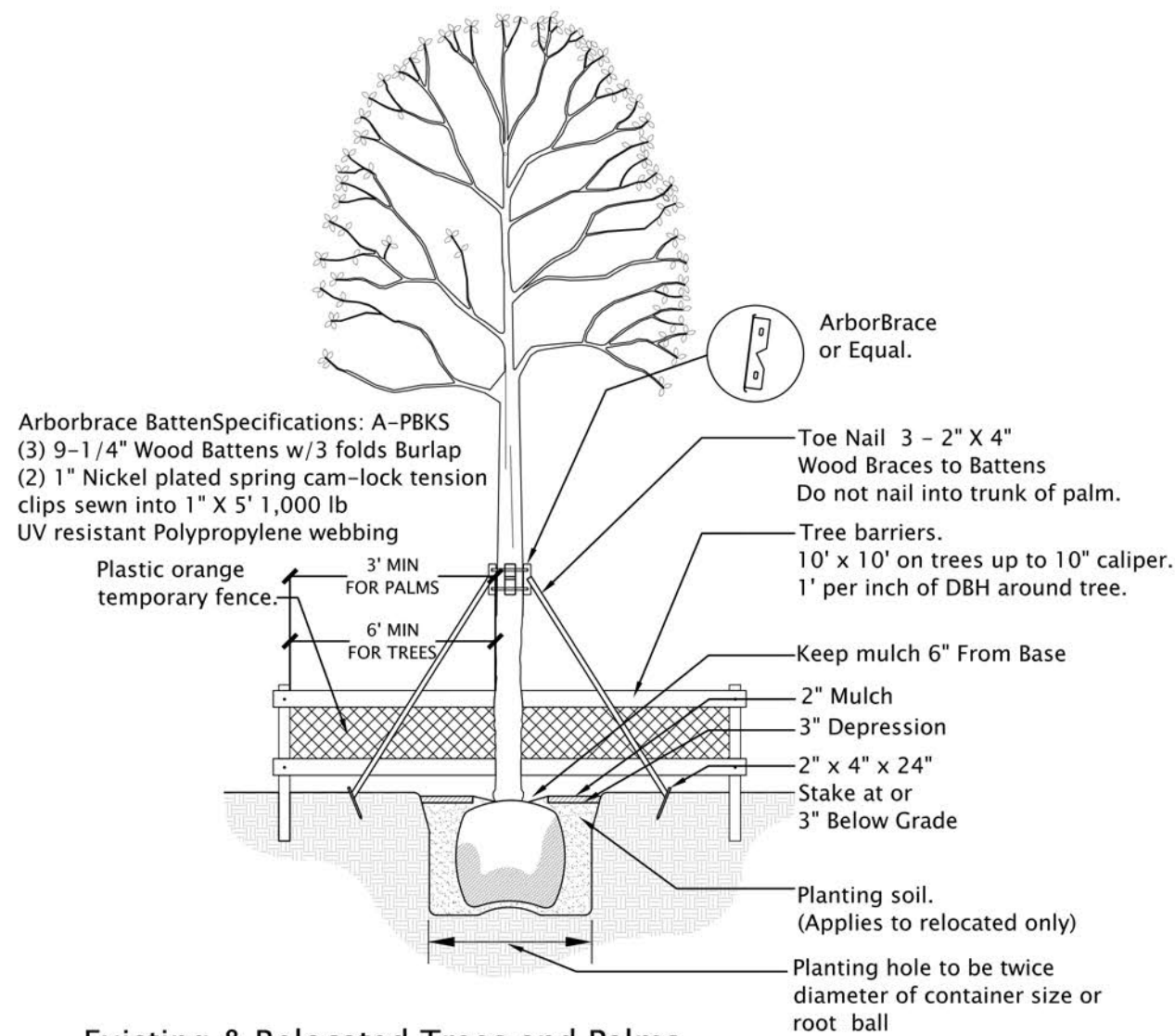


# EXISTING TREE DISPOSITION CHART

NO.	Botanical Name	Common Name	(DBH)	HEIGHT	CANOPY	DISPOSITION	HEALTH	COMMENTS
1.	Sabal palmetto	Sabal palm	10"	50'	10'	Does not exist	GOOD	Not present in ROW
2.	Quercus virginiana	Oak Tree	10"	25'	12'	REMAIN	GOOD	Within ROW
3.	Quercus virginiana	Oak Tree	9"	25'	15'	RELOCATE	GOOD	Within ROW/See Note for tree #3 below.
4.	Quercus virginiana	Oak Tree	9"	25'	12'	REMAIN	GOOD	Within ROW
5.	Mangifera indica	Mango Tree	36"	45'	30'	REMAIN	GOOD	
6.	Quercus virginiana	Oak Tree	7"	20'	10'	REMAIN	GOOD	Within ROW
7.	Quercus virginiana	Oak Tree	7"	25'	12'	REMAIN	GOOD	Within ROW

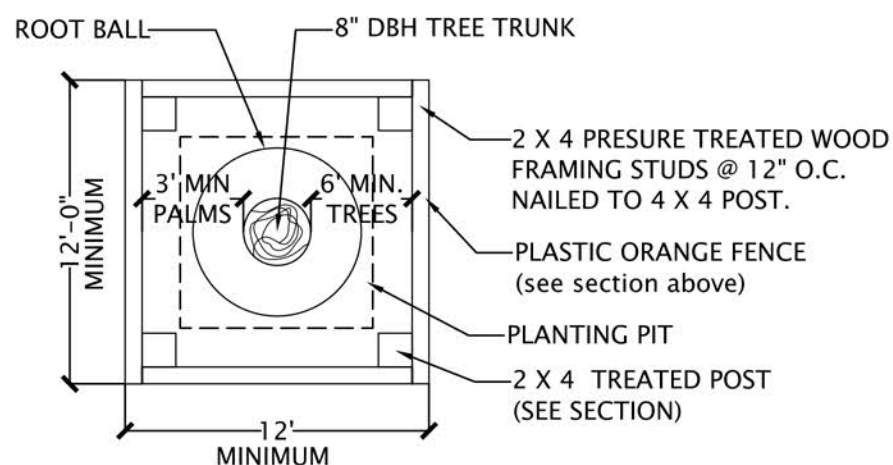
## NOTE FOR TREE #3

AN ARBORIST REPORT AND A TREE REMOVAL/RELOCATION APPLICATION IS TO BE SUBMITTED FOR APPROVAL BY THE CITY OF MIAMI BEACH URBAN FORESTRY DIVISION OF A RELOCATION PERMIT FOR TREE # 3 SHOWN IN THIS PLAN. THE ARBORIST REPORT AND THE TREE REMOVAL/RELOCATION APPLICATION SHALL BE SUBMITTED TO URBAN FORESTRY DIVISION SIX MONTHS BEFORE ANY ROOT PRUNING AND/OR RELOCATION TAKES PLACE. NO TREE WORK IS TO TAKE PLACE PRIOR TO THE TREE REMOVAL/RELOCATION IS TO TAKE PLACE.



## Existing & Relocated Trees and Palms Protective Barrier & Bracing Section Detail

N.T.S.  
Place three wood braces on trees & palms up to 8" caliper  
Place four wood braces on trees & palms over 8" caliper  
Place protective barrier on trees & palms to remain and trees & palms to be relocated.  
Existing barriers on trees to remain or planted may be made constructed of wood and plastic orange temp. fence.



## TREE PROTECTIVE BARRIER DETAIL-PLAN VIEW DETAIL

Tree protection during construction. N.T.S.  
PROTECTIVE BARRIERS TO BE MINIMUM 6" FROM TRUNK OF TREES AND 3" FROM TRUNK OF PALMS.

## TREE DISPOSITION GENERAL NOTES:

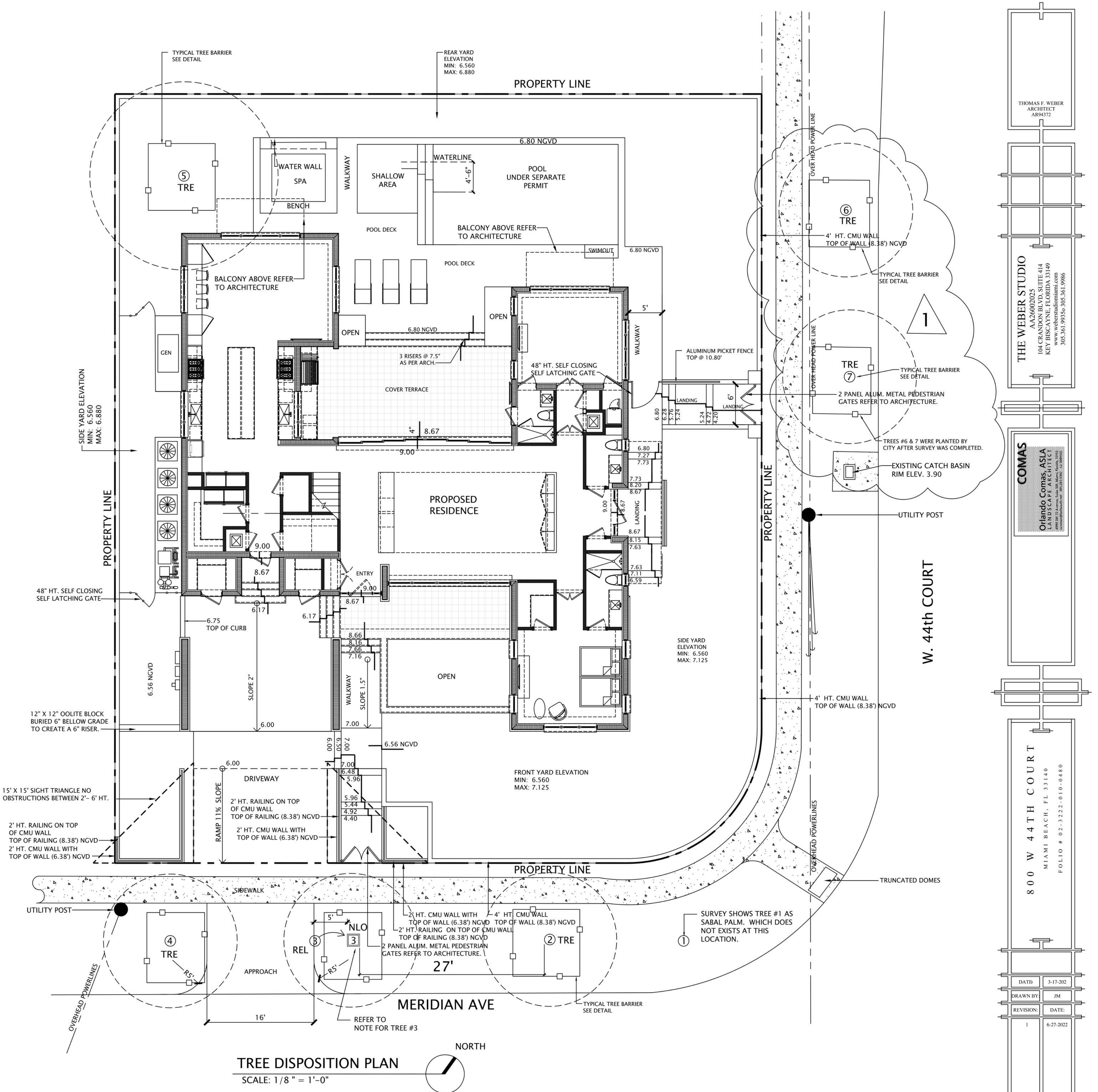
- NOTE A. ALL WORK SPECIFIED IN THIS PLAN SHALL BE PERFORMED IN COMPLIANCE WITH AND APPLICABLE TREE ORDINANCE OF THE MUNICIPALITY'S CODES.
- NOTE B. LANDSCAPE CONTRACTOR OR ARBORIST RESPONSIBLE FOR TREE RELOCATION AND REMOVAL SHALL PLACE PROTECTIVE BARRIERS AS PER DETAIL, IN ALL TREES WHICH SHOW BARRIER.
- NOTE C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TREE BARRIERS IN PLACE AND FOR WATERING THE TREES THROUGHOUT THE DURATION OF THE CONSTRUCTION WORKS. IF ANY OF THE RELOCATED OR PLANTED TREES SHOWN IN THIS PLAN DIES DURING CONSTRUCTION AS A RESULT OF NEGLIGENCE, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REPLACEMENT.
- NOTE D. OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY TREE THAT DOES NOT SURVIVE REGARDLESS OF CAUSE.
- NOTE E. STREET TREES AND PROTECTIVE BARRIERS WITHIN RIGHT OF WAY SHOWN IN THIS PLAN HAVE ARE REQUESTED AS STREET TREES BY MUNICIPALITY AS CONDITION FOR PERMIT APPROVAL. BY APPROVING THIS PLAN, MUNICIPALITY HOLDS LANDSCAPE ARCHITECT HARMLESS OF ANY ACCIDENTS OR DAMAGES TO ANY PARTY'S PROPERTIES OR PERSONAL INJURY OR DEATH AS A RESULT OF THE PLANTING OF THESE TREES WITHIN THE PUBLIC RIGHT OF WAY.
- NOTE F. OWNER MAY PLANT TREES IN A DIFFERENT SITE LOCATION AS SHOWN IN PLAN AS LONG AS THE TOTAL MITIGATION CANOPY REQUIRED AS PER THIS PLAN IS NOT ALTERED.
- NOTE G. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL OF HIS EMPLOYEES AND SUB- CONTRACTORS FROM CAUSING ANY TYPE OF DAMAGE TO THE EXISTING TREES.
- NOTE H. ALL TREES SHOWN TO BE RELOCATED ARE TO BE RELOCATED WITHIN THE SAME PROPERTY AND ITS NEW LOCATION SHOWN WITH ABBREVIATION "NLO".
- NOTE I. PROTECTION BARRIERS AROUND TREES FOLLOWING ASI AND ANSI 300, PART 5 & 6 HAVE BEEN FOLLOWED WITHIN THE SPACE LIMITS ALLOWED WITHIN THE SITE, SUCH AS EXISTING SEA WALL, ALLOWING SPACE FOR PROPOSED CONSTRUCTION INCLUDING FOOTING EXCAVATION, AND NOT ENCRDACHING INTO ADJACENT PROPERTIES.

## ABBREVIATIONS

- NLO. = NEW LOCATION  
REL. = RELOCATE WITHIN SITE  
TBR. = TO BE REMOVED  
TRE. = TO REMAIN IN CURRENT LOCATION
- # EXISTING TREE SYMBOL  
# NEW LOCATION OF EXISTING TREE SYMBOL WITHIN SITE



Know what's below  
Call before you dig.  
It's the Law!



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ARCHITECT  
AR94372

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MIAMI BEACH, FL 33140  
FOLIO # 02-3222-010-0480

DATE: 3-17-202  
DRAWN BY: JM  
REVISION: DATE:  
1 6-27-2022

LA1.0





PLANT LEGEND							
Code	Botanical name	Common name	Height	Canopy	Nat	Quantity	Specific.
TREES							
AEL	Amyris Elemifera	Torch wood tree	12' min	5' min.	Y	5	
EFO	Eugenia Foetida	Spanish Stopper	12' min	4'-5'	Y	5	4' c.t. / Tree type
EFO	Eugenia Foetida (STREET TREES)	Spanish Stopper	12' min	4'-5'	Y	2	4' c.t. / Tree type
LARGE SHRUBS/ SMALL TREES							
CER	Conocarpus erectus	Green Buttonwood	7'-8"	7'-8"	Y	8	3' c.t.
MF1	Myrcianthes fragrans	Simpson's stopper	7'-8"	3'-4'	Y	2	slender tree type
PRA	Pimenta racemosa	Bay-rum	7'-8"	7'-8"	N	12	Full to bottom
CCY	Capparis Cynophallophora	Jamaican Caper	7'-8"	3'	Y	5	48" o.c.
SHRUBS							
CIC	Chrysobalanus Icaco	Cocoplum	24"	18"	Y	101	18" o.c.
MFR	Myrcianthes fragrans	Simpson's stopper	24"	18"	Y	36	18" o.c.
PMA	Podocarpus Macrophyllus	Yew Pine	5'-6"	2'-3'	N	51	30" o.c./full to bottom
PMP	Podocarpus Mac. Pringles	Dwarf Podocarpus	12"	12"	N	42	14" o.c.
FMA	Ficus Microcarpa 'Green Island'	Green Island Ficus	12"	12"	N	50	18" o.c.
GROUND COVERS							
CEB	Carissa macrocarpa	Carissa Emerald Blanket	14"	14"	N	24	24" o.c.
TAS	Trachelospermum Jasm. Minima	Dwarf Confederate Jasm.	8"	8"	N	306	12" o.c.
TAV	Trachelospermum jasm. 'Variegatum	Variegated Confederate Jasmine	8"	8"	N	250	
GSY	Gloxinia sylvatica	Bolivian Sunset gloxinia	12"	12"	N	11	14" o.c.
BLA	Begonia 'Lana'	Angel wing Begonia	12"	12"	N	3	14" o.c.
NOB	Neoregelia 'Olens Brazil'	Neoregelia 'Olens Brazil'	12"	12"	N	4	14" o.c.
GRA	Gardenia radicans	Dwarf Gardenia	16"	16"	N	9	24" o.c.
OJA	Ophiopogon Japonicus	Mondo Grass	6"	6"	N	12	8" o.c.

CITY OF MIAMI BEACH

LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District RS-4 Lot Area: 11,030 Acres: .25

OPEN SPACE

A. Square feet of required Open Space, as indicated on site plan:

Front Yard area	922.95	1,189.00
Side Yard area	562.50	946.70
Rear Yard area (including 50% of pool)	1,411.90	1,435.20

B. Square feet of parking lot open space required by Article 9, as indicated on site plan:

Number of parking spaces N/A X 10 s.f. per parking space = N/A	N/A	N/A
--	-----	-----

C. Total square feet of landscaped open space required: A+B=

	2,896.45	4,151.30
--	----------	----------

LAWN AREA CALCULATION

A. Square feet of landscaped open space required:

	2,896.45	4,151.30
--	----------	----------

B. Maximum lawn area (sod) permitted = 60 % X 2,896.45 s.f.

	1,137.87	1,124.32
--	----------	----------

TREES

A. Number of trees required per lot = 5 for the first 6000 sq.ft

Plus 1 tree per remaining 1,000 sq. ft. = 5,030= 6

Existing trees that count toward tree requirement

	11	10
--	----	----

B. % Palms allowed: Number of trees provided x 30% =

	3	0
--	---	---

C. % Low maintenance / drought and salt tolerant required:

Number of trees provided x 50%=

	6	10
--	---	----

D. Street Trees (maximum average spacing of 20' o.c.)

98 linear feet along street divided by 20'=

	5	3 EXISTING
--	---	------------

E. Street tree species allowed directly beneath power lines:

(maximum average spacing of 20' o.c.):

115 linear feet along street divided by 20'=

	6	2 EXISTING
--	---	------------

STREET TREES NOTE: DUE TO EXISTING STREET TREES AND FPL POLE AND ANCHORS THERE IS NOT ENOUGH SPACE TO SATISFY STREET TREE REQUIREMENT.

SHRUBS

A. Number of shrubs required: Sum of lot and street trees required x 12=

	264	280
--	-----	-----

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

	132	137
--	-----	-----

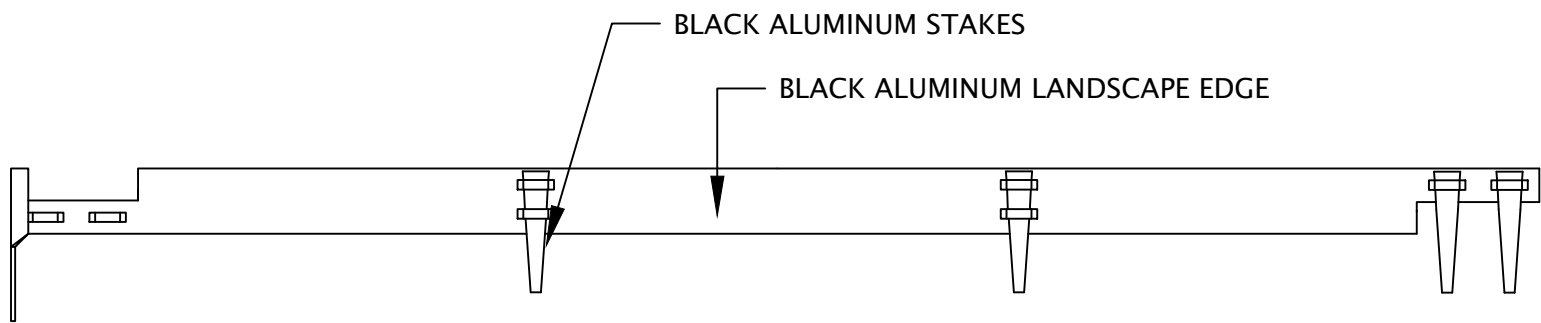
LARGE SHRUBS OR SMALL TREES

A. Number of large shrubs or small trees required: Number of required shrubs x 10%=

	27	27
--	----	----

B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=

	14	15
--	----	----



LANDSCAPE EDGING ELEVATION

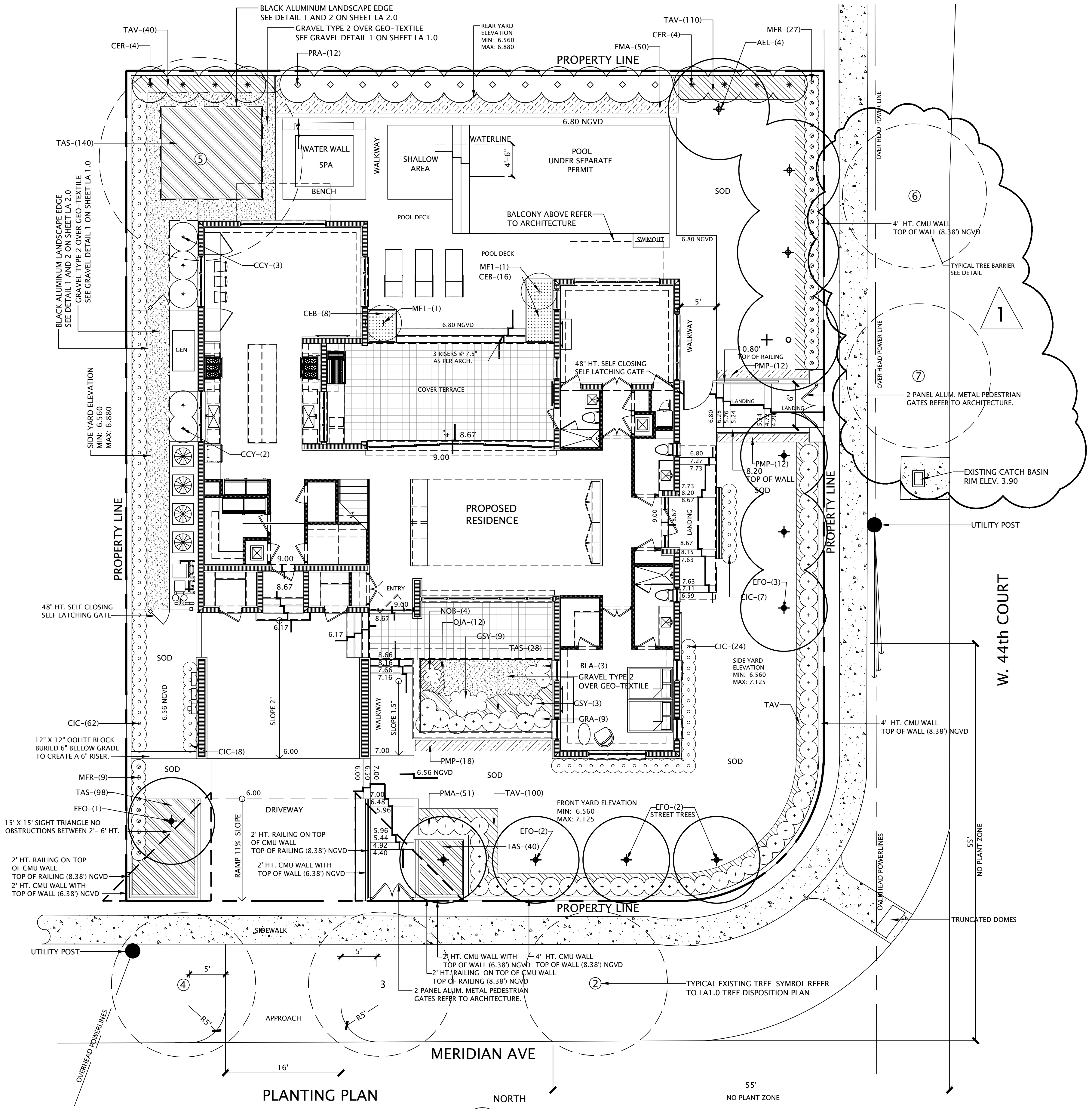
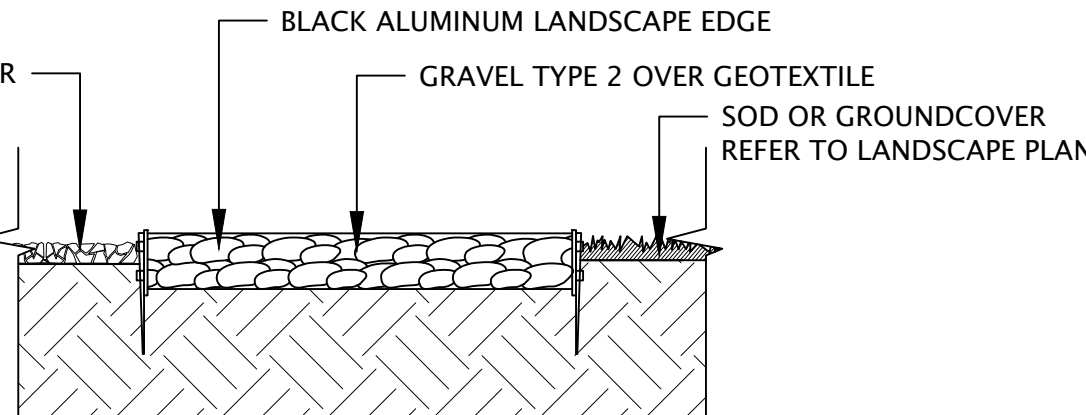
SCALE: 1/2" = 1'-0"

2

1

LANDSCAPE EDGING DETAIL

SCALE: 1/2" = 1'-0"



PLANTING PLAN

SCALE: 1/8" = 1'-0"

REFER TO SHEET LA 2.1 FOR

SCALING NOTES AND DETAILS

SCALE: 1/8" = 1'-0"

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800 W 44TH COURT  
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FOLIO # 02-3222-010-0480

DATE: 3-17-2021  
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LA2.0



No Cypress variety palm shall extend under all trees, shrubs and ground cover beds to the closest hard edge or sod border, in a minimum of 3" depth. Red or any other colored mulch will not be acceptable.

02. All plants shall meet the minimum standard of "Fancy" as specified in Grade and Standards for Nursery Plants as published by the Division of Plant Industry, Florida Department of Agriculture, latest edition. If in doubt, a private professional shall be appointed by Landscape Architect to provide a final and conclusive grading of the plant material.

03. All shrubs to be planted a minimum of 24", and ground covers a minimum of 12" from the edge of any hardscape (walks, buildings, walls, pond's edge, etc...) Shrubs such as *Korua*, *Raphiolepis* and other species which grow larger than 48" spread, shall be planted at 1/2 the estimated adult's spread diameter from the edges of any hardscape.

04. All trees and palms over 8' in height shall be braced to prevent lateral movement for a period of six months from the date of planting. Either wood braces as shown in the planting detail, or the wire and turnbuckle method shall be used. No nails, screws, metal straps or wires are to be used directly against the trees or palms trunks.

05. All palms except for species such as *Cocos*, *Acroelaphora*, *Raphis*, and other one-trunk palms, shall have straight trunks. No curved or arched trunks will be acceptable. All palms trunks shall be free of scars, decay or any damage caused by digging.

06. All work by the Landscape Contractor shall be performed in a professional and sound manner in accordance with established standards of landscape installation practices and workmanship.

07. Landscape Contractor is responsible for verifying & counting all plant quantities prior to bidding. Individual quantities by areas shall prevail over the quantities shown in Legend. Plant Legend is shown mainly to identify the different species and quantities are shown as an aid, not a certified count. Therefore it shall be Landscape Contractor's responsibility to supply the required quantity of plant material specified for each area, regardless of the quantity shown in the Legend. Quantities shown in the plans may vary due to actual site scale, job conditions etc... Landscape Architect assumes no responsibility for the actual quantity necessary for the successful completion of the project. Any excess quantity of plant material specified which does not fit into the area for which it was called for, should be credited to the Owner.

08. Landscape Contractor and his subcontractors shall be licensed and insured as required by the municipality, county, state or any other governmental agency requiring a license or insurance in order for the Landscape Contractor to perform his work.

09. All work shall conform to the City of Miami Beach landscape ordinances and any other landscape ordinance in effect at the project's location.

10. Landscape Contractor is required to procure and obtain any necessary permits applicable for the successful completion of this project, if applicable.

11. Landscape material shall not be allowed to grow in such a manner as to impede street front triangle of visibility to property owner or neighbors, so as to materially impede vision between a height of 2.5 feet and 6 feet.

12. Landscape Contractor shall call Sunshine State One Call Center of Florida at 1-800-432-4770 (Toll Free) 48 hours before digging.

13. Landscape Contractor is responsible for inspecting the site and physically observing all the site conditions prior to entering into Agreement or Contract with Owner. Landscape Contractor shall coordinate his work with the General Contractor or Construction Manager in such a manner as to allow for a speedy and orderly completion of all work on the site, and special attention to location of all underground wires, pipes, footings, etc...

14. Any excess soil, landscape materials and debris from the Landscape Contractors' work shall be removed from the site immediately upon completion of his work.

15. Should Landscape Contractor find any discrepancies, unavailability of material or any question regarding the adherence to this plan, no decision shall be taken without specific consultation with the Landscape Architect, including substitutions when required. Landscape contractor shall not make any unauthorized substitutions of either species, quality or size of any plant material without Landscape Architect's authorization.

16. All areas not planted with shrubs or ground covers or specified to be another landscape material such as mulch, bark, stones, etc... is to be covered with sod, inclusive of areas in the Right of way between edge of city or community pavement or curb and property line and/or sidewalks.

17. All retaining walls and/or type of specified retaining walls, are to be placed by Landscape Contractor according to space allowed and slope requirements with prior on site consultation with Landscape Architect. They are to be placed taking into consideration existing site conditions and plant root balls requirements. Landscape Contractor shall spray mark the location of proposed walls and obtain Landscape Architect approval for proposed locations prior to digging trenches for retaining walls.

18. Landscape Contractor shall coordinate all of his planting in raised planters or any planting areas requiring water proofing or any other special applications, as well as any and all hardscape and paving specifications and construction details with the General Contractor. These specifications and details are not part of the Landscape Architect's scope of work.

19. Landscape Contractor shall coordinate digging, planting and bracing of all plant material within the Project with the General Contractor and the Owner, particularly those in which a conflict with pedestrian or vehicular traffic may arise as a result of planting. Landscape Contractor shall coordinate with the General Contractor to coordinate the planting and bracing of any of the large plant material ahead of time to allow for removal of braces at time of certificate of completion or opening of Project, as per "Owner's" instructions and deadlines.

20. Trees to be planted within existing hedges are to be planted without disturbing the appearance of the existing hedges. Landscape Contractor shall inspect the health condition of all existing plant material to remain prior to bidding and prior to commencement of works to verify they are in good healthy conditions. If not in adequate conditions to remain, Owner shall be informed immediately for proper instructions on how to proceed.

21. Any existing plant material destroyed or damaged during construction shall be replaced with the same species, and Owner be reimbursed for the reason, species and quantity destroyed or damaged for proper reimbursement, if any.

22. Contractor shall prior to planting, provide photos of all plant material marked with a "P" in the Plant Legend's column shown as Note 22, or described as a specimen plant material for landscape architect approval. Regardless of photo approval and specification in plan or legend, Landscape Architect has the right to refuse any plant material not considered Florida Fancy. If in doubt of grading quality, refer to Note 2 of this notes.

23. Where arrows are shown next to palms such as e.g. coconuts (CNU) they show the curvature direction, if no arrow is shown then a straight trunk is desired. Under no circumstance shall the trunk of a palm or tree interfere with vehicular or pedestrian traffic. This note applies to projects where palms are specified.

24. All trees to be planted shall be specified as to trunk size in the plan, palms specified at a given trunk height (e.g. 16' c.t. (clear trunk)) are to be considered specified at the height size specified in the plan and prevail over the plant legend.

25. Landscape Contractor shall request written specifications from Landscape Architect prior to entering in to contract with owner and attach a copy to contract. Non compliance of this note does not relieve Landscape Contractor of all requirements included in the written specifications.

26. By accepting this plan, and submitting it to the municipal authorities or any other building and zoning authority, Owner releases and Holds Landscape Architect Harmless from any legal responsibility as a consequence of any legal actions arising from the selection, installation, maintenance, natural plant material growth habit, such as falling fronds, seeds, branches, etc. of the landscape and planting materials specified in this plan.

27. If the Landscape Contractor intends to plant any plant material with any specific plant material, he shall propose one (or several) as alternate to Landscape Architect, and obtain final decision from Landscape Architect as to specie to be used.

28. This plan and the written specifications together are the landscape construction documents to be used for bidding and construction purposes.

29. Landscape contractor shall verify, if due to architectural revisions or site conditions, if the dimensions of any hardscape has changed and how this affects the area for a specified plant material. One example is Medjool Date Palms need to be planted in no less than a clear 60 inch by 60 opening, preferably more. It shall be the Landscape contractor's responsibility to verify this before bringing the plant(s) to the site. Another example is the minimum five feet width dimensions in parking lot islands.

30. In absence of landscape contractor or a designated supervisor of the landscape contractor at the work site, landscape architect shall have the right to provide instructions to landscape contractor's or his subcontractor's employees regarding the installation of the works specified in this plan if in his opinion work is not being performed as specified.

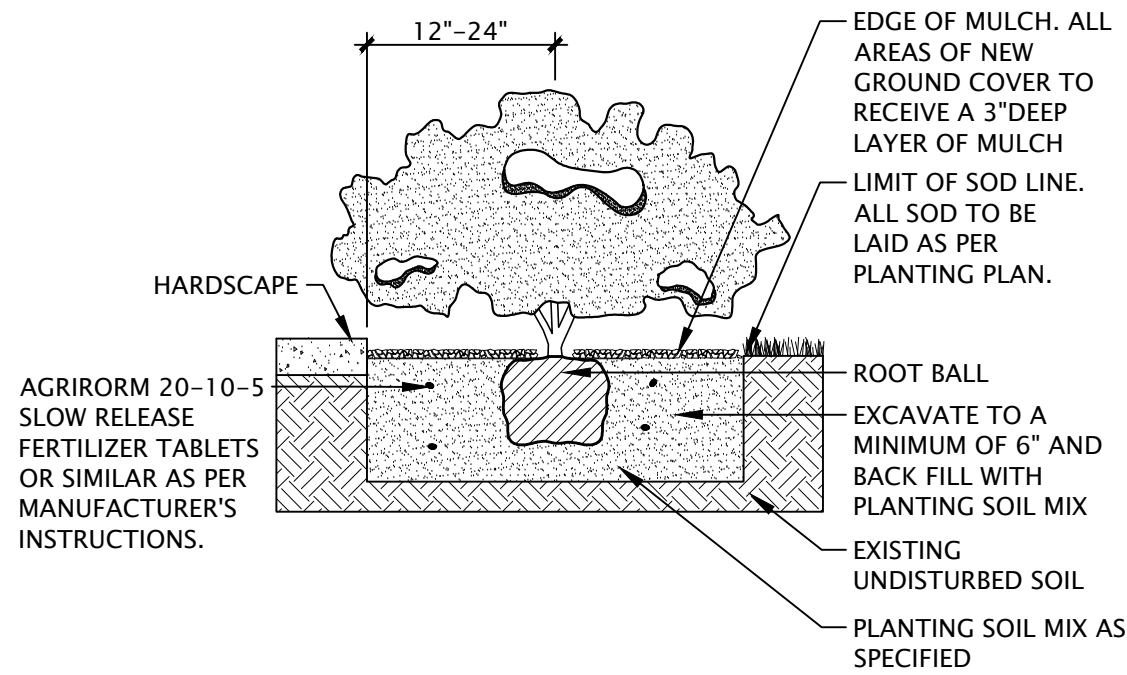
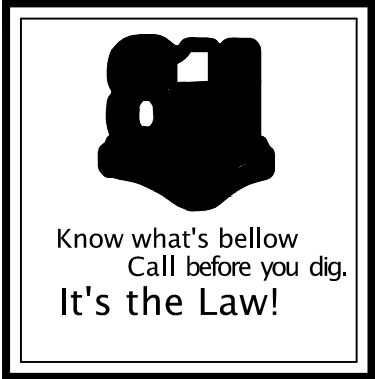
31. Street trees are placed inside of property as approved by code. If *Roystonia Regia* specified is not available at clear trunk specified, Owner may without additional City revision substitute such palms for other palms such as *Thrinax radiata*, *Coccothrinax miraguama*, *Phoenix sylvestris* or other available palms.

32. All vines require a structure for them to grow into which shall be supplied by landscape contractor and included as part of the construction documents.

33. Landscape Contractor shall coordinate this plan with, notes, details and specifications in this sheet, grading plan, irrigation plan and lighting plan. All landscape sheets are part of the construction documents for this project. It shall be the general contractor and/or landscape contractor's responsibility to read and understand all the information contained in this sheet including plan, details, legend and notes in all the sheets of the landscape plan set.

34. All plant material shall be guaranteed for a minimum period of one year from date of installation.

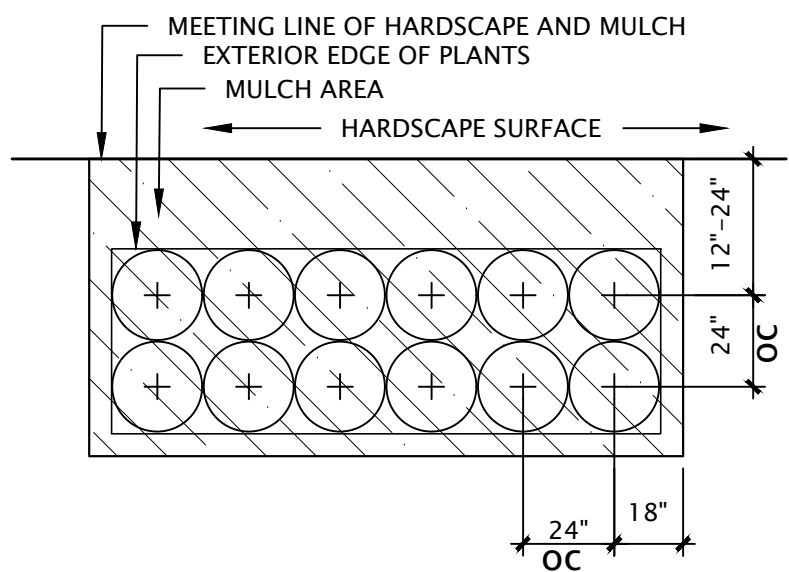
G.T.=Gray Trunk.  
C.T.=Clear Trunk.  
O.C.=On Center.  
B&B=Balled and Burlaped.  
O.A.=Overall Height.  
SPD=Spread.  
NAT.=Native specie.  
g.w.=Gray Wood  
min.=minimum



N.T.S.

NOTE 1: SPACING BETWEEN PLANTS O.C.

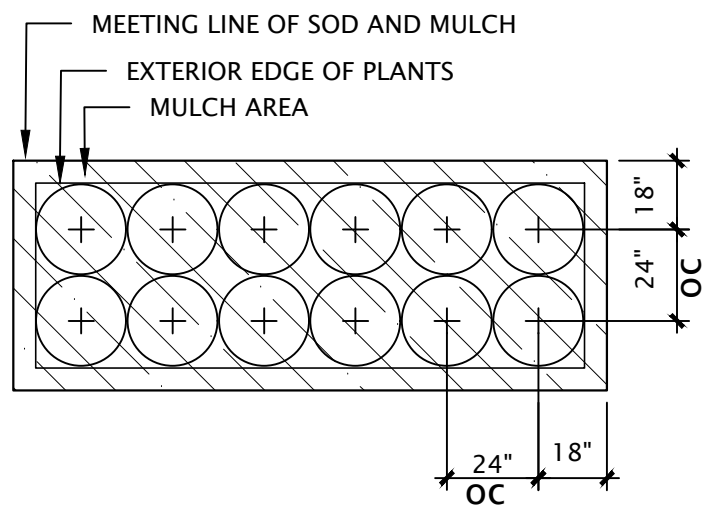
NOTE 2: SPACING TO HARDSCAPE EDGE TO BE SAME AS SPACING BETWEEN PLANTS AS PER PLANT LEDGED



N.T.S.

NOTE 1: "O.C." WILL DEPEND ON SPECIFIED O.C.(ON CENTER) PLANTING DISTANCE IN PLANT LEGEND, OR AVERAGE ADULT PLANT SIZE. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.

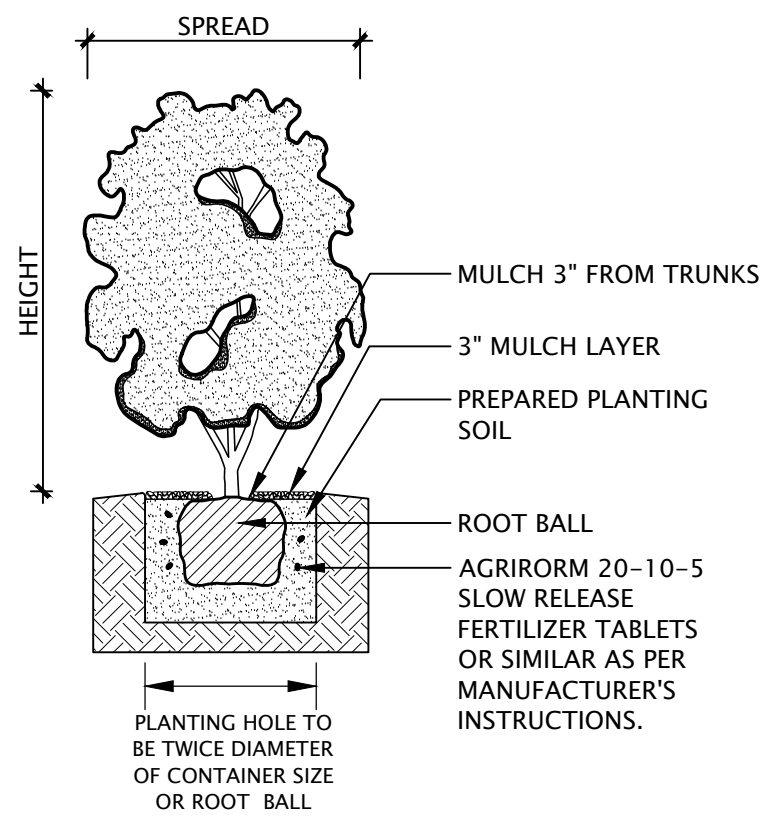
NOTE 2- SPACE BETWEEN EDGE OF PLANTS AND BORDER OF HARDSCAPE SURFACE WILL DEPEND ON SPECIE OF PLANT. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.



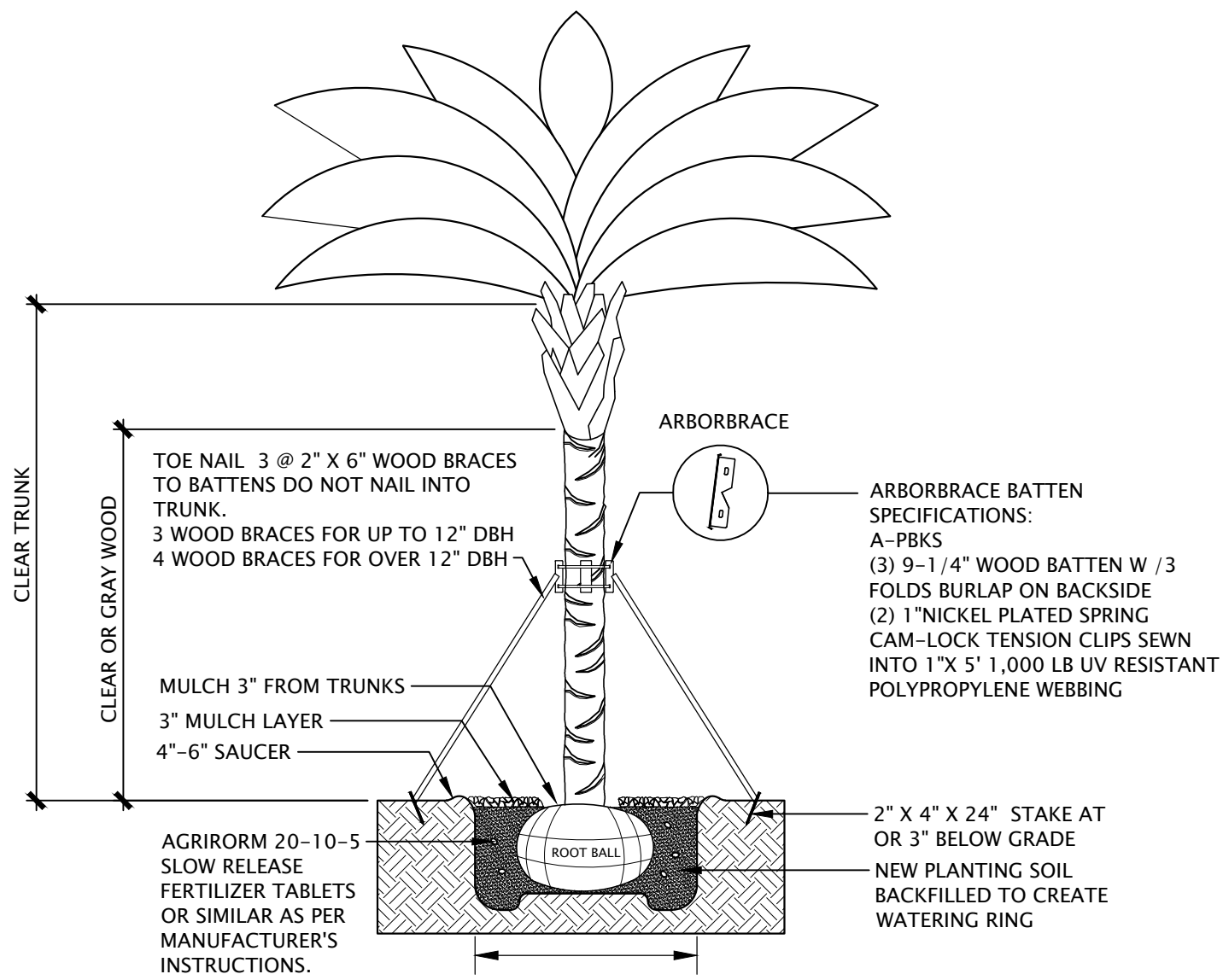
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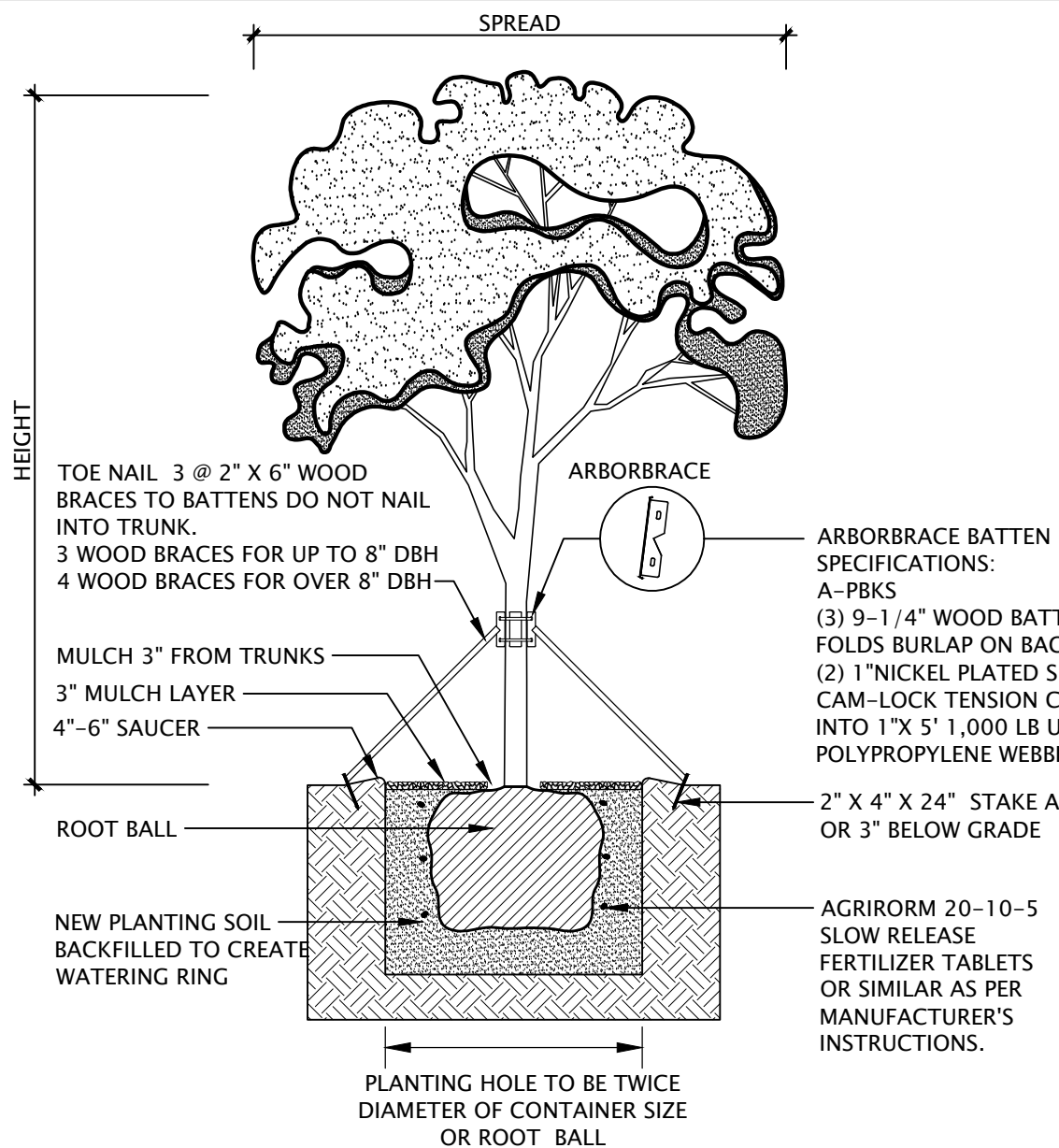
NOTE 2: SPACE BETWEEN EDGE OF PLANTS AND BORDER OF HARDSCAPE SURFACES WILL DEPEND ON SPECIE OF PLANT. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.



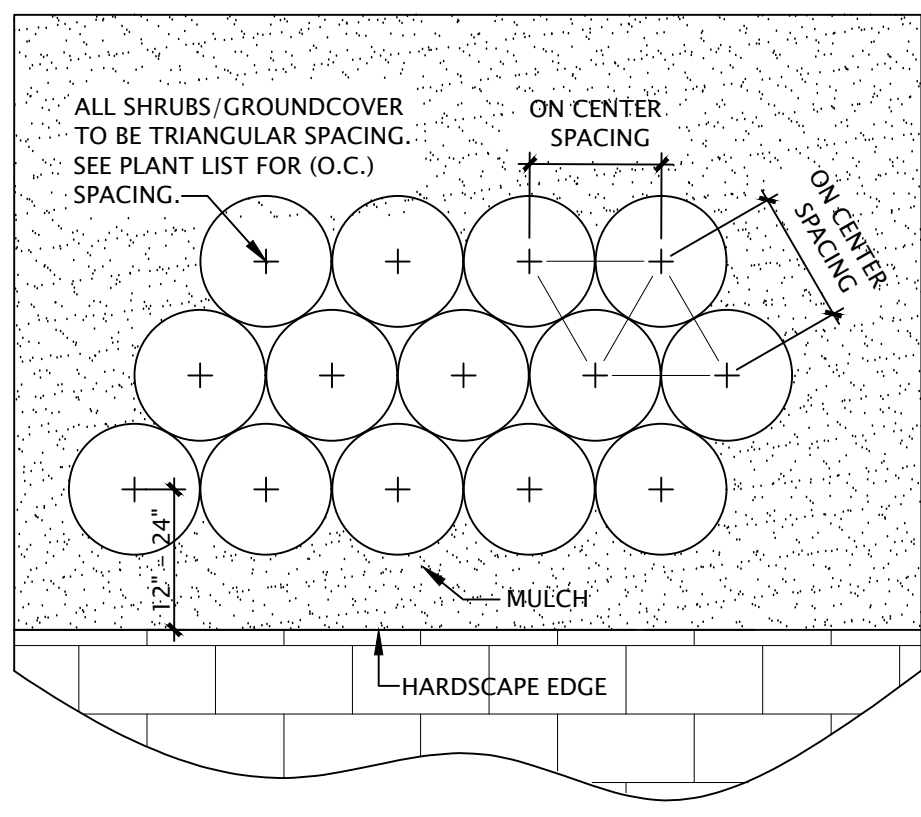
N.T.S.



N.T.S  
NOTE 1: ALL BRACING COMPONENTS BY ARBORBRACE OR SIMILAR.  
NOTE 2: LANDSCAPE ARCHITECT MAY REQUIRE ADDITIONAL BRACING TO THOSE SHOWN IN DETAILS, AS PER SITE AND SOIL CONDITIONS AND HEIGHT OF PALMS



N.T.S  
NOTE 1: ALL BRACING COMPONENTS BY ARBORBRACE OR SIMILAR.  
NOTE 2: LANDSCAPE ARCHITECT MAY REQUIRE ADDITIONAL BRACING TO  
THOSE SHOWN IN DETAILS, AS PER SITE AND SOIL CONDITIONS AND  
HEIGHT OF PALMS



N.T.S.  
NOTE 1: SPACING BETWEEN PLANTS O.C.  
NOTE 2: SPACING TO HARDSCAPE EDGE TO BE SAME AS SPACING BETWEEN  
PLANTS AS PER PLANT LEDGED

A. Establishment :  
Trees and shrubs shall be provided with regular irrigation after transplanting within site, planting from a field grown nursery or planting from a container to fully establish the development of the root system in the landscape soil. Trees shall be irrigated through the entire establishment period.  
B. Irrigation:  
Irrigation during the establishment period. Following the initial few months of frequent irrigation, provide weekly irrigation until plants are fully established. At each irrigation, apply about 2 to 3 gallons of water per inch of trunk diameter (e.g. 4-6 gallons for a 2-inch tree) over the root ball.  
C. Irrigation Scheduling for Recently Planted Trees:  
Based on University of Florida, Institute of Food and Agricultural Sciences data by Dr. Edward F. Gilman, Ideal irrigation schedule for quickly establishing trees in well-drained sites: Daily for 2 months, then 3 times a week for 3 months, then weekly until established. Based on this and other specific Florida Standards data, we specify the following irrigation schedule:

C.1. 2 inch caliper trees:  
Daily for 2 weeks; every other day for 3 months; three times weekly for six months. Twice weekly once fully established and landscape installation has been completed.

C.2. 2-4 inch caliper trees:  
Daily for 1 month; every other day for 3 months; twice weekly for six months. Twice weekly once fully established and landscape installation has been completed.

C.3. 4 or more inch caliper trees:  
Daily for 6 weeks; every other day for 6 months; twice weekly for nine months. Twice weekly once fully established and landscape installation has been completed.

D. Trees Fertilization

A complete fertilizer with a salt index of less than 50, shall be applied on top of the root ball and backfill soil at planting. Fertilizer shall be applied according to manufacturer's directions. It shall have a ratio of approximately 3:1:2 or 3:1:3 (i.e. 15-5-10 or 15-5-15) of nitrogen, phosphorus pentoxide (P2O5), and potassium oxide (K2O). Fertilizers that are "slow-release," "controlled release," sulfur coated, or with nitrogen as IBDU or ureaformaldehyde have extended release periods compared to fertilizers that are readily water soluble. Thirty to fifty percent of the nitrogen should be water insoluble or slow-release. Fertilizer shall be applied to established trees every three months until landscape installation of the project has been completed or one year from planting. Established trees which have been planted one year or more and growing in landscaped areas where turf and shrubs are fertilized do not need additional fertilizer. Their root systems will extend throughout the landscape past the edge of the tree canopy and receive nutrients when these areas are fertilized. Supplemental applications may be needed for some trees because of nutrient deficiencies. After landscape installations have been completed, steps to resolve these deficiencies with appropriate treatment, shall be performed when observed by maintenance personnel.

E. Shrubs Fertilization

A complete fertilizer slow release fertilizer as described above for trees, such as 15-5-10 to shrubs and ground cover beds at a rate of 3-5 pounds N/1000 square feet/year or as per manufacturer's recommendations.

**F. Palms Fertilization**  
Palms should be fertilized with an 8-2-12-4 Mg plus micronutrient, with 100% of N, K and Mg in controlled release form, such as Micromon Palm Special, following manufacturer's instructions. Do not use turf fertilizer with high N and water soluble K within 50 feet of any palm.

**G. Turf Fertilization**  
Fertilization guidelines for established turfgrass lawns in South Florida, applied in two applications generally in February and October, as follow:

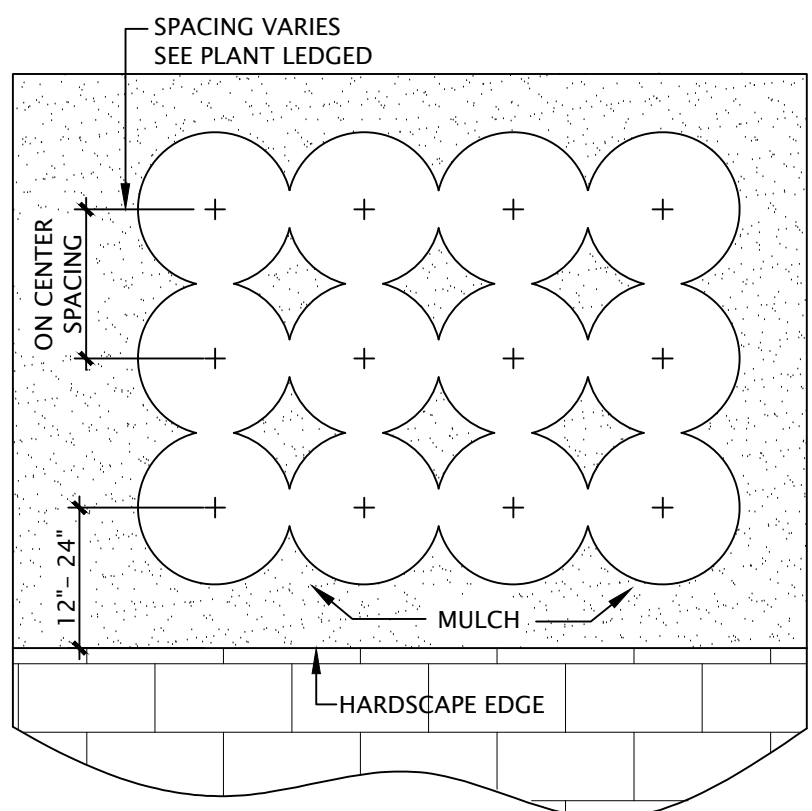
G, I, Species	Nitrogen recommendations (lbs. N/ 1000 sq. ft/ year)
Bahiagrass	2-4
Bermudagrass	5-7
Centipedegrass	2-3
St. Augustinegrass	4-6
Zoysiagrass	4-6

**H. Additional Fertilization Guides**  
**Fertilization Guides** is a complex issue within the landscape. In addition to the basic guidelines shown in this sheet, landscape contractor and/or landscape maintenance companies shall, prior to any fertilization application, read the Florida Nursery and Growers Association, and University of Florida, Florida Cooperative Extension Service, Fertilization recommendations and guidelines on fertilization.  
**I. General Tree Establishment Guides**  
Based on University of Florida, Institute of Food and Agricultural Sciences by Dr. Edward F. Gilman. Ideal irrigation schedule for quickly establishing trees in well-drained sites:  
For the first 3 months, water for 3 months, then, weekly until established. Research indicates that establishment time for container-grown trees can be 1 to 2 months per inch of trunk diameter.

Average length of tree establishment period in South Florida as per University of Florida (IFAS) :














Under 2" diameter trunk:	2-4 months
2" to 4" diameter trunk:	5-9 months
over 4" diameter trunk:	10+ months

These guidelines have been researched in documents provided by , Institute of Food and Agricultural Sciences, EDIS which were based on the following research: Beeson and Gilman 1992; Gilman et al. 1994; Gilman and Beeson 1996; Gilman et al. 1996; Gilman 2001; Gilman et al. 2002; Gilman et al. 2010; Harris and Gilman 1993; Watson and Himelick 1982. As well as to Miami-Dade County's publication Guide to Tree Planting and Maintenance.













N.T.S.  
NOTE 1: SPACING BETWEEN PLANTS O.C.  
NOTE 2: SPACING TO HARDSCAPE EDGE TO BE SAME AS SPACING  
BETWEEN PLANTS AS PER PLANT LEDGED

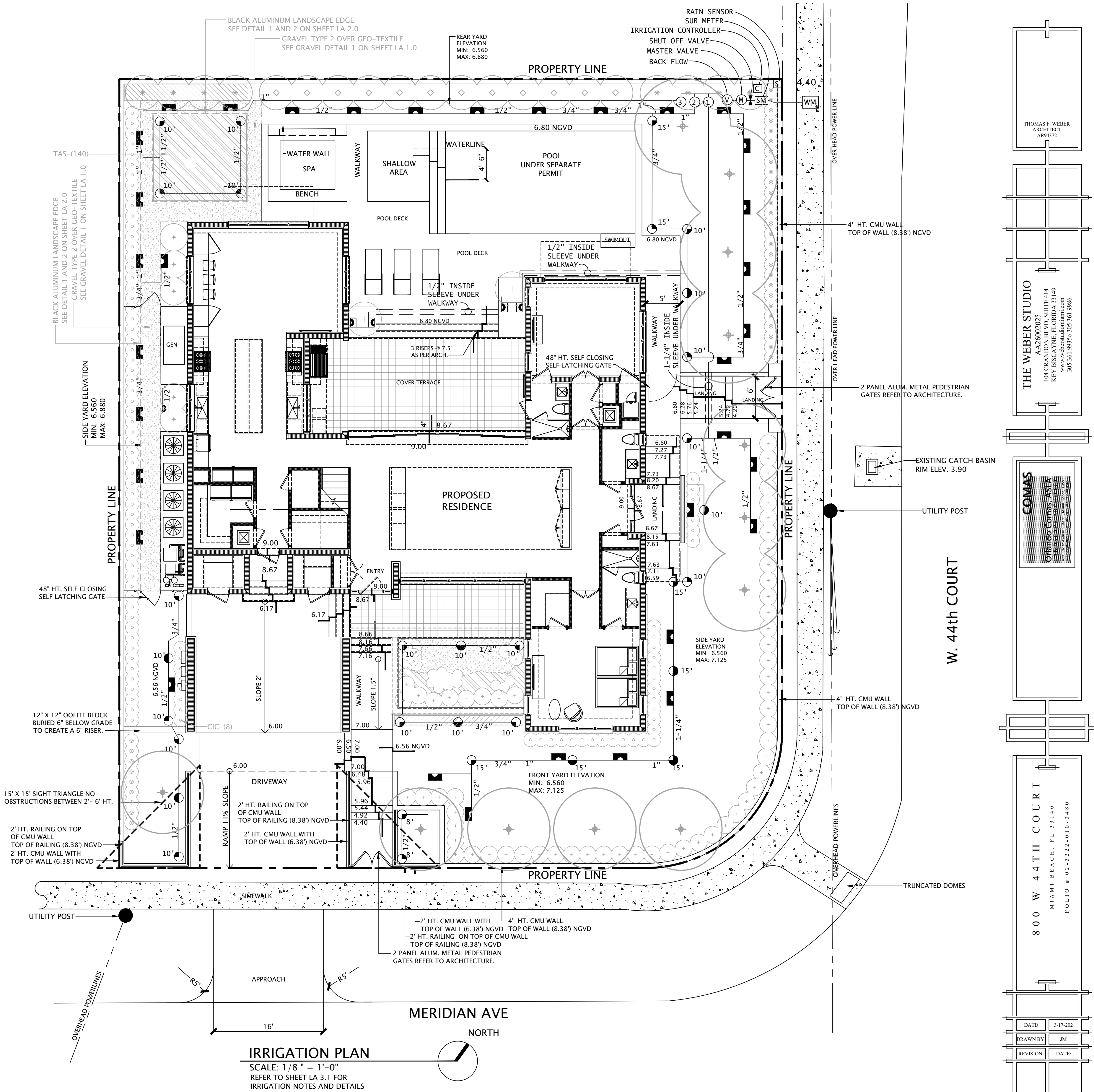


SPRINKLER HEADS LEGEND										
SYMBOL	BRAND	MODEL BODY	RISER	NOZZLE	SPRAY ARC OR SPECIAL PATTERN	DESC.	DESIGN PRESSURE	FLOW G.P.M	PRECIPIT. RATE	
	TORO	570ZXF	6"-12"	MPR Plus	5' X 18'	4-EST	40. PSI	.53	1.13	
	TORO	570ZXF	6"-12"	MPR Plus	4' X 19'	4S-SST	40. PSI	.63	1.60	
	TORO	570ZXF	6"-12"	MPR Plus	2' X 7'	2-SST	40. PSI	.10	1.38	
	TORO	570ZXF	6"-12"	MPR Plus	9' X 20'	9-SST	40. PSI	1.38	1.48	
	TORO	MINI 8	4"	.75-3.0	20-34' ADJUSTABLE	-	40. PSI	0.9-3.0	.38-.48	
	TORO	MINI 8	4"	.75-3.0	20-34' ADJUSTABLE	-	40. PSI	0.9-2.6	.38-.48	
	TORO	MINI 8	4"	.75-3.0	20-34' ADJUSTABLE	-	40. PSI	0.9-2.6	.38-.48	
	TORO	MINI 8	4"	.75-3.0	20-34' ADJUSTABLE	-	40. PSI	0.9-2.6	.38-.48	
	TORO	570ZXF	6"-12"	MPR Plus	5'r-15'r	90°	5Q-15Q	40. PSI	0.12-1.04	1.54-1.57
	TORO	570ZXF	6"-12"	MPR Plus	5'r-15'r	180°	5H-15H	40. PSI	0.23-2.02	1.70-1.77
	TORO	570ZXF	6"-12"	MPR Plus	5'r-15'r	270°	5TQ-15TQ	40. PSI	0.34-3.00	1.78-1.86
	TORO	570ZXF	6"-12"	MPR Plus	5'r-15'r	360°	5F-15F	40. PSI	0.45-4.20	1.66-1.84
	TORO	FB-25-PC	6"-12"	MPR Plus	BUBBLER	-	40. PSI	.25		
NUMBER NEXT TO SYMBOL DENOTES SPRINKLER RADIUS										

EQUIPMENT NOTES:  
1. EQUIPMENT MOUNTING:  
IRRIGATION EQUIPMENT ARE TO BE LOCATED NEXT TO WATER SUPPLY AS SHOWN IN PLAN. THE EQUIPMENT, SHOWN IN PLAN AND TYPICAL ELECTRICAL SCHEMATIC DIAGRAM SHALL BE MOUNTED ON THE BUILDING WALL OR ON A UNISTRUT FRAME SET INTO A 16" X 10" DEEP CONCRETE FOOTING X 6" LONGER THAN BOTH ENDS OF THE UNISTRUT STRUCTURE'S LENGTH.  
2. WORK PERFORMANCE:  
ALL ELECTRICAL WORK TO BE PERFORMED BY A LICENSED AND INSURED ELECTRICAL CONTRACTOR, IN STRICT COMPLIANCE WITH ALL SECTIONS OF ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.  
3. EQUIPMENT BUFFER.  
PLACE EQUIPMENT IN A LOCATION WHICH CAN BE BUFFERED WITH PLANT MATERIAL.

STATIONS	FLOW RATE
1	20.86
2	12.12
3	12.10

IRRIGATION EQUIPMENT LEGEND			
Code	Brand	Description	Size
	TORO	TMC-212-OD Controller	As Required.
	TORO	Rain Sensor Model TRS	N/A
	TORO	Series 252 Electric Valves	As required.
		Well	
	TORRO	Backflow Preventer	As required.
		Pump Relay	N/A
	-	Self-Priming, Single Phase Electric Pump	55 G.P.M
	-	Schedule 40 PVC Pipe - Main Line	As shown
	-	Class 200 PVC Pipe - Lateral Lines	As shown
	-	Schedule 40 PVC Pipe - Sleeves	As required
Note: Irrigation Contractor may substitute the brand name specified for another brand, however, the same performance is required for each substitution. Irrigation Contractor shall verify the G.P.M. discharge requirements for the irrigation pump, it shall meet the individual stations flow requirements, considering friction losses.			
NUMBER NEXT TO SYMBOL DENOTES SPRINKLER RADIUS			



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DATE: 3.17.202  
DRAWN BY: JM  
REVISION: DATE:

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GENERAL LANDSCAPE LOW VOLTAGE LIGHTING SPECIFICATIONS

01. DESCRIPTION

This descriptions specify the furnishing, installation, and connection of exterior landscape uplight lighting fixtures, landscape below grade lighting fixtures, path lighting fixtures, and step lights and their mounting methods. The terms "lighting fixtures", "fixture" and "luminaire" may be used interchangeably.

02. DIRECT BURIAL CABLE.

Cabling shown on plan is for fixture grouping only. Cable to be circuited and sized to provide a minimum of 10.5 volts and a maximum of 11.5 volts to all lighting fixtures. Refer to manufacturer's guidelines included with the transformer. Minimum underground low voltage cable shall be 10-gauge multi-strand direct burial. Install cable along the edge of hardscape and mowstrips whenever possible. Minimum cable depth is 8" Contractor is to install 1" PVC chase line sleeves with sweep corners for any cable run under hardscape or difficult to access areas such as at grade decks and high impact areas such as color planters that receive seasonal color changes. Leave 24" loops at all fixture locations for final adjustment. All wire junctions shall be waterproofed with watertight connectors or approved equal. Only fully encapsulated waterproof connectors rated for direct burial will be accepted. Black-taped connections will be rejected.

03. FIXTURE LOCATION. Verify exact location with Landscape Architect before commencing installation. All fixtures shall be in a new, unused condition. Equipment shall be the type specified-there will be no substitutions without prior approval front Landscape Architect. Install all equipment as per manufacturer's specifications and details.

04. TRANSFORMERS. Shall be stainless steel One Tap sized to be 100% loaded on 100W and 300W transformers and 80% loaded on 500W or larger transformer. Transformers to be installed inconspicuously using plant material or site features to obscure a direct view of their locations. Avoid locations that are easily accessible to children or that are in a direct path of irrigation water. Install transformers 12" off finish grade and level. All wires leading to or from transformer shall be in conduit sleeve that is firmly affixed to mounting surface. All junction boxes and other equipment shall be UL approved for wet location. Paint any necessary junction boxes or conduit to match the surface on which they are mounted. Install transformers according to manufacturer's specifications and local codes. All exposed metal parts including transformers shall be permanently grounded in accordance with the National Electrical Code. Specified transformers are magnetic transformers. Brand can be altered by installer subject to proposed transformer meets same specification.

05. TRELLIS LIGHTING. Verify final fixture location prior to installation. All wiring shall be concealed from primary view by routing out trellis posts or by other methods approved by Landscape Architect. All equipment shall be painted if necessary as specified or directed by Landscape Architect to match the surface on which it is mounted.

06. TREE LIGHTING.

No cables or fixtures shall be attached to tree trunks unless specified with special accessories in the landscape lighting plan.

07. TESTING.

Contractor is to coordinate a convenient time in the evening to test and aim all equipment to the satisfaction of the Landscape Architect and Client (Owner).

08. Guarantee: Upon completion and acceptance of the described work, the Contractor shall provide a guarantee for all workmanship and equipment for the period of one year from the date of acceptance. All warranty service work shall be performed at no cost to Owner and be done on site when possible.

09. CALL 811 BEFORE DIGGING. IT IS FLORIDA LAW.

10. ELECTRICAL ENGINEERING COORDINATION.

Landscape lighting plan shall be coordinated by Project's Architect with Electrical Engineer so that line voltage outlets for transformers connections are placed as per landscape lighting plan or as a location agreed with landscape architect. Contractor installing the landscape lighting system shall coordinate with general contractor and Owner the landscape lighting controlling methods including on/off timing and days of the week.

11. SMART HOME AUTOMATION SYSTEM.

If project (residence) electrical is to be controlled by a smart home automation system, electrical engineer, automation system contractor/designer shall coordinate with general contractor and Owner the landscape lighting design system operation.

12. SUBSTITUTIONS.

Should any of the landscape lighting system components require substitution, a substitution shall be provided that meet the same performance as specified in this plan, with landscape architect's approval.

13. INSTALLATION.

Installation of all landscape lighting system components including lighting fixtures, wiring, mounting posts, transformers and any other component is to be installed in accordance with the NEC, as shown on the drawings, and in accordance with manufacturer's recommendations.

14. GROUNDING.

Ground noncurrent-carrying parts of equipment, including metal poles, luminaires, mounting arms, brackets, and metallic enclosures. Where copper grounding conductor is connected to a metal other than copper, provide specially-treated or lined connectors suitable and listed for this purpose.

15. APPLICABLE PUBLICATIONS.

Publications listed below (including amendments, addenda, revisions, supplements, and errata) form a part of this specifications to the extent referenced. Publications are referenced in the text by designation only.

A. American National Standards Institute (ANSI)

B. American Society for Testing and Materials (ASTM)

C. Illuminating Engineering Society of North America (IESNA)

D. National Electrical Manufacturers Association (NEMA)

E. Underwriters Laboratories, Inc. (UL)

16. GENERAL REQUIREMENTS

A. Lighting materials and equipment shall be in accordance with NEC, UL, ANSI, and as shown on the drawings and specified.

B. Provide manufacturer's standard finish, as scheduled on the drawings. If not available, consult with landscape architect.

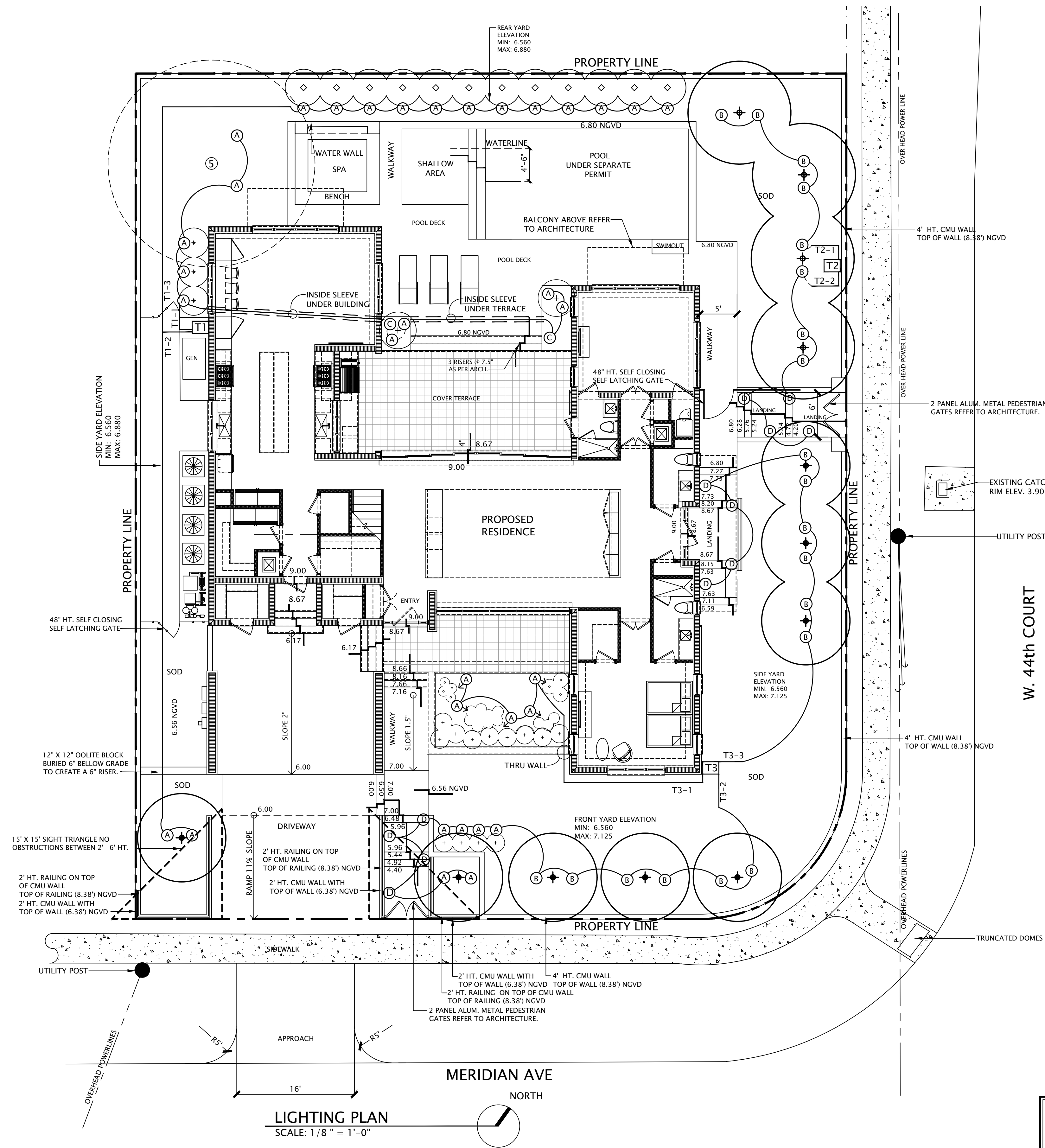
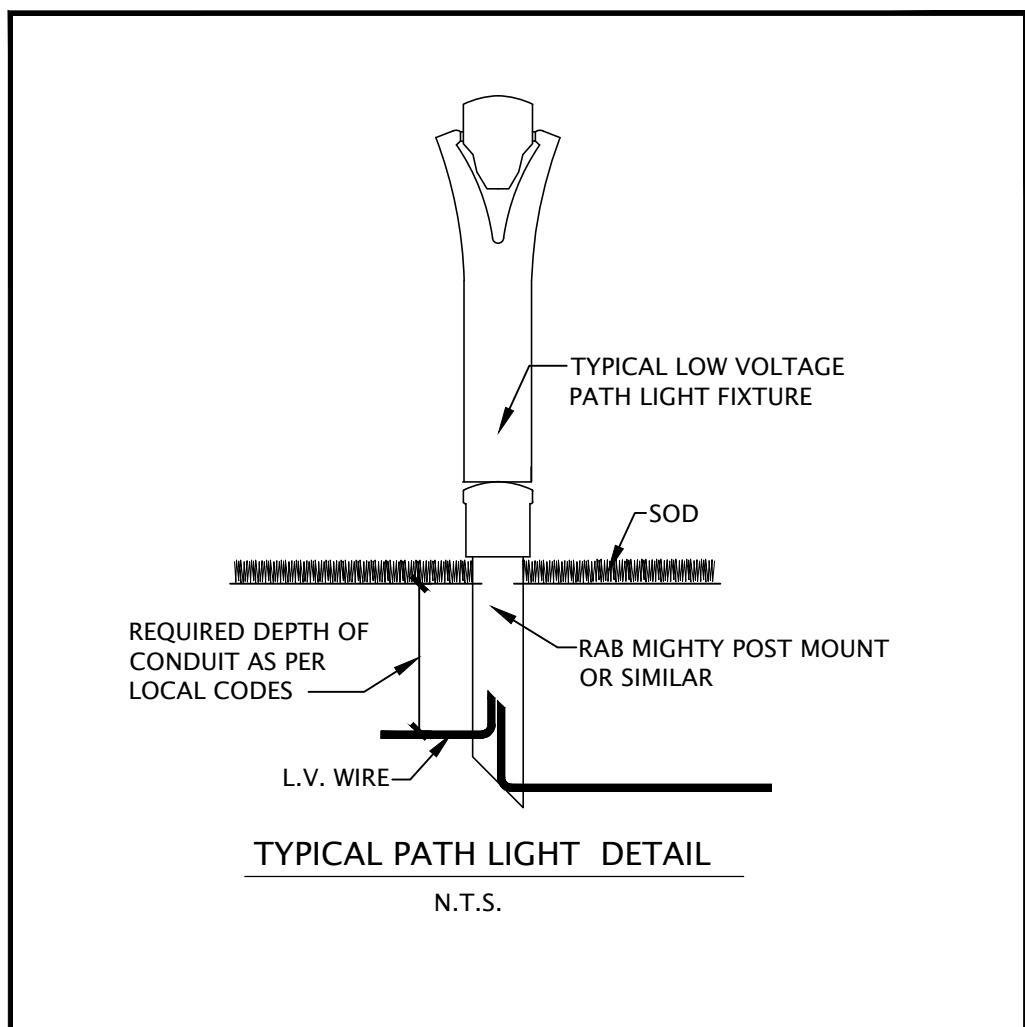
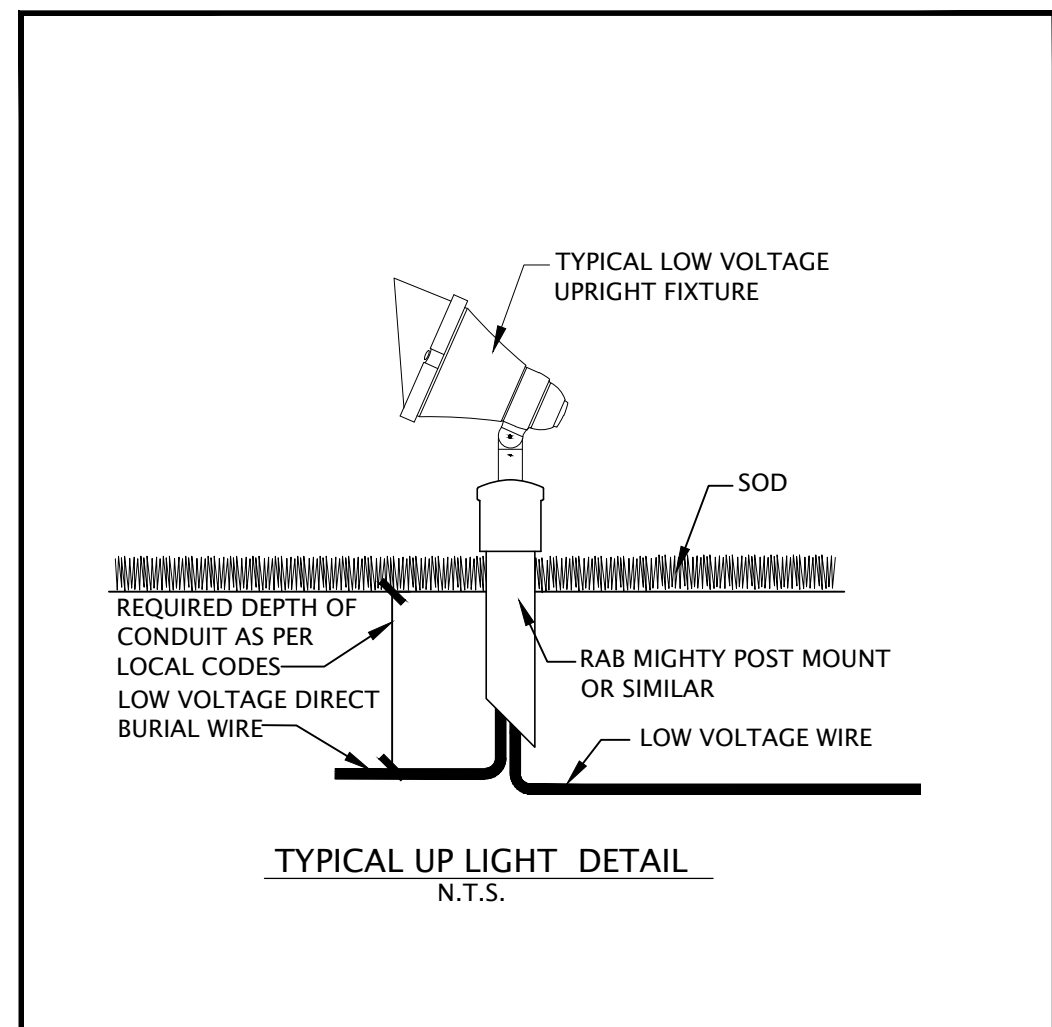
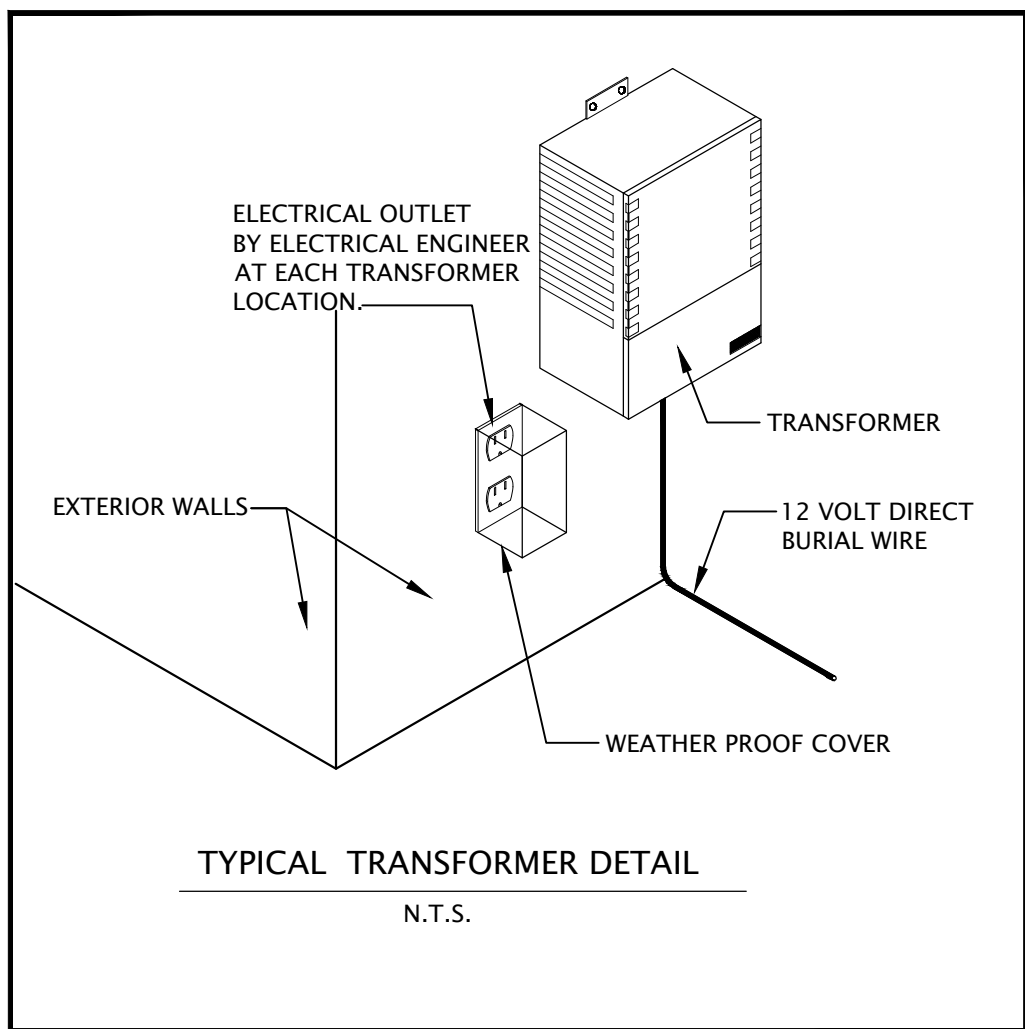
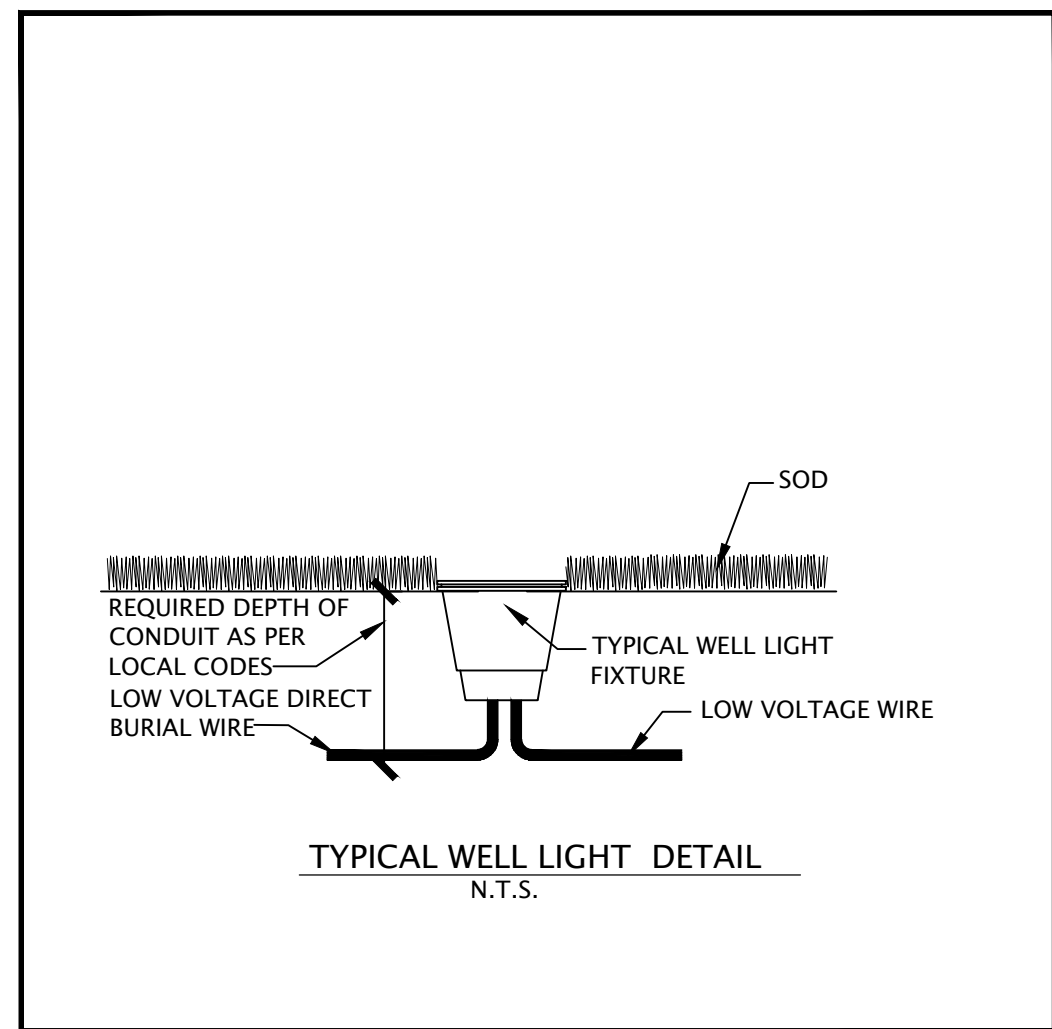
17. LUMINAIRES

A. Luminaires shall be weatherproof, heavy duty, outdoor types designed for efficient light utilization, adequate dissipation of lamp and ballast heat, and safe cleaning and relamping.

B. Illumination distribution patterns, BUG ratings and cutoff types as defined by the IESNA shall be as shown on the drawings.

C. Materials shall be rustproof. Latches and fittings shall be non-ferrous metal.

D. Provide manufacturer's standard finish, as scheduled on the drawings.



TRANSFORMERS LEGEND AND SPECS.						
Symbol	Brand	Model	Transformer	Tab	Input	Output
1	Dabmar Lighting	LVT300-A-SS	300 KVA	T-1.1	75W	300 W
				T-1.2	14W	300 W
				T-1.3	84W	
2	Dabmar Lighting	LVT300-A-SS	300 KVA	T-2.1	35W	300 W
				T-2.2	31W	300 W
3	Dabmar Lighting	LVT300-A-SS	300 KVA	T-3.1	35W	300 W
				T-3.2	94W	300 W
				T-3.3	52W	300 W

LIGHTING FIXTURES LEGEND & SPECS.										
Symbol	Brand	Model	Lamp	Use	Watts	Volts	Beam	Color. Temp.	Finish	Mounting
A	Dauer lampen	490007 ASTOR	LED/ MR16	Uplight	7W	12	60" Flood Light	3000 K	Weathered Brass	490037 "Excalibur" PVC Mounting Stake
B	Dauer lampen	490066 SOLARA	LED/ MR16	WELL	7W	12	60" Flood Light	3000 K	Weathered Brass	In ground
C	Dauer lampen	489901 SAVANNAH	LED/ MR16	PATH	6W	12	60" Flood Light	3000 K	Weathered Brass	490037 "Excalibur" PVC Mounting Stake
D	Dauer lampen	489927 BREAKERS	INTEGRATED	STEP	2.5	12	---	2800 K	Weathered Brass	Wall mounted frosted panel-12VAC/DC
LIGHTING FIXTURES NOTES										
Note 1 Mounting Post: RAB/Mighty Post may be use instead of 490037 "Excalibur" PVC Mounting Stake										

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