Glass-Filled Polypropylene	CJK150 - Cable Joint Kit

Ordering Example: SSP/T - Tree Mount Kit in Black

CJK150 - Cable Joint Kit
(Accessories ordered separately)

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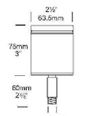
1

NPS Spot
PURE LED
Cat. No. NPS/L

Pure Performance



The NPS Spot is ideal for illuminating bushes and trees from ground level. The luminaire has been designed with a threaded ½" NPS base which can be easily fixed to a Hunza™ Super Spike ground stake, Hunza™ Tree Mount Kit or any ½" NPS fitting. It has a fully adjustable head allowing 360 degree rotation and 0 - 90 degree elevation.

The luminaire is machined from a choice of 10mm solid aluminium with a UV stable powder coated finish, solid copper or 316 stainless steel with a clear, tempered, flush glass lens and high temperature silicon gaskets.

The Hunza PURE LED system uses the latest Cree MT-G LED chips for maximum performance and long life of at least 60,000 hours. Power supply options include a choice of integral 12 volt driver or an external remote driver. The PURE LED system incorporates an innovative Plug-and-Play system for easy replacement or upgrade of either the LED engine or integral driver.

Ordering Information

Luminaire	Driver mA	Lens	Colour Temp	Accessories	Material/Finish
NPS/L S - Series Wiring D7 - 700mA D10 - 1000mA	15 - 15° TIR Lens 25 - 25° TIR Lens 38 - 38°Reflector 60 - 60° Reflector	3 - 3000K 4 - 4000K	GG - Glare Guard HCL - Hex Cell Louvre Adaptor LENSSTEPF - Frosted Lens SSP/G - Hunza™ Super Spike SSP/T - Hunza™ Tree Mount	BK- Black BZ- Bronze GN- Green STAR- Silver Star WH -White WB- Birch DG- Dark Grey OG- Olive Green RG- Beige PR- Primrose COP- Copper SS - 316 Stainless

S/L/L D10 60 4 CJK150 SS

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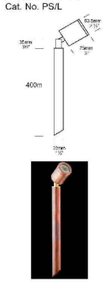
2

Pole Spot
PURE LED
Cat. No. PS/L

Pure Performance



The Pole Spot has a single spotlight which can be aimed in any single direction. This luminaire is ideal for path lighting as well as tree lighting, or the head may be aimed downward stopping upward light altogether. The fitting has a fully adjustable head which allows for 360 degree rotation, as well as a high degree of elevation.

This luminaire is machined from a choice of 10mm solid aluminium with a UV stable powder coated finish, solid copper or 316 stainless steel with a clear, tempered, flush glass lens and high temperature silicon gaskets. The Pole Spot uses a MR16 GU 5.3 lamp.

The Hunza PURE LED system uses Cree MT-G chips for maximum performance and long life. Power supply options include a choice of 12 volt integral or a remote (series connection) driver. The PURE LED system incorporates HUNZA's Plug-and-Play system for easy replacement of either the LED engine or integral driver in the field. Four beam angles, and a choice of a Warm or Cool White colour temperatures are available.

Ordering Information

Luminaire	Driver mA	Lens	Colour Temp	Accessories	Material/Finish
PS/L S - Series D7 - 12v 700mA D10 - 12v 1000mA	15 - 15° TIR Lens 25 - 25° TIR Lens 38 - 38°Reflector 60 - 60° Reflector	3 - 3000K 4 - 4000K	CJK150 - Cable Joint Kit LENSSTEPF - Frost Lens GG - Glare Guard HCL - Hex Cell Louvre Adapter	BK - Black BZ - Bronze GN - Green STAR - Silver Star WH -White WB - Birch DG - Dark Grey OG - Olive Green RG - Beige PR - Primrose COP - Copper SS - 316 Stainless

PS/L D10 60 4 CJK150 SS

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3

Euro Spot

PROJECT:
TYPE:
SOURCE:
NOTES:

PURELED SPECIFICATIONS

LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	105 Lumens minimum @ 4 watts, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP66
Warranty	Electronics = 5 years Body Cop/ SS = 10 years
Standards	AS/NZS 61046 cUL 1838, 2108 CSA C22.2 No. 250.7, No. 250.0-08 CE

PRODUCT CONFIGURATION
Please fill in appropriate codes into boxes provided

Cat. No. ES/L

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories
ES/L	5 700mA Input, Series Wired 4W D3 12VAC Input, Parallel Wired 2W D7 12VAC Input, Parallel Wired 4W D24 24VDC Input, Parallel Wired	EQP SOLID COPPER SS STAINLESS STEEL	15 15° 25 25° 38 38° 60 60°	2 2700K 3 3000K 4 4000K	LF FROSTED LENS CJK CABLE JOINT KIT HCL HEX CELL LOUVRE

SERIES, REMOTE DRIVER REQUIRED:
Constant current driver
Individual fixtures require 6vdc @ 700mA maximum

12VAC INTEGRAL DRIVER:
Hunza integrated Plug and Play Driver (included)
Input: 9-15VAC
Output: 6vdc @ D3=350mA, D7=700mA

24VDC DRIVER:
Input: 24vdc.
Output: 18vdc @ 700mA constant current (non dimming).
Note: not for USA.

Click here for 240v Remote Power Supply Guidance Charts
Click here for USA Remote Power Supply Guidance Charts

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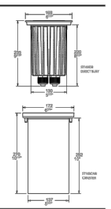
4

ST100
SAFE TOUCH

PROJECT:
TYPE:
SOURCE:
NOTES:

SPECIFICATIONS IK10 IP67

LED Chip	Cree CXA 1830 field replaceable LED board
Luminaire Output	2700 Lumens @ 700mA (26 watts) , Delivered from Luminaire with unobstructed beam.
Lumens Per Watt	100 Lumens minimum @ 26 watts, Delivered from Luminaire with unobstructed beam
CRI (3000K)	80 Standard, 90+ Optional
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	13, 20, 28, 34
Ingress Protection	IP67
Warranty	Electronics = 5 years Body Aluminium = 5 years
Standards	BS/EN 60598.2.2 cUL 1598, CSA C22.2 No. 250.0 CE



PRODUCT CONFIGURATION
Please fill in appropriate codes into boxes provided

Cat. No. ST100

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories
ST100/SC ST100/DB	SR SERIES REMOTE R RETRO, 120-277vac INPUT D24 24VDC DRIVER	SBZ SOLID BRONZE SS STAINLESS STEEL SSP POLISHED SS	13 13° 20 20° 28 28° 34 34°	2 2700K 3 3000K 4 4000K 39 3000K, 90+ CRI	HEX CELL LOUVRE GLARE SHIELD LF FROSTED LENS ASLIP ANTI SLIP LENS CJK CABLE JOINT KIT

SERIES REMOTE:
Constant current driver (included) individual fixture require 37vdc @ 700mA maximum. 0-10 volt dimming.

RETRO 110-277vac DRIVER:
Constant current driver (included)
Input: 120, 240, 277 volts.
Output: 30 watts total 37vdc @ 700mA
0-10 volt dimming.

240DC DRIVER:
Input: 24vdc.
Output: 36vdc @ 700mA constant current (non dimming).
Note: not for USA.

ADDITIONAL COMMENTS:

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5

Pond Lite / Pond Lite Weighted Base

PROJECT:
TYPE:
SOURCE:
NOTES:

PURELED SPECIFICATIONS

LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	600 Lumens @ 1050mA (6 watts), 420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	100 Lumens @ 6 watts minimum, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP68
Warranty	Electronics = 6 years Body Cop/ SS = 10 years Body Aluminium = 5 years
Standards	AS/NZS 61046, *UL676 (12 volt only)*

PRODUCT CONFIGURATION
Please fill in appropriate codes into boxes provided

Cat. No. POND/L or POND/W/L

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories
POND/L POND/WL	D5 12VAC Input, Parallel Wired 2W D7 12VAC Input, Parallel Wired 4W D10 12VAC Input, Parallel Wired 6W D24 24VDC Input, Parallel Wired	EBK BLACK EBZ BRONZE EOGR OLIVE GREEN EWH WHITE EWB WHITE BIRCH EDG DARK GREY estar SILVER STAR ECT CORTEN EQP SOLID COPPER SS STAINLESS STEEL	15 15° 25 25° 38 38° 60 60°	2 2700K 3 3000K 4 4000K	HCL HEX CELL LOUVRE SNT SNOOT GG GLARE GUARD LF FROSTED LENS CJK CABLE JOINT KIT

ALUMINUM

12VAC INTEGRAL DRIVER:
Hunza integrated plug and play driver (included)
Input:9-15VAC
D5=350mA, D7=500mA, D10=700mA, D10=1050mA(1050mA limited to 4-9°C(19-49°F) ambient temperature inside/less steel)

24VDC DRIVER:
Input: 24vdc.
Output: 18vdc @ 700mA constant current (non dimming).
Note: not for USA.

Click here for halogen spesification sheet

OTHER LAMP OPTIONS:
PONDH or POND/W/H - MR16 Halogen 12V Lamp
POND/SL or POND/W/SL - MR16 LED Retrofit 12V Lamp (lamps vary by market - please refer to supplier for details)

Click here for 240v Remote Power Supply Guidance Charts
Click here for USA Remote Power Supply Guidance Charts

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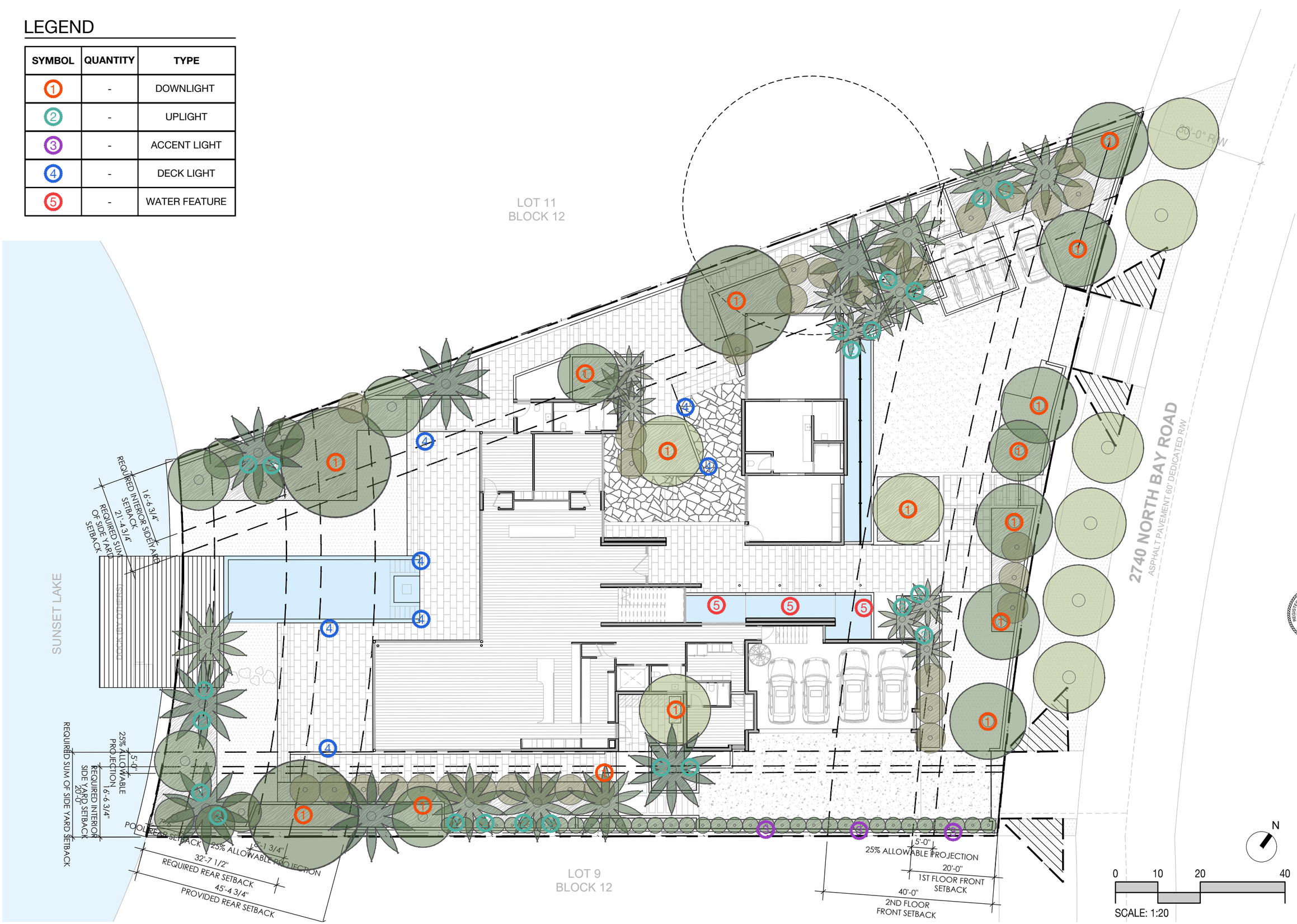
Project # 22005

LIGHTING SCHEDULE

L800

LEGEND

SYMBOL	QUANTITY	TYPE
1	-	DOWNLIGHT
2	-	UPLIGHT
3	-	ACCENT LIGHT
4	-	DECK LIGHT
5	-	WATER FEATURE



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Project # 22005

LIGHTING PLAN

L810

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INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

IRRIGATION WATER POINT OF CONNECTION

INSTALL A 1" IRRIGATION WATER METER IN THIS AREA. THE WATER METER IS TO SUPPLY A MINIMUM OF 25GPM AT 60PSI FOR THE EFFICIENT OPERATION OF THIS SYSTEM. VERIFY LOCATION IN THE FIELD PRIOR TO INSTALLATION. THE IRRIGATION CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF THE REQUIRED PRESSURE IS NOT AVAILABLE ON THE DOMESTIC WATER LINE.

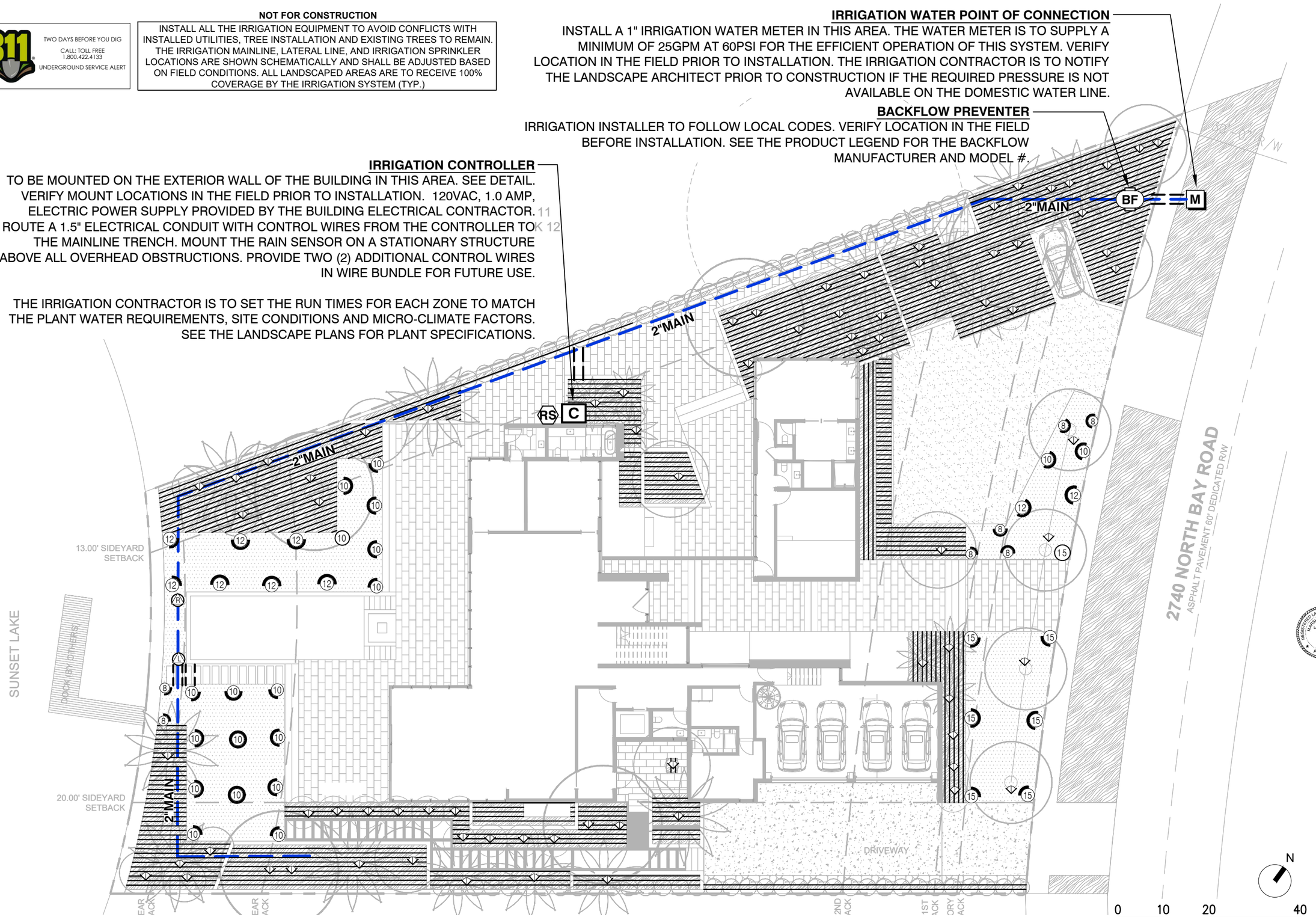
BACKFLOW PREVENTER

IRRIGATION INSTALLER TO FOLLOW LOCAL CODES. VERIFY LOCATION IN THE FIELD BEFORE INSTALLATION. SEE THE PRODUCT LEGEND FOR THE BACKFLOW MANUFACTURER AND MODEL #.

IRRIGATION CONTROLLER

TO BE MOUNTED ON THE EXTERIOR WALL OF THE BUILDING IN THIS AREA. SEE DETAIL. VERIFY MOUNT LOCATIONS IN THE FIELD PRIOR TO INSTALLATION. 120VAC, 1.0 AMP, ELECTRIC POWER SUPPLY PROVIDED BY THE BUILDING ELECTRICAL CONTRACTOR. ROUTE A 1.5" ELECTRICAL CONDUIT WITH CONTROL WIRES FROM THE CONTROLLER TO THE MAINLINE TRENCH. MOUNT THE RAIN SENSOR ON A STATIONARY STRUCTURE ABOVE ALL OVERHEAD OBSTRUCTIONS. PROVIDE TWO (2) ADDITIONAL CONTROL WIRES IN WIRE BUNDLE FOR FUTURE USE.

THE IRRIGATION CONTRACTOR IS TO SET THE RUN TIMES FOR EACH ZONE TO MATCH THE PLANT WATER REQUIREMENTS, SITE CONDITIONS AND MICRO-CLIMATE FACTORS. SEE THE LANDSCAPE PLANS FOR PLANT SPECIFICATIONS.



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Project # 22005

IRRIGATION PLAN

L900

IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED.

2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS.

3. ALL IRRIGATION MAINLINE AND LATERAL LINES ARE TO NOT EXCEED A VELOCITY OF 5FPS.

4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.

5. REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BALLS WHEN INSTALLING IRRIGATION EQUIPMENT. CALL 811 AND REFER TO UTILITY PLANS PRIOR TO TRENCHING.

6. IRRIGATION CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. THE IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS.

7. VERIFY THE REQUIRED MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE IRRIGATION DESIGN CONSULTANT AND LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE. SEE PLAN SHEET FOR REQUIREMENTS.

8. WHERE EXISTING OR NEW TREES, LIGHT FIXTURES, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN. THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION.

9. 100% HEAD TO HEAD COVERAGE IS REQUIRED. ASSURE THAT ANY MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS.

10. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO IMPERVIOUS AREAS.

11. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS SHOWN ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THE PRODUCT MANUFACTURER.

12. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.

13. CONTRACTOR IS TO SUBMIT PRODUCT SPECIFICATION SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE USED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

14. THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

15. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN DEBRIS-FREE MATERIALS.

16. IRRIGATION CONTRACTOR IS TO INSTALL CHRISTY ZONE TAGS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER AT EACH CONTROL VALVE.

17. AS BUILT DOCUMENTS ARE TO BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. THE MAINLINE, CONTROL VALVES, ISOLATION VALVES, GROUND RODS AND SPLICE BOXES SHALL BE LOCATED WITH A MEASUREMENT FROM TWO FIXED POINTS.

18. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF ON-SITE OPERATIONS.

19. A MAINLINE PRESSURE TEST IS TO BE CONDUCTED BEFORE BACKFILLING. ALL FINDINGS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT WITHIN TWENTY FOUR HOURS POST TEST.

20. ALL SLEEVES ARE TO BE TWO TIMES THE SIZE OF THE PIPE.

21. ROUTE AN ELECTRICAL CONDUIT FROM THE CONTROLLER TO THE MAINLINE TRENCH FOR THE CONTROL WIRES. RUN THE CONDUIT AND CONTROL WIRES PARALLEL TO THE MAINLINE.

22. THE IRRIGATION SYSTEM IS TO BE INSPECTED AND APPROVED BY THE PROJECT OWNER PRIOR TO RECEIVING CERTIFICATION.

23. ANY PRODUCT SUBSTITUTIONS MADE BY THE IRRIGATION CONTRACTOR ARE TO BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO INSTALLATION.

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REGISTERED LANDSCAPE ARCHITECT MARSH C. KRIPLEN LA 0667007 STATE OF FLORIDA

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Project # 22005

IRRIGATION NOTES

L901

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
(E) EST (L) LCS (R) RCS (C) CST (S) SST	RAIN BIRD 1806-U-PRS 15 STRIP SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	2	30
(8) Q (8) T (8) H (8) F	RAIN BIRD 1806-U-PRS U8 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	7	30
(10) Q (10) T (10) H (10) F	RAIN BIRD 1806-U-PRS U10 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	18	30
(12) Q (12) T (12) H (12) TT (12) TQ (12) F	RAIN BIRD 1806-U-PRS U12 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	9	30
(15) Q (15) T (15) H (15) TT (15) TQ (15) F	RAIN BIRD 1806-U-PRS U15 SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	6	30
(8) 08HE-VAN (12) 12HE-VAN (10) 10HE-VAN (15) 15HE-VAN	RAIN BIRD 1806-U-PRS HE-VAN SERIES TURF SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	2	30
1401 1402 1404 1408	RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2IN. FIPT.	77	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-09-12 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.9 GPH EMITTERS AT 12" O.C. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	5,741 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
BF	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	1
C	RAIN BIRD ESP4ME3 WITH (3) ESP-SM3 13 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	1
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
M	WATER METER 1" RECORDALL BADGER DISC METER OR EQUAL	1
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	343.0 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	23.1 L.F.

Valve Callout

THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

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MARSH C. KRIPLEN LANDSCAPE ARCHITECT LA #6670001 STATE OF FLORIDA

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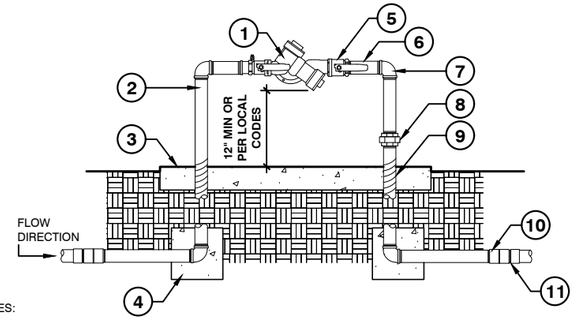
Project # 22005

IRRIGATION SCHEDULE

L902



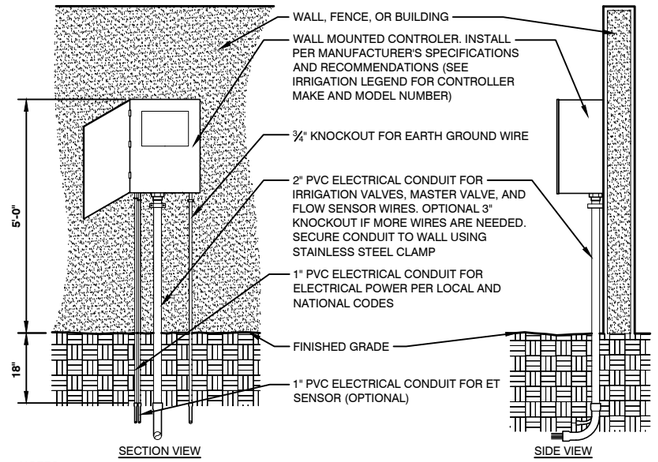
NOTES:

1. ALL ASSEMBLY PARTS (THREADED NIPPLES, FITTINGS, ETC.) SHALL BE GALVANIZED OR BRASS PER LOCAL CODES AND REQUIREMENTS.
2. GALVANIZED NIPPLE SHALL EXTEND 12" PAST THE EDGE OF THE CONCRETE FOOTING.
3. SCH. 80 PVC MALE ADAPTER SHALL BE USED IN CONNECTION FROM GALVANIZE TO THE MAINLINE.
4. BACKFLOW PREVENTION DEVICE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE LANDSCAPE METER.
5. BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN PLANTING AREA UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
6. SEE DETAIL FOR BACKFLOW CAGE INSTALLATION.
7. ALL BACKFLOW PREVENTION DEVICES SHALL HAVE FREEZE BLANKET INCLUDED UPON INSTALLATION.
8. ALL GALVANIZED CONNECTIONS SHALL TO BE MADE USING PIPE THREAD SEALANT. ALL SCH. 80 PVC TO GALVANIZED CONNECTIONS TO BE MADE USING TEFLON TAPE.

1. BACKFLOW PREVENTION DEVICE (SEE IRRIGATION PLANS FOR MAKE AND MODEL). INSTALL DEVICE PER THE LOCAL WATER PURVEYOR'S STANDARDS AND SPECIFICATIONS
2. GALVANIZED NIPPLE
3. 4" THICK CONCRETE PAD, 1" ABOVE FINISHED GRADE. SEE BACKFLOW CAGE DETAIL
4. CONCRETE THRUST BLOCKS REQUIRED ON BACKFLOW DEVICES 2-1/2" AND LARGER
5. BRASS BALL VALVE
6. THREADED GALVANIZED NIPPLE
7. GALVANIZED 90° (DEGREE) ELBOW
8. GALVANIZED UNION
9. WRAP 20 MIL TAPE TWICE AROUND GALVANIZED PIPE UNDER FINISHED GRADE AND THROUGH THE CONCRETE
10. GALVANIZED COUPLING
11. SCH. 80 PVC MALE ADAPTER

1 BACKFLOW PREVENTION DEVICE

3/4" = 1'-0" FX-IR-FX-BACK-02

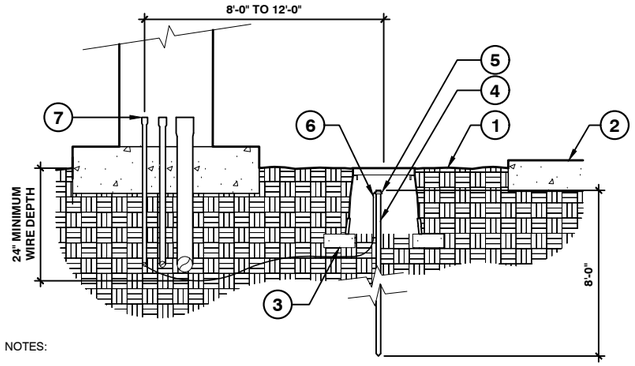


NOTES:

1. COMMON AND CONTROLLER WIRE TO BE BUNDLED USING ELECTRICAL TAPE 10'-0" ON CENTER.
2. GROUNDING RODS SHALL BE LOCATED BETWEEN 8'-0" TO 12'-0" AWAY FROM THE CONTROLLER. GROUNDING RODS SHALL BE ⅝" IN DIAMETER x 8' IN LENGTH. CONNECT THE GROUNDING ROD TO THE CONTROLLER USING 6 GAUGE BARE COPPER WIRE OR PER THE MANUFACTURER'S SPECIFICATIONS. SEE GROUNDING ROD DETAIL.
3. ET STATION SHALL BE INSTALLED NO FURTHER THAN 90' AWAY FROM THE CONTROLLER AND A MINIMUM OF 15' OFF THE GROUND, OUT FROM UNDER ANY OVERHEAD OBSTRUCTIONS SUCH AS, BUT NOT LIMITED TO, BUILDING OVERHANGS, TREES, OR UTILITIES.

2 WALL MOUNTED CONTROLLER

1/2" = 1'-0" FX-IR-FX-CONT-05



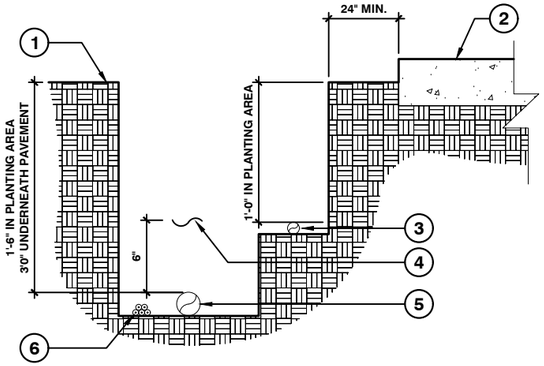
NOTES:

1. ALL GROUNDING REQUIREMENTS FOR CONTROLLERS SHALL CONFORM TO LOCAL ELECTRIC CODES.
2. GROUNDING ROD SHALL NOT BE LOCATED IN THE SAME TRENCH AS IRRIGATION MAINLINES OR LATERAL LINES.
3. VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
4. INSTALL GROUNDING ROD PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

1. FINISH GRADE
2. PAVEMENT
3. THREE (3) 4" x 8" BRICKS
4. 5/8" x 8'-0" COPPER GROUNDING ROD
5. GROUNDING ROD CLAMP
6. #6 AWG BARE COPPER WIRE
7. 1/2" PVC ELECTRICAL CONDUIT AND SWEEP FOR EARTH GROUND

3 GROUNDING ROD

1" = 1'-0" FX-IR-FX-AUXEQ-01



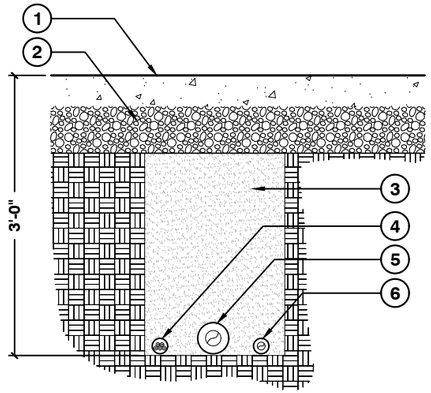
NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

1. FINISHED GRADE
2. PAVEMENT
3. NON-PRESSURIZED LINE (LATERAL LINE)
4. DETECTABLE LOCATOR TAPE
5. PRESSURIZED LINE (MAINLINE)
6. DIRECT BURIAL LOW VOLTAGE CONTROL WIRES

4 IRRIGATION TRENCHING

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-08



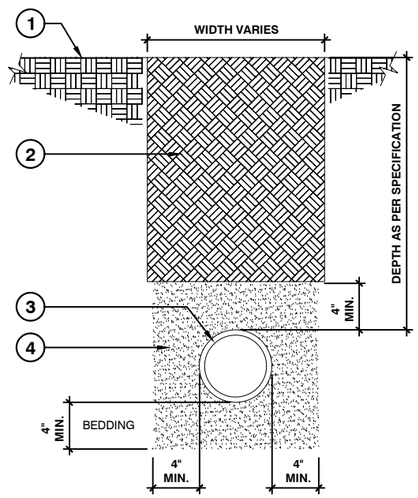
NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

1. PAVEMENT
2. BASE ROCK
3. CLEAN BACKFILL, 95% RELATIVE COMPACTION UNDER PAVING OR PER CIVIL ENGINEER'S PLANS
4. CONTROL WIRES, SLEEVE UNDER PAVING. INSTALL ADJACENT TO PRESSURIZED MAINLINE. BUNDLE SHALL BE NO MORE THAN 50% OF PIPE DIAMETER
5. MAINLINE, SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE PRESSURIZED MAINLINE PIPE
6. NON-PRESSURIZED LINE, SLEEVE UNDER PAVING TO BE BE TWO TIMES THE DIAMETER OF THE LATERAL LINE

5 PIPE BENEATH PAVEMENT

1" = 1'-0" FX-IR-FX-AUXEQ-05



1. FINISHED GRADE
2. NATIVE SOIL BACKFILL COMPACT TO 95% COMPACTION
3. PVC MAINLINE
4. BACKFILL WITH 100% COARSE SAND, WATER JET AND MECHANICALLY COMPACT TO 90% OPTIMUM DENSITY. ALLOW 48 HOURS TO SETTLE, AND BACKFILL AND COMPACT WITH NATIVE SOIL

6 MAINLINE WITH SAND BEDDING

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-13

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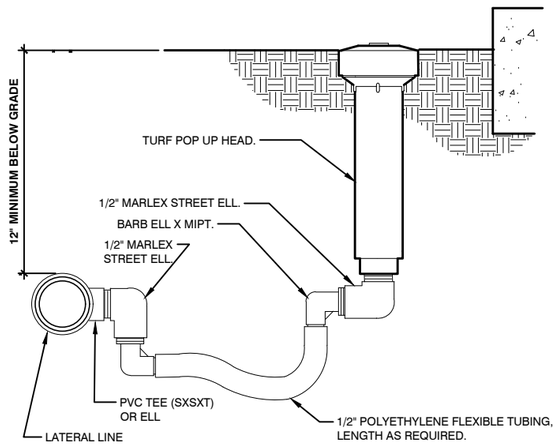
Project # 22005

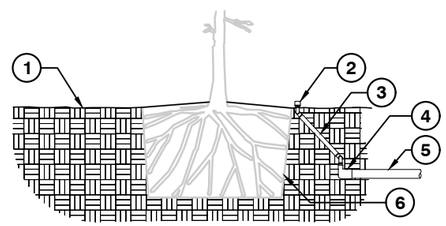
IRRIGATION DETAILS

L903

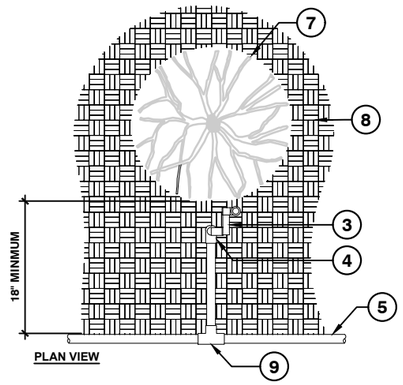


1 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0" FX-IR-FX-HEAD-04



SECTION VIEW



PLAN VIEW

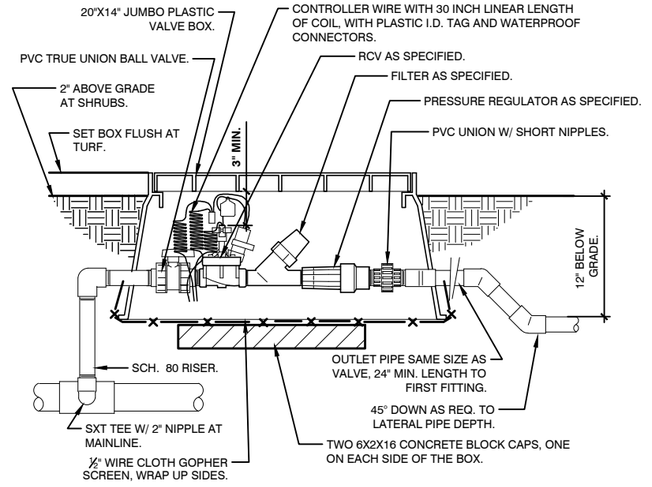
1. FINISHED GRADE
2. PRESSURE COMPENSATING BUBBLER SHALL BE SET 1" ABOVE FINISHED GRADE (SEE IRRIGATION SCHEDULE FOR MAKE AND MODEL)
3. SWING JOINT, SEE DETAIL
4. SCH. 40 PVC 90° ELBOW SLIP TO THREAD
5. LATERAL LINE IRRIGATION (SEE IRRIGATION PLANS FOR SIZING)
6. EDGE OF ROOT BALL. SETTLE BACKFILL SO IRRIGATION FLOWS THROUGH ROOT BALL
7. EDGE OF ROOT BALL
8. EXISTING OR MODIFIED SOIL (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
9. SCH. 40 PVC TEE OR 90° ELBOW

NOTES:

1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

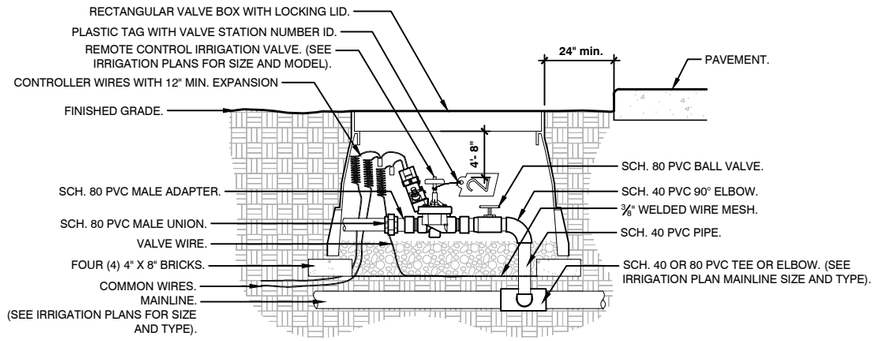
2 IRRIGATION BUBBLER W/ LAYOUT

3/4" = 1'-0" FX-IR-FX-BUBB-04



3 1" DRIP VALVE/FILTER/REGULATOR

1 1/2" = 1'-0" FX-IR-FX-DRIP-12



NOTE:
1- LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.

2- COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL 14 AWG OR LARGER. COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).

3- ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DBR/Y-6 CONNECTORS OR APPROVED EQUAL.

4-VALVE BOX SHALL BE WRAPPED WITH MIN. 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.

5- MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATIONS SADDLES).

6- ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

7- VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

4 REMOTE CONTROL IRRIGATION VALVE

1 1/2" = 1'-0" FX-IR-FX-RCV-02

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IRRIGATION DETAILS

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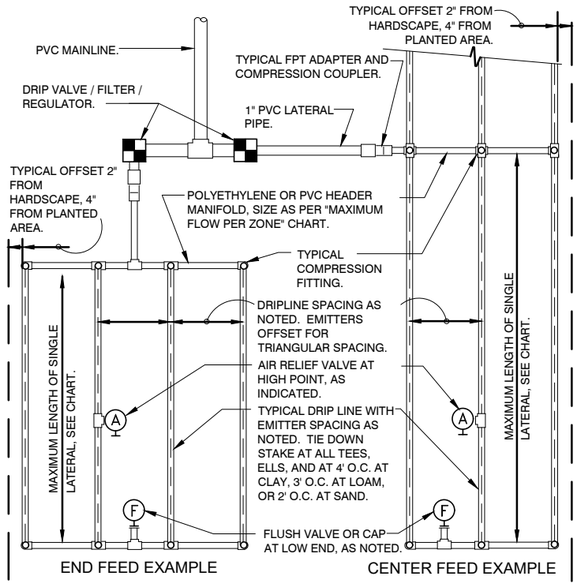


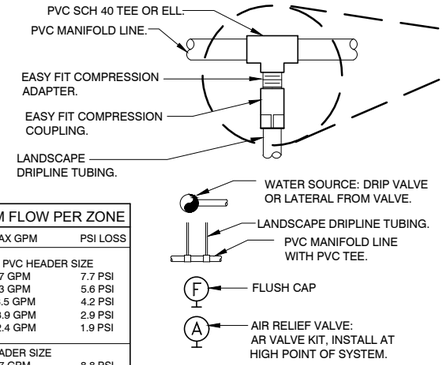
MAXIMUM LATERAL LENGTH (FEET)			
	EMITTER FLOW RATE GPH		
PSI	12" SPACING 0.6 0.9	18" SPACING 0.6 0.9	24" SPACING 0.6 0.9
10	125 96	175 135	218 171
20	249 191	350 171	442 340
30	307 236	434 333	550 422
40	350 268	495 380	627 171
50	125 96	175 135	218 171
60	125 96	175 135	218 171

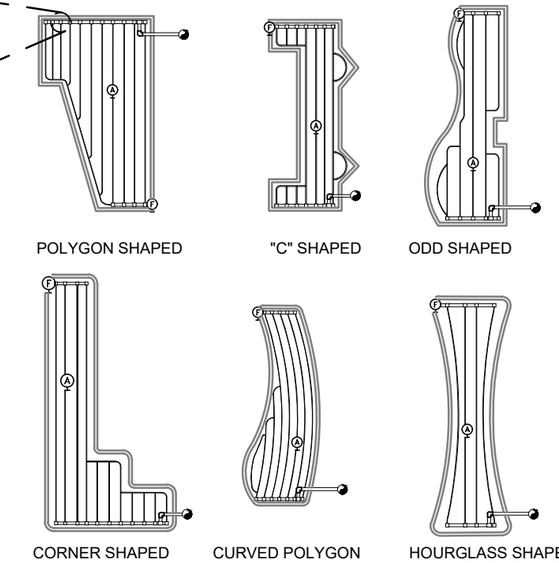
GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

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
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	5.6 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		
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

SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP $\frac{2}{3}$ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM $\frac{1}{3}$ OF THE SLOPE.
5. WHEN THE ELEVATION CHANGE IS 10FT OR MORE, ZONE THE BOTTOM $\frac{1}{3}$ ON A SEPARATE VALVE.





1 TYPICAL DRIPLINE REQUIREMENTS

N.T.S.

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