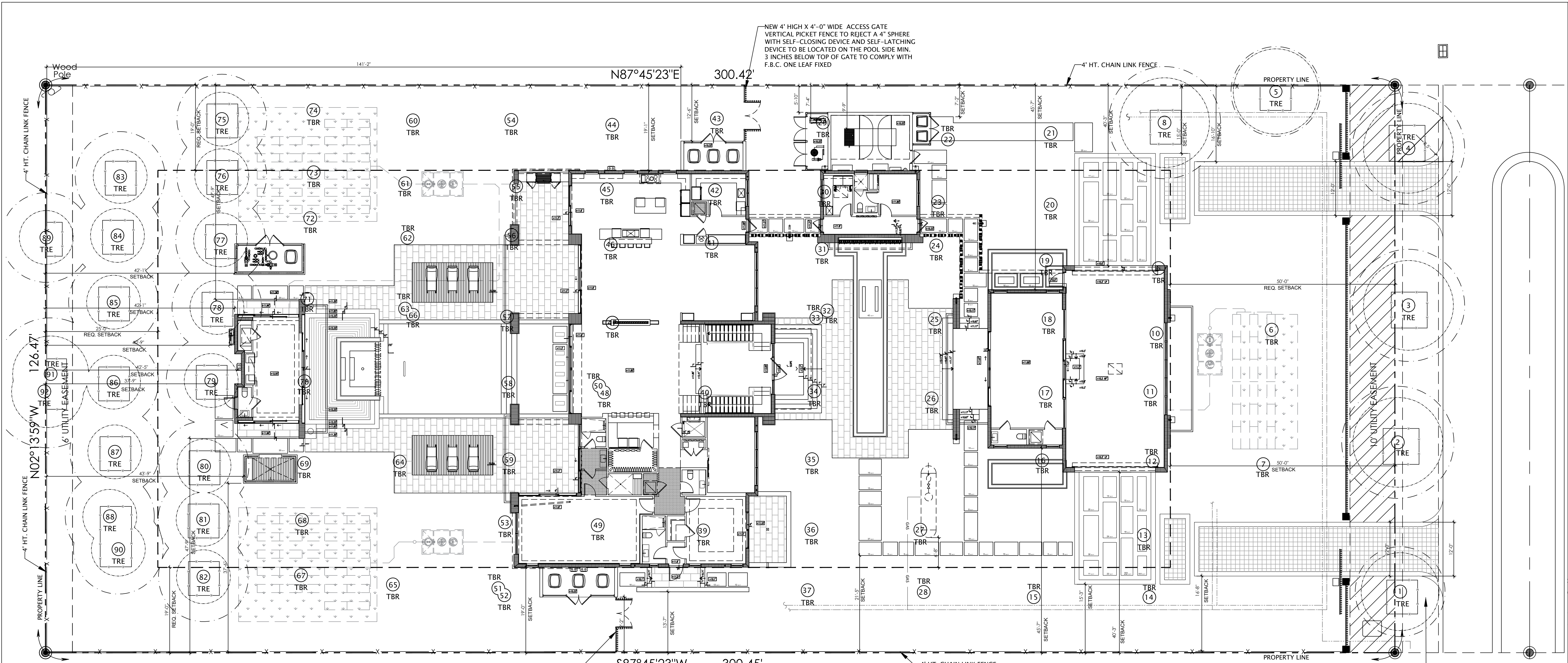




NEW 4' HIGH X 4'-0" WIDE ACCESS GATE VERTICAL PICKET FENCE TO REJECT A 4" SPHERE WITH SELF-CLOSING DEVICE AND SELF-LATCHING DEVICE TO BE LOCATED ON THE POOL SIDE MIN. 3 INCHES BELOW TOP OF GATE TO COMPLY WITH F.B.C. ONE LEAF FIXED

NEW 4' HIGH X 4'-0" WIDE ACCESS GATE VERTICAL PICKET FENCE TO REJECT A 4" SPHERE WITH SELF-CLOSING DEVICE AND SELF-LATCHING DEVICE TO BE LOCATED ON THE POOL SIDE MIN. 3 INCHES BELOW TOP OF GATE TO COMPLY WITH F.B.C. ONE LEAF FIXED

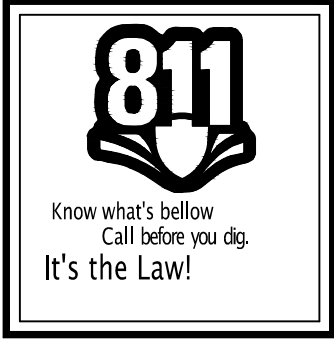


TREE DISPOSITION PLAN
SCALE: 3/32" = 1'-0"
REFER TO SHEET LA 1.1 FOR TREE DISPOSITION NOTES AND DETAILS

TYPICAL 10' x 10' TRIANGLE OF VISIBILITY AS PER SECTION 10-1.06.A&B SHALL BE KEPT CLEAR OF VISUAL OBSTRUCTIONS BETWEEN A HEIGHT OF TWO AND A HALF (2½) FEET AND EIGHT (8) FEET ABOVE THE ESTABLISHED GRADE.

ABBREVIATIONS & SYMBOLS	
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
	PROTECTIVE BARRIER

NOTE:
4 BURSERA SIMARUBA / CUMBO LIMBO TREES HAVE BEEN ADDED IN PLANTING PLAN AS REPLACEMENTS FOR EXISTING TREES #76, 77, 80 & 81



Incorporated reviewer-specific data as requested for ease of review has been placed in this sheet. Existing Tree Disposition Chart does not fit in this sheet, refer to Sheet LA-1.1.

revisions	
	12/04/2024-SITE PLAN
	05/20/2025-SITE PLAN
	06/16/2025-COMMENTS
	07/15/2025-COMMENTS
	07/28/2025-COMMENTS
	08/25/2025-COMMENTS
	10/14/2025-COMMENTS
	11/02/2025-COMMENTS

date _____
issued _____
drawn _____
checked _____
project no. 2341

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do S
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Date: 2025.11.03 11:27:15 -05'00'

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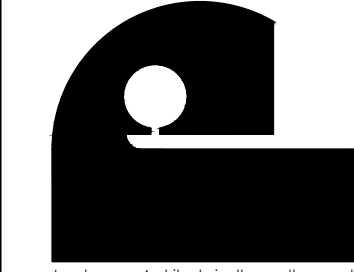
LA-1.0

COMAS

Orlando Comas, ASLA
LANDSCAPE ARCHITECT



NEW RESIDENCE FOR:
MR & MRS
DE LA CONCEPCION
8945 SW 63RD COURT
PINECREST, FL 33156

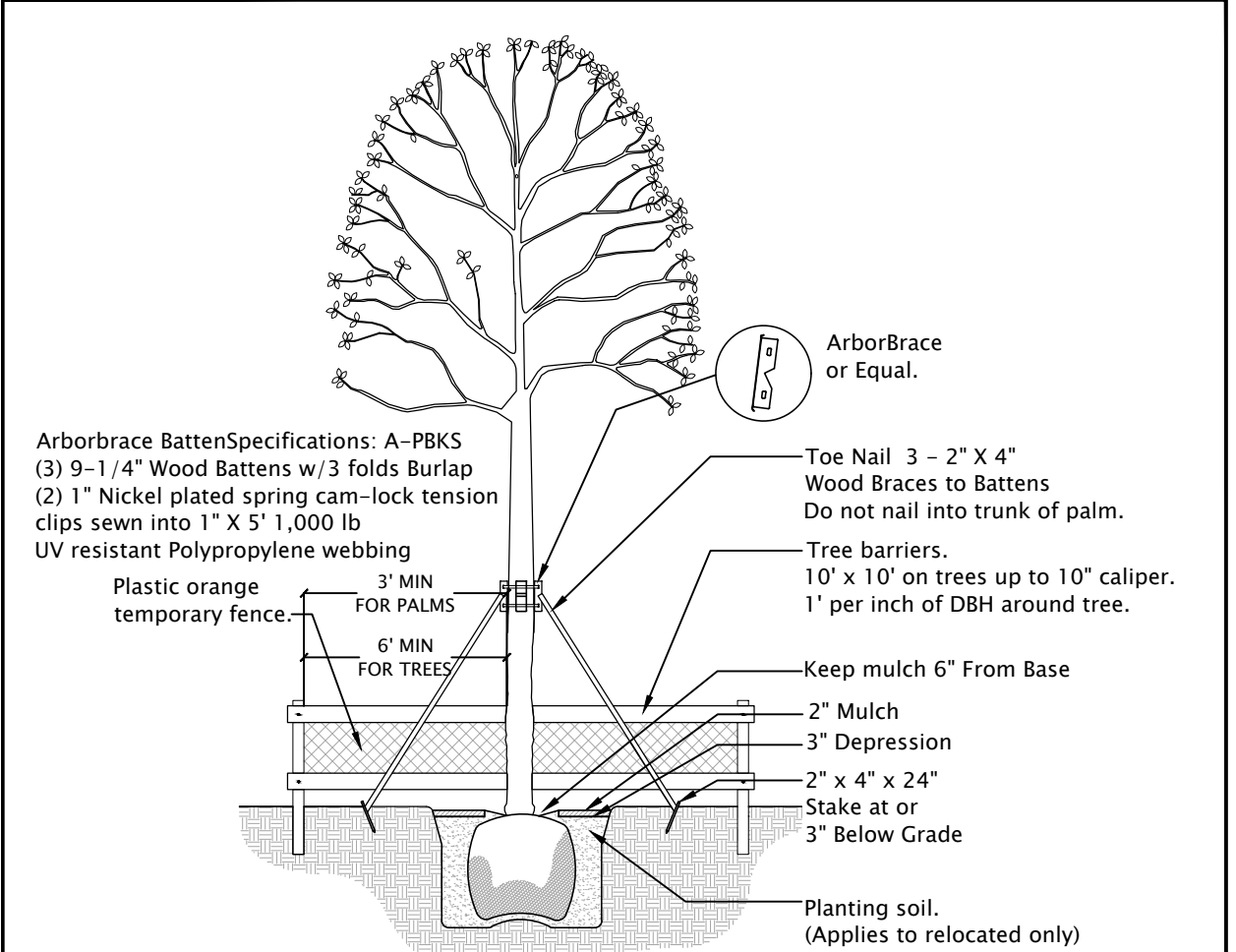


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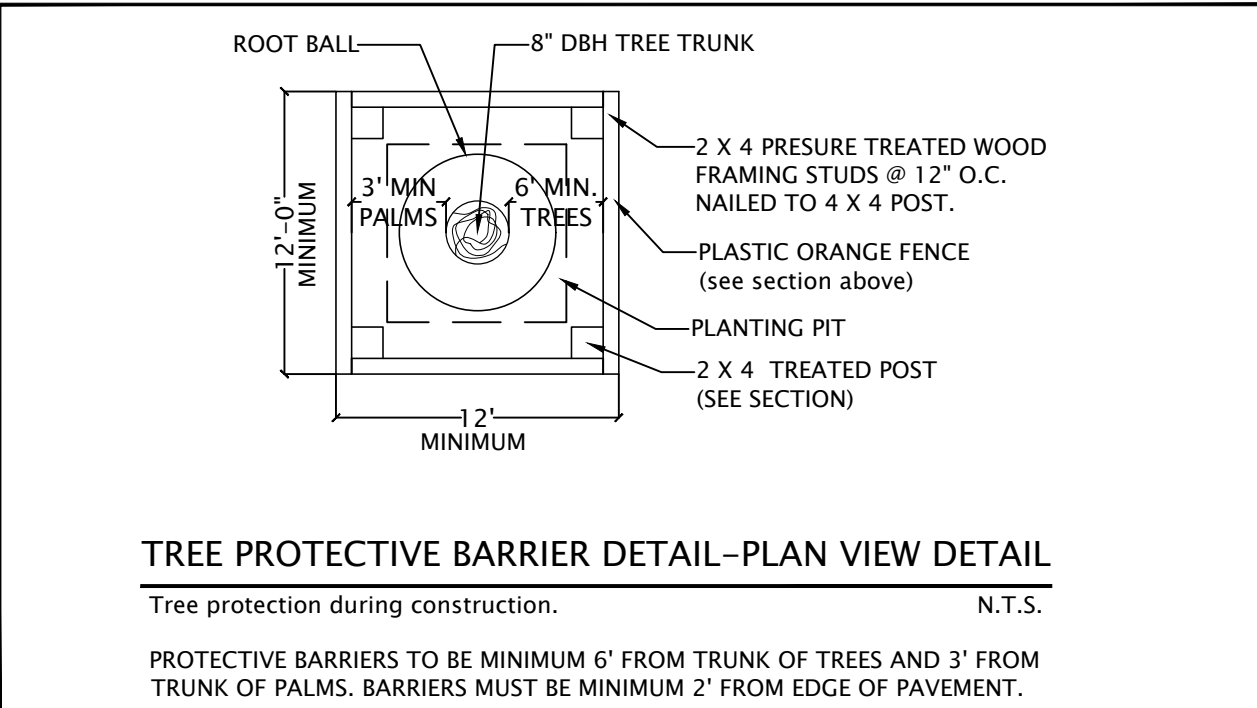
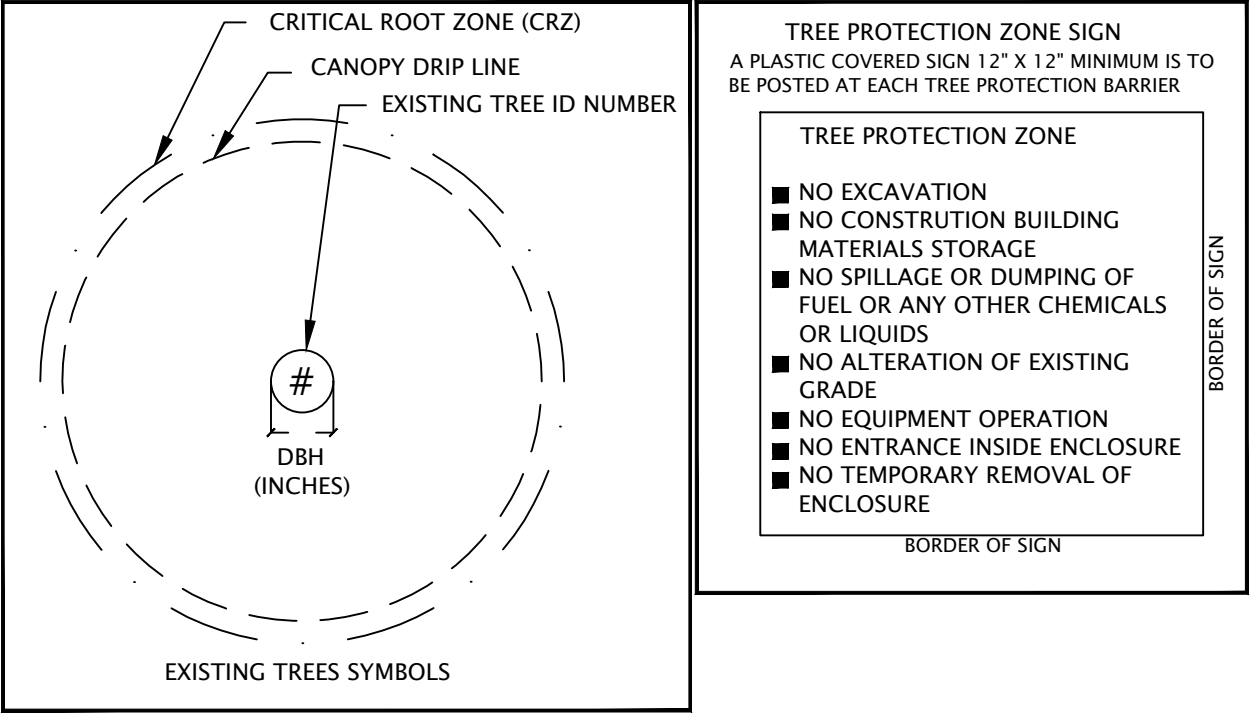
PACHECO ARCHITECTURE
PACHECO ARCHITECTURE, LLC.
A2260020419
4790 SW 72ND AVE, SUITE 101, MIAMI, FL 33155
O: 305.666.2573 F: 305.666.3871
www.pachecoarchitecture.com

EXISTING TREE DISPOSITION CHART									
No.	BOTANICAL NAME	COMMON NAME	Diameter DBH (in)	HEIGHT (Ft)	CANOPY (Ft)	HEALTH	DISPOSITION	CANOPY REMOVED (Sq.Ft.)	Comments
1	Quercus virginiana	Live oak	18	35	20	Fair	REMAIN		
2	Quercus virginiana	Live oak	16	25	25	Fair	REMAIN		
3	Quercus virginiana	Live oak	18	35	25	Fair	REMAIN		
4	Quercus virginiana	Live oak	18	35	25	Fair	REMAIN		
5	Quercus virginiana	Live oak	20.4	30	20	Fair	REMAIN		
6	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to septic system
7	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Owner wish a different aesthetic for landscaping
8	Quercus virginiana	Live oak	12	30	25	Fair	REMAIN		
9	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
10	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
11	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
12	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
13	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
14	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Owner wish a different aesthetic for landscaping
15	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Owner wish a different aesthetic for landscaping
16	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
17	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
18	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to structure
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21	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to walkway
22	Mangifera indica	Mango tree	12	30	20	Fair	REMOVE	314	Mitigation as per Village Located within or close to walkway
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TOTAL CANOPY REMOVED									



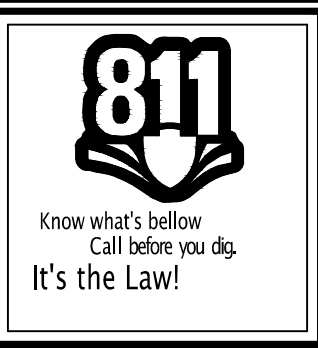
Existing & Relocated Trees and Palms
Protective Barrier & Bracing Section Detail

N.T.S.
Place three wood braces on trees & palms up to 8" caliber
Place four wood braces on trees & palms over 8" caliber
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.



ABBREVIATIONS & SYMBOLS	
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	
□ PROTECTIVE BARRIER	

NOTE:
4 BURSERIA SIMARUBA/ GUMBO LIMBO TREES HAVE BEEN ADDED IN PLANTING PLAN AS REPLACEMENTS FOR EXISTING TREES #76, 77, 80 & 81



GENERAL TREE WORK REQUIREMENTS, NOTES & SPECIFICATIONS

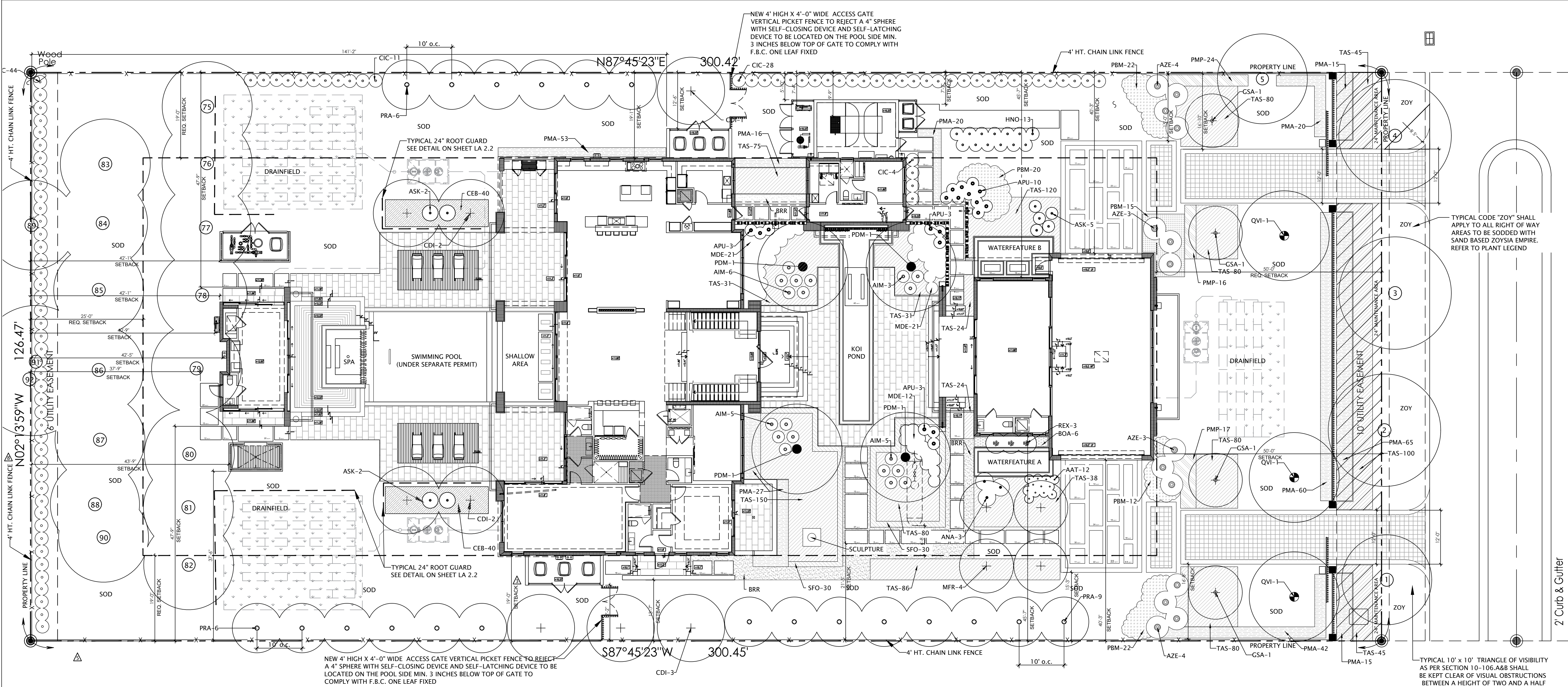
- THE TREE DISPOSITION/MITIGATION PLAN HAS BEEN DESIGNED ACCORDING TO THE TREE PROTECTION AND/OR MITIGATION ORDINANCES/CODES OF THE MUNICIPALITY OR COUNTY WHERE SITE IS LOCATED. UPON PERMIT APPROVAL BY MUNICIPALITY OR COUNTY, LANDSCAPE CONTRACTOR, ARBORIST OR TREE ENTITY SHALL ADHERE TO THE PERMITTED PLANS AND SPECIFICATIONS. NO TREE/PALM SHALL BE REMOVED, ROOT PRUNED OR RELOCATED UNTIL TREE REMOVAL/RELOCATION PERMIT HAS BEEN ISSUED.
- TREE DISPOSITION PLAN HAS BEEN DESIGNED BASED ON THE INFORMATION CONTAINED IN THE TREE SURVEY PROVIDED BY OWNER AND PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR. SHOULD THERE BE ANY DISCREPANCIES BETWEEN TREE SURVEY AND TREE DISPOSITION PLAN, LANDSCAPE CONTRACTOR SHALL SEEK CLARIFICATION FROM LANDSCAPE ARCHITECT.
- TREE WORK, WILL BE DEFINED FOR ALL ASPECTS OF THESE NOTES, SPECIFICATIONS, PLANS, SECTIONS, DETAILS AND ANY OTHER LANDSCAPE DOCUMENT RELATED TO THIS PROJECT, AS ANY AND ALL TREE CANOPY TRIMMING AND/OR THINNING OUT, PRUNING OF BRANCHES, ROOT PRUNING, RELOCATION, BRACING, STRAPPING, PLACING OF PROTECTIVE BARRIERS AND ANY OTHER TYPE OF WORK REQUIRED FOR THE PROPER PROCESS OF TRIMMING, PRUNING AND RELOCATING TREES WITHIN THE PROPERTY.
- LANDSCAPE CONTRACTOR FOR ALL PURPOSES OF THIS PROJECT AND REGARDING TREE WORKS IS DEFINED AS ANY LANDSCAPE CONTRACTOR, ARBORIST OR ANY TREE WORK ENTITY PERFORMING THE TREE WORKS WHO MEETS THE LICENSING, INSURANCE AND SUPERVISORY REQUIREMENTS.
- IT WILL BE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PROCURE AND OBTAIN ANY REQUIRED PERMIT FOR THE TREE WORK, UNLESS THE PERMIT IS ISSUED TO OWNER OR GENERAL CONTRACTOR.
- LANDSCAPE CONTRACTOR TO DO ANY TREE WORK, ROOT PRUNING OR RELOCATION WITHIN THE PROPERTY SHALL HAVE IN A SUPERVISORY CAPACITY A ISA CERTIFIED ARBORIST IN STAFF OR CONTRACTED FOR THE SPECIFIC WORKS OF THE SITE DESCRIBED IN THE PLANS. BE LICENSED AND INSURED AS REQUIRED BY MUNICIPALITY, COUNTY OR STATE AND COORDINATE THE DOCUMENTATION REQUIRED BY GENERAL CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL MATERIALS AND INSURED EQUIPMENT NECESSARY TO PERFORM THE TREE WORKS.
- LANDSCAPE CONTRACTOR TO DO ANY TREE WORK, ROOT PRUNING OR RELOCATION WITHIN THE PROPERTY SHALL CONTACT SUNSHINE 811. FLORIDA'S LAW REQUIRES ANYONE PLANNING TO DIG TO CONTACT SUNSHINE 811 AT LEAST TWO FULL BUSINESS DAYS BEFORE BREAKING GROUND.
- LANDSCAPE CONTRACTOR SHALL VISIT AND INSPECT THE SITE CONDITIONS AND THE TREES TO BE RELOCATED AND INFORM LANDSCAPE ARCHITECT OF ANY ANOMALIES OBSERVED.
- LANDSCAPE CONTRACTOR SHALL INSTALL ROOT BARRIERS AS INDICATED IN PLANS SECTIONS AND DETAILS AROUND EACH EXISTING TREE TO REMAIN AND THOSE TREES TO BE RELOCATED ONCE THEY ARE RELOCATED TO THEIR NEW LOCATION. PROTECTIVE TREE BARRIERS SHALL ALSO BE INSTALLED ON ANY EXISTING TREE WITHIN THE RIGHT OF WAY WITH SIDE FACING THE STREET PAVEMENT MINIMUM TWO FEET FROM EDGE OF PAVEMENT.

ROOT PRUNING/RELOCATION NOTES & SPECIFICATIONS

- ALL ROOT PRUNING, RELOCATION, TREE PRUNING AND TRIMMING IS TO BE PERFORMED FOLLOWING ANSI-A300 TRANSPLANTING AND TREE PRUNING AND TRIMMING STANDARDS- PART 1 AND PART 6 OR MOST RECENT EDITION.
- ROOT PRUNING IS THE PROCESS OF CUTTING ROOTS PRIOR TO MECHANICAL EXCAVATION NEAR A TREE, MAY BE NECESSARY TO MINIMIZE DAMAGE TO THE TREE'S ROOT SYSTEM DURING CONSTRUCTION OR IN PREPARATION FOR LARGE TREE TRANSPLANTING. NUMBER OF ROOTS PRUNED SHOULD BE MINIMIZED TO REDUCE TREE STRESS. THE FURTHER FROM THE TRUNK THAT ROOT CUTTING OCCURS, THE BETTER. GENERALLY, ROOT CUTS MADE OUTSIDE A TREE'S DRILLPIE VERY SELDOM CAUSE PERMANENT TREE DAMAGE.
- IN DETERMINING THE SIZE OF THE ROOT BALL REFER TO THE ROOT BALL TABLE BELOW. MINIMUM DEPTH OF A ROOT BALL SHOULD BE NOT LESS THAN 24"-30". THE LARGER THE ROOT BALL, THE MORE FEEDER ROOTS THERE WILL BE AND THE BETTER CHANCE THE TREE OR SHRUB WILL TRANSPLANT SUCCESSFULLY.
- NO MACHINERY OR EXCAVATING/DIGGING EQUIPMENT SHALL BE ALLOWED TO PERFORM THE ROOT PRUNING TO PREVENT PULLING ON THE ROOTS. DIGGING OF THE ROOT ZONE TO PREPARE THE TRENCH WHILE PERFORMING ROOT PRUNING SHALL BE CARRIED OUT BY HAND AND CUTTING OF ROOTS BE DONE WITH CLEAN CUTTING HAND TOOLS OR SAWS. NO SEALANTS OF ANY KIND, TREE-COTE OR SIMILAR IS TO BE USED ON THE CUT ROOTS.
- TREES AND PALM RELOCATIONS WITHIN SITE ARE TO BE SCHEDULED FOR RELOCATION WITHIN A 24-HOUR PERIOD. NO TREES OR PALMS ARE TO BE LEFT UNPLANTED FOR LONGER THAN 24 HOURS WITHOUT APPROVAL OF LANDSCAPE ARCHITECT. STORAGE OF TREES OR PALMS TO BE RELOCATED AT A LATER DATE ARE TO BE SECURED AND BRACED IN A STRAIGHT POSITION. NO PALMS OR TREES ARE TO BE STORED LAYING ON ITS SIDE.
- RECENTLY CUT ROOTS ARE MORE SENSITIVE TO TRANSPLANTING. COVER THE FRESHLY CUT SIDES OF THE ROOT BALL WITH PLASTIC SHEETING TO PREVENT DESICCATION OF THE NEW ROOTS. TRIMMING REDUCES THE ABUNDANCE OF AM (ARBUSCULAR MYCORRHIZA) FUNGI IN OLDER ROOTS. UPON COMPLETION OF THE TRENCH AND PRUNING OF ROOTS, BACKFILL THE TRENCH WITH HIGH QUALITY TOPSOIL. ADD MYCORRHIZAE TO SOIL TO BE USED AS BACKFILL WHEN TRANSPLANTING TREES AS PER MANUFACTURER'S INSTRUCTIONS.
- UPON COMPLETION OF ROOT PRUNING AND BACKFILLING, PROVIDE A 6" HIGH BERM AROUND THE OUTSIDE EDGE OF FILLED TRENCH TO ACT AS A WATER HOLDING BASIN AND BRACE THE TREE ACCORDING TO SIZE AS SHOWN IN PLANTING DETAILS TO PREVENT MOVEMENT AND PROVIDE SUPPORT.
- WATER SHOULD BE PROVIDED TO ANY TREE PROPOSED TO BE ROOT PRUNED FOR A PERIOD OF FIVE DAYS OR MORE PRIOR TO THE ACTUAL ROOT PRUNING OF THE TREES TO BE ROOT PRUNED TO PROVIDE AN ADEQUATE AMOUNT OF WATER TO TREE TISSUES. WATERING OF ROOT PRUNED TREE(S) IS ESSENTIAL, ASSURING THAT THE TRENCH AREA IS WELL WATERED EITHER BY AN AUTOMATIC IRRIGATION SYSTEM OR BY HAND ON A DAILY BASIS FOR THE FIRST WEEK AND EVERY OTHER DAY UNTIL THE TRANSPLANTING IS CARRIED OUT.
- BEFORE DIGGING THE ROOT BALL FOR TRANSPLANTING ON TREES WITH A DBH OF 12" OR LESS A MINIMUM WAITING PERIOD OF 10-12 WEEKS SHOULD PREVAIL. ON TREES OVER 12" DBH DEPENDING ON SIZE OF TREE AND ROOT BALL, VERIFY AFTER 16 WEEKS THAT A GOOD NET OF FIBROUS ROOTS HAS DEVELOPED. IF FEW ROOTS HAVE DEVELOPED, POSTPONE THE MOVE FOR ANOTHER FOUR WEEKS OR MORE AS REQUIRED BY ARBORIST.
- PALMS TO BE ROOT PRUNED AS A GENERAL RULE REQUIRE A MINIMUM 24" DEEP ROOT BALL. TYPICALLY, THOSE SPECIES TRANSPLANT WITH MINIMUM ROOT PRUNING TIME OF 4-6 WEEKS SUCH AS SABAL PALMETTO, ROYSTONIA REGIA, PHOENIX CANARIENSIS WILL SUFFICE WITH A MINIMUM ROOT BALL OF 18"-24" FROM THE TRUNK TO THE EDGE OF ROOT BALL. OTHER SPECIES SUCH AS BISMARKIA, COEPERNICIA, SATAKENTIA, SOME SPECIES OF THRIINAXES AND OTHERS MAY REQUIRE A LARGER ROOT BALL AND A LONGER PERIOD OF ROOT PRUNING TIME. IT IS ADVISABLE PRIOR TO ANY ROOT PRUNING WORK TO CONSULT WITH A ISA CERTIFIED ARBORIST.
- PRIOR TO ROOT PRUNING OF A TREE TO BE TRANSPLANTED, IT IS ADVISABLE THAT A CONSULTATION BE MADE WITH A ISA CERTIFIED ARBORIST REGARDING THE SPECIFIC SPECIE REQUIREMENTS TO BE ROOT PRUNED AND TRANSPLANTED. ROOT PRUNING AND TRANSPLANTING OF TREES SHOULD BE PERFORMED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
- EXISTING TREES TO REMAIN IN THEIR PRESENT LOCATION AND THOSE TO BE RELOCATED WITHIN THE SITE SHALL BE TRIMMED PROPERLY AS PER ANSI-A300 STANDARDS INSTITUTE BY REMOVING DAMAGED, DEAD OR STRUCTURALLY WEAK LIMBS. LARGE SHADE TREES SHALL HAVE THEIR LOWER BRANCHES REMOVED TO PROVIDE A CLEAR TRUNK OF 8" MAXIMUM FOLIAGE TO BE REMOVED FROM ANY TREE TO BE 25%.
- LANDSCAPE CONTRACTOR PRIOR TO RELOCATION SHALL MARK WITH A WOOD STAKE OR SIMILAR THE PROPOSED NEW LOCATION OF THE TREE(S) AND ADVISE LANDSCAPE ARCHITECT WITH 48 HOURS NOTICE FOR A SITE VISIT TO APPROVE PROPOSED LOCATIONS AS PER PLANS.
- IF ANY DISCREPANCIES IS FOUND IN THE PLANS, LANDSCAPE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- ANY TREE TRIMMING SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
- NO TREE REMOVAL OR ROOT PRUNING FOR RELOCATION PURPOSES, OR RELOCATION OF TREE(S) SHALL BE PERFORMED WITHOUT A TREE RELOCATION AND REMOVAL PERMIT FROM THE MUNICIPALITY OR COUNTY AS REQUIRED.
- ALL EXISTING TO REMAIN, ROOT PRUNED TREES FOR RELOCATION OR RELOCATED TREES WITHIN THE SITE SHALL HAVE A PROTECTIVE BARRIER AS SPECIFIED IN THE TREE PROTECTION BARRIER DETAIL IN THE TREE DISPOSITION PLAN.
- LANDSCAPE CONTRACTOR OR TREE MOVING ENTITY SHALL HAVE EXTREME CARE WHILE PERFORMING ANY TREE WORK, ROOT PRUNING AND/OR RELOCATION OF TREES IN PREVENTING ANY DAMAGE TO THE TREES WITH ANY TOOLS. EQUIPMENT OR MISHANDLING OF THE TREE(S).
- LANDSCAPE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED PLANTS, SOD OR MATERIAL AND EQUIPMENT DAMAGED DURING TREE WORKS AT THEIR OWN EXPENSE. IN THE EVENT A TREE, OR SHRUB IS DAMAGED, IT SHALL BE REPLACED WITH THE SAME SPECIE, SIZE AND QUALITY AS WAS DAMAGED WITH NO EXPENSE TO OWNER.
- LANDSCAPE CONTRACTOR SHALL DISPOSE AND REMOVE FROM SITE ANY AND ALL DEBRIS RESULTING FROM EXCAVATION PER TREE WORKS, PLANTING DEBRIS, CONTAINERS, EXCESS LANDSCAPE MATERIALS AND TREE WORKS DEBRIS.
- WHEN RELOCATING PALMS, THEIR FRONDS ARE TO BE TIED WITH NATURAL FIBER DOUBLE PLY TWINE PRIOR TO RELOCATION SO THAT FRONDS ARE NOT DAMAGED DURING THE RELOCATION WORKS.
- NO FRONDS FROM ANY PALM(S) EITHER REMAINING, BEING RELOCATED OR NEWLY PLANTED ARE TO BE REMOVED WITHOUT LANDSCAPE ARCHITECT'S INSTRUCTIONS.
- IF ANY TREES OR PALMS ARE TO BE RELOCATED OFFSITE, LANDSCAPE CONTRACTOR, ARBORIST OR TREE WORK ENTITY PERFORMING THE WORK SHALL REQUEST SPECIFIC INSTRUCTIONS FROM LANDSCAPE ARCHITECT.
- EXISTING TREES #78,79 & 80 MAY NEED TRIMMING DUE TO PROXIMITY OF STRUCTURE. IF REQUIRED IT SHALL BE RESPONSIBILITY OF GENERAL CONTRACTOR TO HIRE A CERTIFIED ARBORIST AND ANY NECESSARY TRIMMING UNDER THE SUPERVISION OF THE CERTIFIED ARBORIST. NO TRIMMING SHALL BE PERFORMED WITHOUT ARBORIST SUPERVISION.

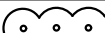
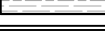
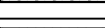
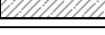
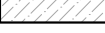
INVASIVE AND PROHIBITED VEGETATION

- ALL MIAMI-DADE COUNTY CONTROLLED PLANT SPECIES MAY NOT BE PLANTED WITHIN 500 FEET OF NATURAL PLANT COMMUNITIES. THESE PLANT SPECIES HAVE BEEN DOCUMENTED BY THE FLORIDA EXOTIC PEST PLANT COUNCIL, THE MIAMI-DADE COUNTY PARKS, RECREATION AND OPEN SPACES DEPARTMENT'S NATURAL AREA'S MANAGEMENT PROGRAM, AND THE MIAMI-DADE COUNTY DIVISION OF ENVIRONMENTAL RESOURCES MANAGEMENT TO BE INVASIVE PESTS IN NATURAL AREAS OF MIAMI-DADE COUNTY.
- PROHIBITED PLANT SPECIES (EXOTIC PEST PLANT AND NUISANCE SPECIES) IF PRESENT ON A DEVELOPMENT OR REDEVELOPMENT SITE, SHALL BE REMOVED PRIOR TO DEVELOPMENT OR REDEVELOPMENT, SHALL BE PROHIBITED, PURSUANT TO THE CODE OF MIAMI-DADE COUNTY, FLORIDA.
- ANY PLANT DEFINED AS CONTROLLED OR PROHIBITED BY MIAMI-DADE COUNTY, OR INVASIVE AS PER FLORIDA INVASIVE SPECIES COUNCIL LIST OF INVASIVE PLANT SPECIES MUST BE REMOVED



EXISTING TREE DISPOSITION CHART						
No.	BOTANICAL NAME	COMMON NAME	Diameter DBH (in)	HEIGHT (Ft)	CANOPY (Ft)	HEALTH
1	Quercus virginiana	Live oak	18	35	20	Fair
2	Quercus virginiana	Live oak	16	25	25	Fair
3	Quercus virginiana	Live oak	18	35	25	Fair
4	Quercus virginiana	Live oak	18	35	25	Fair
5	Quercus virginiana	Live oak	20.4	30	20	Fair
8	Quercus virginiana	Live oak	12	30	25	Fair
75	Mangifera indica	Mango tree	12	30	20	Fair
76	Mangifera indica	Mango tree	12	30	20	Fair
77	Mangifera indica	Mango tree	12	30	20	Fair
78	Mangifera indica	Mango tree	12	30	20	Fair
79	Mangifera indica	Mango tree	12	30	20	Fair
80	Mangifera indica	Mango tree	12	30	20	Fair
81	Mangifera indica	Mango tree	12	30	20	Fair
82	Mangifera indica	Mango tree	12	30	20	Fair
83	Mangifera indica	Mango tree	12	30	20	Fair
84	Mangifera indica	Mango tree	12	30	20	Fair
85	Mangifera indica	Mango tree	12	30	20	Fair
86	Mangifera indica	Mango tree	12	30	20	Fair
87	Mangifera indica	Mango tree	12	30	20	Fair
88	Mangifera indica	Mango tree	12	30	20	Fair
89	Quercus virginiana	Live oak	12	30	20	Fair
90	Mangifera indica	Mango tree	12	30	20	Fair
91	Quercus virginiana	Live oak	16	25	25	Fair
92	Quercus virginiana	Live oak	18	35	25	Fair

PLANT LEGEND									
Code	Botanical name	Common name	DBH	Height	Canopy	Nat.	Quantity	Specific	Note 1.1.7
LANDSCAPE REQUIREMENT TREES									
PDM	Phoenix dactylifera	Medjool	12"	20'	8'	Y	4		
CDI	Coccoloba diversifolia	Pigeonplum	3"	16'	5'-6'	Y	8	4' c.t. minimum	
QVI	Quercus virginiana	Live Oak	4"	18'	8'	Y	3		
SMALL TREES									
CSA	Gualuac Sanctum	Lignum Vitae	2.5"	12'	5'-6'	N	4	4' c.t.	
PRA	Pimenta racemosa	Bay rum tree	3"	14'	6'	N	21	2.5" DBH / 4' c.t.	
MFR	Myrcianthes fragrans	Simpson stopper	3"	14'	6'	N	4	4' c.t.	
ABBREVIATION TABLE									
APPROX	APPROXIMATE	EXIST	EXISTING						
AVG	AVERAGE	FEE	FIN. FLOOR ELEV.						
BA-B	BALLED AND BURLAPPED	O.C.	ON CENTER						
CAL	CALIPER	MAX	MAXIMUM						
CL	CENTER LINE	MIN	MINIMUM						
CONC	CONCRETE	NTS	NOT TO SCALE						
DIA	DIAMETER	PL	PROPERTY LINE						

SHRUBS									
	AIM	Alcantarea Imperialis	Giant Bromeliad	24"	24"	N	20		p
	APU	Alpinia Purpurata	Red Ginger	36"	24"	N	19		
	ASK	Androlepis Skinnerii	Bromeliad	-	-	N	9		
	AAT	Agave attenuata	Fox Tail Agave	24"	24"	N	12	20" o.c.	
	AZE	Alpinia Zerumbet	Shell Ginger	2'-3'	4'	N	14		
	CIC	Chrysobalanus Icaco	Cocoplum	24"	24"	Y	90		
	HNO	Hamelia nodosa	Dwarf Firebush	24"	24"	N	13		
	MDE	Monstera deliciosa	Monstera	4'-5'	4'	N	54	36" o.c.	
	ANA	Asplenium Nidus Avis	Birdsnest Fern	30"	30"	N	3		p
	REX	Rhapis Excelsa	Lady Palm	4'-5'	4'	N	3	Multitrunk	p
	PMP	Podocarpus Macrophyllus Pyralis	Dwarf Podocarpus	24"	24"	N	57	20" o.c.	
	PMA	Podocarpus macroph.	Podocarpus	24"	24"	N	333	24" o.c.	
GROUND COVERS									
	BOA	Begonia Odorata 'Alba'	White Begonia	24"	24"	N	6	24" o.c.	
	CEB	Carissa macrocarpa	Emerald Blanket	12"	12"	N	80		
	MPA	Murraya Paniculata 'Lakeview'	Orange Jasmine	24"	18"	N	20		
	PBM	Philodendron Burle Marx	Philodendron Burle Marx	24"	18"	N	91		
	SFO	Serissa foetida	Serissa	18"	18"	N	60		
	TAS	Trachelospermum Jasm. Minima	Dwarf Confederate Jasm.	12"	12"	N	1121	12" o.c.	
TURF									
SOD	Stenotaphrum secundatum	St. augustine 'Palmetto'					as shown	Inside property	
ZOY	Zoysia Empire (Sand based)	Zoysia Empire (Sand based)					as shown	Within Right of Way	
GRAVEL									
BRR	BLACK RIVER ROCK						as shown		

LANDSCAPE LEGEND									
AS PER VILLAGE OF PINECREST LANDSCAPE ORDINANCE.									
ZONING	EU-1	LOT AREA	37,995 s.f.	ACRES	0.87				
						REQUIRED	PROVIDED		
<u>TREES</u>									
A. Number of Trees Required Per Acre of Net Lot Area									
Zoning District		EU-1	Number of Trees Required Per Acre of Net Lot Area		18	15	15		
Lot size		0.87	= 15 trees						
B. Native trees. Thirty (30%) percent of required trees.									
Required trees		15	X	30%	=	5	Number of trees	5	15
<u>STREET TREES</u>									
Street Trees (maximum average spacing of 30' o.c.):									
		126	linear feet along street / 30 =			4	4		
TOTAL NUMBER OF TREES						19	19		
<u>SHRUBS</u>									
A. Shrubs shall be provided at a ratio of ten per required tree									
Required trees		15	X	10	=	150	Number of trees	150	583
B. Native Shrubs. Thirty (30%) percent of required shrubs.									
Required shrubs		150	X	30%	=	45	Number of shrubs	45	46

PACHECO ARCHITECTURE

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PINECREST, FL 33156

12/04/2024 - SITE PLAN
05/07/2025 - SITE PLAN
06/16/2025 - COMMENTS
07/15/2025 - COMMENTS
07/28/2025 - COMMENTS
08/25/2025 - COMMENTS
10/14/2025 - COMMENTS
11/02/2025 - COMMENTS

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LA-2.0

UB 24-2 Specifications
24" DeepRoot® Tree Root Barrier

Specified tree root barrier is a mechanical barrier and root deflector used to prevent tree roots from damaging hardscapes and landscapes. Assembled in 24" (609 mm) long modules to create varying lengths for linear applications, or perimeter surround applications in varying sizes.

A. Materials

1. The contractor shall furnish and install tree root barrier as specified. The tree root barrier shall be either product #UB 24-2 as manufactured by DeepRoot® Green Infrastructure, LLC, 530 Washington Street, San Francisco, CA, www.deeproot.com (800-458-7668).

2. Root barrier shall be recyclable, black, injection molded panels with 0.807" (2.03 mm) wall thickness in modules 24" (609 mm) long and 24" (609 mm) deep.

3. Root barrier shall be manufactured with 75% reprocessed polypropylene with added ultraviolet inhibitors.

4. Root barrier shall be comprised of 24" (60.96 cm) panels. Each panel shall have no less than four (4) Molded Integral Vertical Root Directing Ribs of a minimum 0.075" (1.90 mm) thickness, protruding 1/2" (12.7 mm) at 90° from interior of the barrier panel, spaced 6" (152.4 mm) apart. (See Details A & D)

5. Root barrier shall have a Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel at 0.060" (1.52 mm) thickness, 3/8" (9.53 mm) wide and 1/4" (6.35 mm) apart with the lower rib attached to the vertical Root Directing Ribs (See Detail A).

6. Root barrier shall have a minimum of twelve (12) Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of minimum 0.075" (1.90 mm) thickness in the shape of a segment of an oblong, the 2" (50.8 mm) chord of the segment joining the panel wall and the segment, protruding 3/8" (9.53 mm) from the panel. The twelve ground locks on each panel shall be about equally spaced between each of the vertical root directing ribs (four (4) between each set of ribs, see Details B & D).

7. Root barrier shall have an integrated Zipper Joining System for assembly by sliding one panel into another (See Detail C).

U.S. Patents: 5,305,549; and 5,528,857. Other Patents Pending.

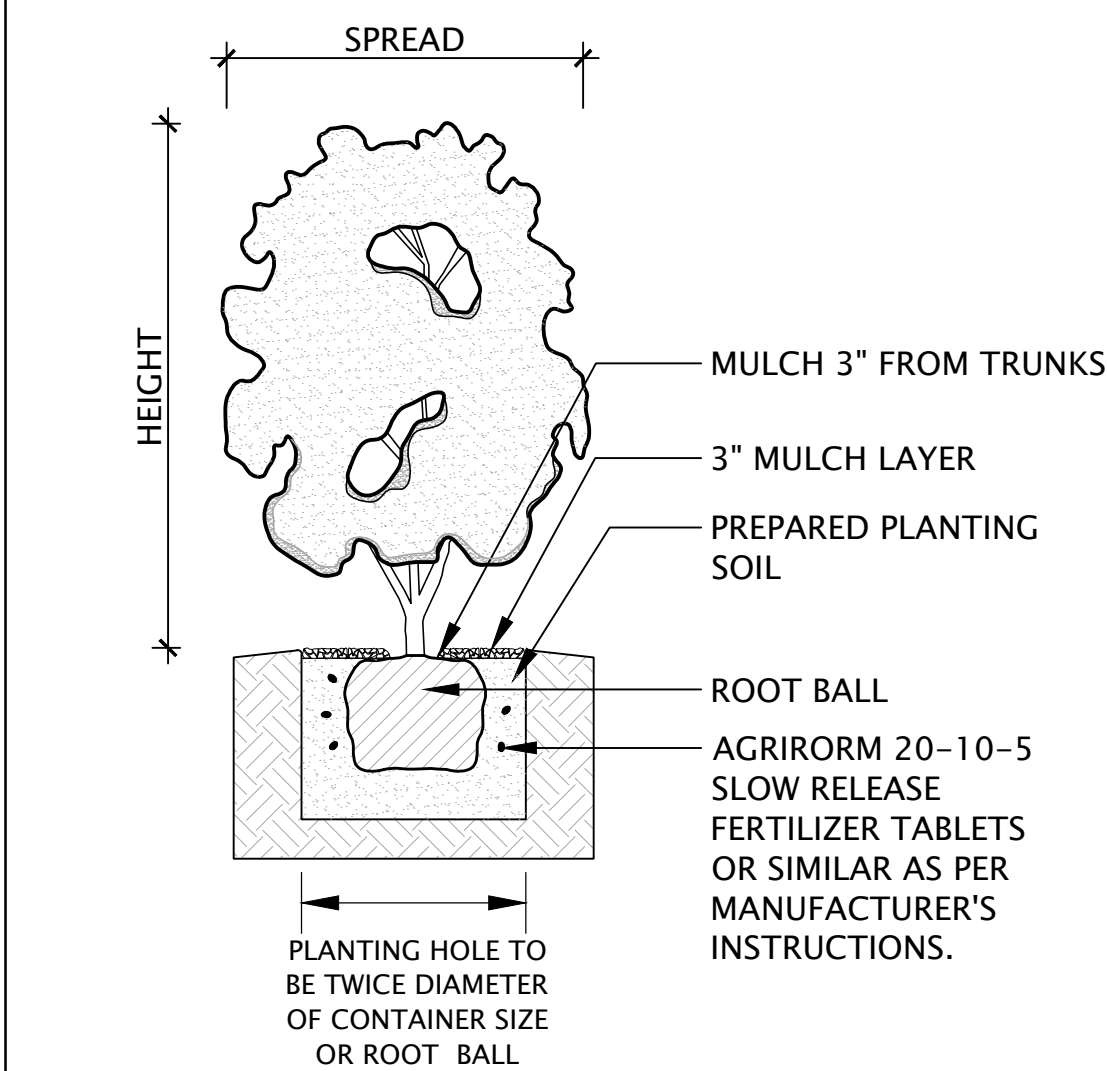
Properties	Typical Value	ASTM Test Method
Tensile strength @ yield - Wall	2,354 PSI	D638
Tensile strength @ yield - Hinge	2,846 PSI	D638
Yield Elongation - Wall	7.44%	D638
Yield Elongation - Hinge	7.01%	D638
Flexural Modulus	119,625 PSI	D790B
Notched Izod Impact - Wall	3.84 (ft-lbs)	D256A
Rockwell Hardness f. scale - Wall	84.4	D785A

DETAIL A
DOUBLE TOP EDGE AND VERTICAL ROOT DIRECTING RIB

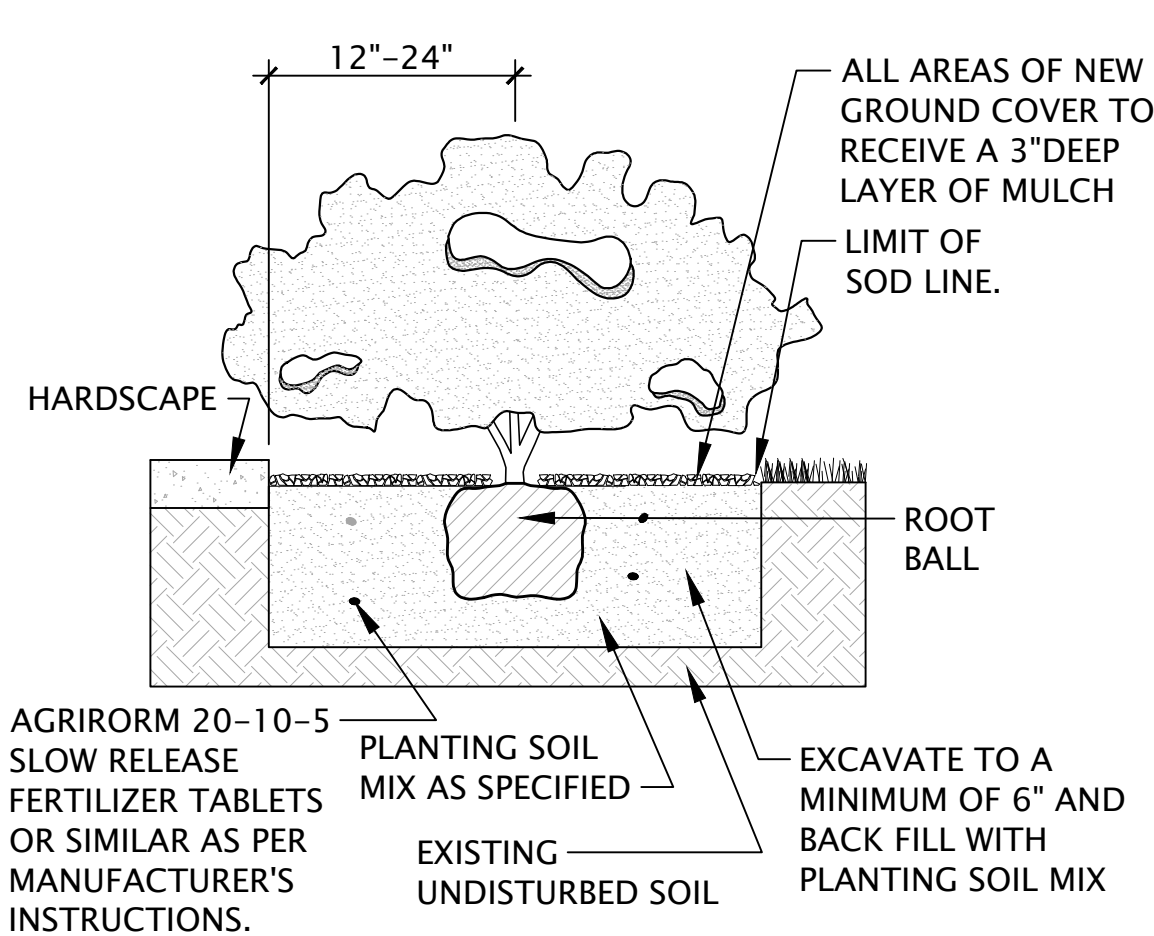
DETAIL B
ANTI-LIFT GROUND LOCK TAB

DETAIL C
ZIPPER JOINING SYSTEM

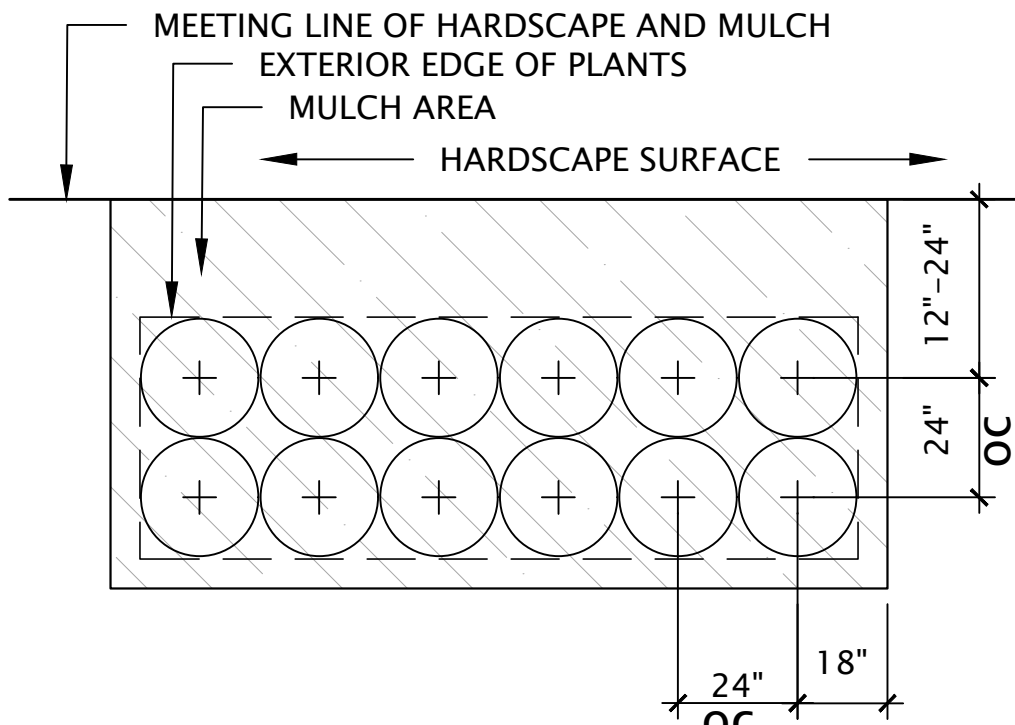
DETAIL D
TREE ROOT BARRIER PANEL



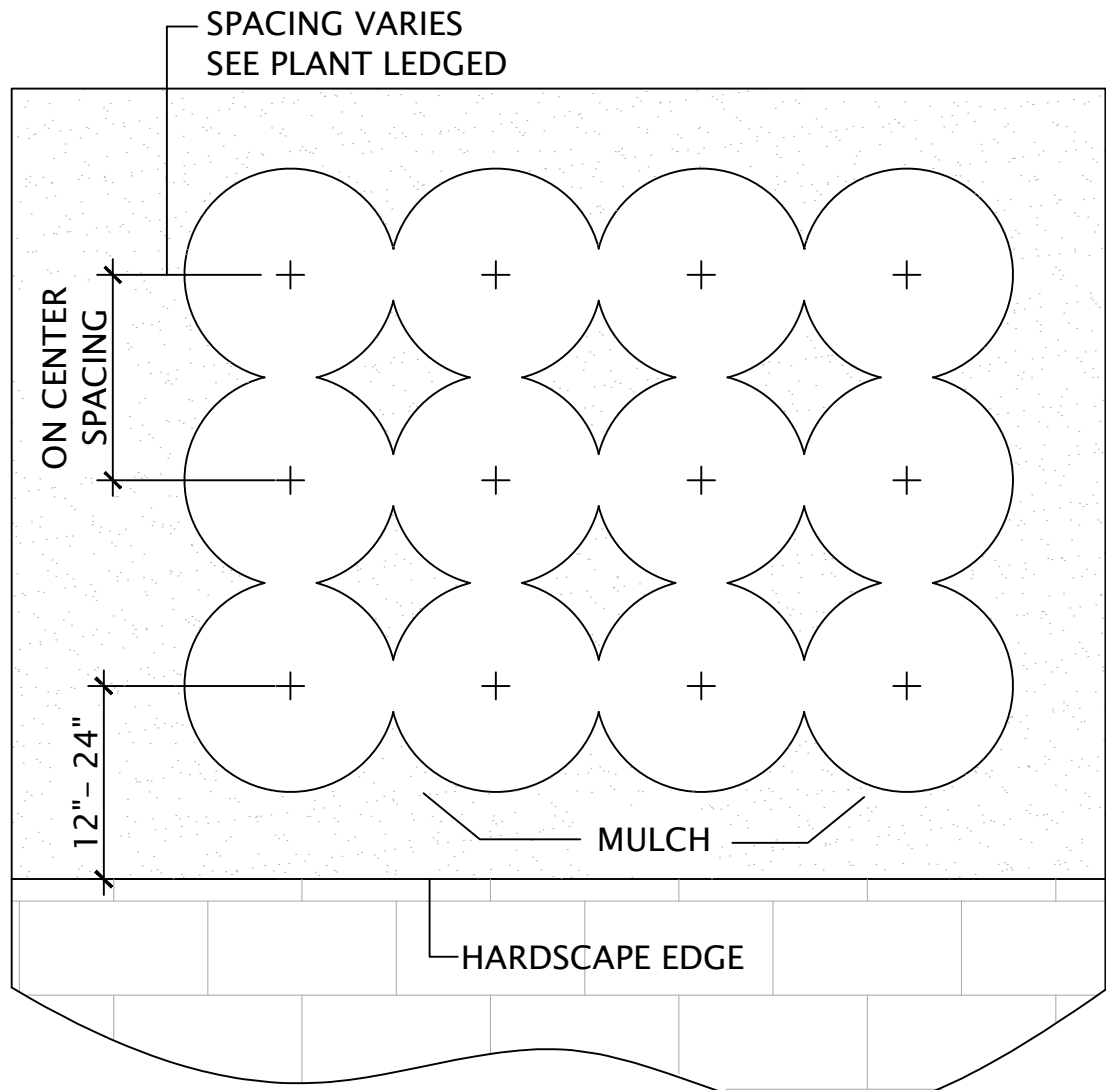
SHRUB PLANTING DETAIL
N.T.S.



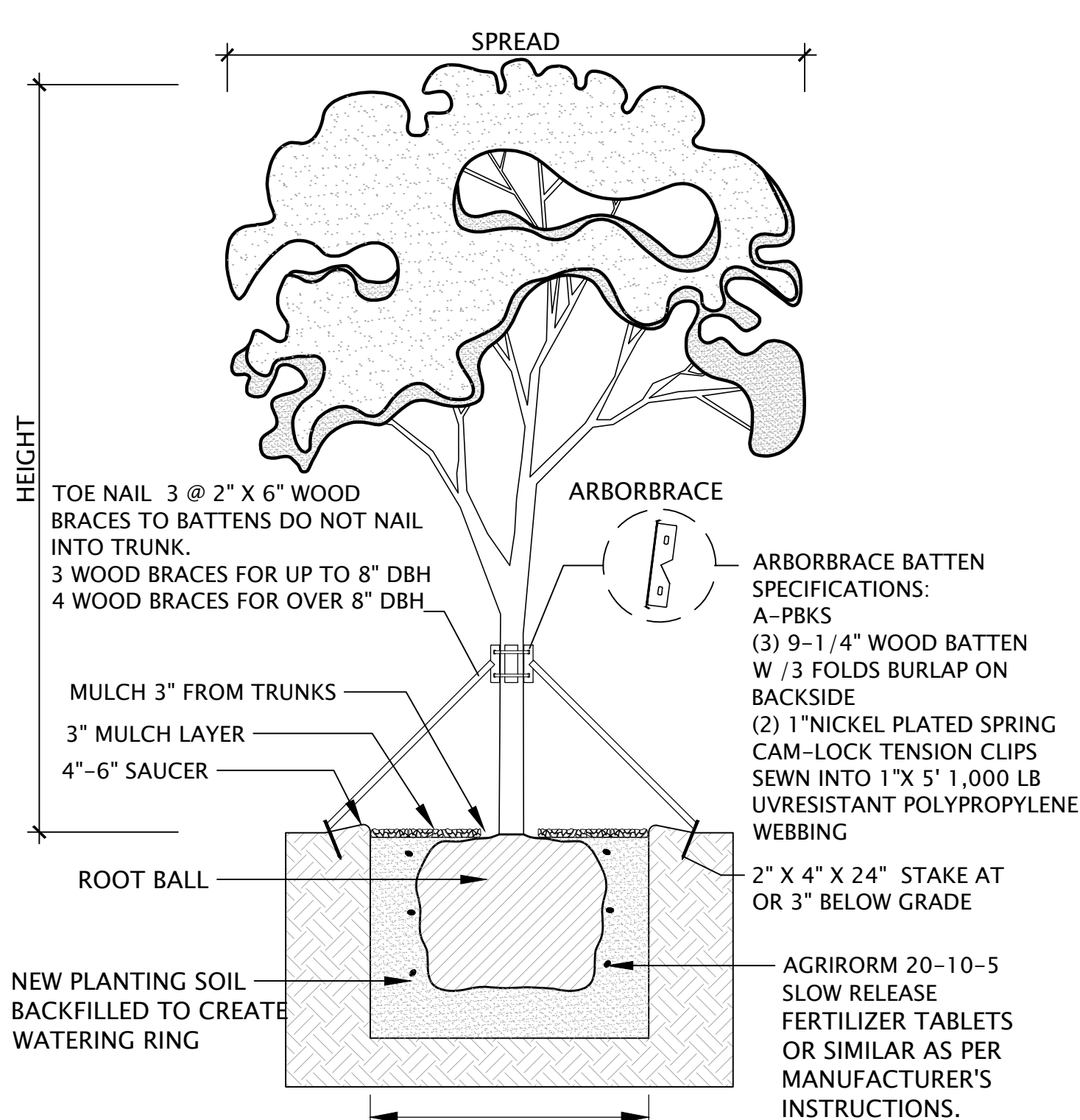
GROUND COVER PLANTING DETAIL
N.T.S.
NOTE 1: SPACING BETWEEN PLANTS O.C.
NOTE 2: SPACING TO HARDSCAPE EDGE TO BE SAME AS SPACING BETWEEN PLANTS AS PER PLANT LEDGED



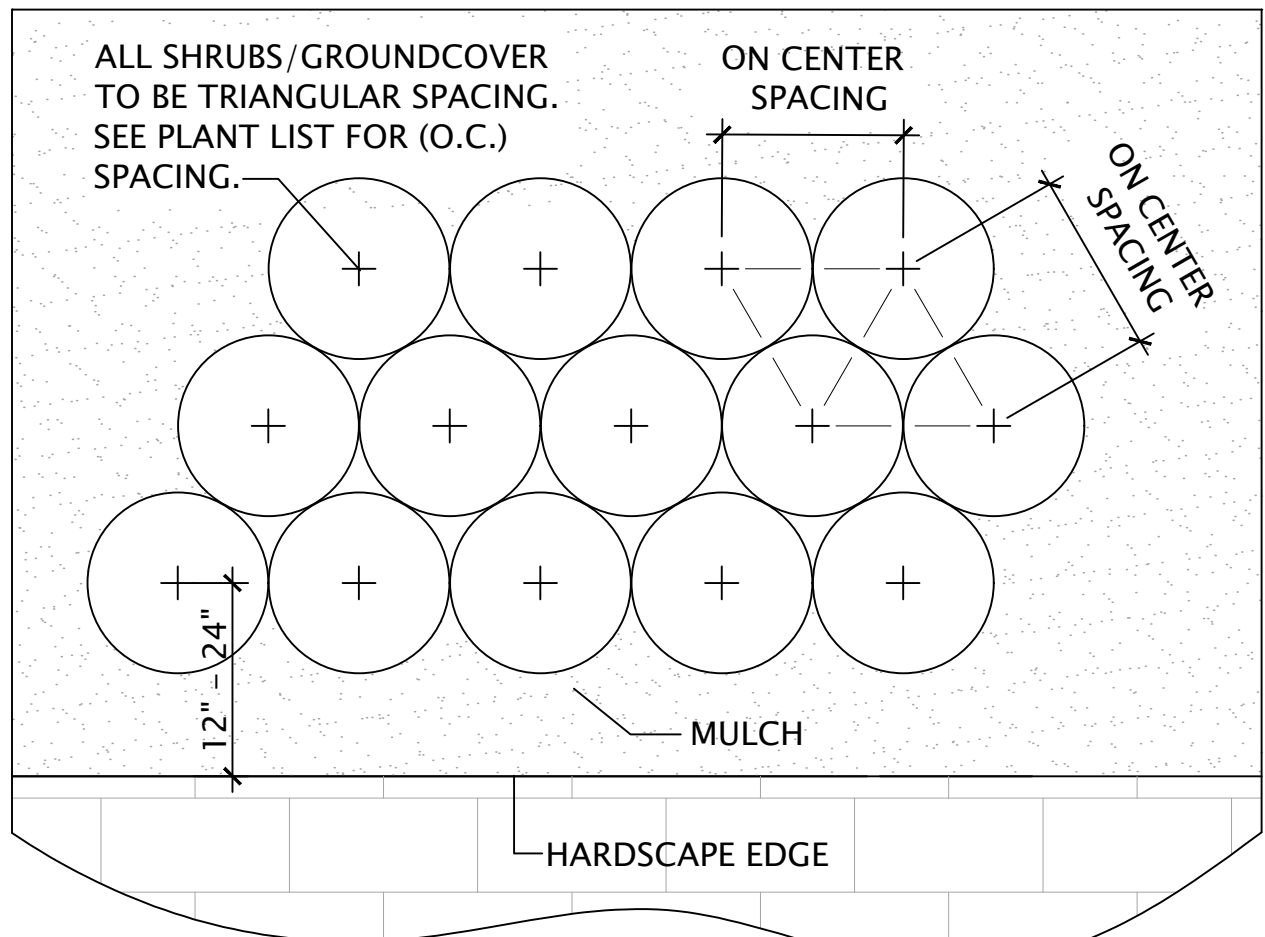
TYPICAL SPACING DETAIL AT HARDSCAPE EDGE
N.T.S.
NOTE 1: "O.C." WILL DEPEND ON SPECIFIED O.C.(ON CENTER) PLANTING DISTANCE IN PLANT LEGEND, OR AVERAGE ADULT PLANT SIZE. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.
NOTE 2- SPACE BETWEEN EDGE OF PLANTS AND BORDER OF HARDSCAPE SURFACES WILL DEPEND ON SPECIE OF PLANT. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.



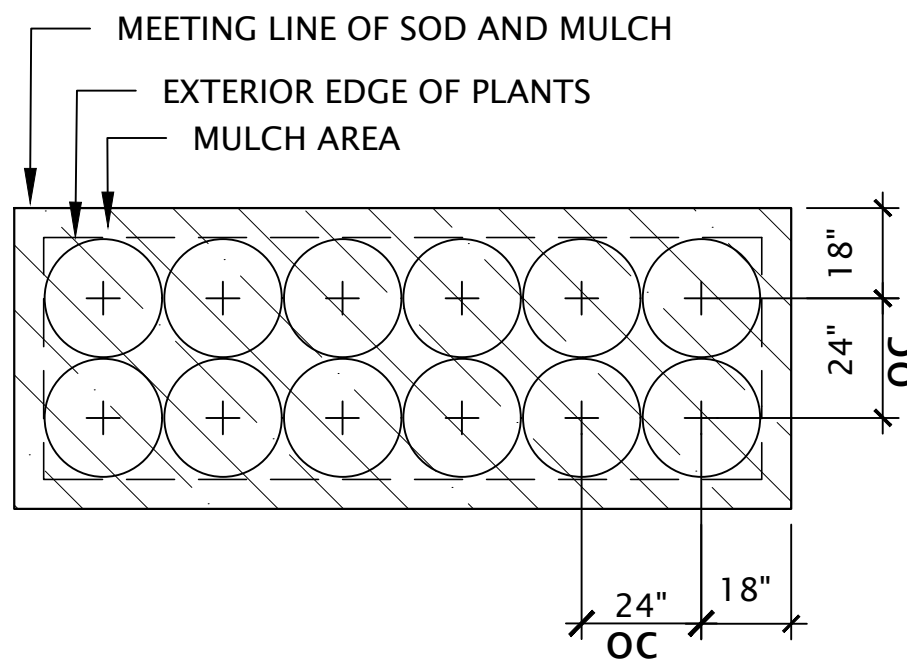
GROUND COVER PLANTING PATTERN
N.T.S.
NOTE 1: SPACING BETWEEN PLANTS O.C.
NOTE 2: SPACING TO HARDSCAPE EDGE TO BE SAME AS SPACING BETWEEN PLANTS AS PER PLANT LEDGED



TREE PLANTING DETAIL
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



GROUND COVER PLANTING PATTERN (OFFSET)
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



TYPICAL SPACING DETAIL AT SOD EDGE
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 SURFACES WILL DEPEND ON SPECIE OF PLANT. IF IN DOUBT CONSULT WITH LANDSCAPE ARCHITECT.

MAINTENANCE GUIDES FOR TREES AND SHRUBS:

A. ESTABLISHMENT:
THE ROOT FLARE SHOULD BE SLIGHTLY 1"-2" ABOVE THE SOIL LINE (GRADE). WATERING THOROUGHLY AFTER PLANTING HELPS ESTABLISH THE ROOTS. MULCHING AROUND THE BASE HELPS RETAIN MOISTURE AND SUPPRESS WEEDS. KEEP MULCH 6" AWAY FROM TRUNK AND AT GRADE LEVEL.

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, PHOSPHOROUS 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 ESTABLISHING 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 ATLANTIC 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:

NITROGEN RECOMMENDATIONS (LBS. N/1000 SQ. FT./ YEAR)

G.1. SPECIES	2-4
BAHAGRASS	5-7
BERMUDAGRASS	5-7
CENTPEDEGRASS	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 AIN THIS SHEET, LANDSCAPE CONTRACTOR AND/OR LANDSCAPE MAINTENANCE CONTRACTOR, AS WELL AS LICENSED PEST CONTROL AND FERTILIZING 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, AND ADHERE TO THE MIAMI DADE COUNTY FERTILIZATION ORDINANCE.

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: DAILY FOR 2 MONTHS, THEN 3 TIMES A WEEK 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 RESERACHED 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 HIMECLICK 1982. AS WELL AS TO MIAMI-DADE COUNTYS PUBLICATION GUIDE TO TREE PLANTING AND MAINTENANCE.

J. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH ANSI A300 PART 1 - PRUNING. UNDER SUPERVISION OF A CERTIFIED ISA ARBORIST.

K. FOR POST-PROJECT PLANTING IT IS CRUCIAL TO HAVE A MAINTENANCE PROGRAM FOR TREES AND SHRUBS. IT SHOULD INCLUDE PERIODIC , EVERY SIX MONTHS MINIMUM CERTIFIED ARBORIST INSPECTION AND RECOMMENDATIONS THAT INCLUDE PRUNING AND TRIMMING, FERTILIZATION, PEST AND DISEASE CONTROL, WATERING AND MULCHING.

GENERAL NOTES

1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS, PLANS AND SPECIFICATIONS, ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, ORDINANCES AND REGULATIONS, ALL CODES LISTED IN SPECIFICATIONS AND DRAWINGS SHALL BE INCLUSIVE OF ALL CODES, REGULATIONS AND REQUIREMENTS ADOPTED BY THE STATE OF FLORIDA, THE COUNTY OF MIAMI-DADE AND THE MUNICIPALITY WHERE PROJECT TAKES PLACE, INCLUDING ANY AMENDMENTS.
2. IT IS UNDERSTOOD THAT FOR ALL PURPOSES OF THE WORDS "LANDSCAPE DOCUMENTS" MEAN AND INCLUDE ALL PLANS, DRAWINGS, SKETCHES, NOTES, SPECIFICATIONS AND ANY OTHER OTHER DOCUMENTATION RELATIVE TO THIS PROJECT. THE ORIGINATION OF ALL INFORMATION IN THE LANDSCAPE DOCUMENTS IS FROM ORLANDO COMAS, ASLA, LANDSCAPE ARCHITECT AND/OR COMAS DESIGN GROUP, INC. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION. AND/OR CORRECTION. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, INSURANCES, WORKMEN COMPENSATION AND LICENSES AS WELL AS ALL PLANTS AND LANDSCAPE MATERIAL NECESSARY FOR THE PROPER INSTALLATION OF ALL TREES, SHRUBS, GROUND COVERS, GRASS, AND ANY OTHER BOTANICAL (PLANT) OR NON-BOTANICAL MATERIAL SHOWN IN THE LANDSCAPE ARCHITECTURAL DRAWINGS. THIS MATERIALS SHALL INCLUDE ALL MATERIALS SPECIFIED WHICH ARE NOT INCLUDED IN THE PLANT LEGEND(S) OR CHARTS.
3. LANDSCAPE CONTRACTOR IS REQUIRED TO PROCURE AND OBTAIN ANY NECESSARY PERMITS APPLICABLE FOR THE SUCCESSFUL COMPLETION OF THIS PROJECT, IF APPLICABLE AS WELL AS REGISTRATION IN MUNICIPALITIES OR COUNTIES REQUIRING SUCH REGISTRATION. ALL PLANTS AND GRASS
- (sod) SHALL BE WARRANTED FOR SIX (6) MONTHS, PALMS SHALL BE WARRANTED FOR A PERIOD OF ONE (9) MONTHS, FROM THE DATE OFFINAL ACCEPTANCE OF COMPLETED WORK BY THE LANDSCAPE ARCHITECT AND BUILDING OFFICIALS).
4. DURING WARRANTY PERIOD IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY DEAD MATERIAL. FOR ONE OF THE SAME SPECIFICATION AS ORIGINALLY SPECIFIED, WITHIN 15 DAYS OF NOTICE BY OWNER.
5. LANDSCAPE CONTRACTOR SHALL SUBMIT SEPARATE ESTIMATE FOR 12 MONTHS OF MAINTENANCE SERVICE. A SCHEDULE OF RE-MULCHING, FERTILIZING AND SPRAYING PROGRAM SHALL BE PART OF THIS MAINTENANCE ESTIMATE.
6. 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.
7. CONTRACTOR SHALL PRIOR TO PLANTING, PROVIDE PHOTOS OF ALL PLANT MATERIAL, MARKED WITH A "P" OR "X" IN A PLANT LEGEND'S COLUMN REQUESTING IMAGES. COLUMN IS LABELED NOTE I.7, 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.
8. ALL VINES REQUIRE A CLIMBING STRUCTURE FOR THEM TO GROW INTO WHICH SHALL BE SUPPLIED BY LANDSCAPE CONTRACTOR AND INCLUDED AS PART OF THE WORK WHENEVER A VINE IS SPECIFIED IN THIS PLAN, EVEN IF CLIMBING STRUCTURE IS NOT SPECIFIED. CONSULT DETAILS OF STRUCTURE WITH LANDSCAPE ARCHITECT.
9. LANDSCAPE CONTRACTOR SHALL COORDINATE THIS PLAN WITH, NOTES, DETAILS AND SPECIFICATIONS AND REQUEST ALL SHEETS WHICH MAKE UP THE LANDSCAPE ARCHITECTURE DOCUMENTS, SUCH AS GRADING PLANS, HARDSCAPE PLANS, DETAILS, PLANTING PLANS, IRRIGATION PLANS AND LIGHTING PLANS). ALL LANDSCAPE SHEETS ARE PART OF THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO REQUEST, READ AND UNDERSTAND ALL THE INFORMATION CONTAINED IN THIS SHEETS INCLUDING DETAILS, LEGEND AND NOTES OF THE LANDSCAPE ARCHITECTURE PLAN SET.
10. FOR ALL TREES THE CALIPER MEASUREMENT OF THE TRUNK SHALL MEAN THE DIAMETER AT BREAST HEIGHT OR DBH. TREE TRUNKS SHALL BE MEASURED AT THE HEIGHT OF AN ADULT'S BREAST, OR AT 4.5 FEET ABOVE GRADE, AT THAT HEIGHT, MEASURE THE TREE'S CIRCUMFERENCE AND DIVIDE BY PI (3.14) THE RESULT WILL BE THE TREE'S DIAMETER OR DBH.
11. CRITICAL ROOT ZONE (CRZ) ALSO CALLED THE ROOT PROTECTION ZONE (RPZ), IS DETERMINED FOR EACH INCH OF TREE TRUNK DIAMETER AT BREAST HEIGHT (DBH), ALLOW ONE FOOT FOR CRITICAL ROOT ZONE FOR EVERY INCH OF TRUNK DBH.
- II. DELIVERY STORAGE AND HANDLING
1. PLANTS SHALL BE PROPERLY PROTECTED DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS OR LEAVES DESICCATION. UNACCEPTABLE PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY FROM SITE. ALL PLANTS ARE TO BE PROPERLY MAINTAINED AND PROTECTED WHILE STORED AT SITE.
2. DURING DELIVERY, PRIOR TO AND DURING PLANTING OF LAWN AREAS, SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF ROOTS TO SUN. ALL SOD SHALL BE STACKED DURING INSTALLATION SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
- III. JOB CONDITIONS
1. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE FOR CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. REPORT IN WRITING TO THE LANDSCAPE ARCHITECT ANY AND ALL CONDITIONS CONTRARY TO THOSE SHOWN IN THE DRAWINGS. DO NOT START OR PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. LANDSCAPE CONTRACTOR SHALL VERIFY THE PLANT QUANTITIES NECESSARY TO COMPLETE THE WORK AS PER DRAWING AREAS, PLANT LIST PROVIDED AND QUANTITIES SHOWN IN THE PLANTING PLAN SHOULD SERVE ONLY AS A GUIDE AND NOT AS THE REQUIREMENT QUANTITIES, TOTAL QUANTITY COUNT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY.
2. LANDSCAPE CONTRACTOR SHALL EXERCISE CARE IN ALL WORK TO PREVENT DAMAGE OF ANY EXISTING SPRINKLER PIPING AND WIRES AS WELL AS ANY OTHER IRRIGATION EQUIPMENT. CARE SHALL ALSO BE EXERCISED NOT TO DAMAGE ANY OVERHEAD WIRES OR CABLES. LANDSCAPE CONTRACTOR SHALL AT ALL TIMES PROTECT ALL MATERIALS AND WORK AGAINST INJURY TO PUBLIC AS A RESULT OF HIS NEGLIGENCE DURING THE COURSE OF HIS WORK.
- IV. SITE DEMOLITION NOTES
1. REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
2. VERIFY THE LOCATION AND DIMENSION OF ITEMS TO BE REMOVED PRIOR TO COMMENCEMENT OF THE WORK.
3. ALL CONCRETE AND ASPHALT REMOVAL SHALL BE SAW CUT. EDGES OF MATERIAL TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES TO BE DONE WITH CARE AND AT NO COST TO THE OWNER. ITEMS ENCOUNTERED BELOW GRADE AND NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR.
4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. REMOVE SALVAGED MATERIALS AS INDICATED WITH CARE AND STORE ON SITE. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY LANDSCAPE ARCHITECT.
5. REMOVE DEMOLISHED MATERIALS FROM SITE. DISPOSAL BY BURNING AND/OR BURYING IS PROHIBITED.
6. CONTACT THE LOCAL UNDERGROUND SERVICE UPDATE FOR UTILITY LOCATION AND IDENTIFICATION PRIOR TO DEMOLITION.
7. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS; ADDITIONAL UTILITIES NOT SHOWN ON THE DRAWINGS MAY EXIST. VERIFY IN THE FIELD THE DATA SHOWN, AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE GENERAL CONTRACTOR AND/OR THE PROJECT SUPERINTENDENT BEFORE STARTING WORK.
- V. LAYOUT NOTES
1. COORDINATE ANY ON-SITE DIMENSIONS AND CONDITIONS REQUIRED WITH GENERAL CONTRACTOR. IN PLANS, NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE. LARGER SCALE OVER SMALLER SCALE, ADDENDA AND CLARIFICATIONS OVER PREVIOUS DOCUMENTS.
2. CONTRACTOR TO LAY OUT HARDSCAPE ELEMENTS AND VERIFY LAYOUT WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION, IF HARDSCAPE ELEMENTS ARE DIMENSIONED ON A LANDSCAPE LAYOUT PLAN. ANY DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY FOR PROPER CLARIFICATION OR ADJUSTMENT.
3. FOR DIMENSIONS OF EXISTING BUILDINGS, PROPOSED BUILDING IMPROVEMENTS, AND RELATED WORK, REFER TO THE ARCHITECTURAL DRAWINGS.
4. WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTER LINES.
5. MEASUREMENTS ARE TO FACE OF BUILDING, WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES IS AS INDICATED.
6. INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
7. PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
8. EXPANSION JOINTS IN CONCRETE WALKWAYS SHALL BE LOCATED TWENTY FEET 20'-0" O.C., MAXIMUM OR AS INDICATED.
- VI. LANDSCAPE MATERIALS
1. WATER SHALL BE POTABLE.
2. STAKING MATERIAL - SEE PLANTING DETAIL IN DRAWINGS FOR METHOD AND MATERIALS.
3. FERTILIZING TABLETS - ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE AGRIFORM PLANTING TABLETS (OR EQUAL) 20-10-5 FORMULA. TABLETS SHALL BE PLACED MIDWAY TO PLANT BALL AT THE RATES SPECIFIED BY THE MANUFACTURER. LANDSCAPE CONTRACTOR MAY SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL. LANDSCAPE CONTRACTOR MAY SUBMIT A DIFFERENT FERTILIZING METHOD TO LANDSCAPE ARCHITECT IN WRITING.
4. PLANTS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIES AND SPECIFICATIONS ON THE DRAWINGS, AS FOLLOWS:
- a. PLANTS SHALL HAVE THE HABIT OF GROWTH WHICH IS NORMAL FOR THE SPECIES, THEY SHALL BE HEALTHY, VIGOROUS AND FREE FROM INSECT PESTS, PLANT DISEASES AND INJURIES.
- b. ALL PLANTS SHALL BE "GRADE NO. 1," AS SPECIFIED BY THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY LATEST EDITION. TREES GRADED FLORIDA FANCY SHOULD HAVE ONE DOMINANT TRUNK UP THROUGH THE CROWN TO THE TREE. THE RECEPTION WOULD BE FOR SMALL-Maturing TREES (STANDARD OR SUCH AS CRAPE, MYRTLE, JAPANESE LIGSTRUM AND OTHERS. BRANCH DIAMETER SHOULD NOT BE LARGER THAN 2/3 THE DIAMETER OF THE TRUNK MEASURED DIRECTLY ABOVE THE BRANCH UNION. THERE SHOULD BE NO FLUSH CUTS ANYWHERE ON THE TREE, AND NO OPEN WOUNDS ON THE TRUNK OR MAJOR BRANCHES. THE CROWN SHOULD BE FULL OF FOLIAGE AND SHOW LITTLE, IF ANY, EVIDENCE OF CHLOROSIS, NECROSIS, DISEASE OR INSECT INFESTATION. THE ROOT BALL SHOULD BE APPROPRIATELY SIZED AND BE FREE OF SEVERE DEFECTS. GRADES AND STANDARDS DO NOT APPLY TO SPECIALTY TREES LIKE BRAIDED STEMS, POODLES ESPALIER, TOPIARY AND BONSAI.
- c. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AS TO MEETING THE SPECIFICATIONS OF THE DRAWINGS. A PRIVATE PROFESSIONAL MAY BE HIRED OR THE LOCAL FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES MAY BE CALLED BY OWNER TO GRADE THE INSTALLED PLANT MATERIAL IF ANY DISPUTE ARISES BETWEEN LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT.
- d. UNLESS SPECIFIED ALL PLANTS SHALL BE NURSERY GROWN.
- e. SUBSTITUTIONS SHALL BE ONLY WITH LANDSCAPE ARCHITECTS WRITTEN AUTHORIZATION.
- f. NO PLANT SHALL REMAIN UNPLANTED FOR A PERIOD LONGER THAN FIVE DAYS.
- g. ALL FIELD GROWN MATERIAL SHALL BE BALLED AND BURLAPED AND PROPERLY PROTECTED FROM SUN AND DRYING WINDS.
- h. TREES AND PALMS DELIVERED WITH DAMAGE TO THEIR TRUNKS, OR DAMAGED AS A RESULT OF HANDLING THEM AT THE JOBSITE WILL NOT BE ACCEPTED, NOR ANY TREES OR PALMS WITH FIRE DAMAGE.
- VI. MULCH
- a. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE AMOUNT OF REQUIRED MULCH FOR THE ENTIRE PROJECT AND INCLUDE THIS AMOUNT IN THE TOTAL CONTRACT QUOTE TO OWNER OR GENERAL CONTRACTOR.
- b. UNLESS SPECIFIED IN THE PLANS, MULCH SHALL BE AN ACCEPTABLE TYPE TO OWNER AND LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL OBTAIN LANDSCAPE ARCHITECT'S APPROVAL AS TO THE TYPE AND QUALITY BEING PROPOSED. MULCH SHALL BE CLEAN AND FREE OF WEEDS, MOSS, STICKS OR ANY OTHER KIND OF DEBRIS. CYPRESS MULCH OR TINTED MULCH IS NOT ACCEPTABLE. NO EXCESSIVE MULCHING AND HEAVING MOUNDS WILL BE ALLOWED THAT CAN PULL FEEDER ROOTS TO THE SURFACE, WHICH STRESS THE PLANT DURING PERIODS OF DRY CONDITIONS. TOO MUCH MULCH CAN CAUSE SUFFOCATION OF THE PLANT AS IT HINDERS OXYGEN FROM GETTING TO THE PLANTS. SPREAD MULCH EVENLY TO THE STANDARD RECOMMENDED DEPTH OF 2-3".

- c. ALLOW SPACE FOR MULCH WHEN DOING FINISH GRADING SO THAT TOP OF MULCH IS 2 INCHES MINIMUM BELOW ANY ADJACENT HARDSCAPE SURFACE SUCH AS DECKS, COURTS, DRIVEWAYS, WALKWAYS, ETC. ...
- d. ROCK AND STONE SHALL NOT BE USED AS A MULCH SUBSTITUTE. THEY RADIATE HEAT WITHIN THE PLANT BED GENERATING STRESS AND DO NOT OFFER ANY HORTICULTURAL VALUE FOR PLANTS. ORGANIC MULCH'S HOLDS MOISTURE AND MINIMIZES TEMPERATURE FLUCTUATIONS BETTER.
- e. PLACING EXCESSIVE MULCH AROUND THE TRUNK OR STEMS SHALL NOT BE ACCEPTABLE. ADEQUATE SPACE HAS TO BE AVAILABLE SO THAT THE PLANT CAN BREATHE. A COMMON PRACTICE IS TO PILE THE MULCH UP AROUND THE BASE OF A TREE ALSO KNOWN AS "MULCH VOLCANO" BECAUSE THE TREE TRUNK STICKS OUT OF A MOUND OF MULCH. THIS PRACTICE TRAPS MOISTURE AGAINST THE TREE BARK AND ENCOURAGES BACTERIAL AND FUNGAL DISEASE. DEEP APPLICATIONS OF MULCH AROUND TREE TRUNKS ENCOURAGES ROTTING OF THE CAMBIUM OR BARK OF THE TREE. MULCH MUST BE TAPERED AWAY FROM THE TRUNK OF TREES BEFORE APPLYING THE RECOMMENDED DEPTH OF 2-3".
- VI. LANDSCAPE PLANTING NOTES
1. SOURCE OF LANDSCAPE DOCUMENTS IS ORLANDO COMAS, ASLA, LANDSCAPE ARCHITECT AND/OR COMAS DESIGN GROUP, INC. REFER TO LANDSCAPE ARCHITECT OR CIVIL ENGINEER'S GRADING AND DRAINAGE PLANS FOR RUNOFF DRAINAGE SWALES INFORMATION. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS OR IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
2. IF ANY PART OF THIS PLAN CANNOT NOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT LANDSCAPE ARCHITECT PRIOR TO COMMENCING OR CONTINUING WORK.
3. EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
4. LANDSCAPE CONTRACTOR SHALL VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES PROVIDED IN THE PLANS PLANT LEGEND OR CHARTS ARE ONLY FOR PURPOSES OF PROVIDING OWNER WITH PRELIMINARY INFORMATION ONLY. IF QUANTITIES ON PLANT LEGEND OR CHARTS DIFFER FROM GRAPHICS REQUIRED COUNTS IN PLANS OR IN PHYSICAL SITE CONDITIONS, THEN GRAPHICS REQUIRED COUNTS IN PLANS OR IN PHYSICAL SITE CONDITIONS SHALL PREVAIL OVER COUNTS IN PLANT LEGEND OR CHARTS.
5. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION PRIOR TO COMMENCING ANY WORK.
6. ALL SHRUBS TO BE PLANTED NOT LESS THAN OF 24", AND GROUND COVERS A MINIMUM OF 12"-18" DEPENDING ON SPECIE FROM THE EDGE OF ANY HARDSCAPE (WALKS, BUILDING WALLS, POND'S EDGE, ETC.) SHRUBS SUCH AS IXORA, RAPHIOLEPSIS AND ALL 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.
7. 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, NYLON STRAPS OR AS SHOWN IN THE PLANTING DETAILS, DEPENDING ON SPECIE AND IN CONSULTATION WITH LANDSCAPE ARCHITECT SHALL BE USED. NO NAILS, SCREWS, METAL STRAPS OR WIRES ARE TO BE USED DIRECTLY AGAINST THE TREES OR PALMS TRUNKS.
8. PERFORM EXCAVATION UTILITIES IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY, BY HAND. THE LANDSCAPE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
9. TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE OR CONTAINER LEVEL, OR 2"-3" ABOVE GRADE. SEE DETAILS.
10. TREES TO BE PLANTED A MINIMUM OF 5 FEET FROM PAVEMENT OR ANY HARDSCAPE EDGE, PRIVACY WALLS OR FENCE WALLS.
11. PRUNE OR TRIM EXISTING OR NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.
12. LEVEL VERTICALLY AND EQUALLY SPACED IN ALL DIRECTIONS TREES, PALMS AND LARGE SHRUBS AS REQUIRED.
13. FINISH GRADES OF PLANTER AREAS SHALL BE 3-4 INCHES BELOW ADJACENT PAVING UNLESS OTHERWISE NOTED, TO ALLOW FOR 2"-3" ADDITIONAL MULCH BED TO BE BELOW HARDSCAPE SURFACE.
14. PROVIDE SPECIFIED EDGING IF SPECIFIED IN PLANS.
15. CUT AND REMOVE BURLAP FROM TOP 1/3 OF BALL IF TREES OR PALMS ARE BALLED AND BURLAPED.
16. LANDSCAPE ARCHITECT IS TO REVIEW PLANT MATERIALS AT SOURCE OR BY PHOTOGRAPHS ACCORDING TO INSTRUCTIONS IN PLANS PRIOR TO DIGGING OR SHIPPING OF PLANT MATERIALS.
17. WATER TO ALL PLANTS SHALL BE POTABLE.
18. ALL PLANT MATERIAL, TREES, PALMS, SHRUBS AND GROUND COVERS ARE TO BE PLANTED LEVEL WITH FINISH GRADE. NO PLANT MATERIAL ROOTS ARE TO BE EXPOSED ABOVE FINISH GRADE.
19. NO ROCKS OR PEBBLES LARGER THAN 1/4" IN DIAMETER ARE TO BE VISIBLE PRIOR TO INSTALLATION OF MULCH. LANDSCAPE CONTRACTOR SHALL VERIFY THAT NO ROCKS OR PEBBLES OVER 1/4" IN DIAMETER ARE SEEN ONCE WATER IS APPLIED TO MULCH AT THE COMPLETION OF PLANTING.
20. ALL SOD AREAS AS SHOWN IN THE PLANS, INCLUDING RIGHT OF WAY AREAS, SHALL HAVE A TOPSOIL BED OF 4" MINIMUM AS PREPARATION FOR THE SOD PANELS
21. SOD SHALL BE INSTALLED WITH STAGGERED JOINTS CLOSELY BUTTED AND WITH AN EVEN SURFACE ACCORDING TO REQUIRED FINISH GRADE. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO WATER ALL SODDED AREAS EVERY DAY ONCE IT HAS BEEN INSTALLED, UNTIL THE SOD IS ESTABLISHED AND/OR THE IRRIGATION SYSTEM IS OPERATIONAL.
22. MAINTENANCE ON ALL PLANT MATERIAL & SOD FOR THIS WORK BEGINS AT THE TIME OF INSTALLATION AND CONTINUES FOR 60 DAYS AFTER THE COMPLETION OF THE WORK. MAINTENANCE SHALL INCLUDE WATERING, REMOVAL OF DEAD OR INJURED BRANCHES, FRONDS AND LEAVES, RESETTING OF PLANTS TO PROPER GRADE OR UPRIGHT POSITION, TOP DRESSING AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN THE PLANT MATERIAL IN HEALTHY GROWING CONDITIONS.
23. TREES TO BE PLANTED A MINIMUM OF 5 FEET FROM PAVEMENT OR ANY HARDSCAPE EDGE, PRIVACY WALLS OR FENCE WALLS.
24. 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.
25. 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.
26. ANY RAILROAD TIE, OOLITE STONE OR OTHER TYPE OF SPECIFIED RETAINING WALLS IN LANDSCAPE DOCUMENTS ARE TO BE INCLUDED AND INSTALLED 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 OF PROPOSED LOCATIONS PRIOR TO DIGGING TRENCHES FOR RETAINING WALLS.
27. 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.
28. 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.
29. IF LANDSCAPE CONTRACTOR FINDS AVAILABILITY DIFFICULTIES 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.
30. IN ABSENCE OF LANDSCAPE CONTRACTOR OR A DESIGNATED SUPERVISOR OF THE LANDSCAPE CONTRACTOR AT THE WORK SITE, LANDSCAPE ARCHITECT HAS THE OWNER'S GIVEN RIGHT TO PROVIDE INSTRUCTIONS TO LANDSCAPE CONTRACTOR'S EMPLOYEES OR 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. ALL SPECIFIED VINES REQUIRE A STRUCTURE FOR THEM TO GROW INTO. THESE STRUCTURES (TRELLISES) SHALL BE SUPPLIED BY LANDSCAPE CONTRACTOR AND INCLUDED AS PART OF THE WORK. LANDSCAPE CONTRACTOR SHALL PROVIDE DETAILS OF STRUCTURE FOR LANDSCAPE ARCHITECT APPROVAL. STRUCTURES SHALL BE JAKOB'S TRELLIS SYSTEMS (INFO@JAKOB-USA.COM) OR SIMILAR.
32. LANDSCAPE CONTRACTOR SHALL REVIEW THE LANDSCAPE DOCUMENTS INCLUDING GRADING PLAN, IRRIGATION PLAN AND LIGHTING PLAN WHICH ARE PART OF THE LANDSCAPE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL LANDSCAPE DOCUMENTS WITH GENERAL CONTRACTOR AND ANY OTHER SUB CONTRACTOR TO FULLY UNDERSTAND ANY WORK OVERLAP AMONG THE DIFFERENT CONTRACTING DISCIPLINES. 34. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.
33. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO REMOVE ALL WEEDS, ANY UNDESIRABLE VEGETATION AND ROCKS THAT HAS BEEN BROUGHT TO THE SITE WITH PLANT MATERIAL AND PLANTING SOIL. AT NO COST TO THE OWNER.
34. ALL AREAS CONSIDERED RIGHT-OF-WAY AREAS, LABELED AS SUCH OR NOT IN THE LANDSCAPE PLANS, ARE TO BE FULLY SODDED AND BE PROVIDED WITH FULL COVERAGE. IRRIGATION AS PART OF THE LANDSCAPE CONTRACTOR'S AGREEMENT WITH OWNER AND/OR GENERAL CONTRACTOR. SOD IN RIGHT-OF-WAY AREAS IS REQUIRED REGARDLESS OF IT BEING LABELED AS SOD AREAS OR NOT IN THE LANDSCAPE PLANS.
35. MOST PALMS ARE SELF CLEANING THEREFORE NO PALMS ARE TO BE PLANTED IN PROXIMITY OR CLOSE TO A HARDSCAPE OR PEDESTRIANS AND PLAY AREAS LOCATION WHERE FALLING FRONDS MAY CAUSE PERSONAL OR PROPERTY DAMAGE. LANDSCAPE CONTRACTOR MUST BE OBSERVANT OF THIS CONDITION.
36. AS A BASIC GENERAL RULE PLANTS TO BE PLANTED IN THE SHADE SHALL BE IN A SHADE HOUSE OR SHADED AREA IN THE NURSERY. PLANTS TO BE PLANTED IN THE SUN SHALL BE IN THE SUN OR A SUNNY AREA AT THE NURSERY. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SELECT PLANTS ACCORDING TO THEIR LOCATION AT NURSERY AND WHERE IN THE JOBSITE THEY ARE INDICATED TO BE PLANTED AND BE AWARE OF THE PLANT MATERIAL LIGHT PREFERENCE. IF IN DOUBT LANDSCAPE CONTRACTOR SHALL CONSULT WITH LANDSCAPE ARCHITECT.
- VIII. SOIL PREPARATION
1. SOIL PREPARATION OF A LANDSCAPE DESIGN IS A CRITICAL FACTOR IN CREATING A HEALTHY AND LONG-LASTING LANDSCAPE. REMOVE EXISTING TOPSOIL IF ANY AND STOCKPILE ON SITE. TOPSOIL TO BE INCORPORATED BACK INTO THE SOIL AT A LATER DATE. NEW PLANTING SOIL MIX SHALL BE APPROXIMATELY 45% SAND, 40% SILT, 10% CLAY AND 5% ORGANIC MATERIAL WITH A PH LEVEL NEAR SEVEN.
2. PRIOR TO THE INSTALLATION OF THE LANDSCAPE AND IRRIGATION SYSTEM, CONTRACTOR TO PREPARE SOIL TO ENSURE A PROPER ENVIRONMENT FOR PLANT ROOT DEVELOPMENT.
3. IF ANY AMENDMENTS ARE SPECIFIED IN PLANS, THEY SHOULD BE MIXED THOROUGHLY WITH EXISTING SOIL TO ENSURE PROPER SOIL CONDITIONS PRIOR TO PLANTING.
4. DURING THE REMAINDER OF THE LANDSCAPE INSTALLATION, VARIOUS AREAS OF THE SITE MAY BE RE-COMPACTED DUE TO THE USE OF EQUIPMENT AND VEHICLES. PRIOR TO THE INSTALLATION OF PLANT MATERIAL AND/OR SOD IN THESE AREAS, THE COMPACTION OF THESE SHALLOW AREAS SHALL BE REDUCED OR TURNED OVER USING AN AIRSPADE OR SIMILAR METHOD TO ALLOW SOIL TO HAVE GREATER WATER AND NUTRIENT ABSORPTION.
- IX. TREE PRESERVATION PLANTING NOTES
1. ALL EXISTING TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION & MITIGATION PLAN. THE FENCE SHALL BE FIRMLY ANCHORED INTO THE GROUND AND SHALL REMAIN UPRIGHT AND INTACT UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE. CONSTRUCTION ACTIVITIES, STORAGE AND/OR GARBAGE SHALL NOT OCCUR WITHIN THESE PROTECTED AREAS. THE GENERAL CONTRACTOR ASSURE THAT NO SUBCONTRACTOR INFRINGES INTO THESE AREAS WITH ARABAGE OR CONSTRUCTION MATERIALS. THE LOCATION OF THE PROTECTIVE BARRIER SHALL BE AS SHOWN IN THE LANDSCAPE PLANS AND SHALL BE IN PLACE BEFORE ANY CONSTRUCTION WORK STARTS.
2. WHEN EXCAVATION NEAR A TREE TO BE PROTECTED MUST BE CARRIED OUT, DAMAGE CAN BE LIMITED BY ROOT PRUNING. ROOT PRUNING SHALL BE COMPLETED BEFORE GRADING IS STARTED AND SHALL OCCUR BENEATH THE PROTECTIVE FENCING AS SHOWN ON THE PLAN.
- X. ROOT PRUNING SHALL BE PERFORMED, WHEN REQUIRED BY HAND AND USING A MECHANICAL SAW CUT OF ANY ROOTS 2" OR MORE IN DIAMETER. LIMITS OF TRENCING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY TRENCING IN THE FIELD. DO NOT TRENCH FOR IRRIGATION OR ELECTRICAL WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCING REQUIRED FOR UTILITY WORK WITH THE LANDSCAPE PLANS.

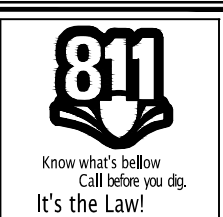
- XI. CLEANUP
1. PLANT CONTAINERS, WIRES, HOSES, BAGS AND ANY OTHER LANDSCAPE MATERIAL SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS. EXCESS SOIL, STONES AND DEBRIS SHALL BE REMOVED FROM THE SITE OR DISPOSED OF AS DIRECTED BY OWNER OR GENERAL CONTRACTOR.
- XII. ACCEPTANCE OF WORK
1. WORK SHALL BE ACCEPTED UPON FINAL INSPECTION AND APPROVAL BY LANDSCAPE ARCHITECT. ACCEPTANCE SHALL BE UPON ADHERENCE TO THE SPECIFICATIONS ON THE DRAWINGS. INSPECTION SHALL BE NO LONGER THAN FIVE DAYS AFTER COMPLETION AND CLEANUP OF WORK, AT WHICH TIME THE LANDSCAPE ARCHITECT, UPON ACCEPTANCE OF WORK, SHALL ISSUE A CERTIFICATE OF COMPLETION AS REQUIRED BY MIAMI-DADE LANDSCAPE ORDINANCE. THERE SHALL BE NO PARTIAL ACCEPTANCE OF WORK.
2. LANDSCAPE CONTRACTOR SHALL HAVE TEN (10) DAYS TO REPLACE OR CORRECT ANY MATERIAL OR WORK NOT ACCEPTED BY THE LANDSCAPE ARCHITECT.
- XIII. HOLD HARMLESS
1. BY ACCEPTING THIS PLAN, SUBMITTING IT TO THE MUNICIPAL AUTHORITIES OR ANY OTHER BUILDING AND ZONING AUTHORITY AND OBTAINING A PERMIT, 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.

XIII. TOTALITY OF DESIGN SPECIFICATIONS, FURNITURE AND ACCESSORIES

1. THE WRITTEN SPECIFICATIONS IN THIS PLAN, TOGETHER WITH ANY AND ALL OTHER WRITTEN SPECIFICATIONS IN THE LANDSCAPE ARCHITECTURAL PLANS, ANY AND ALL GRAPHIC DRAWINGS AND PLANS, TABLES, LEGENDS, NOTES, GENERAL NOTES, AND ANY AND ALL GRAPHIC OR WRITTEN DATA INTENDED TO CONVEY THE DESIGN INTENT FOR PLANT SELECTIONS, SHAPES AND FORMS, PAVING, FINISH MATERIAL, SELECTIONS, AND ANY SUPPLEMENTAL REVISIONS, DEFINITIONS OR REPLIES TO RFIS SHALL BE CONSIDERED THE TOTALITY OF THE PROJECT'S SPECIFICATIONS AND SHALL BE PART OF THE LANDSCAPE CONTRACTOR'S CONTRACT.
2. ALL FURNITURE AND ACCESSORIES SPECIFIED IN THE LANDSCAPE ARCHITECTURAL PLANS (DISPOSITION, PLANTING, IRRIGATION AND LIGHTING) ARE SPECIFIED AS A RECOMMENDATION. ARCHITECT SHALL COORDINATE THE SPECIFICATION WITH GENERAL CONTRACTOR AND CONSULT WITH OWNER REGARDING PRICES AND BUDGETS. ALL FURNITURE AND ACCESSORIES MAY BE SUBSTITUTED FOR OTHER BRANDS WITH SIMILAR DESIGN.

ABBREVIATION TABLE

APPROX	APPROXIMATE	EXIST	EXISTING
AVG	AVERAGE	FFE	FIN. FLOOR ELEV.
B+H	BALLED AND BURLAPED	O.C.	ON CENTER
CAL	CALIPER	MAX	MAXIMUM
CL	CENTER LINE	MIN	MINIMUM
CONC	CONCRETE	NTS	NOT TO SCALE
DIA	DIAMETER	PL	PROPERTY LINE



EXCAVATION NOTE

CALL SUNSHINE STATE ONE CALL CENTER OF FLORIDA AT 1-800-432-4770 (TOLL FREE) 48 HOURS BEFORE DIGGING. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND. IF NECESSARY, THE LANDSCAPE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER

PLANT LEGEND										
	Code	Botanical name	Common name	DBH	Height	Canopy	Nat.	Quantity	Specific.	Note I.1.7
LANDSCAPE REQUIREMENT TREES										
	PDM	Phoenix dactylifera	Medjool	10"	18'	8'	Y	4		
	CDI	Coccoloba diversifolia	Pigeonplum	2.5"	12'	5'-6'	Y	8	4' c.t. minimum / 2" DBH	
	QVI	Quercus virginiana	Live Oak	2.5"	15'	8'	Y	3		
SMALL TREES										
	GSA	Guaiaacum Sanctum	Lignum Vitae	2.5"	12'	5'-6'	N	4	4' c.t.	
	PRA	Pimenta racemosa	Bay rum tree	2.5"	10'	6'	N	21	2.5" DBH/ 4' c.t.	
	MFR	Myrcianthes fragrans	Simpson stopper	2.5"	10'	6'	N	4	4' c.t.	
SHRUBS										
	AIM	Alcantarea Imperialis	Giant Bromeliad	24"	24"	N		20		P
	APU	Alpinia Purpurata	Red Ginger	36"	24"	N		19		
	ASK	Androlepis Skinnerii	Bromeliad	-	-	N		9		
	AAT	Agave attenuata	Fox Tail Agave	24"	24"	N		12	20" o.c.	
	AZE	Alpinia Zerumbet	Shell Ginger	2'-3"	4'	N		14		
	CIC	Chrysobalanus Icaoe	Cocoplum	24"	24"	Y		46		
	HNO	Hamelia nodosa	Dwarf Firebush	24"	24"	N		13		
	MDE	Monstera deliciosa	Monstera	4'-5'	4'	N		54	36" o.c.	
	ANA	Asplenium Nidus Avis	Birdsnest Fern	30"	30"	N		3		P
	REX	Rhapis Excelsa	Lady Palm	4'-5'	4'	N		3	Multitrunk	P
	PMP	Podocarpus Macrophyllus Pringles	Dwarf Podocarpus	24"	24"	N		57	20" o.c.	
	PMA	Podocarpus macroph.	Podocarpus	24"	24"	N		333	24" o.c.	
GROUND COVERS										
	BOA	Begonia Odorata 'Alba'	White Begonia	24"	24"	N		6	24" o.c.	
	CEB	Carissa macrocarpa	Emerald Blanket	12"	12"	N		80		
	MPA	Murraya Paniculata 'Lakeview'	Orange Jasmine	24"	18"	N		20		
	PBM	Philodendron Burle Marx	Philodendron Burle Marx	24"	18"	N		91		
	SFO	Serissa foetida	Serissa	18"	18"	N		60		
	TAS	Trachelospermum Jasm. Minima	Dwarf Confederate Jasm.	12"	12"	N		1121	12" o.c.	
TURF										
SOD	Stenotaphrum secundatum		St. augustine 'Palmetto'			as shown		Inside property		
ZOY	Zoysia Empire (Sand based)		Zoysia Empire (Sand based)			as shown		Within Right of Way		
GRAVEL										
BBR	BLACK RIVER ROCK					as shown				

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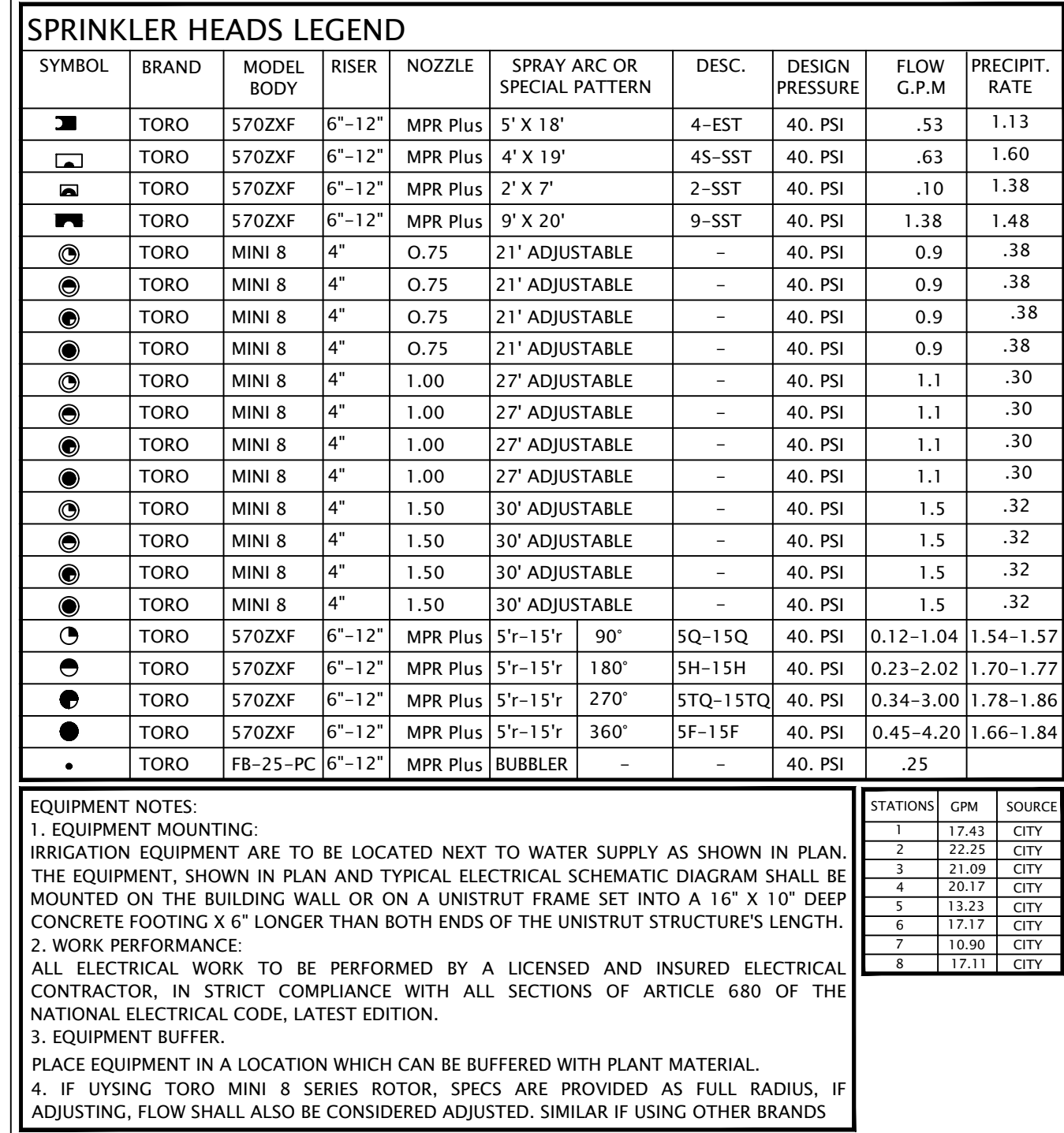
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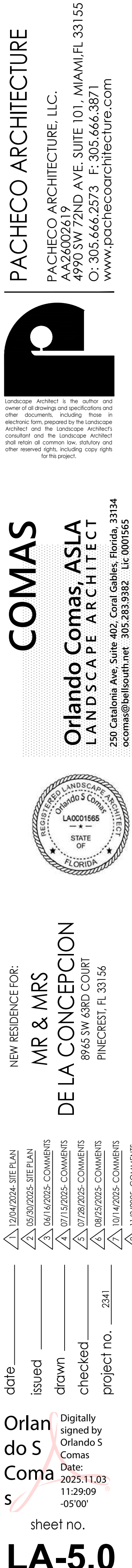
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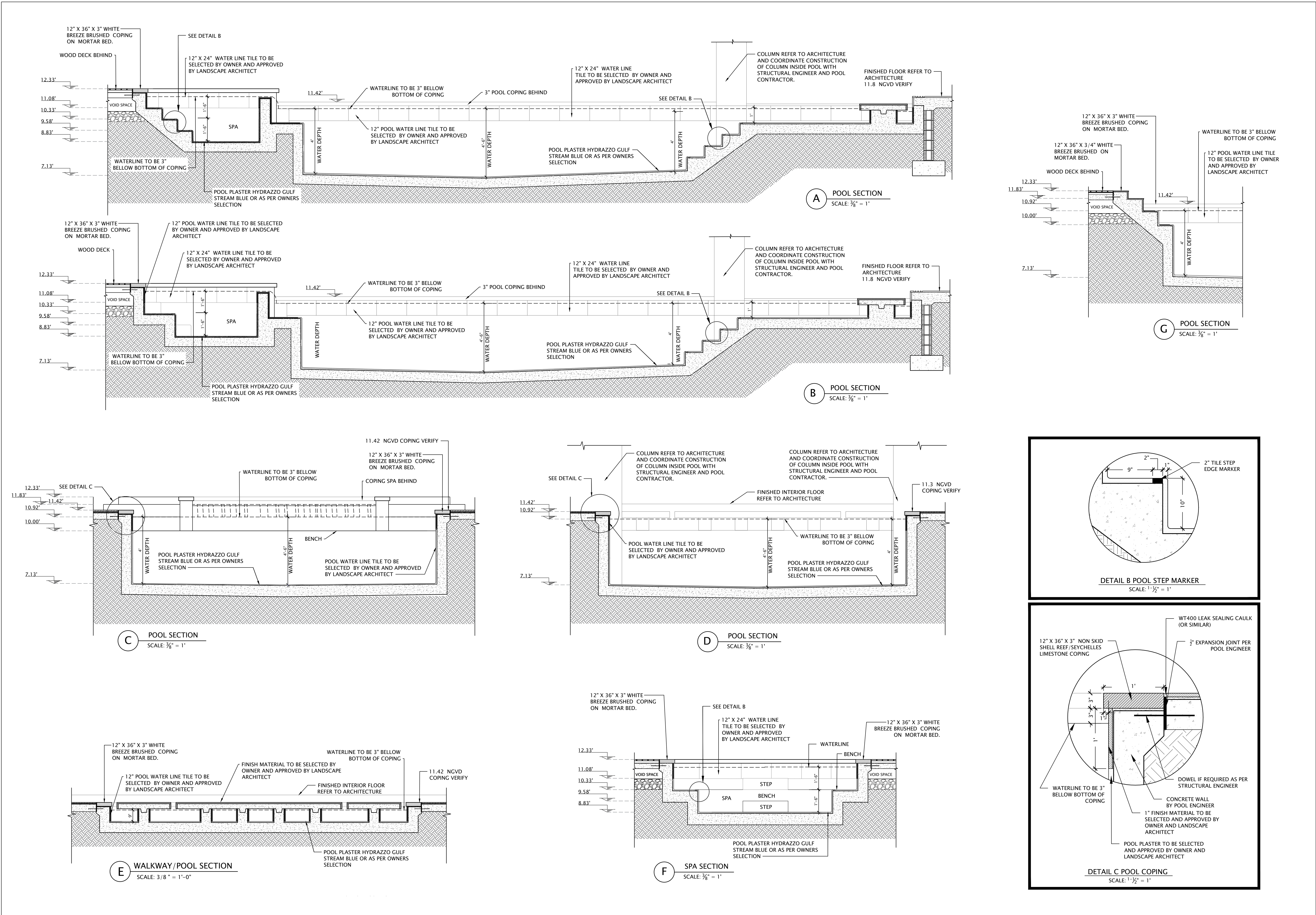
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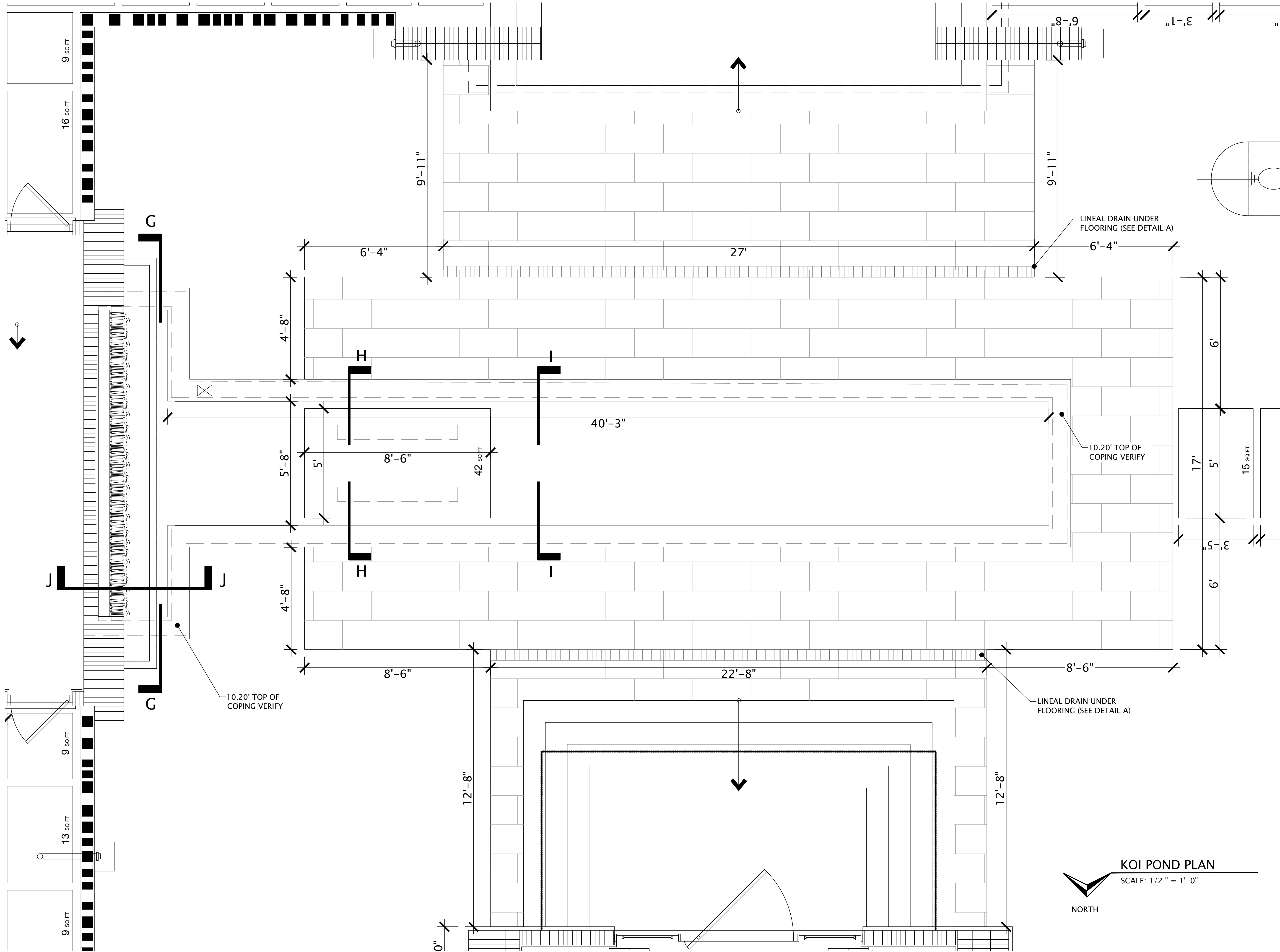
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05/20/2025 SITE PLAN
06/16/2025 COMMENTS
07/15/2025 COMMENTS
07/28/2025 COMMENTS
08/25/2025 COMMENTS
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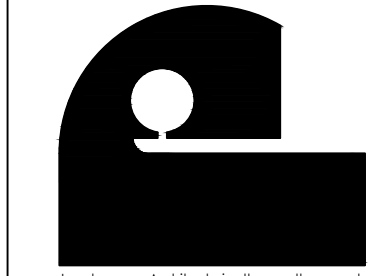
KOI POND PLAN
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05/07/2025	SITE PLAN
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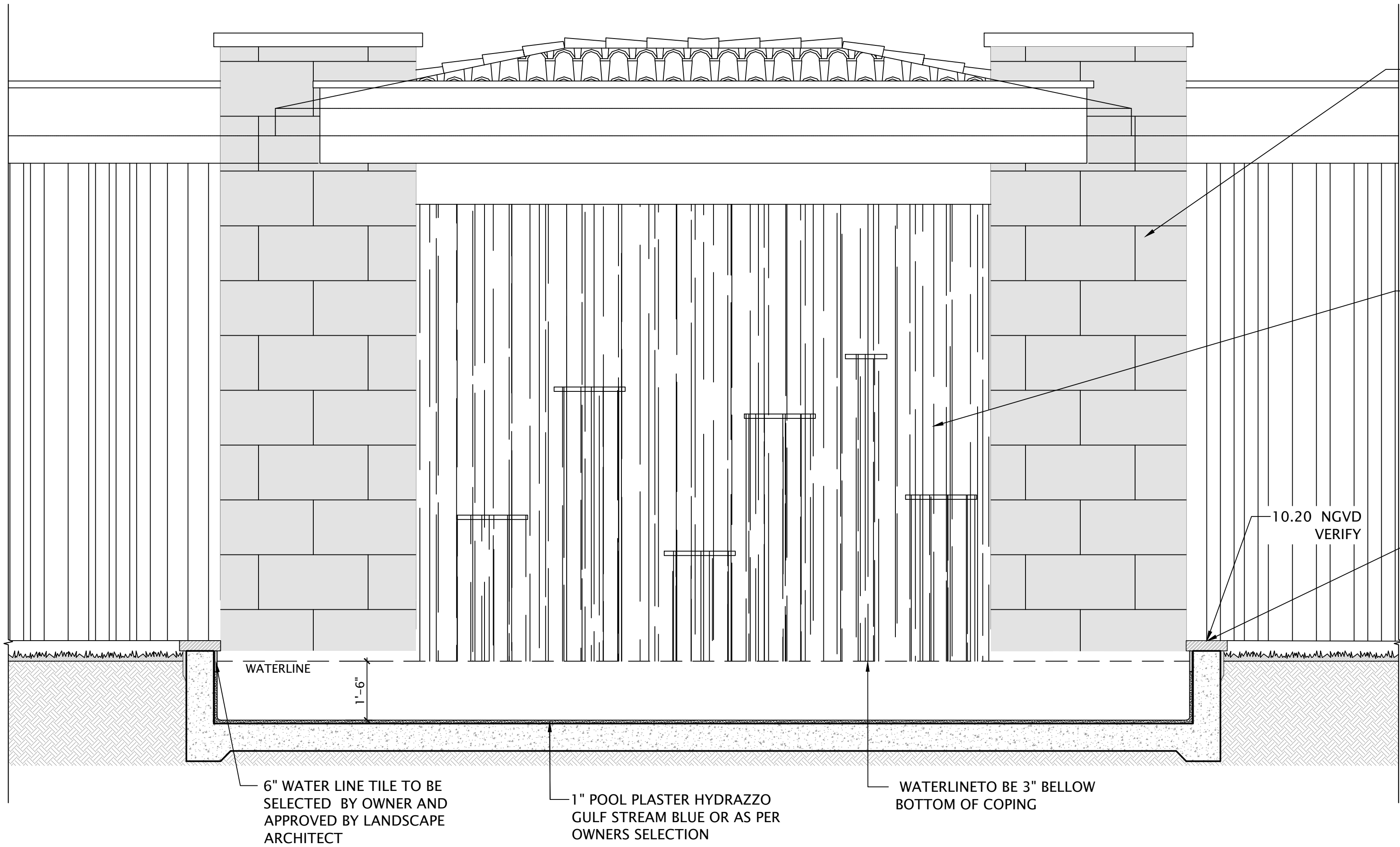


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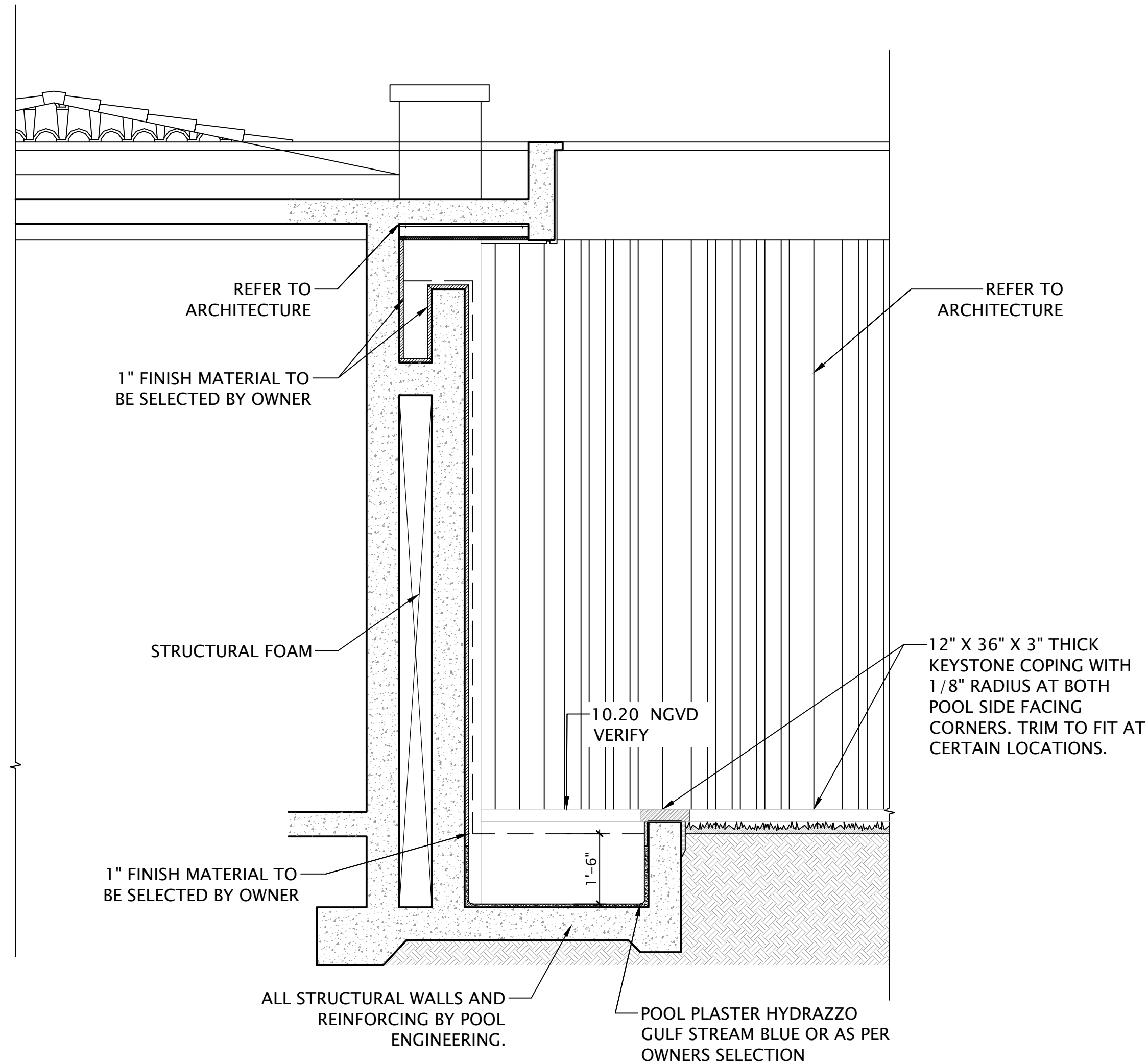
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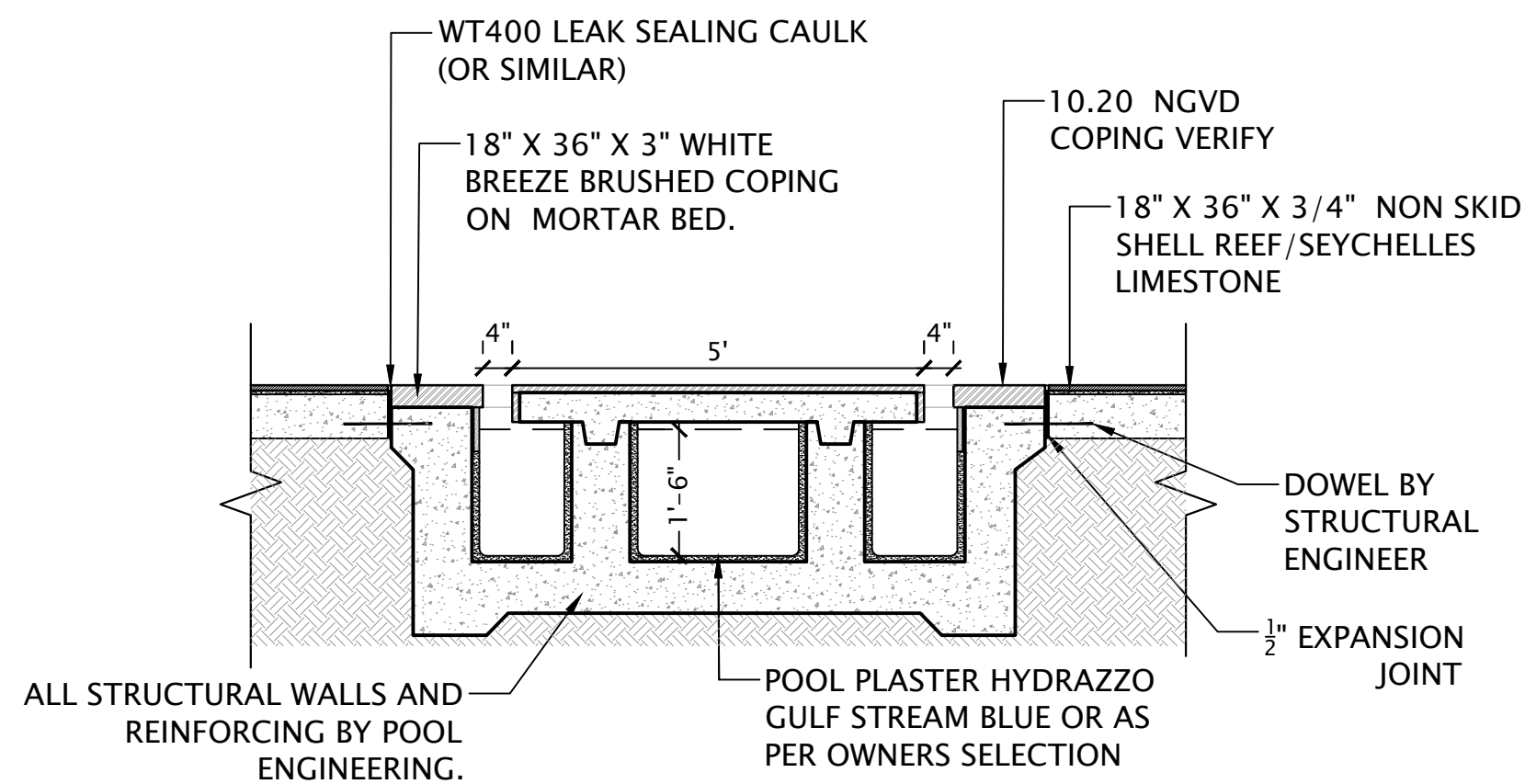
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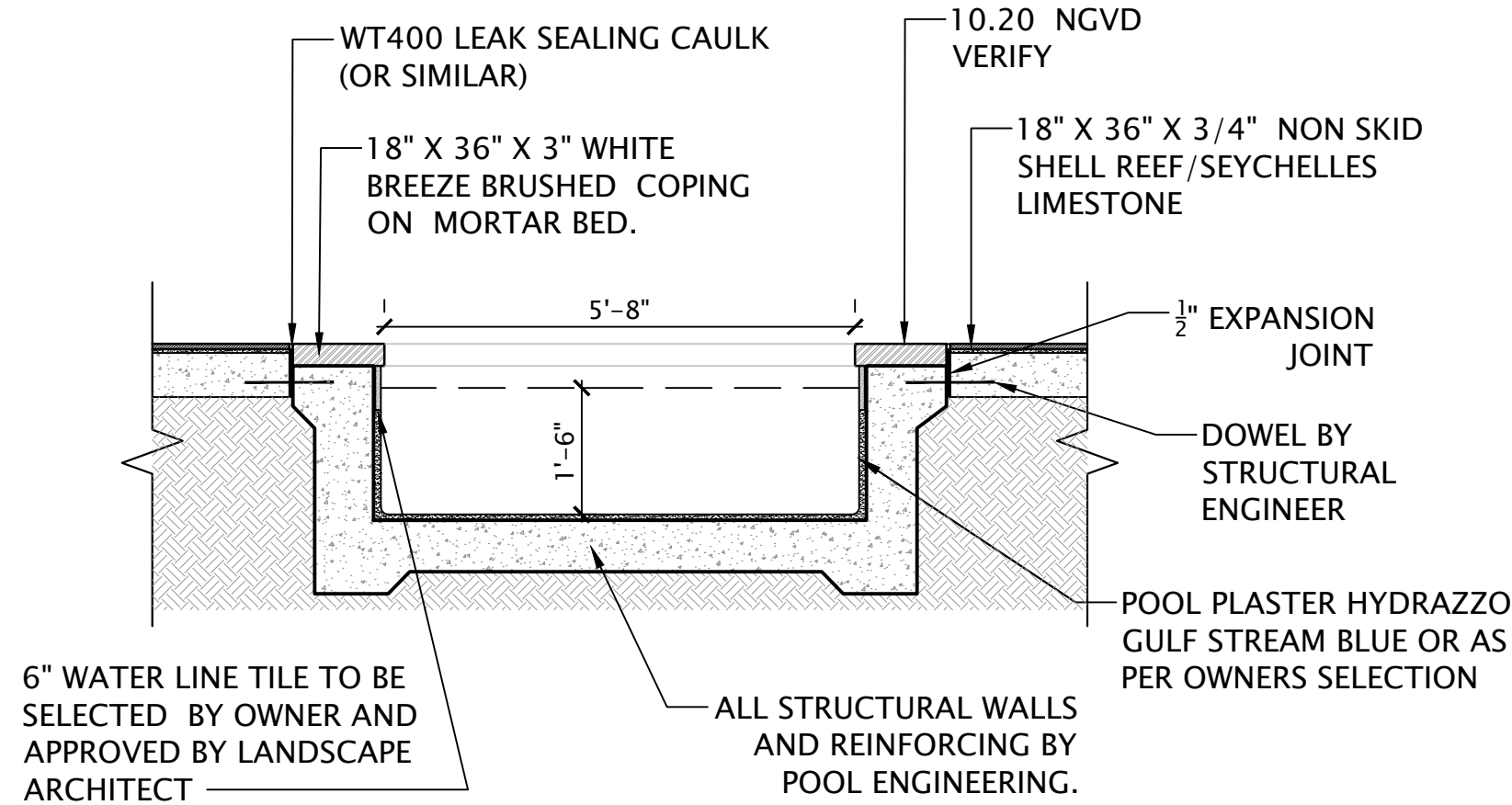
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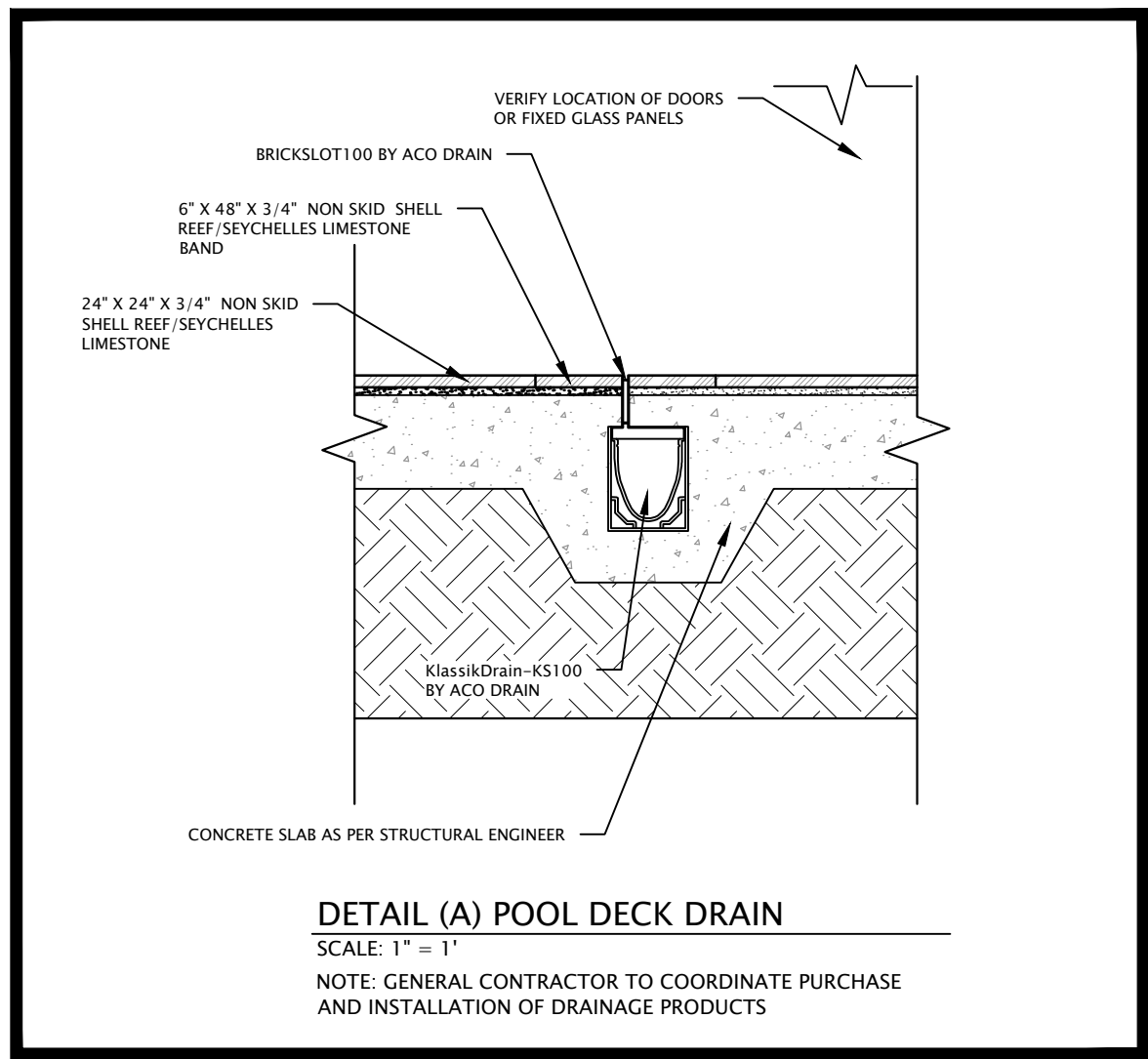
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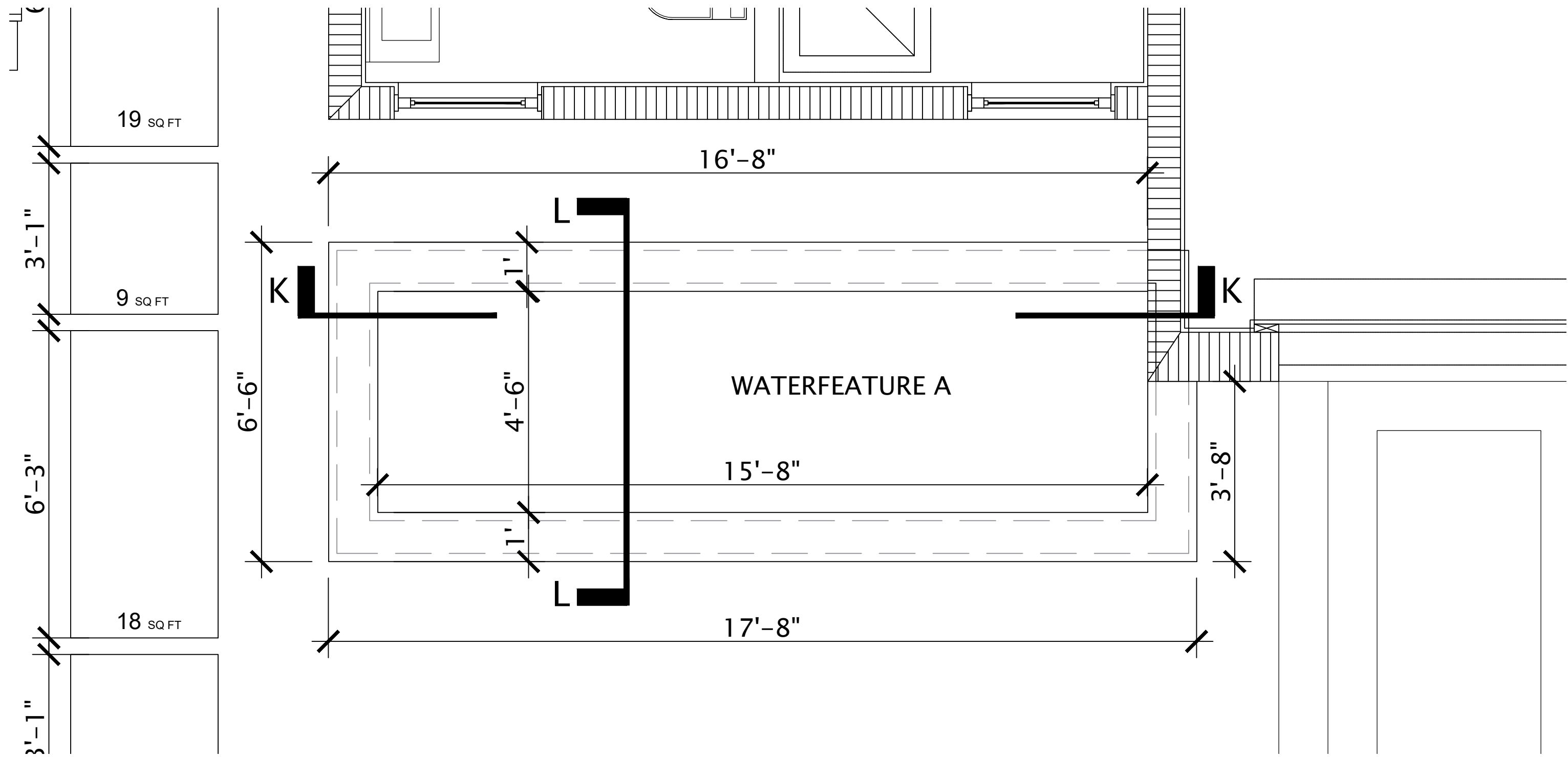


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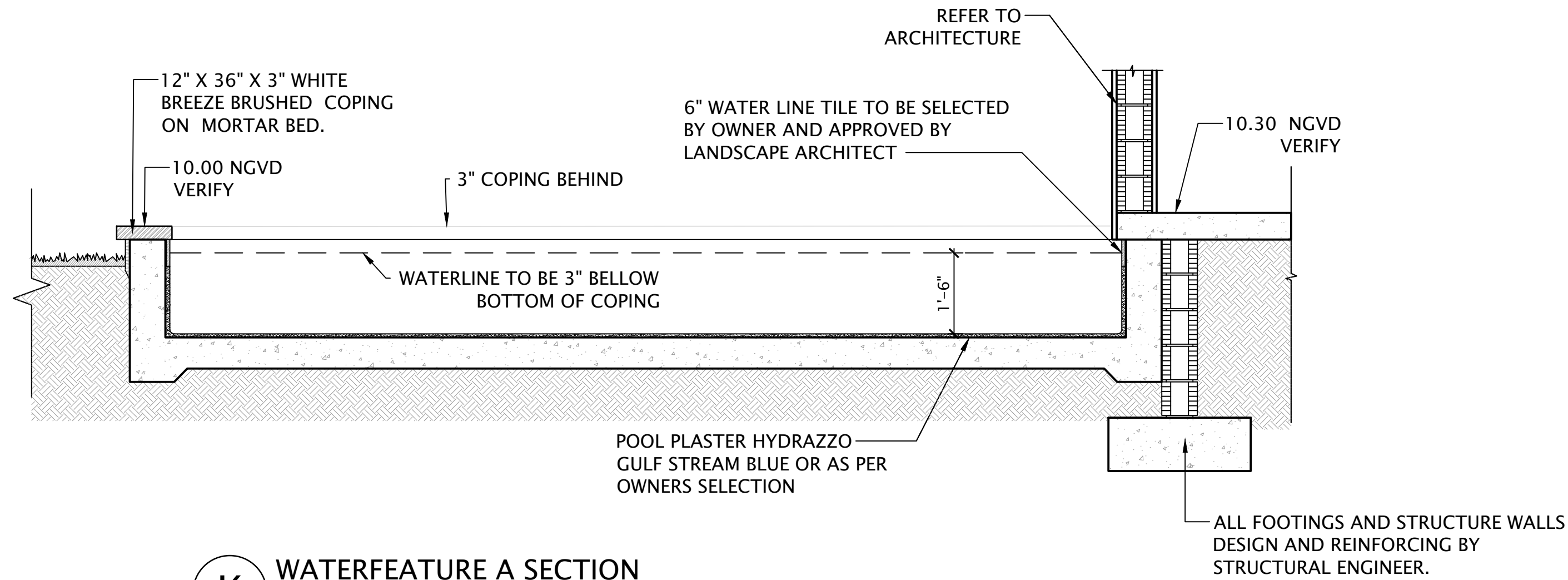


POOL, SPA, KOY POND, FOUNTAINS AND/OR WATERFEATURES NOTE: LANDSCAPE ARCHITECT PROVIDES THESE DRAWINGS AS MEANS OF DESIGN INTENT. ALL STRUCTURAL INCLUDING CONCRETE WALL AND FLOOR SLAB THICKNESS AND THEIR REINFORCING, ELECTRICAL AND MECHANICAL DESIGN SHALL BE COORDINATED AND DESIGNED BY POOL ENGINEER. POOL ENGINEER MAY AS REQUIRED ALTER ALL AND ANY PORTION OF THE DRAWINGS WHICH WILL NOT ALTER THE DESIGN INTENT. IT IS UNDERSTOOD THAT DESIGN INTENT MEANS ANY DESIGN WHICH IS VIEWED BY USERS AND NO CHANGES SHALL BE MADE TO THE DESIGN SHOWN IN THE PLANS LABELED LA-5.0, LA-5.1, LA-6.0, LA-6.1 AND LA-6.2 UNLESS THE CHANGES ARE NOT VISIBLE. THESE PLANS ARE SENT TOGETHER WITH A COPY IN PDF FORM TO PREVENT ANY CHANGES TO THE ORIGINAL DESIGN.

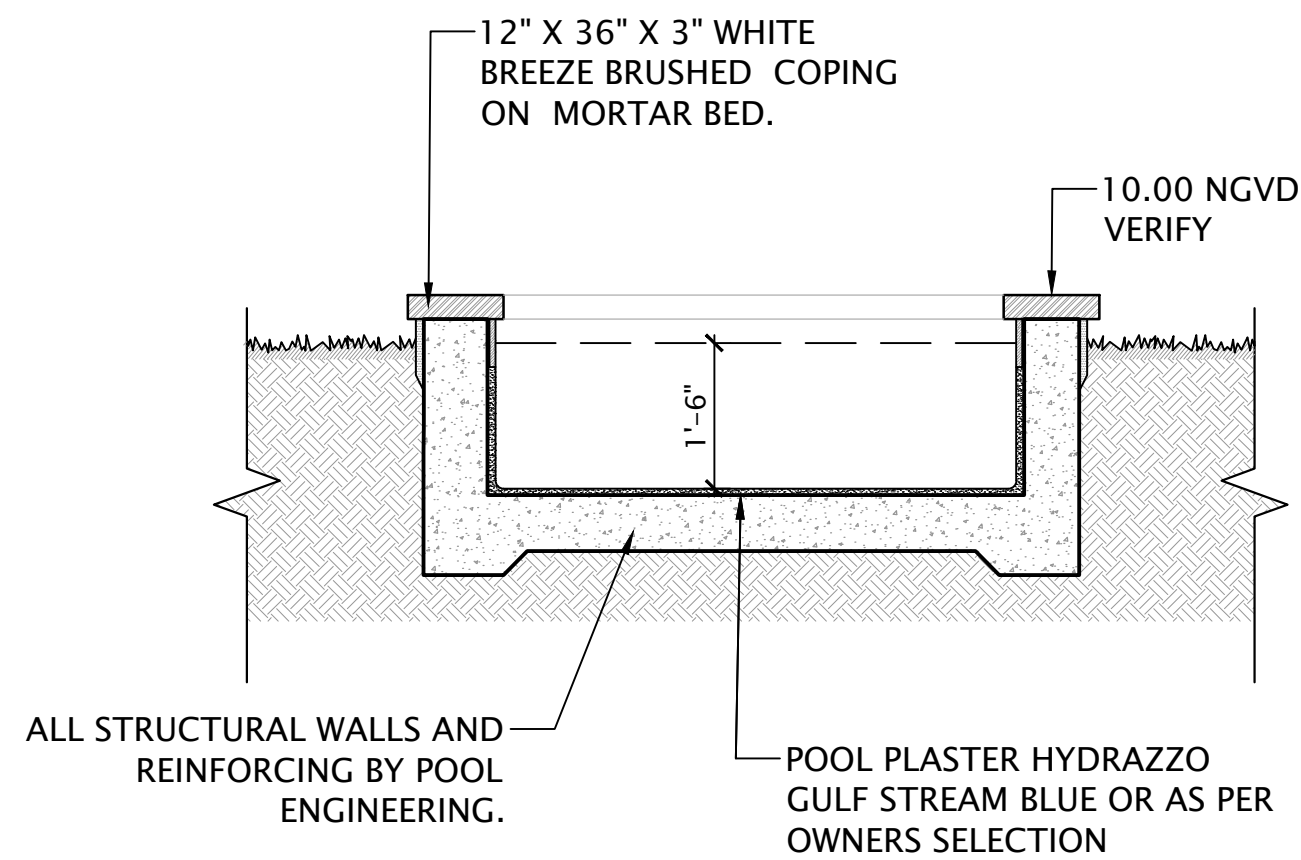
NOTE: BY ACCEPTING THIS PLAN, FOR PURPOSES OF THE CONSTRUCTION OF THE INTENDED PROJECT WHETHER SUBMITTING IT TO THE MUNICIPAL AUTHORITIES OR ANY OTHER BUILDING AND ZONING AUTHORITY AS WELL AS OTHER CONSULTANTS, OR FOR USE DURING CONSTRUCTION, OWNER AND GENERAL CONTRACTOR RELEASES AND HOLDS LANDSCAPE ARCHITECT HARMLESS FROM ANY LEGAL RESPONSIBILITY AS A CONSEQUENCE OF ANY LEGAL ACTIONS ARISING FROM ANY SPECIFICATION OF THE POOL, POOL DECK, GRADING ELEVATIONS AND DIFFERENCES BETWEEN POOL DECK ELEVATION AND FINISH GRADE ELEVATION(S) SPECIFIED IN THIS PLAN, LAYOUTS, SECTIONS AND/OR DETAILS.



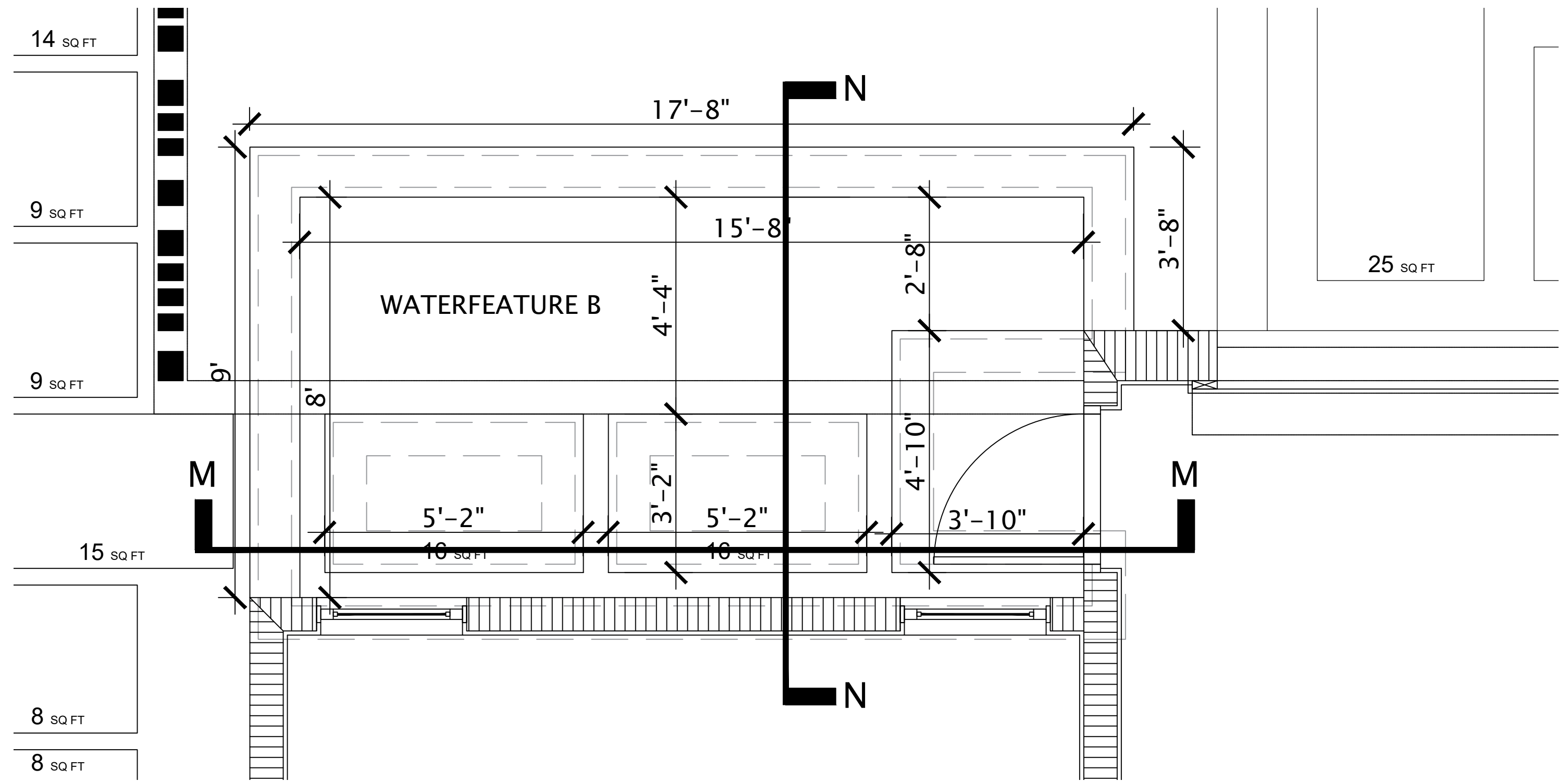
WATERFEATURE A
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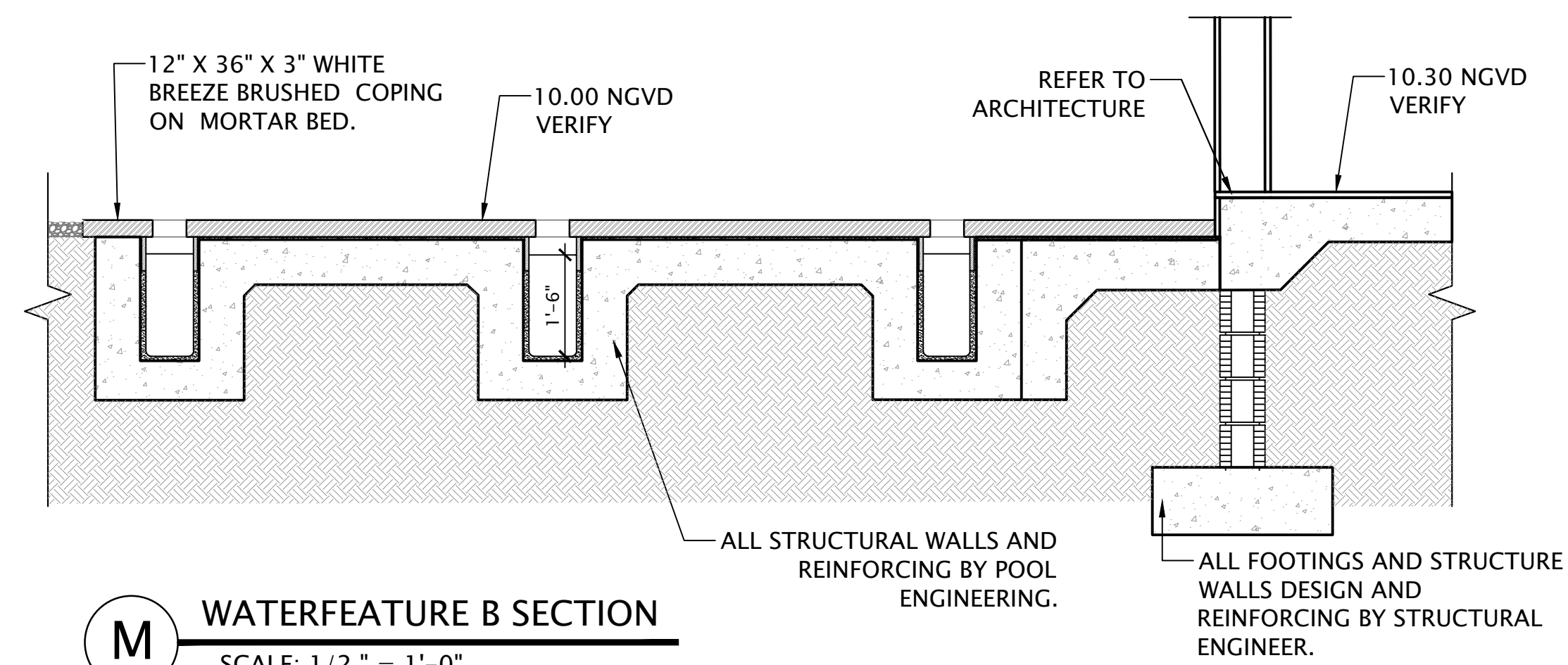
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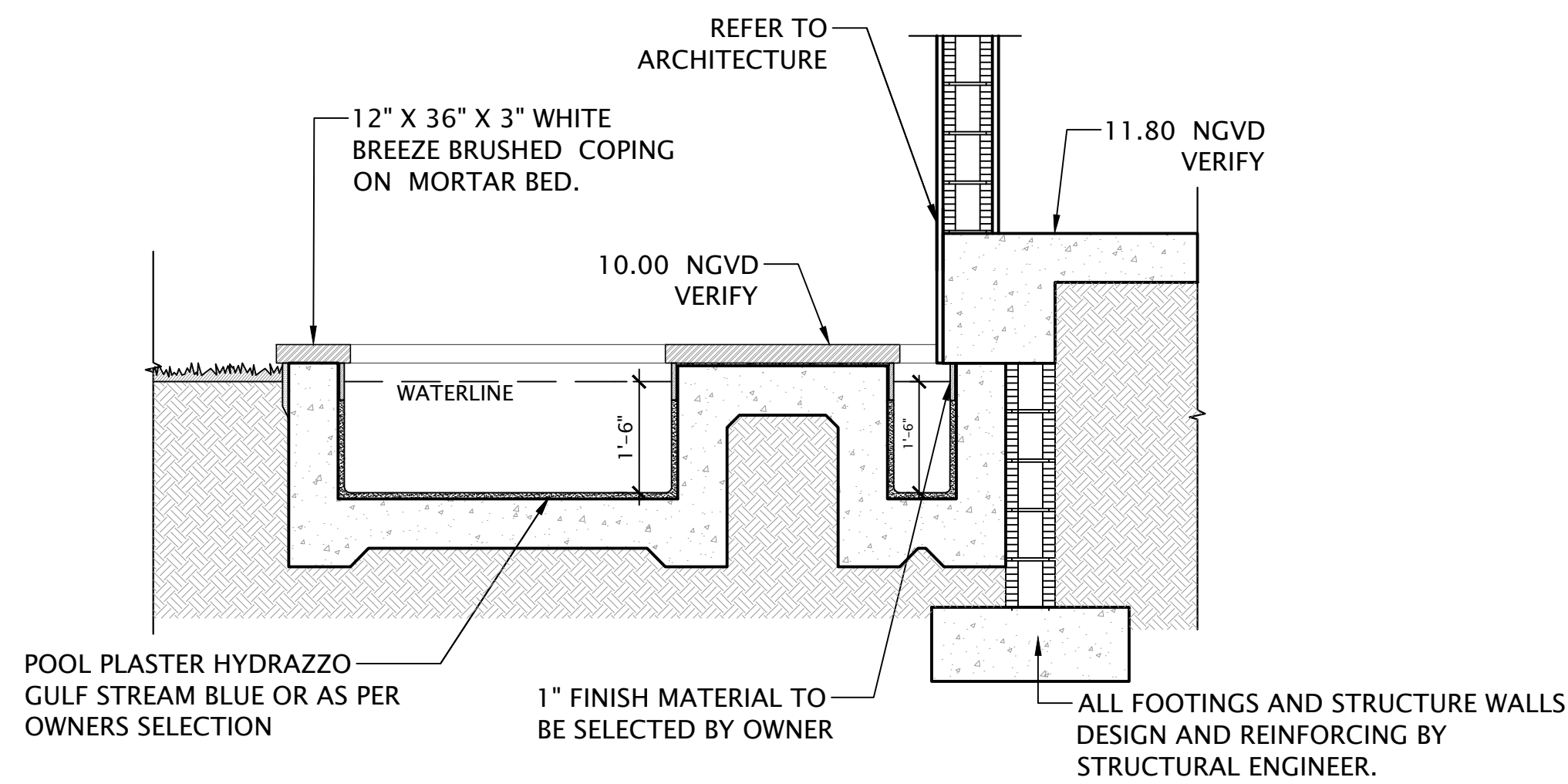
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WATERFEATURE B
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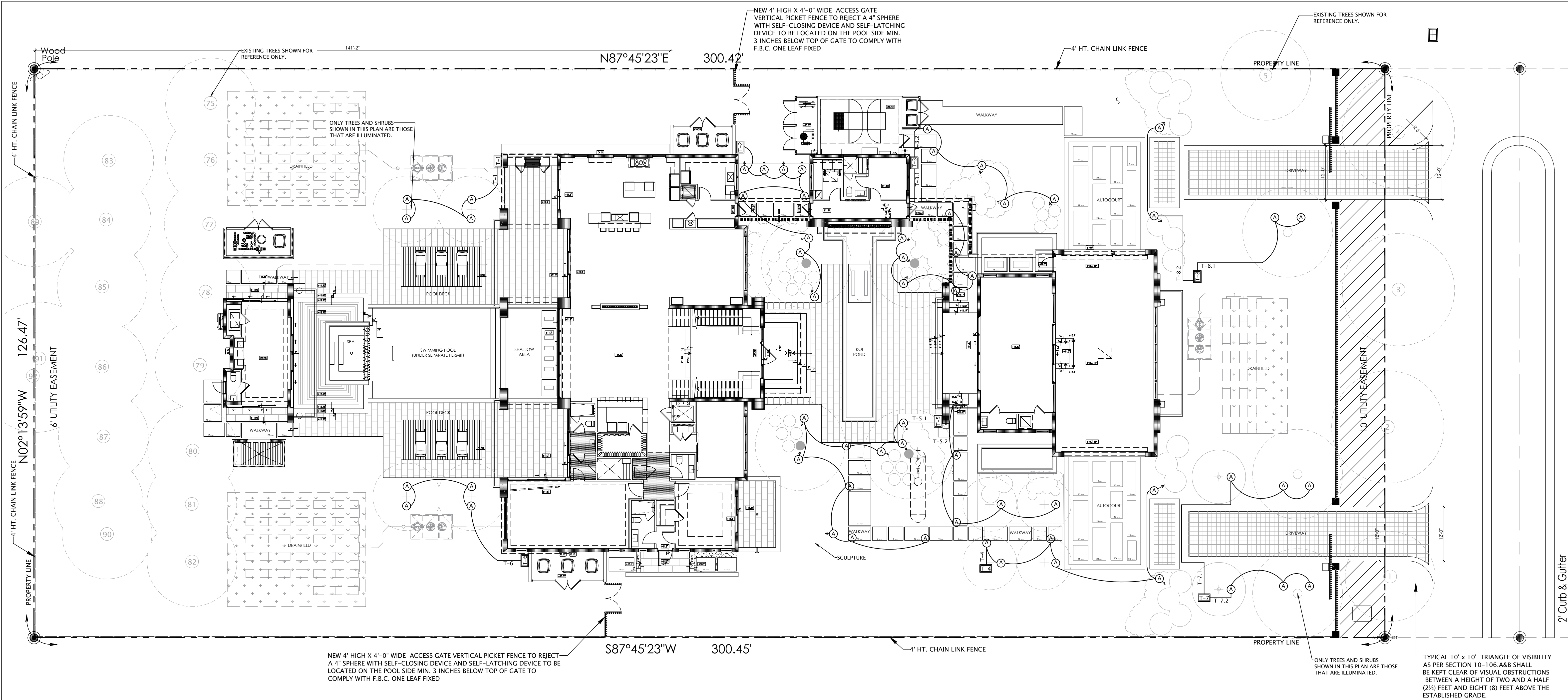


M WATERFEATURE B SECTION
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N WATERFEATURE B SECTION
SCALE: 1/2" = 1'-0"

NOTE: ALL STRUCTURAL WALLS AND REINFORCING IN STEPS, LANDINGS FOR POOL, SPA, POOL DECK TO BE BY POOL AND/OR STRUCTURAL ENGINEER.



GENERAL LOW VOLTAGE LIGHTING NOTE

- 1). 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 grate 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.
- 2). 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.
- 3). 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.
- 4). 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.
- 5). Tree Lighting:** no cables or fixtures shall be attached to tree trunks.
- 6). 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).
- 7). 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.
- 8). Call 811 before digging. It is Florida Law.**
- 9). Electrical engineering coordination.** Architect shall coordinate with Electrical Engineer so that line voltage outlets, controlled as per Owner's instructions, be provided to each low voltage transformer.
- 10). Smart home automation system.** If project (residence) electrical is to be controlled by a smart home automation system, electrical engineer, automation system contractor/designer and Owner shall coordinate the landscape lighting design system and all its components shown in this plan. Should any of the components require to be substituted, a substitution shall be provided that meet the same performance as specified in this plan, with landscape architect's approval.

TRANSFORMERS LEGEND AND SPECS.					
Symbol	Brand	Model	Transformer	Tap	Input/Output
1	KICHLER	11SP200SS	200 KVA	T-1	28 W 200 W
2	KICHLER	11SP200SS	100 KVA	T-2	63 W 100 W
3	KICHLER	11SP200SS	200 KVA	T-3.1	49 W 200 W
4	KICHLER	11SP200SS	200 KVA	T-3.2	15 W 200 W
5	KICHLER	KCH2195635 (In-Ground transformer)	200 KVA	T-4	42 W 200 W
6	KICHLER	11SP200SS	200 KVA	T-5.1	70 W 200 W
7	KICHLER	11SP200SS	200 KVA	T-5.2	15 W 200 W
8	KICHLER	11SP1100SS	100 KVA	T-6	28 W 100 W
9	KICHLER	KCH2195635 (In-Ground transformer)	100 KVA	T-7.1	21 W 100 W
10	KICHLER	11SP1100SS	100 KVA	T-7.2	21 W 100 W
11	KICHLER	11SP1100SS	100 KVA	T-8.1	14 W 100 W
12	KICHLER	11SP1100SS	100 KVA	T-8.2	14 W 100 W



LIGHTING FIXTURES LEGEND & SPECS.											
Symbol	Brand	Model	Lamp	Use	Watts	Volts/Beam	Color Temp	Finish	Mounting	Comments	Quantity
1	Fluor Lampen	SAVANNAH1 directional light fixture	490901	LED MR16	Downlight	7W	12	25° Spot Light	3000 K	Brass	490901 "Tocalithr" PVC Mounting Stake
Note A: Mounting Post: RAB Mighty Post may be used instead of 490937 "Tocalithr" PVC Mounting Stake											
LIGHTING FIXTURES NOTES											
Note A: Mounting Post: RAB Mighty Post may be used instead of 490937 "Tocalithr" PVC Mounting Stake											
COORDINATION NOTE: ARCHITECT TO COORDINATE WITH ELECTRICAL ENGINEER PROVIDING A GFI CONNECTION TO EACH OUTDOOR TRANSFORMER AND MEANS OF TURNING ON/OFF											



LIGHTING PLAN

SCALE: 3/32" = 1'-0"
REFER TO SHEET LA 6.1 FOR LIGHTING NOTES AND DETAILS. TREES AND LARGE SHRUBS ARE SHOWN IN THIS PLAN, FOR ADDITIONAL PLANTING REFERENCE REFER TO PLANTING PLAN.
NOTE: ALL LIGHT FIXTURES ARE TO AIM DOWNWARDS. NO FIXTURE SHALL AIM UPWARDS.

revisions

12/04/2024	SITE PLAN	
05/20/2025	SITE PLAN	
06/16/2025	COMMENTS	
07/15/2025	COMMENTS	
07/28/2025	COMMENTS	
08/25/2025	COMMENTS	
10/14/2025	COMMENTS	
11/02/2025	COMMENTS	

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Orlando S Comas

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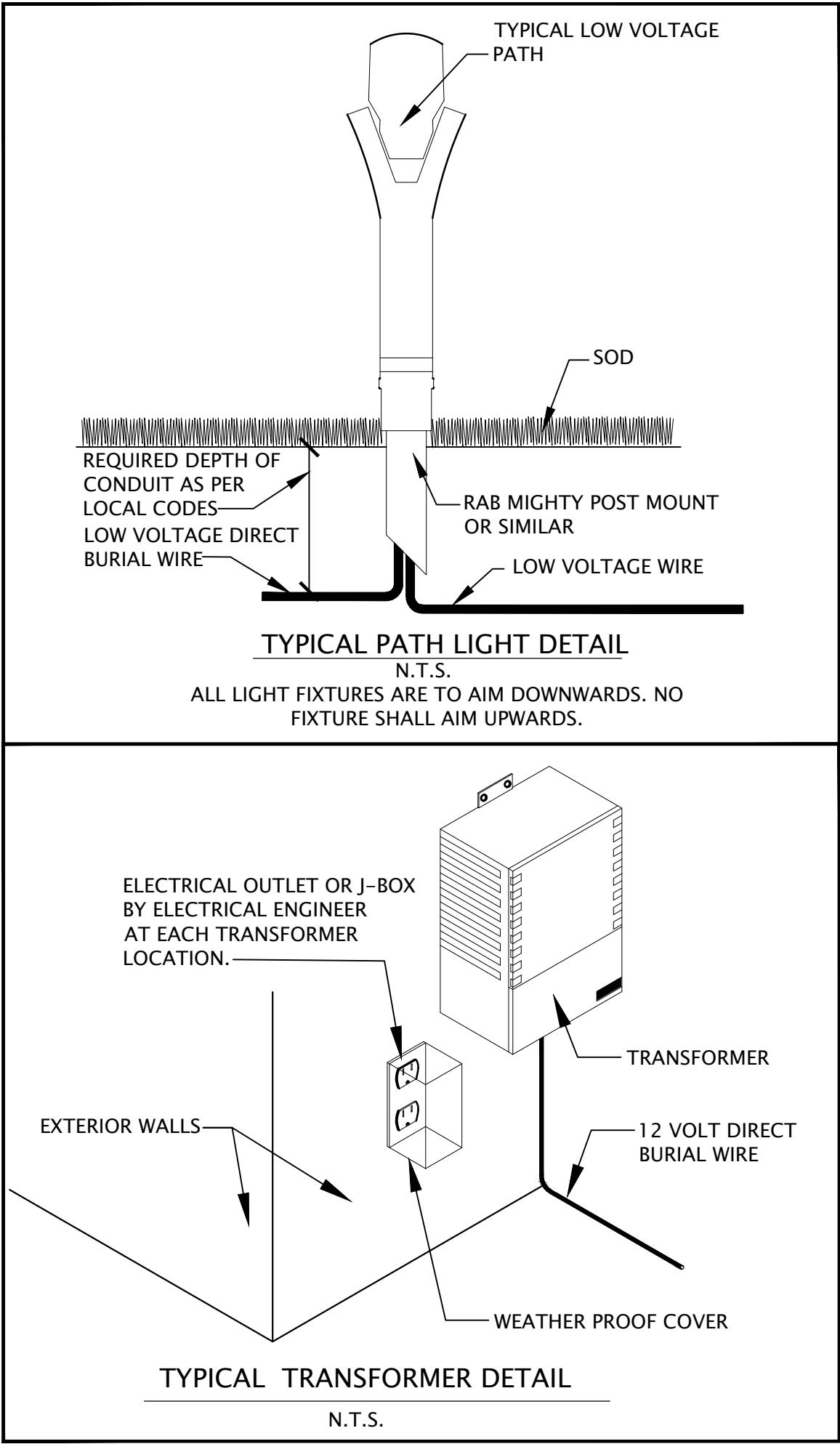
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REGISTERED LANDSCAPE ARCHITECT
Orlando S Comas
LA0001565
STATE OF FLORIDA

NEW RESIDENCE FOR:
MR & MRS
DE LA CONCEPCION

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PINECREST, FL 33156



NOTES & SPECIFICATIONS FOR LOW VOLTAGE LANDSCAPE LIGHTING SYSTEMS

A. GENERAL

- FOR THE PURPOSE OF THIS PLAN, THE TERM "LOW VOLTAGE LANDSCAPE LIGHTING SYSTEM," WHETHER INTENDED FOR LANDSCAPE OR ARCHITECTURAL USE, SHALL BE CONSIDERED AS PERMANENTLY INSTALLED LANDSCAPE LIGHTING SYSTEMS. THIS INCLUDES THE USE OF TRANSFORMERS, FIXTURES (LUMINAIRES) AND CABLING FOR THE PURPOSE OF ILLUMINATING LANDSCAPE ENVIRONMENTS AND THE EXTERIOR OF STRUCTURES OR BUILDINGS.
- PURPOSE OF GUIDELINES**
 - GUIDELINES SHOULD BE UTILIZED BY BOTH THE CONTRACTOR AND THE CONSUMER AS A MEANS FOR UNDERSTANDING WHAT IS EXPECTED WITH THE INSTALLATION OF THE LIGHTING SYSTEMS.
 - LANDSCAPE LIGHTING DESIGN PLAN IS IN THE FORM OF A CONCEPTUAL IT IS THE RESPONSIBILITY OF THE LANDSCAPE LIGHTING CONTRACTOR TO VERIFY THE PLAN INFORMATION AND ACCURACY, SINCE THIS PLAN IS CONCEPTUAL. THE PURPOSE OF THIS PLANS IS TO COMMUNICATE THE WHAT, WHERE AND WHEN TO INSTALL THE LIGHTING SYSTEM(S). THESE DESIGNS (PLANS) SHOULD DEFINE THE FOLLOWING GENERAL CRITERIA:
 - EQUIPMENT QUANTITIES--TRANSFORMERS, FIXTURES, CONTROL DEVICES, AND MOUNTING DEVICES
 - EQUIPMENT PLACEMENT OR LOCATIONS
 - POWER SOURCE TYPE & LOCATIONS
 - STRUCTURES AND/OR HARDSCAPE ELEMENTS--TO BE UTILIZED IN LIGHTING APPLICATIONS
 - CONDUIT & SLEEVE LOCATIONS
 - TREE & FOCAL POINT LOCATIONS--IDENTIFICATION FOR USE IN LIGHTING APPLICATIONS
 - ELECTRICAL LOADS--CALCULATIONS FOR EACH ELECTRICAL CIRCUIT AND TRANSFORMER

C. INSTALLATION AGREEMENTS

- INSTALLATION AGREEMENTS ARE LEGALLY BINDING CONTRACTS BETWEEN THE CONTRACTOR AND THE OWNER AND/OR GENERAL CONTRACTOR. THESE CONTRACT DOCUMENTS INCLUDE THE LANDSCAPE LIGHTING PLAN AND WRITTEN SPECIFICATIONS.
- THE CONTRACTOR SHOULD SUPPLY THE OWNER AND/OR GENERAL CONTRACTOR WITH A WRITTEN AGREEMENT THAT BOTH PARTIES SHALL MUTUALLY AGREE UPON AND BOTH SHALL SIGN UPON ACCEPTANCE. THE FOLLOWING LIST DESCRIBES ITEMS THAT ARE EXPECTED TO BE INCLUDED IN THE AGREEMENTS (CONSULT AN ATTORNEY FOR ADDITIONAL INFORMATION) DESCRIPTION OF THE PROPERTY WHERE THE WORK IS TO BE PERFORMED SCOPE OF WORK--GENERAL DESCRIPTION OF WHAT IS TO BE DONE, WHO IS TO DO IT, AND HOW IT WILL BE PERFORMED QUANTITIES OF ALL MATERIALS USED--TRANSFORMERS, FIXTURES, CABLE, CONTROLS, AND OTHER RELEVANT INFORMATION TOTAL COST OF WORK TO BE PERFORMED START & FINISH DATES GENERAL PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION
- CHANGE ORDERS AND/OR ADDITIONS ARE ACTIONS TAKING PLACE AFTER THE AGREEMENT IS IN EFFECT. ONCE THESE CHANGES ARE AGREED UPON BY BOTH PARTIES, THEN THEY BECOME PART OF THE ORIGINAL CONTRACT AGREEMENT AND WILL AFFECT THE FINAL JOB COST.
- MAINTENANCE, IF ANY SHALL BE PART OF THE ORIGINAL INSTALLATION AGREEMENT, THE CONTRACTOR SHOULD DEFINE THE ACTIONS TO BE TAKEN WITH ALL FUTURE LIGHTING SERVICE WORK. THE INSTALLATION CONTRACTOR WILL WARRANT THE LIGHTING SYSTEM FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION OF INSTALLATION.

D. UTILITIES

- THE CONTRACTOR SHOULD CONTACT SUNSHINE 811 48 HRS. PRIOR TO ANY DIGGING, TO IDENTIFY ALL LOCATIONS WITHIN THE WORK ZONE THAT CONTAIN UTILITY RUNS.

E. PROTECTION OF CUSTOMER'S PROPERTY

- THE CONTRACTOR SHOULD MAINTAIN ADEQUATE INSURANCE COVERAGE FOR ANY DAMAGES CAUSED DURING THE INSTALLATION PROCESS. THE INSTALLATION CONTRACTOR SHOULD MAKE EVERY EFFORT TO KEEP THE CUSTOMER'S PROPERTY IN GOOD CONDITION AND TO RETURN IT AS BEST AS POSSIBLE TO THE ORIGINAL CONDITION PRIOR TO LEAVING THE INSTALLATION SITE.

F. JOB SITE SAFETY & SAFETY PROCEDURES

- JOB SITE SAFETY MUST BE CONSIDERED AT ALL TIMES AND ABOVE ALL ELSE. OTHER THAN "ACTS OF GOD," ALL ACCIDENTS ARE PREVENTABLE. EACH CONTRACTOR, SUB-CONTRACTOR, AND EACH EMPLOYEE ON-SITE IS RESPONSIBLE FOR CHECKING THE JOB SITE FOR SAFETY-RELATED ISSUES PRIOR TO STARTING ANY WORK. ANY UNSAFE WORKING CONDITION NEEDS TO BE DOCUMENTED. ANY UNSAFE TOOL, OR EQUIPMENT NEEDS TO BE REPORTED, REPLACED AND/OR REPAIRED. JOB SITE WORKERS ARE TO BE USING ALL SAFETY DEVICES AND EQUIPMENT AVAILABLE TO THEM TO MAINTAIN A SAFE AND FRIENDLY WORKING ENVIRONMENT.
- ALL SAFETY PROCEDURES ARE TO COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OF THE UNITED STATES DEPARTMENT OF LABOR STANDARDS FOR THE CONSTRUCTION INDUSTRY. REFER TO WWW.OSHA.GOV.

G. JOB SITE PROTECTION

- PROPER TRAINING OF HAND AND POWER TOOLS (OSHA 1926.300) TO ALL EMPLOYEES USING TOOLS & EQUIPMENTS.

- 1.1. EYE AND EAR PROTECTION
- 1.2. HAND AND FEET PROTECTION
- 1.3. HEAD PROTECTION
- 1.4. LADDER AND SCAFFOLDING USE TRAINING.
- 1.5. TREE CLIMBING TECHNIQUES AND PROCEDURES TRAINING.

H. MATERIALS & WORKMANSHIP

- LIGHTING CONTRACTOR AND EMPLOYEES SHALL USE GOOD WORKMANSHIP AND TO UTILIZE GOOD QUALITY MATERIALS ON EVERY JOB. THIS INCLUDES PROVIDING ALL NECESSARY INFORMATION AND ALTERNATIVE MATERIALS AND EQUIPMENTS ABOUT THE JOB TO THE CUSTOMER.

- UPON JOB COMPLETION, THE CONTRACTOR SHOULD PROVIDE A LIST OF THE PRIMARY EQUIPMENT USED WITH THEIR WARRANTY INFORMATION, TO INCLUDE TRANSFORMERS, FIXTURES, AND CONTROLS.

I. LICENSE & INSURANCE

- THE INSTALLATION CONTRACTOR OF THE LANDSCAPE LIGHTING SYSTEM, AS REQUIRED BY LAW PER MUNICIPALITY, VILLAGE, TOWN, COUNTY OR STATE, MUST SHOW PROOF OF HIS LICENSE AND ANY MINIMUM AMOUNTS OF INSURANCE COVERAGE.

J. WARRANTIES

- THE LANDSCAPE LIGHTING CONTRACTOR WARRANTS ITS LANDSCAPE LIGHTING SYSTEM INSTALLATION AND WORKMANSHIP FOR A MINIMUM OF ONE (1) YEAR FROM THE COMPLETION OF THE PROJECT.
- WARRANTIES ON MATERIALS SHOULD INCLUDE THE FOLLOWING INFORMATION:
 - MANUFACTURER'S NAME & CONTACT INFORMATION.
 - MODEL NUMBER AND NAME, AND WARRANTY PERIOD FROM MANUFACTURER AND ASSOCIATED TERMS & CONDITIONS.
 - NO WARRANTY IS GIVEN BY INCANDESCENT OR HALOGEN LAMP (BULB) MANUFACTURERS. THIS IS CONSIDERED ACCEPTABLE IN THE LIGHTING INDUSTRY, DUE TO THE SENSITIVITY AND THE BURN CYCLE OF EACH LAMP FILAMENT. LED COMPONENTS WILL HAVE THEIR OWN SET OF WARRANTIES--SEE INDIVIDUAL MANUFACTURER INFORMATION.

K.MATERIALS AND EQUIPMENT

- MATERIALS AND EQUIPMENT SELECTION SHALL BE AS SPECIFIED BY LANDSCAPE ARCHITECT IN THE LANDSCAPE LIGHTING PLAN. THE LANDSCAPE LIGHTING CONTRACTOR CAN PROVIDE ALTERNATE RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR HIM/HER TO DISCUSS WITH OWNER. LANDSCAPE LIGHTING CONTRACTOR SHALL NOT MAKE RECOMMENDATIONS TO OWNERS WITHOUT LANDSCAPE ARCHITECT HAVING APPROVED SUCH RECOMMENDATIONS.

L. MATERIALS SELECTION

- THE INSTALLATION CONTRACTOR SHOULD ONLY UTILIZE PRODUCTS THAT ARE "LISTED" (PER UNDERWRITER'S LABORATORY) FOR THEIR INTENDED USE AS PER NEC CODE. THIS REQUIREMENT IS IN PLACE TO ENSURE THE SAFETY OF THE CONSUMER, AS ALL "LISTED" PRODUCTS HAVE BEEN PROPERLY TESTED BY A CERTIFIED TESTING FACILITY. THERE ARE SEVERAL CERTIFIED TESTING FACILITIES THAT PROVIDE THESE SERVICES--UNDERWRITERS LABORATORY (UL), ELECTRICAL TESTING LABORATORY (ETL), CANADIAN STANDARDS ASSOCIATION (CSA), AND OTHERS.

- THE CURRENT "LISTING" THAT GOVERNS ALL MANUFACTURERS OF ANY LANDSCAPE LIGHTING SYSTEM COMPONENTS IS UL 1838. THIS LISTING COVERS AND APPLIES TO A COMPLETE OUTDOOR LIGHTING SYSTEM--ALL SUB-COMPONENTS ARE CONSIDERED PART OF THE "SYSTEM."

M. TRANSFORMERS

- THE TRANSFORMER IS THE HEART OF A LOW VOLTAGE LIGHTING SYSTEM, AND IT CONTROLS THE DISTRIBUTION OF POWER TO THE INDIVIDUAL LIGHT FIXTURES. TRANSFORMERS MUST BE "LISTED" (HAVING BEEN TESTED BY A CERTIFIED TESTING FACILITY) FOR THEIR INTENDED USE. A TRANSFORMER IS BASICALLY A "CONVERTER" THAT ALLOWS THE INCOMING LINE VOLTAGE (120-VOLTS) THAT IS PRESENT ON THE PRIMARY SIDE TO BE CONVERTED DOWN TO LOW VOLTAGE (12-VOLTS) ON THE SECONDARY SIDE.
- TRANSFORMERS CAN BE MANUFACTURED TO ALLOW FOR SINGLE-VOLTAGE OUTPUT (SINGLE-TAP) OR MULTI-VOLTAGE OUTPUTS (MULTI-TAP). THE MAJORITY BEING MULTI-TAP UNITS.
- LOW VOLTAGE TRANSFORMERS THAT ARE "LISTED" UNDER UL 1838 ARE LIMITED TO 15-VOLTS MAXIMUM AND 25-AMPS MAXIMUM ON THE SECONDARY LOW VOLTAGE OUTPUT SIDE.
- LOW VOLTAGE TRANSFORMERS THAT ARE NOT "LISTED" UNDER UL 1838, ARE THOSE THAT CONTAIN VOLTAGE TAPS ABOVE 15-VOLTS AND UP TO 30-VOLTS MAXIMUM. THESE TRANSFORMERS ARE "LISTED" UNDER UL 508 AND ARE CONSIDERED TO BE "GENERAL PURPOSE" TRANSFORMERS. THESE TRANSFORMERS ARE NOT ACCEPTABLE.
- LOW VOLTAGE TRANSFORMERS THAT SUPPLY POWER TO ANY UNDERWATER FIXTURE LOCATED IN A WATER FEATURE (NON-HUMAN USE) OR A NON-POOL APPLICATION MUST BE SPECIFICALLY RATED FOR SUBMERSIBLE USE.
- INSTALL TRANSFORMERS IN WELL VENTILATED AREAS.
- ABOVE-GRADE TRANSFORMERS, WHEN INSTALLED OUTSIDE, MUST BE MOUNTED A MINIMUM OF 12-INCHES ABOVE GRADE.

N. CABLE

- LOW VOLTAGE ELECTRICAL CABLE SUPPLIES THE ELECTRICITY NECESSARY TO ENERGIZE THE LIGHT SOURCE OR LAMP WITHIN THE LIGHT FIXTURE.THERE ARE STANDARDS THAT GOVERN MANY ASPECTS OF CABLE PRODUCTION. THE USE OF A REGINRO OR RECYCLED MATERIAL IS NOT ACCEPTABLE. CABLE SHOWN ON PLAN IS 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.
- THE FOLLOWING CABLE SPECIFICATIONS SHOULD BE USED FOR ALL LOW VOLTAGE LIGHTING INSTALLATIONS. CABLE OR UNDERGROUND LOW ENERGY CIRCUIT CABLE (SPT STYLE) CONSTRUCTION CONSISTS OF STRANDED, UNCOATED ANNEALED COPPER CONDUCTORS, LAID PARALLEL AND INSULATED WITH A POLYVINYL CHLORIDE (PVC) JACKET. ALL CABLE USED IN LANDSCAPE LIGHTING APPLICATIONS MUST BE LISTED FOR DIRECT BURIAL BY UL, ETL, OR CSA.
- THE INSULATION, JACKET, OR SHEATHING OF A CABLE MUST CONFORM TO UL CLASS 43--MADE OF BLACK PVC, RATED AT 60-DEGREES CELSIUS, THERMOPLASTIC, 150-VOLTS MAXIMUM, AND SUITABLE FOR DIRECT-BURIAL APPLICATIONS. ONE LEG HAS "RAISED RIDGES" AND THE OTHER LEG IS "PLAIN" AND SHOWS IDENTIFICATION MARKINGS THAT ARE EITHER INK PRINTED OR INDENTED INTO THE PVC JACKET. THIS MARKING SHOULD SHOW THE FOLLOWING:

- 3.1. CABLE MANUFACTURER
- 3.2. SIZE RATING (AWG)
- 3.3. DESCRIPTION OF CABLE, AS "UNDERGROUND LOW ENERGY CIRCUIT CABLE SUNLIGHT RESISTANT FOR OUTDOOR LIGHTING".
- 3.4. "LISTING" FILE NUMBER
- THE LOAD PLACED ON LOW VOLTAGE LIGHTING CABLE SHOULD NOT EXCEED 80% OF ITS RATED CAPACITY.
- CABLE RUNS USED IN DIRECT-BURIAL APPLICATIONS SHOULD BE BURIED AND/OR SECURED IN PLACE TO A MINIMUM DEPTH OF 6-INCHES. NO CABLE SHOULD BE LEFT EXPOSED ON THE SURFACE OF THE LANDSCAPE. CABLE RUNS SHOULD FOLLOW HARDSCAPE ELEMENTS, SUCH AS CONCRETE EDGES, FENCES, WALLS, ETC., TO BETTER ENSURE THEIR PROTECTION. EXTRA CABLE LENGTH SHOULD BE ALLOWED FOR AND BUNDLED UP AT KEY POINTS ALONG EACH RUN. 1) AT THE ENDS OF SLEEVE CROSSINGS (12-INCHES MINIMUM OUTSIDE OF EACH CONDUIT END), 2) JUST BELOW THE TRANSFORMER (12-INCHES MINIMUM), AND 3) AT EACH FIXTURE LOCATION (3-FEET MINIMUM).
- USE STAINLESS STEEL FASTENERS ON TREES. NEVER USE COPPER OR BRASS SCREWS BECAUSE OF THEIR TOXICITY TO THE TREE. CABLE AND FIXTURES SHOULD NOT BE DIRECTLY ATTACHED TO THE TREE WITH STAPLES OR TIE-WRAPS AS THEY WILL BE ENGULFED OR BANDS WILL CHOKE OFF THE TREE'S CAMBIUM LAYER AND BLOCK ESSENTIAL NUTRIENT FLOW.
- CABLES NEED TO BE "OFF-SET" FROM THE TREE TRUNK OR BRANCH AND HAVE A "STAND-OFF" CLEARANCE OF A MINIMUM OF 1/2-INCH TO 1-INCH AWAY FROM THE TREE EXTERIOR. A METHOD OF ATTACHMENT SHOULD BE USED THAT WILL ALLOW THE CABLE TO HANG SECURELY, YET FREELY, AWAY FROM THE TREE.
- CABLES SHOULD BE SUPPORTED AND ATTACHED TO A TREE WITH THE USE OF A STAINLESS STEEL SCREW AND CABLE ATTACHMENT DEVICE. A 3-INCH TO 4-INCH SCREW SHOULD BE DRIVEN INTO THE OUTER BARK AND THEN THE CABLE CAN BE ATTACHED TO THE SCREW SHAFT WITH EITHER A "C"-CLAMP OR GINCH-TIE.
- CABLE RUNS SHOULD BE LOCATED ON THE LEAST VISIBLE SIDE OR BACK SIDE OF THE TREE TO HIDE THEM FROM THE PRIMARY VIEWING ANGLES OF THE MOST VIEWERS WITHIN THE LANDSCAPE. FOR TREE MOUNTED FIXTURES, IT IS BEST TO RUN THE WIRE ALONG THE SIDE OF THE BRANCH AND NOT ON TOP WHERE SQUIRRELS OR OTHER RODENTS MAY CHEW AT IT IF THE CABLE IS UNDERFOOT.
- NO CABLES ARE TO BE INSTALLED AND ATTACHED WITHIN TREES TRUNK OR BRANCHES WITHOUT THIS CONDITION HAVING BEEN SHOWN IN THE PLAN BY THE LANDSCAPE ARCHITECT.

O. WIRE CONNECTIONS

- THE WIRE CONNECTION IS THE MOST IMPORTANT PROCESS PERFORMED IN THE INSTALLATION OF ANY LIGHTING SYSTEM. IT IS OFTEN THE MOST OVER-LOOKED STEP AND IT REQUIRES GREAT CARE FOR A PROPERLY FUNCTIONING SYSTEM. THERE ARE FOUR (4) STEPS TO ENSURING A GOOD, SOLID CONNECTION:
 - STRIPPING AND REMOVAL OF THE OUTER PROTECTIVE INSULATION/JACKET OF THE CABLE WITHOUT THE LOSS OF ANY COPPER WIRE STRANDS
 - SECURING ALL WIRE STRANDS WITHIN THE CONNECTOR OR SPLICE JUNCTION
 - ENSURING A TIGHT AND SOLID CONNECTION BETWEEN ALL PARTS AND
 - WATERPROOFING THE CONNECTION AND CABLE EITHER INSIDE A WATERPROOFING CONNECTOR ASSEMBLY OR A SILICONE FILLED LARGE WIRE NUT.

P. FIXTURES

- ALL FIXTURES SHOULD BE SUBJECTED TO THE PERFORMANCE TESTS ESTABLISHED UNDER UL 1838. THIS TESTING IS COMPLETED BY THE MANUFACTURER. VERIFY THAT ALL LIGHT FIXTURES ARE UL 1838 LISTED BEFORE SPECIFYING THEM.
- ALL FIXTURES ARE SPECIFIED IN THE LIGHTING PLAN BY THE LANDSCAPE ARCHITECT IN THE LANDSCAPE LIGHTING PLAN. THE LANDSCAPE LIGHTING CONTRACTOR CAN PROVIDE ALTERNATE RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR HIM/HER TO DISCUSS WITH OWNER. LANDSCAPE LIGHTING CONTRACTOR SHALL NOT MAKE RECOMMENDATIONS TO OWNERS WITHOUT LANDSCAPE ARCHITECT HAVING APPROVED SUCH RECOMMENDATIONS.

Q. HARDWARE

- THE TERM "HARDWARE" IS USED TO DESCRIBE MATERIAL COMPONENTS THAT ARE ASSOCIATED WITH THE INSTALLATION OF LANDSCAPE LIGHTING EQUIPMENT. THIS INCLUDES COMPONENTS OF THE POWER ESTABLISHMENT, TRANSFORMERS, FIXTURES, MOUNTING DEVICES, ETC. THE CONTRACTOR SHOULD UTILIZE HARDWARE COMPONENTS THAT ARE SPECIFICALLY DESIGNED TO WITHSTAND THE EXTREMES OF ANY EXTERIOR ENVIRONMENT, SUCH AS STAINLESS STEEL OR ANY OTHER SUITABLE NON-CORROSIVEL MATERIAL DEEMED APPROPRIATE FOR THE AREA IN WHICH IT IS BEING INSTALLED.

R. CONDUIT & SLEEVES

- CONDUIT SHOULD BE UTILIZED FOR THE PROTECTION OF CABLE RUNS THAT ARE EXPOSED TO POTENTIAL DAMAGE. THIS TYPE OF PROTECTION IS ALSO CALLED "SLEEVING." APPLICATIONS FOR SUCH USE ARE UNDER HARDSCAPE AREAS, SUCH AS CONCRETE SLABS, WALKWAYS OR DRIVEWAYS. CONDUIT SHOULD BE USED IN ABOVE-GRADE APPLICATIONS WHERE CABLE EXPOSURE IS UNSIGHTLY OR HAS A POTENTIAL FOR DAMAGE SUCH AS WIRE RUNS UP INTO STRUCTURES AND INTO THE TRANSFORMER HOUSING.
- PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR EXTERIOR APPLICATIONS WHEN USING AS A SLEEVE.. ELECTRICAL CONDUIT SHOULD BE GREY IN COLOR. IF POLYVINYLCHLORIDE (PVC) PIPE IS USED.
- POWER**
 - THE POWER PROVIDED TO ALL LANDSCAPE LIGHTING SYSTEM SHOWN IN THIS PLAN IS CONSIDERED TO BE 120-VOLT ALL 120-VOLT ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENSED ELECTRICIAN UNLESS OTHERWISE SPECIFIED BY LAW. REFER TO ALL NEC AND ALL LOCAL CODES FOR ADDITIONAL DETAILS.
 - ALL EXTERIOR RECEPTACLE BOXES SHOULD BE G.F.C.I.-PROTECTED FOR USE WITH TRANSFORMERS THAT UTILIZE A PLUG-IN CORD. DO NOT CUT OFF THE PLUG END OF THE TRANSFORMER POWER CORD IN ORDER TO HARD-WIRE THE UNIT INTO THE 120-VOLT SUPPLY, AS THIS WILL NEGATE ITS UL LISTING.
 - ALL RECEPTACLE BOXES SHOULD UTILIZE AN "IN-USE" OR "BUBBLE" TYPE RECEPTACLE COVER TO PROTECT IT FROM WATER ENTRY.
 - ALL RECEPTACLES, LOW VOLTAGE TRANSFORMERS, AND FIXTURES CANNOT BE LOCATED WITHIN 10 FEET OF ANY WATER NSOURCE THAT WOULD BE NORMALLY OCCUPIED BY HUMANS. REFER TO NEC 411.4(2).
- IN GRADE FIXTURES**
 - IN-GRADE FIXTURES OR "SEALED" WELL LIGHTS SHOULD BE COMPLETELY ENCLOSED TO PREVENT ANY WATER OR DEBRIS FROM ENTERING THE LAMP HOUSING AREA "OPEN-SLEEVE" WELL LIGHTS ARE NOT ACCEPTABLE. IT IS RECOMMENDED TO HAVE A LOUVERED GRATE TO MINIMIZE DAMAGE TO THE SLEEVE AREA.
 - IT IS IMPORTANT TO PREPARE THE FIXTURE PIT OR HOLE, TO ALLOW WATER TO DRAIN AWAY FROM THE WELL LIGHT. THE CONTRACTOR NEEDS TO CONSTRUCT A GRAVEL DRAINAGE BASE IN A WELL BOTTOM PIT AS PER MANUFACTURER'S INSTRUCTIONS.
 - THE TOP OF THE WELL LIGHT SHOULD BE SLIGHTLY HIGHER THAN THE SURROUNDING GRADE TO PREVENT WATER FROM SETTLING IN AT THE FIXTURE.
 - SECURE THE FIXTURE IN PLACE. PREPARE AND TEST THE WELL LIGHT WITH ITS APPROPRIATE LAMP OR LED TO ENSURE THAT IT IS OPERATING PROPERLY. CONTRACTOR SHOULD REFER TO THE MANUFACTURER'S INSTALLATION REQUIREMENTS PRIOR TO COMPLETION OF THIS WORK. FINISH OFF THE BACKFILL WITH EITHER PEA GRAVEL OR THE LANDSCAPE MATERIALS REMOVED DURING EXCAVATION (SOIL, LAWN, MULCH, DECOMPOSED GRANITE, ETC...).
 - FINAL AIMING SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT.

U. ABOVE-GRADE FIXTURES

- ABOVE-GRADE FIXTURES INCLUDE THOSE THAT ARE ATTACHED TO STRUCTURES, INSTALLED ON GRADE WITH A MOUNTING POST AND THOSE THAT ARE ATTACHED TO TREES.
- ALL ABOVE GRADE FIXTURES MOUNTED ON A MOUNTING POST SHALL USE A MIGHTY POST BY RAB LIGHTING OR SIMILAR. ALLOW AN EXTRA 6-INCHES TO 12-INCHES OF CABLE AT EACH FIXTURE CONNECTION INSIDE THE MOUNTING POST AT EACH FIXTURE.
- LOCATE AND ATTACH THE FIXTURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT ITS FINAL PLACEMENT IS APPROPRIATE FOR HIDING THE FIXTURE AND TO ENSURE PROPER AIMING AS INTENDED BY LANDSCAPE ARCHITECT. AVOID CREATING A GLARE SPOT FROM THE PRIMARY VIEWING ANGLE(S) AS MUCH AS POSSIBLE.
- FIXTURES ATTACHED TO A TREE SHOULD HAVE STAND-OFF CLEARANCE OF AT LEAST 1/2-INCH TO 1-INCH AWAY FROM THE TREE TO ENSURE THAT THE TREE DOES NOT GROW INTO THE ATTACHED FIXTURE OR ITS MOUNTING HARDWARE. MOUNTING HARDWARE ATTACHED DIRECTLY TO THE TREE BARK (WITHOUT ANY PRESCRIBED STAND-OFF CLEARANCE) WILL HARM THE TREE BY ALLOWING THE TREE TO GROW AROUND THE HARDWARE.
- CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS ARE SOLID AND WATERPROOF.
- IT IS NOT ACCEPTABLE TO ATTACH A FIXTURE OR CABLE DIRECTLY TO THE TREE BY ANY OF THE FOLLOWING METHODS; STAPLES, SCREWS WITHOUT ANY STAND-OFF ABILITY, WIRE OR METAL TIE STRAPS, OR ANY OTHER METHOD OF FLUSH-MOUNT ATTACHMENT TO THE TREE. TREE FIXTURES SHOULD BE PRE-ASSEMBLED PRIOR TO CLIMBING INTO A TREE. WATERPROOF CONNECTIONS AND PROPER LAMP OPERATION NEED BE CONFIRMED SAFELY PRIOR TO FINAL INSTALLATION ABOVE GROUND.
- ONLY THOSE WITH PROPER TRAINING AND EQUIPMENT SHOULD PERFORM INSTALLATION WORK. THE CONTRACTOR SHOULD ENSURE THE SAFETY OF THE CLIMBER AT ALL TIMES. THIS INCLUDES THE USE OF SAFETY BELTS AND LANYARDS AND/OR A PROPERLY PLACED EXTENSION LADDER. LADDERS SHOULD BE TIED-OFF OR SECURED TO PREVENT MOVEMENT OR FALLING.
- PRE-AIM ALL TREE FIXTURES DURING THE DAY TIME HOURS SO THAT NIGHT TIME ADJUSTMENTS WILL BE MINIMAL.CONTRACTOR SHOULD ENSURE THAT THE LANDSCAPE ARCHITECT IS PRESENT FOR THE FINAL NIGHT ADJUSTMENTS,SO THAT THE DESIGN INTENT OF THE PROJECT IS CAPTURED AND APPROVED.

V. UNDERWATER FIXTURES

- UNDERWATER LOW VOLTAGE LIGHTING FIXTURES ARE USED IN BODIES OF WATER NOT MEANT FOR HUMANS TO OCCUPY. IT IS MOST IMPORTANT TO PROTECT THE CABLING AND FIXTURE FROM ANY DAMAGE.
- ALL CABLE JUNCTIONS OR CONNECTIONS SHOULD TAKE PLACE OUTSIDE OF THE WATER SOURCE. UNDERWATER FIXTURES CAN BE SET IN PLACE WITH THEIR ASSOCIATED WEIGHTED BASE ASSEMBLY, OR THEY CAN BE SECURELY INSTALLED WITHIN ROCKS ORPLANTS. IT SHOULD BE NOTED THAT LAMP OR LED CHANGES NEED TO OCCUR ABOVE WATER, SO EITHER THE FIXTURE NEEDS TO HAVE ENOUGH EXTRA CABLE TO ALLOW FOR THAT OR THE CONTRACTOR WILL NEED TO DRAIN THE BODY OF WATER TO GAIN ACCESS.
- THE INSTALLATION AND USE OF UNDERWATER FIXTURES HAVE SPECIAL RESTRICTIONS AND MUST FOLLOW ALL NEC AND LOCAL CODES. FIXTURES MUST BE RATED AS "SUBMERSIBLE," AND THEY MUST BE LISTED FOR THEIR INTENDED APPLICATION.
- PERMANENT, SECURED FIXTURES AND CABLE RUNS SHOULD BE INSTALLED IN CONDUIT TO A PRE-DETERMINED LOCATION

- FOR OPTIMUM PERFORMANCE, ALL CONDUIT THAT IS TERMINATED OUTSIDE OF THE WATER SOURCE SHOULD BE LOCATED AT A MINIMUM LEVEL OF 8-INCHES ABOVE THE WATER LEVEL AT THE WATER FEATURE OR MEET LOCAL CODES IF DIFFERENT.

W. UNDERGROUND CONDUIT

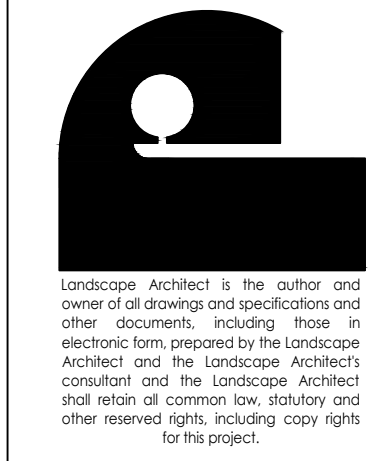
- CONDUIT OR "SLEEVING" IS RECOMMENDED FOR THOSE AREAS OF THE LANDSCAPE WHERE DAMAGE PROTECTION AND/OR EASE OF CABLE ACCESS MIGHT BE REQUIRED. ALL ELECTRICAL CONDUITS MUST USE SWEEP BENDS (90-DEGREE AND 45-DEGREE) TO ENSURE THAT CABLING CAN BE EASILY PULLED FROM ONE POINT TO ANOTHER. A MAXIMUM OF FOUR (4) CONSECUTIVE TURNS IS ALLOWED BEFORE A PULL-BOX MUST BE INSTALLED OR THE CABLE MUST BE TERMINATED--REFER TO NEC AND LOCAL CODES.
- NEVER USE IRRIGATION FITTINGS TO MAKE TURNS--CABLE CANNOT BE PULLED THROUGH THESE TIGHT ANGLES. CONDUIT FOR ELECTRICAL WIRE SHOULD ALWAYS BE GREY IN COLOR.
- ALL SLEEVES UNDER HARDSCAPE AREAS MUST EXTEND 4 INCHES MINIMUM, BEYOND THE OUTER EDGE OF THESE ELEMENTS. SLEEVES SHOULD ALWAYS BE USED WHEN PASSING THROUGH CONCRETE FOOTINGS AND WALLS OR ANY OTHER STRUCTURAL ELEMENT.

X. CONTROLS

- LANDSCAPE LIGHTING SYSTEMS CONTROL DEVICES CAN VARY GREATLY IN PERFORMANCE AND COST. IT IS THE CONTRACTOR RESPONSIBILITY TO DISCUSS THE SEVERAL AVAILABLE OPTIONS TO OWNER BEFORE ICOMMENCEMENT OF SYSTEM INSTALLATION AND HAVE OWNER MAKE A SELECTION AS TO HOW OWNER DESIRES TO CONTROL THE SYSTEM.

Y. GENERAL CONDITIONS.

- APPLICABLE 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.
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - UNDERWRITERS LABORATORIES, INC. (UL)
- PROVIDE MANUFACTURER'S STANDARD FINISH, AS SCHEDULED ON THE PLAN. IF NOT AVAILABLE, CONSULT WITH LANDSCAPE ARCHITECT.
- 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.
- IF PROJECT ELECTRICAL DESIGN IS TO BE CONTROLLED BY A SMART HOME AUTOMATION SYSTEM, ELECTRICAL ENGINEER AND AUTOMATION SYSTEM CONTRACTOR SHALL COORDINATE WITH OWNER, GENERAL CONTRACTOR AND LANDSCAPE LIGHTING CONTRACTOR THE LANDSCAPE LIGHTING DESIGN SYSTEM OPERATION.
- LANDSCAPE LIGHTING PLAN SHALL BE COORDINATED BY PROJECT ARCHITECT WITH ELECTRICAL ENGINEER SO THAT LINE VOLTAGE OUTLETS FOR TRANSFORMERS CONECTIONS ARE PLACED AS PER LANDSCAPE LIGHTING PLAN OR AS A LOCATION AGREED WITH OWNER. CONTRACTOR INSTALLING THE SYSTEM SHALL COORDINATE WITH GENERAL CONTRACTOR AND OWNER THE LANDSCAPE LIGHTING ON/OFF TIMING AND DAYS OF THE WEEK CONTROL.



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revisions	date	issued	drawn	checked	project no.
1	12/04/2024	SITE PLAN			2841
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4	07/15/2025	COMMENTS			
5	07/28/2025	COMMENTS			
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