

1414 ALTON ROAD  
MIAMI BEACH, FL 33139

SERIAL NUMBER  
(BANKING CENTER): FL7-515  
NRSP VERSION: 2.0  
BULLETIN: 0X/2024

11 East Madison Street  
Suite 300  
Chicago, IL 60602  
United States

Tel 312.456.0123  
Fax 312.456.0124



INFINITY ENGINEERING  
GROUP, LLC

1208 East Kennedy Boulevard  
Suite 230  
Tampa, Florida 33602

Tel 813.434.4770  
Fax 813.445.4211  
www.iegroup.net

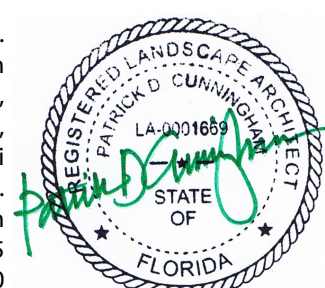
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Date	Description
06/22/2025	FIRST SUBMITTAL - DRB24-1061
08/24/2025	FINAL SUBMITTAL - DRB24-1061

Seal / Signature

PATRICK D. CUNNINGHAM  
FL REG. NO. LA0001669

Digitally signed by Patrick D. Cunningham  
DN: c=US, ou=Cunningham, givenName=Patrick D., email=pcunningham@icgma.com, cn=Patrick D. Cunningham  
Date: 2025.08.22 14:52:25 -0400



DATE  
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Project Name

MIAMI BEACH

Project Number

10-1316.00

Description

LANDSCAPE PLAN

Scale

As indicated  
NOTE: DRAWINGS NOT TO SCALE ON 11" X 17" SHEETS

LP01.01

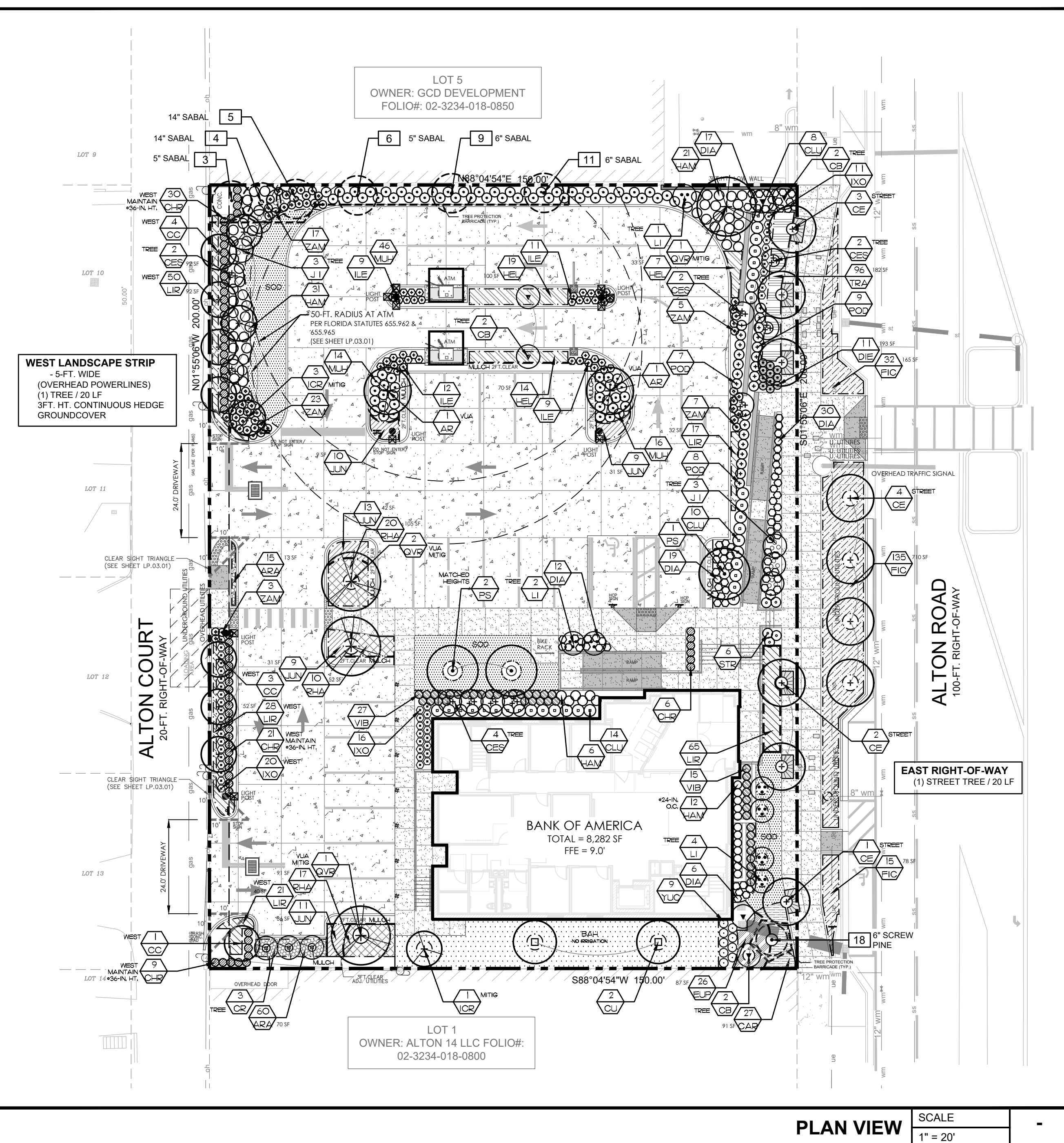
## Plant List

SYM	BOTANICAL NAME/ COMMON NAME	HEIG-TH/ SPREAD	SPECIFICATION	NATIVE	DROUGHT TOLERANT	TOTAL
AR	ACER RUBRUM RED MAPLE	12' HT. 6' SPR.	FIELD GROWN, B&B 2" DBH MIN, 4' CT. MIN.	Y	M	2
CC	CALLISTEMON CITRINUS RED BOTTLEBRUSH	12' HT. 6' SPR.	FIELD GROWN, B&B SINGLE TRUNK, 2" DBH MIN, 4' CT. MIN.	N	H	8
CE	CONOCARPUS BRECTUS GREEN BUTTWOOD	14' HT. 6' SPR.	FIELD GROWN, B&B SINGLE TRUNK, 3" DBH MIN, 4' CT.	Y	H	10
CU	COCCOBLA LIVIPERA SEA GRAPE	12' HT. 6' SPR.	FIELD GROWN, B&B 2" DBH MIN, 4' CT. MIN.	Y	H	2
CR	ILEX CASSINE DAHOON HOLLY	12' HT. 6' SPR.	FIELD GROWN, B&B 2" DBH MIN, 4' CT. MIN.	Y	M	4
QVR	QUERCUS VIRGINIANA LIVE OAK	18' HT. 6' SPR.	FIELD GROWN, B&B 6" DBH MIN, 5' CT. MIN.	Y	H	4
PS	PHOENIX SYLVESTRIS SILVER DATE PALM	14' CT.	FIELD GROWN, B&B 10" DBH MIN.	N	H	3
OB	CORDIA BOISSIERI WHITE GEIGER TREE	6' HT. 4' SPR.	FIELD GROWN, B&B, 3' CT. STANDARD	Y	H	6
CES	CONOCARPUS BRECTUS 'SERICEUS' SILVER BUTTWOOD	6' HT. 4' SPR.	FIELD GROWN, B&B MULTI-TRUNK, TREE FORM	Y	H	10
CR	CLUSIA ROSEA PRITCHARD MAPLE	6' HT. 4' SPR.	FIELD GROWN, B&B 3' CT. STANDARD	Y	H	3
J1	JATROPHA INTEGERRIMA PERSEGINA	6' HT. 4' SPR.	FIELD GROWN, B&B MULTI-TRUNK, TREE FORM	N	H	6
L1	LAGERSTROEMIA INDICA ORANGE MYRTLE	6' HT. 4' SPR.	FIELD GROWN, B&B MULTI-TRUNK, TREE FORM	N	H	7
CHR	CHRYSOBALANUS ICACO COCOPLUM	30' X 18'	24' O.C. FULL TO BASE	Y	H	60
CLU	CLUSIA ROSEA CLUSIA	36' X 24'	36' O.C. FULL TO BASE	Y	H	22
HAM	HAMELIA PATENS NATIVE FIRE BUSH	18' X 16'	36' O.C. FULL TO BASE	Y	H	70
IXD	INDORA COCONEA INDORA	24' X 18'	24' O.C. FULL TO BASE	N	H	47
POD	PODOCARPUS MACROPHYLLUS PODOCARPUS	36' X 24'	30' O.C. FULL TO BASE	N	H	16
VIB	VIBURNUM OBOVATUM 'DENSE' DWARF WALTER'S VIBURNUM	18' X 18'	24' O.C. FULL TO BASE	Y	H	42
ZAM	ZAMBIA PLUMA COONITE	18' X 18'	24' O.C. FULL TO BASE	Y	H	55
ARA	ADZACHIS GLABRATA PERENNIAL PEANUT	1 GAL, 14" O.C. FULL		N	H	75
CAR	CARRISA MACROCARPA NATAL PLUM	14' HT.	24' O.C.	Y	H	27
DIA	DIANELLA TASMINICA LILY LILY	18' HT.	24' O.C. FULL	N	H	67
DIE	DIETES VEGETA AFRICAN BIRD	18' HT.	24' O.C. FULL	N	H	11
ELP	ELPHERIA MILI CROWN OF THORNS	3 GAL, 24" O.C. FULL		N	H	26
FIC	FICUS MICROCARPA 'GREEN ISLAND' GREEN ISLAND FIG	3 GAL, 30" O.C. FULL		N	H	182
HEL	HELIANTHUS DEBILIS DUNE SUNFLOWER	3 GAL, 30" O.C. FULL		Y	H	40
ILE	ILEX VOMITORIA 'NANA' DWARF YALPOON HOLLY	14" X 14"	24" O.C. FULL TO BASE	Y	H	41
JUN	JUNIPER HORIZONTALIS 'WILTONII' BLUE RUG JUNIPER	3 GAL, 24" O.C. FULL		N	H	52
LIR	LIRIOPE MUSCARI 'VAREGATA' VAREGATED LIRIOPE	1 GAL, 18" O.C. FULL TO BASE		N	M	181
MJL	MULLENBERGIA CAPILLARIS MUL-LY GRASS	3 GAL, 30" O.C. FULL		Y	H	76
RHA	RAPHAELIS INDICA INDIAN HAWTHORN	14" X 14"	30" O.C. FULL TO BASE	N	H	47
STR	STRELTZIA RESINAE BIRD OF PARADISE	30" HT.	AS SHOWN FULL	N	H	6
TRA	TRACHYLOPERMUM ASIATICUM 'MINIMA' ASIATIC JASMINE	1 GAL, 18" O.C. FULL		N	H	96
YUC	YUCCA FILAMENTOSA ADAMS NEEDLE	7 GAL. FULL		Y	H	9
BAH	PASPALUM NOTATUM 'PLUGGE' ARGENTINE BAHIA GRASS		DISEASE FREE LAID TIG-TILT, EVEN UNIFORM	N	H	9.72 SF
SOD	STENOTAPHRUM SECUNDATUM ST. AUGUSTINE FLORITAM GRASS		DISEASE FREE LAID TIG-TILT, EVEN UNIFORM	Y	M	1,230 SF

- TR: TREES/PALMS USED FOR TREE MITIGATION/REPLACEMENT, IN ADDITION TO THE REQUIRED TREES
  - VI: TREES PROPOSED IN LIEU OF SHADE TREES DUE TO EXISTING OVERHEAD UTILITIES
  - ST: TREES PROPOSED AS STREET TREES
  - MA: NATIVE PLANT MATERIAL
  - AL: ALL PROPOSED PLANTS ARE LISTED IN THE MIAMI DADE LANDSCAPE MANUAL
- PLEASE NOTE:  
THE MINIMUM HEIGHT OF ALL PROPOSED STREET TREES IS TO BE 16 FEET AT INSTALLATION, IN ADDITION TO THE OTHER PROPOSED SPECIFICATIONS.

## Additional Notes

- MAINTENANCE: ALL NEWLY INSTALLED PLANTING MATERIAL WILL BE MAINTAINED IN A CONDITION THAT MEETS OR EXCEEDS FLORIDA NUMBER 1 AND HAS A ONE (1) YEAR REPLACEMENT GUARANTEE.
- STRUCTURAL SOIL: IS REQUIRED FOR SIDEWALK OUT-OUT INSTALLATIONS, SPECIFICALLY, FOR THE PROPOSED (10) GREEN BUTTWOOD TREES LOCATED WITHIN THE SIDEWALK.
- DURING CONSTRUCTION, ALL REASONABLE STEPS NECESSARY TO PREVENT THE DESTRUCTION OR DAMAGING OF TREES SHALL BE TAKEN. TREES DESTROYED REQUIRING MAJOR DAMAGE MUST BE REPLACED BY TREES OF EQUAL ENVIRONMENTAL VALUE AS SPECIFIED IN SECTION 17-6 BEFORE OCCUPANCY OR USE UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED UNDER PERMIT. DURING CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED WITH A RADIUS OF 10' AROUND THE TREES TO REMAIN IN ACCORDANCE WITH THE LANDSCAPE MANUAL, UNLESS A CERTIFIED ARBORIST OTHERWISE DETERMINES IN WRITING THAT A SMALLER OR LARGER PROTECTED AREA IS ACCEPTABLE FOR EACH TREE, OR AN ALTERNATIVE TREE PROTECTION METHOD IS RECOMMENDED.
- ALL MINIMUMS FOR EACH PLANT SPECIFIED WITHIN THE PLANT LIST ARE REQUIRED TO BE MET. IF ANY OF THE MINIMUMS ARE NOT MET, THE INSTALLED MATERIAL MAY OR MAY NOT BE REJECTED ON A CASE BY CASE BASIS BY THE LANDSCAPE ARCHITECT, OWNER, OR JURISDICTION. FOR EXAMPLE, ALL TREE CALIPER AND CONTAINER SIZES NOTED ON THE PLANT LIST ARE A MINIMUM. CONTRACTOR TO INCREASE THE SIZE IF NECESSARY TO CONFORM TO THE PLANT SIZES AND SPECIFICATIONS.

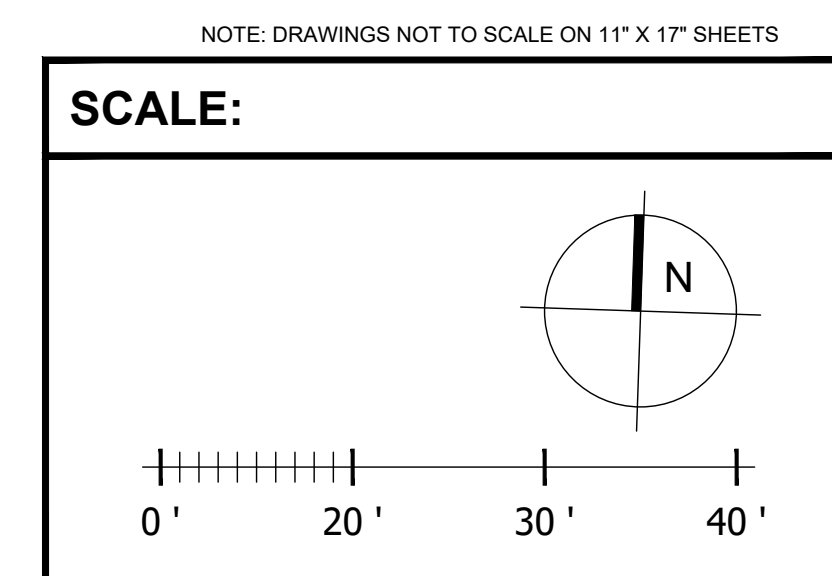


## Key

- PLANT QUANTITY: 44 MAINTAIN
- PLANT SPECIES: (REFER TO PLANT LIST)
- SPECIAL INSTRUCTIONS / BED AREA
- REQUIRED CODE CATEGORY REFER TO LANDSCAPE REQUIREMENTS
- VEHICULAR USE AREA
- WEST LANDSCAPE STRIP
- REQUIRED SMALL TREE
- ADD TREES MITIGATION

## General Notes

- PLANT AND LANDSCAPE MATERIALS SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1, AS GIVEN IN THE GRASSES AND STALKS FOR NURSERY PLANTS, PARTS 1 & 1A, AS PREPARED BY FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- ALL UTILITIES THAT ARE KNOWN TO THE LANDSCAPE ARCHITECT ARE LOCATED ON THE PLAN FOR EXISTING OR PROPOSED UTILITIES.
  - NO TREES SHALL BE PLANTED WHERE IT COULD CONFLICT WITH OVERHEAD POWER LINES AT MATURE HEIGHT.
  - NO TREE, SHRUBS, HEDGES OR VINES SHALL BE PLANTED WITHIN FIVE (5) FEET OF ANY EXISTING OR PROPOSED UTILITY POLE, GUY WIRE OR PAD MOUNTED TRANSFORMER.
  - LARGE TREES (HEIGHT AT MATURITY OF MORE THAN 30 FEET) SHALL BE PLANTED NO CLOSER THAN A HORIZONTAL DISTANCE OF 30 FEET FROM THE NEAREST OVERHEAD POWERLINE.
  - MEDIUM HEIGHT TREE (HEIGHT AT MATURITY BETWEEN 20 AND 30 FEET) SHALL BE OFFSET AT LEAST TWENTY (20) FEET.
  - SMALL TREES (HEIGHT AT MATURITY OF LESS THAN 20 FEET) REQUIRE NO OFFSET.
  - PALMS SHOULD BE PLANTED AT A DISTANCE EQUAL TO OR GREATER THAN THE AVERAGE FROND LENGTH PLUS 2 FEET FROM POWER LINES.
- THE CONTRACTOR SHALL ENSURE THAT ALL PLANTING ISLANDS AND OTHER AREAS SHALL BE CLEAN OF TRASH, CONSTRUCTION DEBRIS, OR OTHER WASTE MATERIALS TO A DEPTH OF 24 INCHES PRIOR TO LANDSCAPE INSTALLATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL PLANT BED AREAS HAVE PROPER DRAINAGE FOR OPTIMAL GROWTH OF LANDSCAPE MATERIAL BEFORE INSTALLATION BEGINS. EXISTING DRAINAGE PATTERN SHALL NOT BE ALTERED OR IMPACTED BY NEW LANDSCAPING.
- PLANT ALL TREES AND PALMS (2 INCH - 4 INCH ABOVE FINISHED GRADE) TREES INSTALLED OR BURIED TOO DEEP SHALL BE RESET TO THIS STANDARD. REMOVE THE TOP ONE-THIRD (1/3) OF THE WIRE BASKETS ON ALL B & B MATERIAL.
- ALL HEDGES AND GROUNDCOVERS TO BE PLANTED LEAVING SPACE BETWEEN PLANTS AND BUILDINGS, WALLS AND FENCES.
- ALL PLANT BEDS AND TREE RINGS SHALL BE TREATED WITH PRE-EMERGENT HERBICIDE AND THEN TOP-DRESSED WITH 3/8" DEEP LAYER OF COMMERICAL SIEVED ZINC SULFATE OR FLO-RN-MULCH. CONTRACTOR SHALL INSTALL WOVEN WEED BARRIER FABRIC IN ALL SHRUB/GROUNDCOVER BEDS.
- HAND DIGGING HOLES FOR INSTALLING PROPOSED TREES IN CLOSE PROXIMITY TO UTILITIES IS REQUIRED TO AVOID CONFLICTS.
- ALL EXOTIC VEGETATION TO BE REMOVED FROM THE SITE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- EXISTING AND PROPOSED LANDSCAPING IS TO BE MAINTAINED PER JURISDICTIONS CLEAR SIGHT TRIANGLE REGULATIONS.
- NEW SOD SHALL BE ST. AUGUSTINE FLORITAM AND ARGENTINE BAHIA GRASS. THE QUANTITY SHOWN ON THE PLANT LIST IS AN ESTIMATE AND CONTRACTOR SHALL DETERMINE EXACT QUANTITIES IN THE FIELD. SOD AREAS TO BE MAINTAINED BY THE CONTRACTOR FROM THE TIME OF INSTALLATION TO THE TIME OF FINAL ACCEPTANCE.
- THE LANDSCAPE ARCHITECT MAY INSPECT TREES AND SHRUBS WHETHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING. FOR COMPLIANCE WITH THE REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND QUALITY, LANDSCAPE ARCHITECT RETAINS RIGHT TO FURTHER INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
- NO SUBSTITUTIONS WILL BE ACCEPTABLE IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE. SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT AND JURISDICTION TOGETHER WITH THE PROPOSAL FOR USE OF EQUIVALENT MATERIAL.
- IN EVENT OF DISCREPANCY, THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT LIST.
- ALL MINIMUMS FOR EACH PLANT SPECIFIED WITHIN THE PLANT LIST ARE REQUIRED TO BE MET.
  - TREE/SHRUB HEIGHT AND SPREAD WILL PREVAIL OVER CALIPER AND CONTAINER SIZE.
  - PERIMETER HEDGES ARE REQUIRED TO BE INSTALLED AT SOIL HEIGHT, AND CALCULATED AT A 36-IN. ON-CENTER (O.C.) EQUIVALENT.
 IF ANY OF THE MINIMUMS ARE NOT MET, THE INSTALLED MATERIAL MAY OR MAY NOT BE REJECTED ON A CASE BY CASE BASIS BY THE LANDSCAPE ARCHITECT, OWNER, OR JURISDICTION. FOR EXAMPLE, ALL TREE CALIPER AND CONTAINER SIZES NOTED ON THE PLANT LIST ARE A MINIMUM. CONTRACTOR TO INCREASE THE SIZE IF NECESSARY TO CONFORM TO THE PLANT SIZES AND SPECIFICATIONS.
- TREES TO BE STAKED ONLY IF REQUIRED AS DEEMED NECESSARY BY OWNER AND LANDSCAPE ARCHITECT TO ASSURE HEALTH, SAFETY AND WELFARE (INCLUDES BUT NOT LIMITED TO ALL CURVED CABPAGE, TALL ROYALS, CURVED AND LEANING SPECIMENS). ALL WOOD STAKES TO BE PAINTED FOREST GREEN. STAKING PROCEDURES SHALL BE STANDARD CONTRACTOR PRACTICE CREATING NO TRUNK DAMAGE OR FUTURE STAKING OF TREE.
- ALL PLANT MATERIAL SHALL BE PLANTED WITH 'TERRA-SORB AG' OR AN APPROVED EQUAL, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE RATE OF APPLICATION.
- AN AUTOMATIC IRRIGATION SYSTEM WILL BE PROVIDED WHICH MEETS OR EXCEEDS THE FULL REQUIREMENTS OF THE LAND DEVELOPMENT REGULATIONS. THE OWNER WILL SUPPLY ALL PROPOSED PLANT MATERIAL WITH 100% IRRIGATION (AUTOMATIC) OVERLAP MINIMUM WITHIN TEN DAYS OF INITIAL INSTALLATION.
- CONTRACTOR TO INSTALL THE IRRIGATION SYSTEM PER THE JURISDICTIONS REGULATIONS TO CONFORM TO THE LANDSCAPE DESIGN.

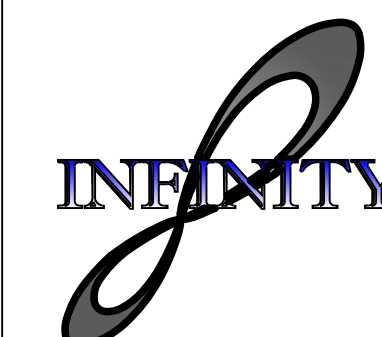


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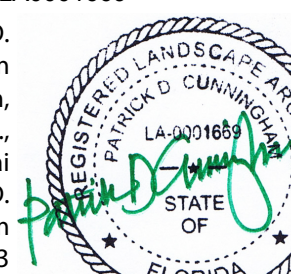
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Project Name

MIAMI BEACH

Project Number

10-1316.00

Description

TREE INVENTORY PLAN

Scale

As indicated  
NOTE: DRAWINGS NOT TO SCALE ON 11" X 17" SHEETS

LP02.01

Existing Tree Inventory List

(PER SURVEY DATED 01/28/2025)

TREE#	COMMON NAME	SCIENTIFIC NAME	DBH (INCHES)	DESIGNATION	ACTION	NOTES
1	AVACADO TREE	PERSEA SPP.	4"		REMOVE	
2	SABAL PALM	SABAL PALMETTO	13"	SPECIMEN	REMOVE	
3	SABAL PALM	SABAL PALMETTO	5"	SPECIMEN	REMAIN	
4	SABAL PALM	SABAL PALMETTO	14"	SPECIMEN	REMAIN	
5	SABAL PALM	SABAL PALMETTO	14"	SPECIMEN	REMAIN	
6	SABAL PALM	SABAL PALMETTO	5"	SPECIMEN	REMAIN	
7	UMBRELLA TREE	SCHEFFLERA SPP.	24"	SPECIMEN	REMOVE	PROHIBITED SPECIES
8	SABAL PALM	SABAL PALMETTO	12"	SPECIMEN	REMOVE	
9	SABAL PALM	SABAL PALMETTO	6"	SPECIMEN	REMAIN	
10	SABAL PALM	SABAL PALMETTO	5"	SPECIMEN	REMOVE	
11	SABAL PALM	SABAL PALMETTO	6"	SPECIMEN	REMAIN	
12	ALEXANDER PALM	PTYCHOSPERMA ELEGANS	3"	SPECIMEN	REMOVE	
13	SEA GRAPE	COCCOLOBA UVIFERA	72"	SPECIMEN	REMOVE	
14	SABAL PALM	SABAL PALMETTO	15"	SPECIMEN	REMOVE	
15	ALEXANDER PALM	PTYCHOSPERMA ELEGANS	5"	SPECIMEN	REMOVE	ALTON RD. R.O.W.
16	ALEXANDER PALM	PTYCHOSPERMA ELEGANS	5"	SPECIMEN	REMOVE	ALTON RD. R.O.W.
17	LIVE OAK	QUERCUS VIRGINIANA	22"	SPECIMEN	REMOVE	
18	SCREW PINE	PANDANUS UTILIS	6"		REMAIN	
19	LIVE OAK	QUERCUS VIRGINIANA	13"	SPECIMEN	REMOVE	
20	LIVE OAK	QUERCUS VIRGINIANA	16"	SPECIMEN	REMOVE	
21	LIVE OAK	QUERCUS VIRGINIANA	4"		REMOVE	

SPECIMEN TREE - TREES WITH A DBH OF 12-IN. OR GREATER ANY MULTIPLE TRUNK TREE OR PALM IN WHICH THE DBH SUM IS 12-IN. OR GREATER PALMS WITH AN OVERALL HEIGHT OF 10-FT. OR GREATER

KEY

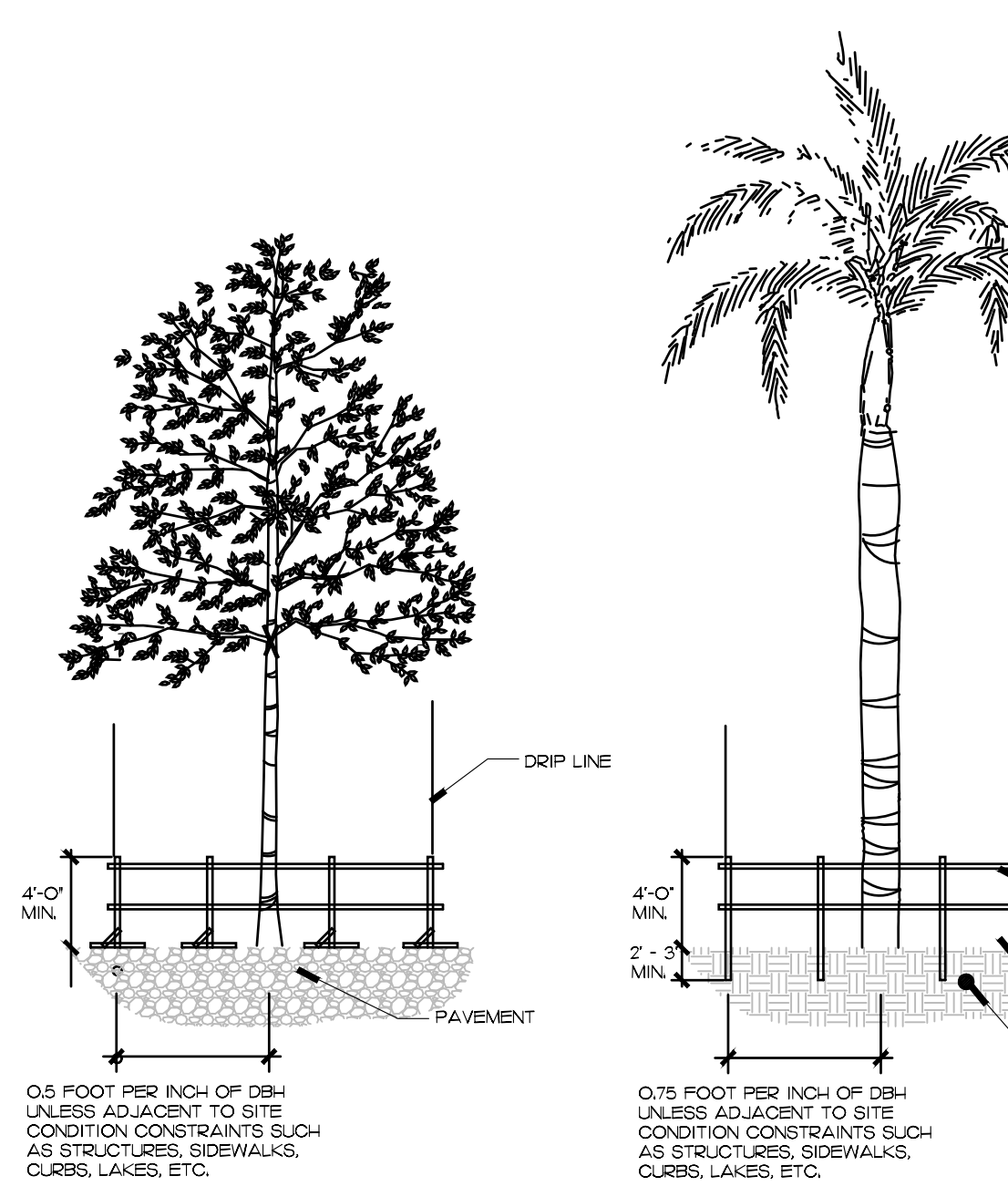
- EXISTING TREE TO BE REMOVED AND/OR RELOCATED
- EXISTING TREE/PALM I.D. TAG DBH & COMMON NAME
- EXISTING TREE/PALM TO REMAIN
- EXISTING OFF-SITE TREE/PALM
- TPZ - TREE PROTECTION ZONE

Tree Protection

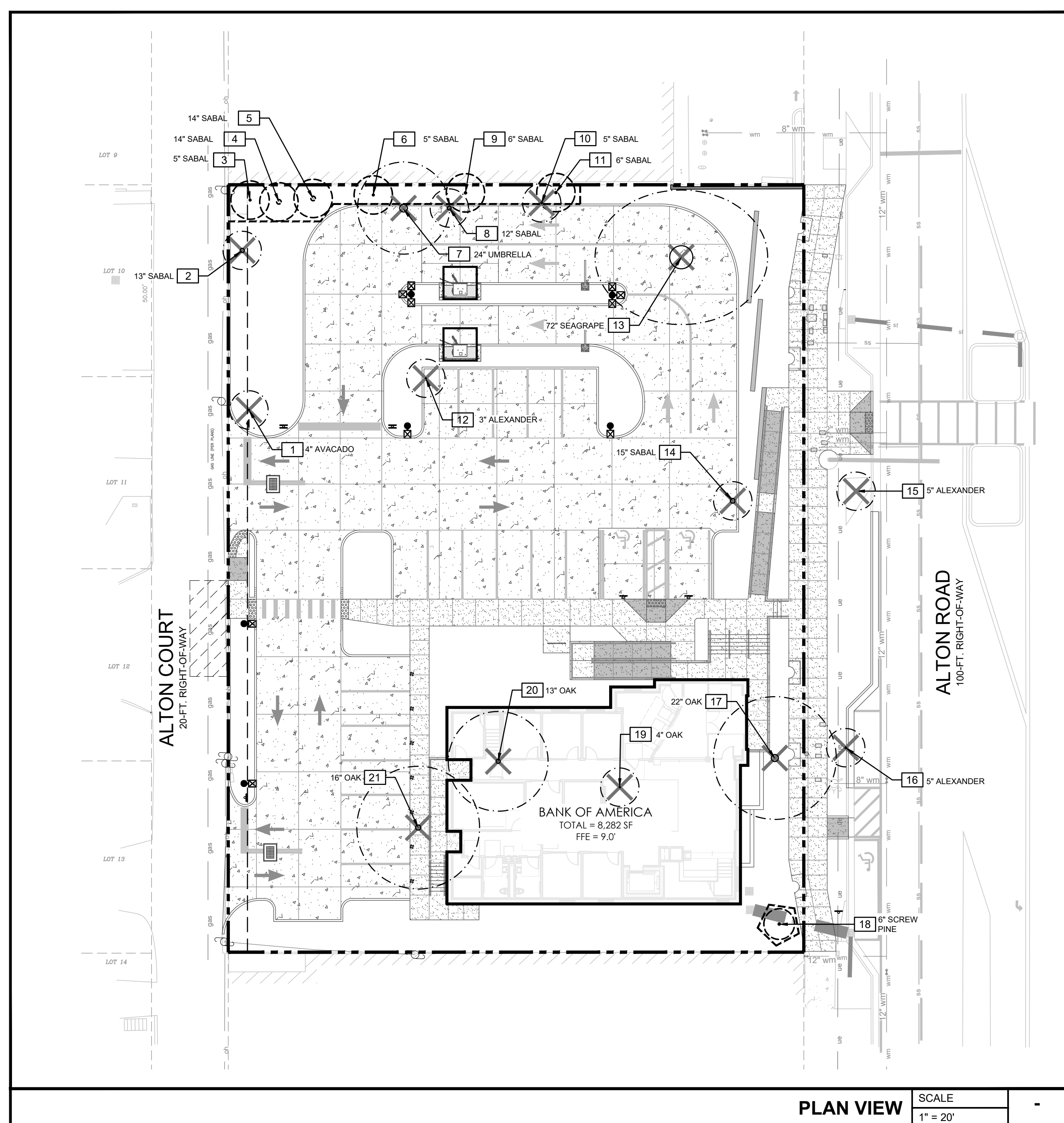
- PRIOR TO AND DURING DEMOLITION, DEVELOPMENT, OR CONSTRUCTION, INCLUDING INSTALLATION OF IRRIGATION SYSTEMS OR ANY OTHER UNDERGROUND INSTALLATIONS, PROTECTIVE BARRIERS SHALL BE PLACED AROUND THE PERIMETER OF EACH TREE'S TPZ AND SHALL REMAIN IN PLACE IN ORDER TO PREVENT THE DESTRUCTION OR DAMAGING OF ROOTS, STEMS OR GROUNDS OF SUCH TREES.
- THE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL APPROVED LANDSCAPE OPERATIONS BEGIN. HOWEVER, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION NEEDS, PROVIDED THAT THE MANNER AND PURPOSE FOR SUCH TEMPORARY REMOVAL WILL NOT HARM THE TREES.
- THE TREES SHALL BE PROPERLY IRRIGATED THROUGHOUT THE BUILDING PROCESS.
- TREES DAMAGED DURING CONSTRUCTION SHALL BE SUBJECT TO THE PROVISIONS OF SECTION 17-9, MIAMI, FLORIDA ENVIRONMENTAL PRESERVATION CODE.
- OTHER TREE REQUIREMENTS. PROPERTY OWNERS SHALL PROTECT THE TREES DESIGNATED FOR PRESERVATION IN THE APPROVED TREE PERMIT FROM CHEMICAL POISONING, EXCAVATION, GRADE CHANGES, AND ANY OTHER POTENTIAL TREE ABUSE TO AT LEAST THE FOLLOWING MINIMUM STANDARDS:
  - UTILITY LINE TRENCHES, UTILITY LINE TRENCHES AND/OR DIRECTIONAL BORINGS SHALL BE ROUTED AWAY FROM THE TREES TO AN AREA OUTSIDE THE TPZ TO THE MAXIMUM EXTENT POSSIBLE.
  - PARKING ON SITE DURING CONSTRUCTION OR DEVELOPMENT ACTIVITIES, NO PARKING, VEHICLE MAINTENANCE, STORAGE OF CONSTRUCTION MATERIALS OR DEBRIS, OR CLEANING OF EQUIPMENT SHALL TAKE PLACE WITHIN AREAS MARKED FOR PRESERVATION SPECIFICALLY INCLUDING, BUT NOT LIMITED TO, WITHIN THE TPZ OF ANY INDIVIDUAL TREES OR CLUSTER OF TREES.
- TREE PRUNING/TRIMMING.
  - THE PRUNING OR TRIMMING OF ANY TREE SHALL BE DONE IN ACCORDANCE WITH ANSI A-300 TREE CARE STANDARDS AND THE GUIDELINES ILLUSTRATED IN THE LANDSCAPE MANUAL.
  - THE PRACTICE KNOWN AS "HATRACKING" OR "TOPPING" IS NOT PERMITTED AND SHALL BE CONSIDERED A VIOLATION.
  - A CERTIFIED ARBORIST MONITOR THE TRIMMING AND PROVIDE THE DEPARTMENT WITH PHOTOGRAPHIC DOCUMENTATION FOLLOWING THE TRIMMING.
  - ANY OTHER TREE ABUSE, OR ACTIVITY THAT CAN EFFECTIVELY DESTROY A TREE, SHALL ALSO BE CONSIDERED A VIOLATION OF THIS ARTICLE.
- DURING CONSTRUCTION, ALL REASONABLE STEPS NECESSARY TO PREVENT THE DESTRUCTION OR DAMAGING OF TREES SHALL BE TAKEN. TREES DESTROYED RECEIVING MAJOR DAMAGE MUST BE REPLACED BY TREES OF EQUAL ENVIRONMENTAL VALUE AS SPECIFIED IN SECTION 17-6 BEFORE OCCUPANCY OR USE UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED UNDER PERMIT. DURING CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED WITH A RADIUS OF 10' AROUND THE TREES TO REMAIN IN ACCORDANCE WITH THE LANDSCAPE MANUAL UNLESS A CERTIFIED ARBORIST OTHERWISE DETERMINES IN WRITING THAT A SMALLER OR LARGER PROTECTED AREA IS ACCEPTABLE FOR EACH TREE, OR AN ALTERNATIVE TREE PROTECTION METHOD IS RECOMMENDED.

PLEASE NOTE: DURING CONSTRUCTION, ALL REASONABLE STEPS NECESSARY TO PREVENT THE DESTRUCTION OR DAMAGING OF TREES SHALL BE TAKEN. TREES DESTROYED RECEIVING MAJOR DAMAGE MUST BE REPLACED BY TREES OF EQUAL ENVIRONMENTAL VALUE AS SPECIFIED IN SECTION 17-6 BEFORE OCCUPANCY OR USE UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED UNDER PERMIT. DURING CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED WITH A RADIUS OF 10' AROUND THE TREES TO REMAIN IN ACCORDANCE WITH THE LANDSCAPE MANUAL, UNLESS A CERTIFIED ARBORIST OTHERWISE DETERMINES IN WRITING THAT A SMALLER OR LARGER PROTECTED AREA IS ACCEPTABLE FOR EACH TREE, OR AN ALTERNATIVE TREE PROTECTION METHOD IS RECOMMENDED.

- NOTES:
- CALIPER IS MEASURED AT DIAMETER AT GREATEST HEIGHT (DBH), 4.5' ABOVE GRADE.
  - THE MAX. REQUIRED UNOBTURBED AREA SHALL NOT EXCEED 24 FEET FROM THE CENTER OF THE TREE.
- ALL EXISTING TREES TO BE PROTECTED DURING ANY LAND CLEARING AND/OR CONSTRUCTION AS FOLLOWS:
- PRIOR TO ANY LAND CLEARING OPERATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED AROUND ALL TREES TO REMAIN WITHIN THE LIMITS OF LAND CLEARING OR CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF THE WORK.
    - TREE PROTECTION SHALL COMPLY WITH THE JURISDICTION'S REGULATIONS.
    - NO MATERIALS, TRAILERS, EQUIPMENT OR CHEMICALS SHALL BE STORED, OPERATED, DUMPED, BURIED OR BURNED WITHIN THE PROTECTED AREAS.
    - NO ATTACHMENT, WIRES (OTHER THAN PROTECTIVE GUY WIRES), SIGNS OR PERMITS SHALL BE ATTACHED TO A PROTECTED TREE.
    - PROTECTED TREES SHALL BE PRUNED TO RESTORE THIS NATURAL SHAPE AND FERTILIZED AS NECESSARY TO COMPENSATE FOR ANY LOSS OF ROOTS AND TO STIMULATE ROOT GROWTH.
    - ANY DAMAGE TO TREE CROVNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY AFTER DAMAGE OCCURS.
  - TO INCLUDE MIN. OF 50% AREA UNDER DRIPLINE OF TREE.
  - UTILITIES ARE TO BE TUNNELED (NOT TRENCHED) WITHIN UNDISTURBED AREAS OF TREE PROTECTION.



TYPICAL TREE PROTECTION DETAIL  
NOT TO SCALE



PLAN VIEW SCALE 1" = 20'

TREE CALCULATIONS

**PALM REMOVALS**

TOTAL PALMS TO BE REMOVED - 7 TREES  
7 PALMS \* 7 TREES = 49 DBH

PROPOSED TREES MITIGATION  
4 - DAHOOON HOLLY (8' HT., 2" DBH) = 4'  
2 - SEAGRAPE (6' HT., 2" DBH) = 4'  
5 - BOTTLEBRUSH (6' HT., 2" DBH) = 16'  
10 - G. BUTTANWOOD (6' HT., 3" DBH) = 30'  
4 - LIVE OAK (6' HT., 5" DBH) = 24'

TOTAL PALM MITIGATION REQUIRED - 0 TREES

**TREE REMOVALS**

TOTAL TREES TO BE REMOVED (DBH INCHES)  
7 TREES \* 155" DBH TOTAL = 1085 DBH

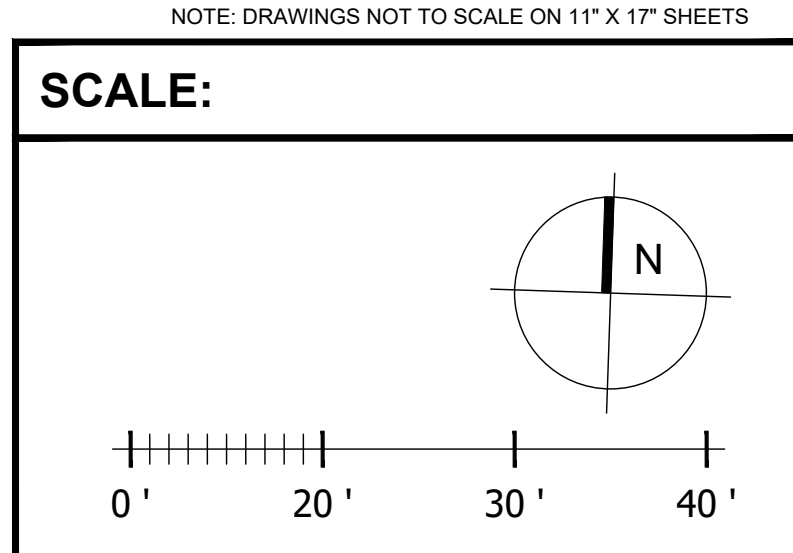
PROPOSED TREES MITIGATION  
2 - RED MAPLE (6' HT., 2" DBH) = 4'  
4 - DAHOOON HOLLY (8' HT., 2" DBH) = 8'  
2 - SEAGRAPE (6' HT., 2" DBH) = 4'  
5 - BOTTLEBRUSH (6' HT., 2" DBH) = 16'  
10 - G. BUTTANWOOD (6' HT., 3" DBH) = 30'  
4 - LIVE OAK (6' HT., 5" DBH) = 24'

TOTAL TREE MITIGATION REQUIRED  
69" DBH \* 24 TREES = 2" DBH, 12' HT., 6' SPR.  
OR  
69" DBH \* 12 TREES = 4" DBH, 16' HT., 8' SPR.  
OR  
69" DBH \* \$24,000.00 CONTRIBUTION

TOTAL CONTRIBUTION REQUIRED \$24,000.00

Additional Notes

- CALCULATIONS ABOVE ARE PER SEC. 46-61 TREE REPLACEMENT CHART IN THE CITY OF MIAMI'S ENVIRONMENTAL PRESERVATION LAND DEVELOPMENT REGULATION.
- THE CITY MAY WISH TO RELOCATE THE EXISTING TREES AT OWNER'S EXPENSE TO CITY PROPERTIES WITHIN THE DISTRICT.
- A TREE REMOVAL PERMIT WILL BE REQUIRED PRIOR COMMENCEMENT OF DEVELOPMENT ACTIVITY.
- UP TO 30 PERCENT OF THE 2-INCH DBH REPLACEMENT TREE REQUIREMENT MAY BE MET BY NATIVE SPECIES WITH A MINIMUM HEIGHT OF 10 FEET AND A MINIMUM DBH OF 1 1/2 INCHES AT TIME OF PLANTING.
- THE REMOVAL OF A PALM SHALL BE REPLACED WITH (1) TREE AT 12 FEET OVERALL HEIGHT WITH A 2-INCH DBH.
- THE EXISTING TREE LOCATIONS AND SIZES (DBH) DEPICTED WITHIN THE LANDSCAPE PLAN SET ARE TAKEN FROM THE CERTIFIED SURVEY DATED JANUARY 28, 2025, PREPARED BY ALTAMAX SURVEYING, (407) 677-0300.
- A CERTIFIED ARBORIST, NOT THE LANDSCAPE ARCHITECT IS RESPONSIBLE FOR ANY TREE EVALUATION REQUIRED BY THE JURISDICTION.
- THE AREA WITHIN THE DRIP LINE OF EXISTING TREES AND/OR PALMS SCHEDULED TO REMAIN AND BE PROTECTED, SHALL BE UNDISTURBED. TREE PROTECTION ZONE (TPZ) DIMENSIONS TO CONFORM TO EXISTING BOUNDARIES SUCH AS SIDEWALKS AND OTHER HARDSCAPES.

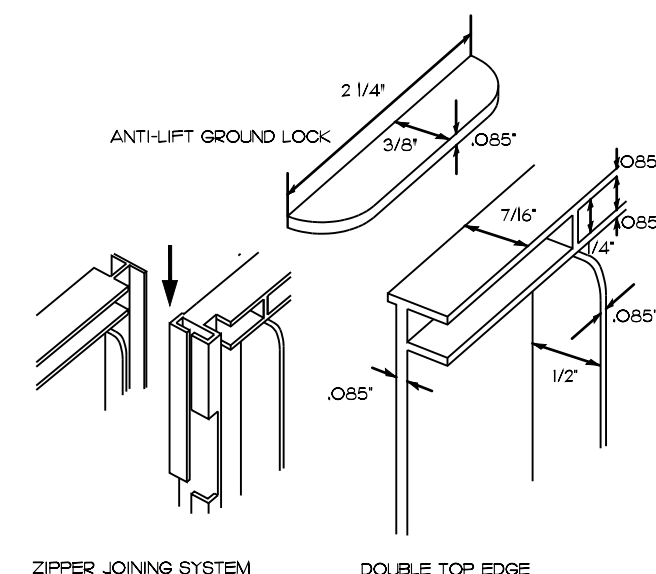


NOTE: DRAWINGS NOT TO SCALE ON 11" X 17" SHEETS

**NOTES**  
SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING HARDSCAPES AND LANDSCAPES, ASSEMBLED IN 2' LONG MODULES TO CREATE VARYING SIZES OF CYLINDERS FOR SURROUNDING ROOT BALLS (SURROUND PLANTING STYLE) OR FOR LINEAR APPLICATIONS DIRECTLY BESIDE A HARDSCAPE ADJACENT TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

**A. MATERIALS**

1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT # UB 24-2 x UB 20-2 AND # UB 48-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, L.P. 345 LORTON AVE. #103, BURLINGAME, CA (800-458-7668), OR APPROVED EQUAL. THE BARRIER SHALL BE BLACK, INJECTION MOULDED PANELS OF 0.085" WALL THICKNESS IN MODULES 24" LONG BY 24" & 48" DEEP, MANUFACTURED WITH A MINIMUM 50% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS. RECYCLABLE. EACH PANEL SHALL HAVE:

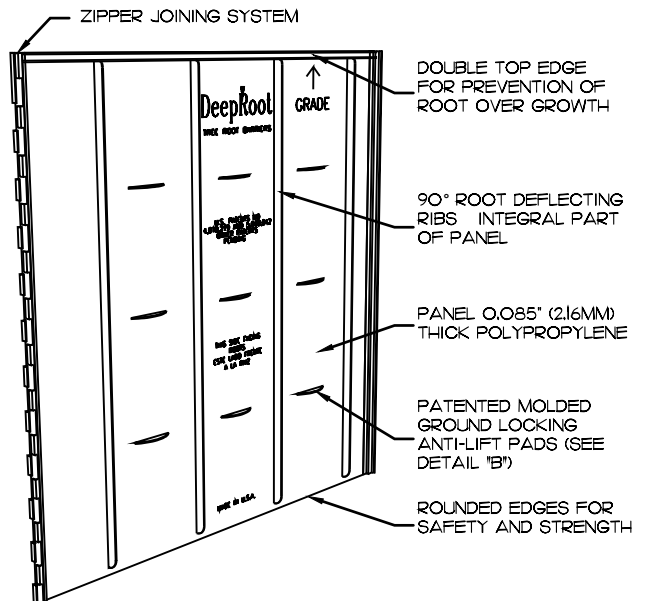


**B. CONSTRUCTION AND INSTALLATION**

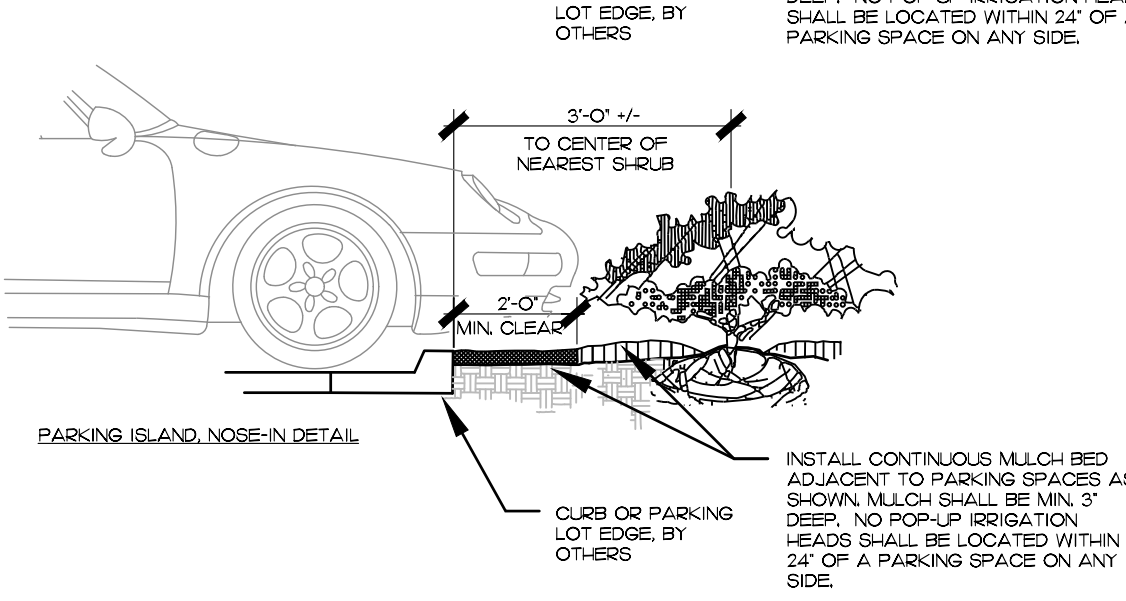
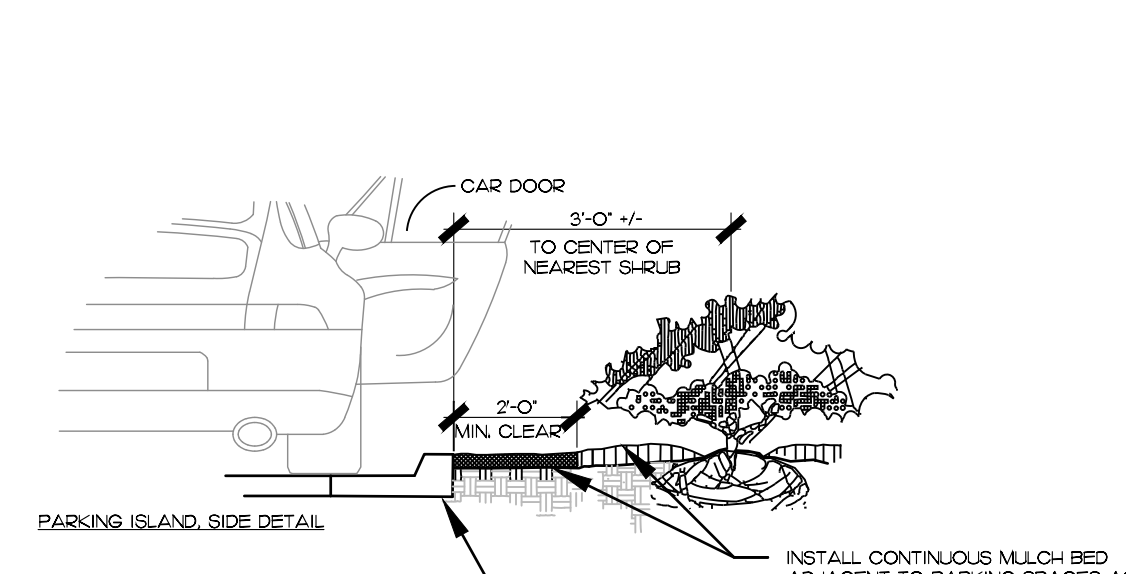
1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE NUMBER OF PANELS AND IN THE MANNER SHOWN ON THE DRAWINGS. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2" ABOVE GRADE. EACH OF THE REQUIRED NUMBER OF PANELS SHALL BE CONNECTED TO FORM A CIRCLE AROUND THE ROOT BALL OR WHERE SPECIFIED, JOINED IN A LINEAR FASHION AND PLACED ALONG THE ADJACENT HARDSCAPE. ALL STREET TREES WITH TRUNKS CLOSER THAN 4 FT. TO PAVED SURFACES SHALL BE PLANTED WITH ROOT BARRIER BETWEEN THE ROOT BALL AND PAVING. PLANTINGS WITHIN TREE WELLS REQUIRE ROOT BARRIERS ALONG ALL SIDES OF THE TREE WELL.

2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS.

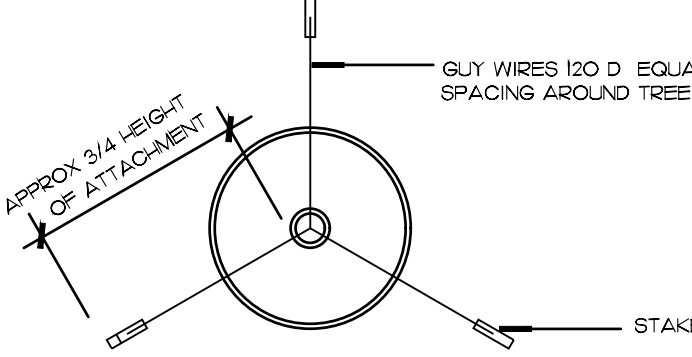
3. THE TREE ROOT BARRIERS SHALL BE BACKFILLED ON THE OUTSIDE WITH 3/4" TO 1 1/2" GRAVEL OR CRUSHED ROCK AS SHOWN ON THE DRAWINGS. NO GRAVEL BACKFILL IS REQUIRED FOR A LINEAR PLANTING.



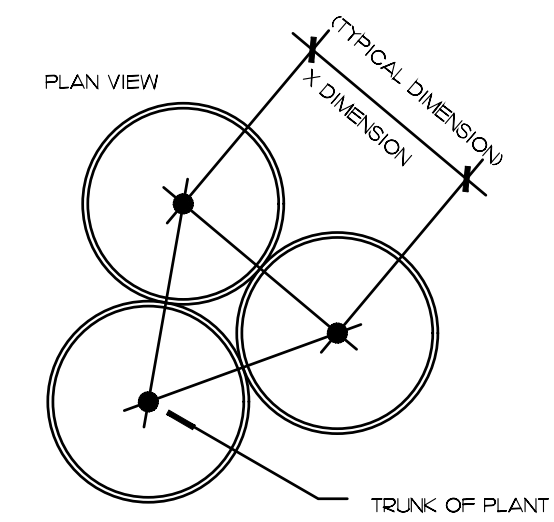
**TYPICAL TREE BARRIER INSTALLATION**  
NOT TO SCALE



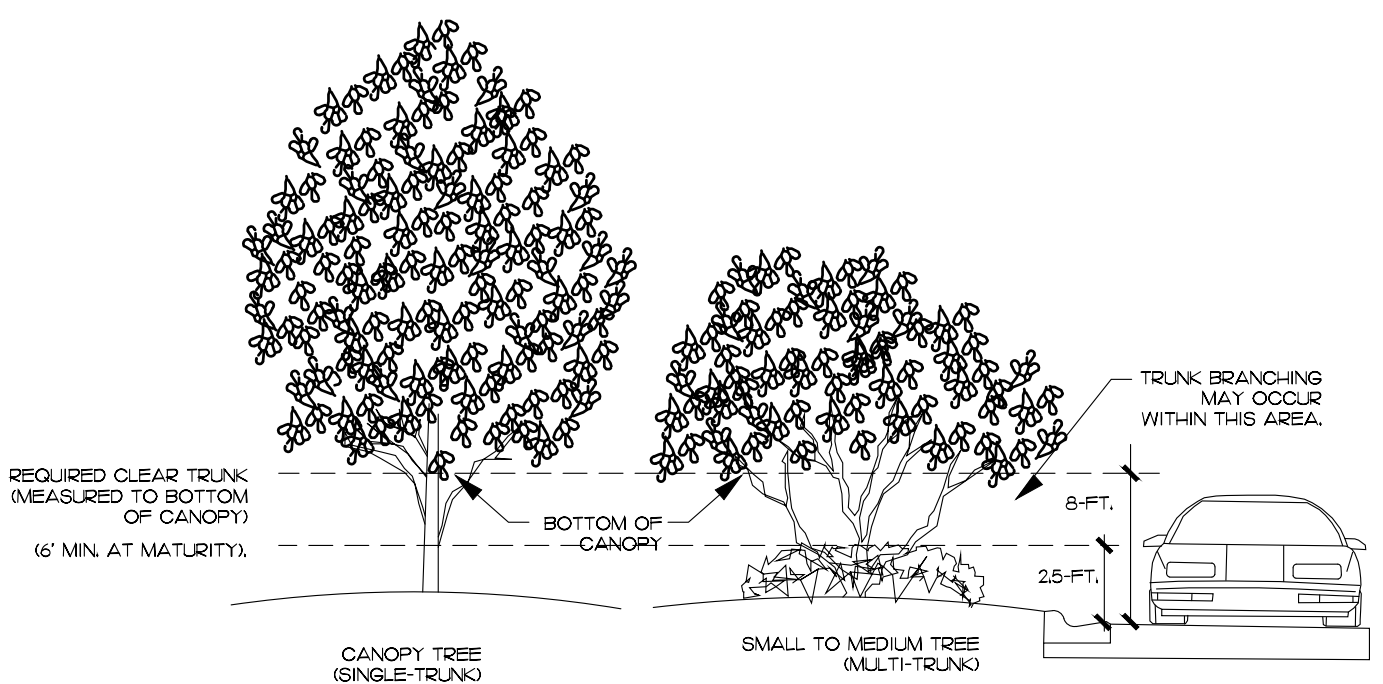
**PARKING SPACE/CURB PLANTING**  
NOT TO SCALE



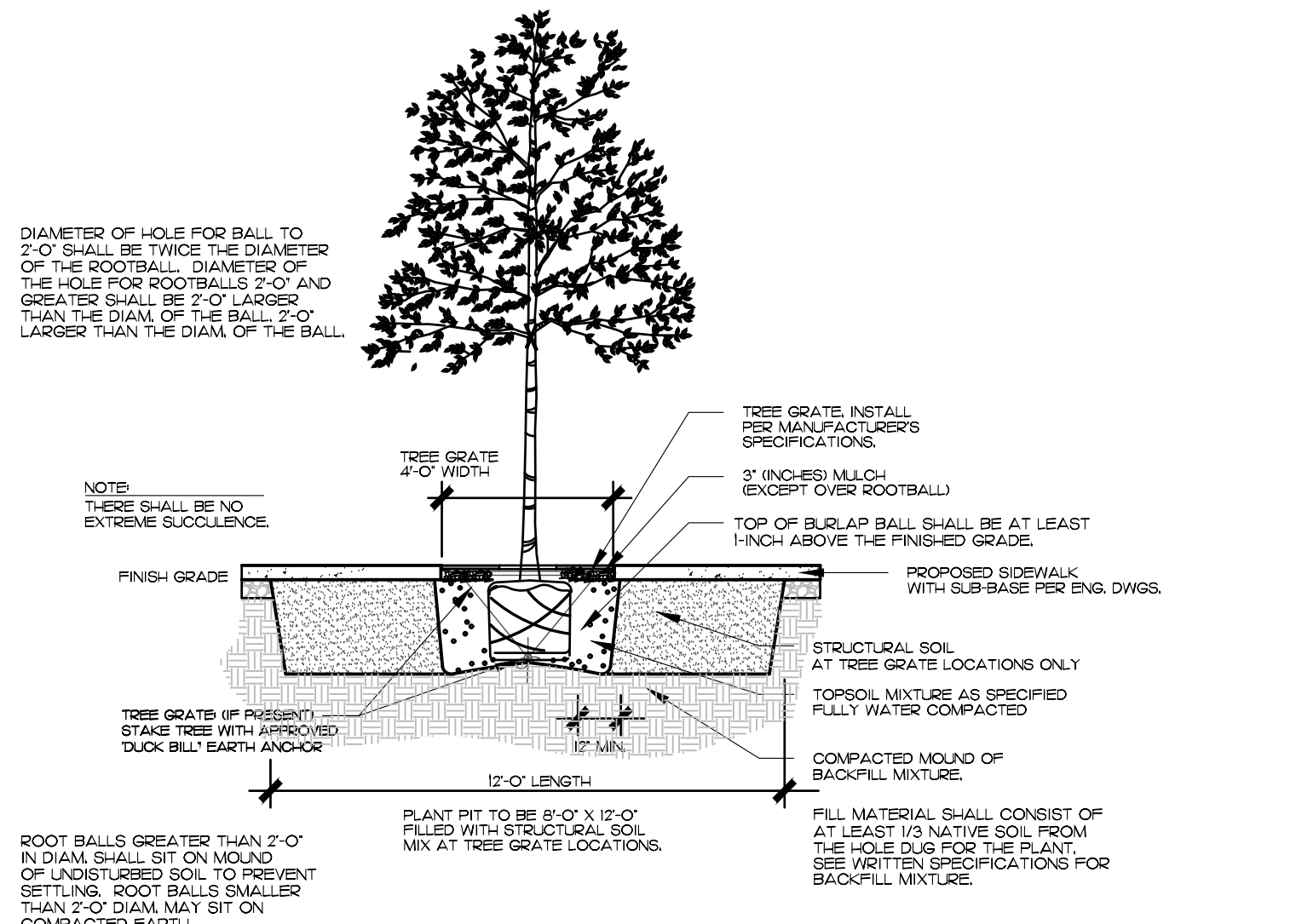
**TYPICAL TREE GUYING DETAIL**  
NOT TO SCALE



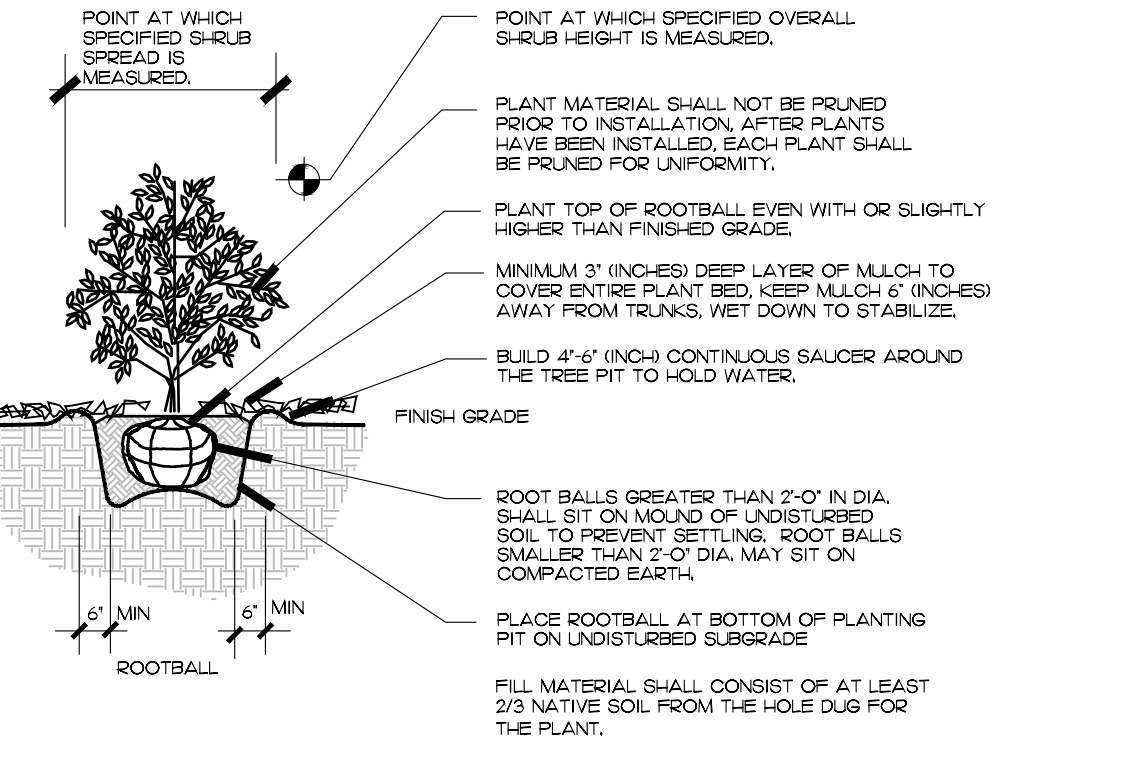
**TYPICAL PLANT SPACING DETAIL**  
NOT TO SCALE



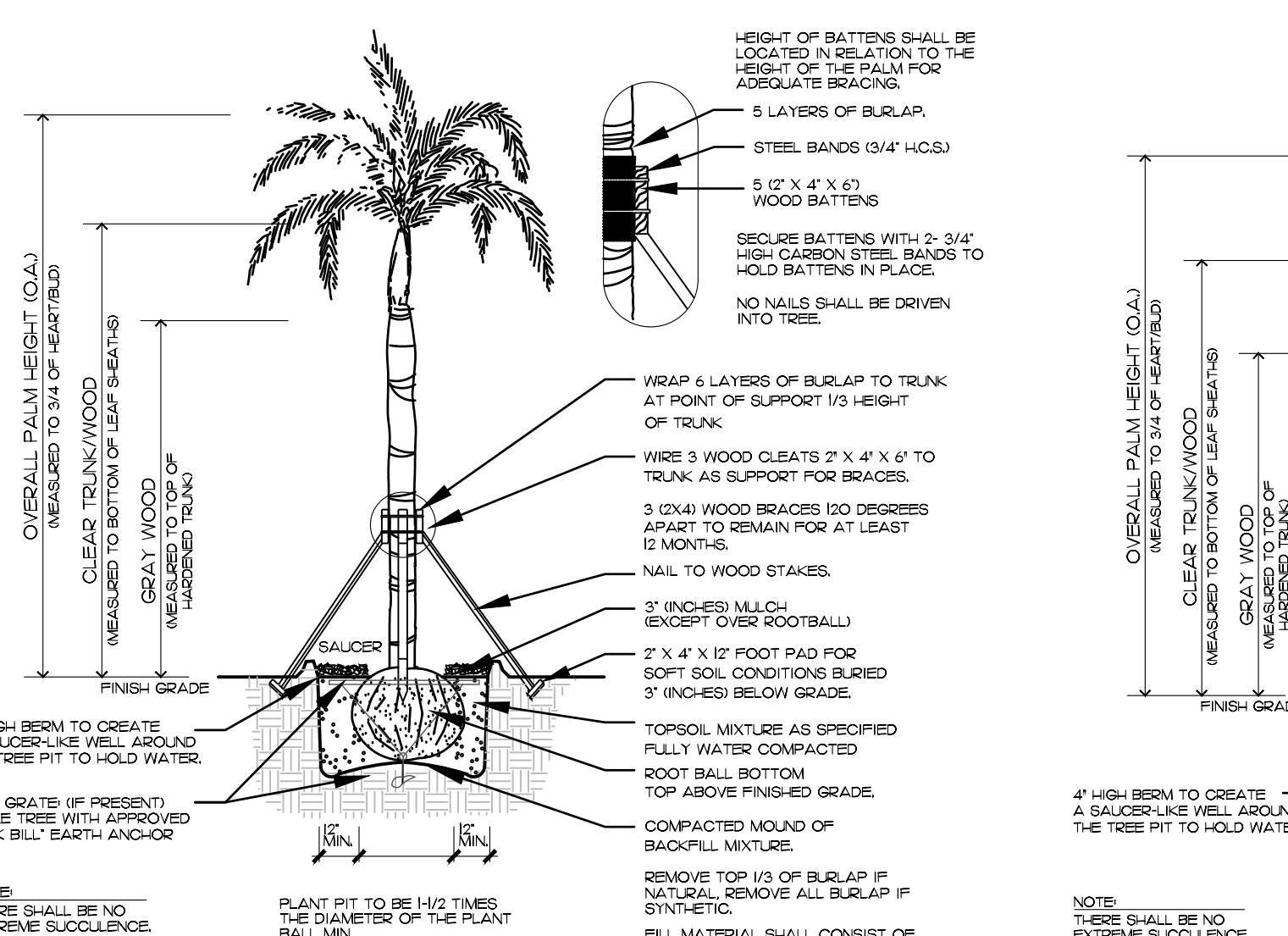
**CLEAR TRUNK WITHIN SIGHT TRIANGLE DETAIL**  
NOT TO SCALE



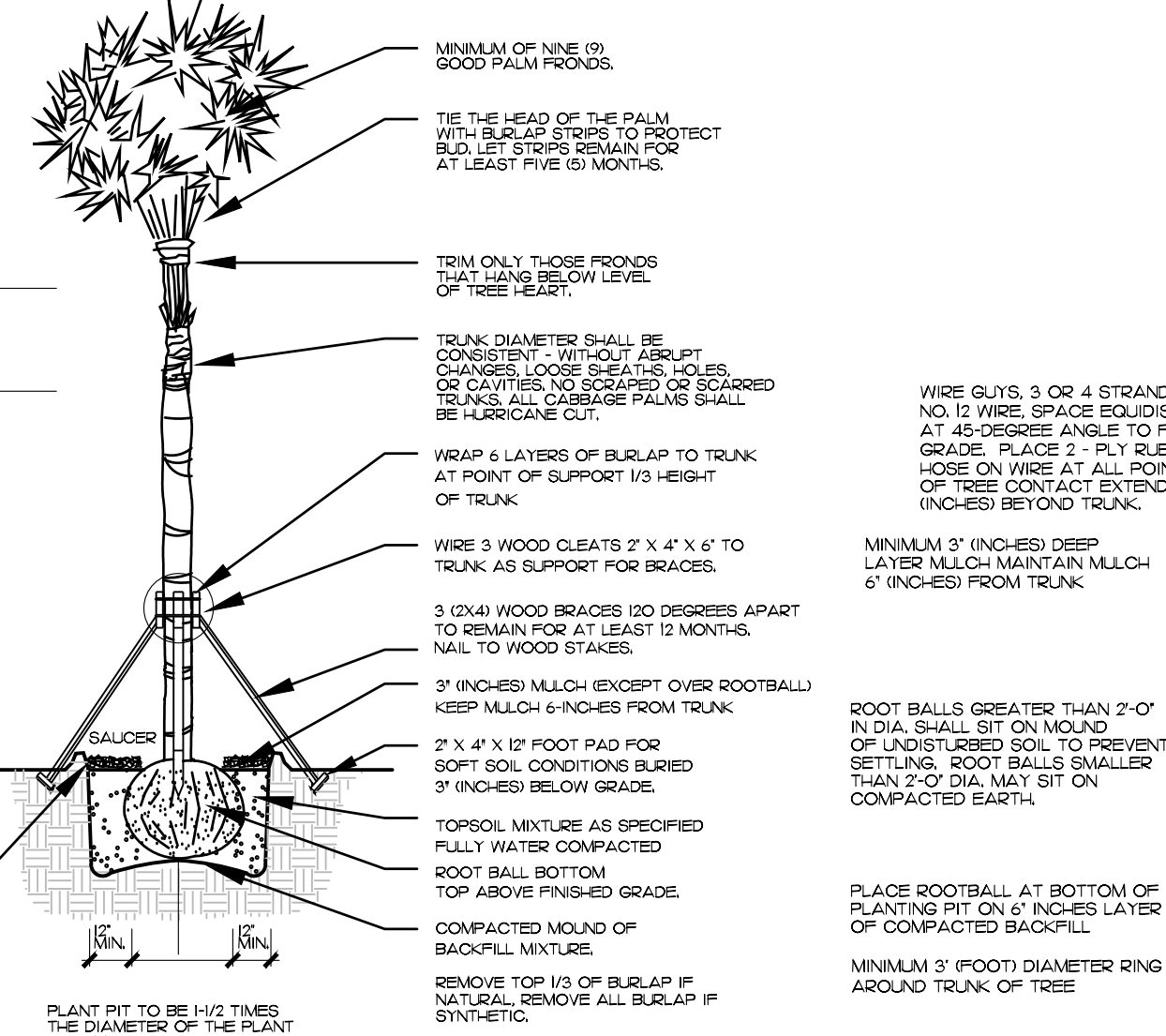
**TYPICAL TREE PLANTING WITH TREE GRATE DETAIL**  
NOT TO SCALE



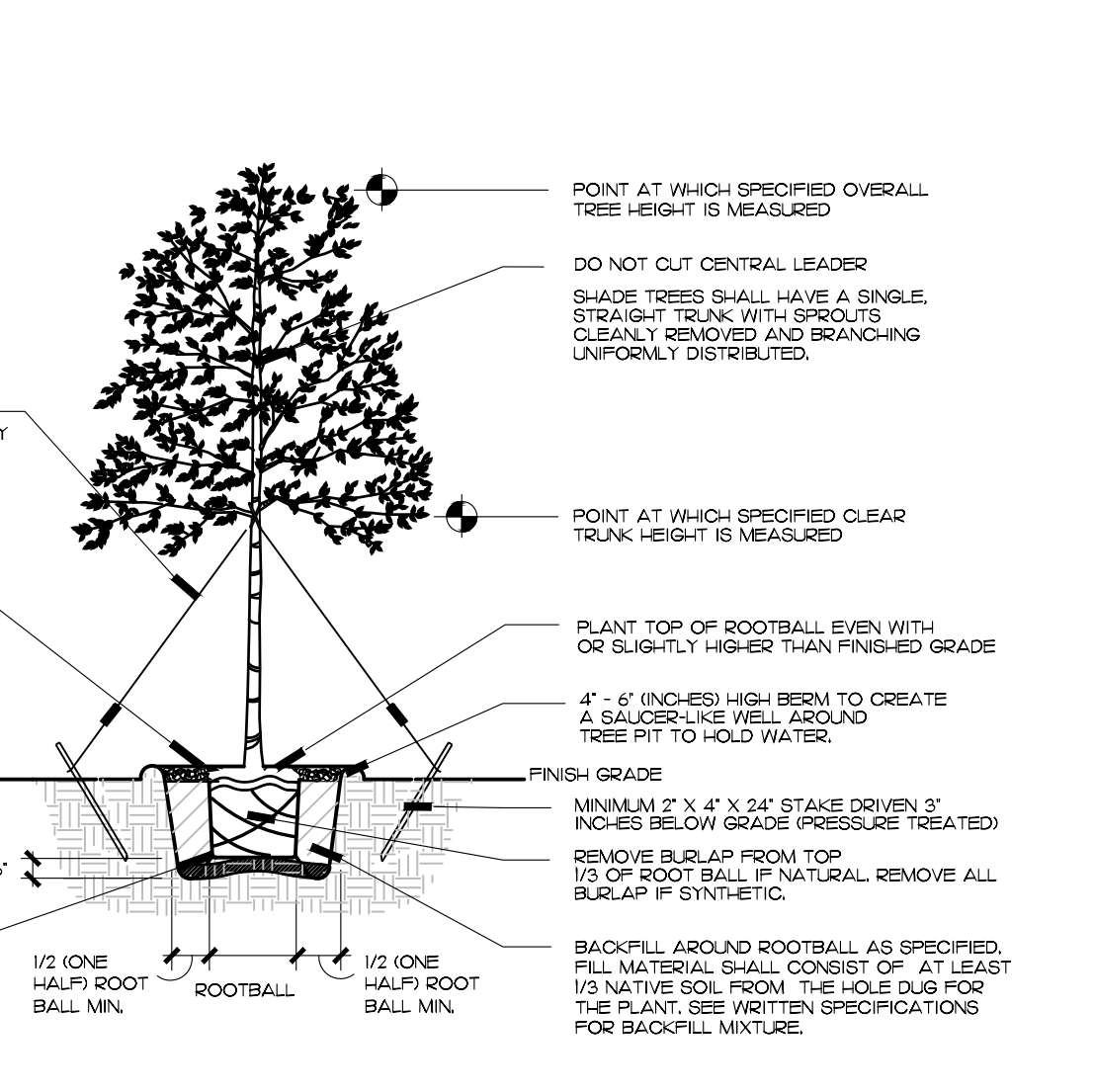
**TYPICAL SHRUB/ GROUNDCOVER PLANTING DETAIL**  
NOT TO SCALE



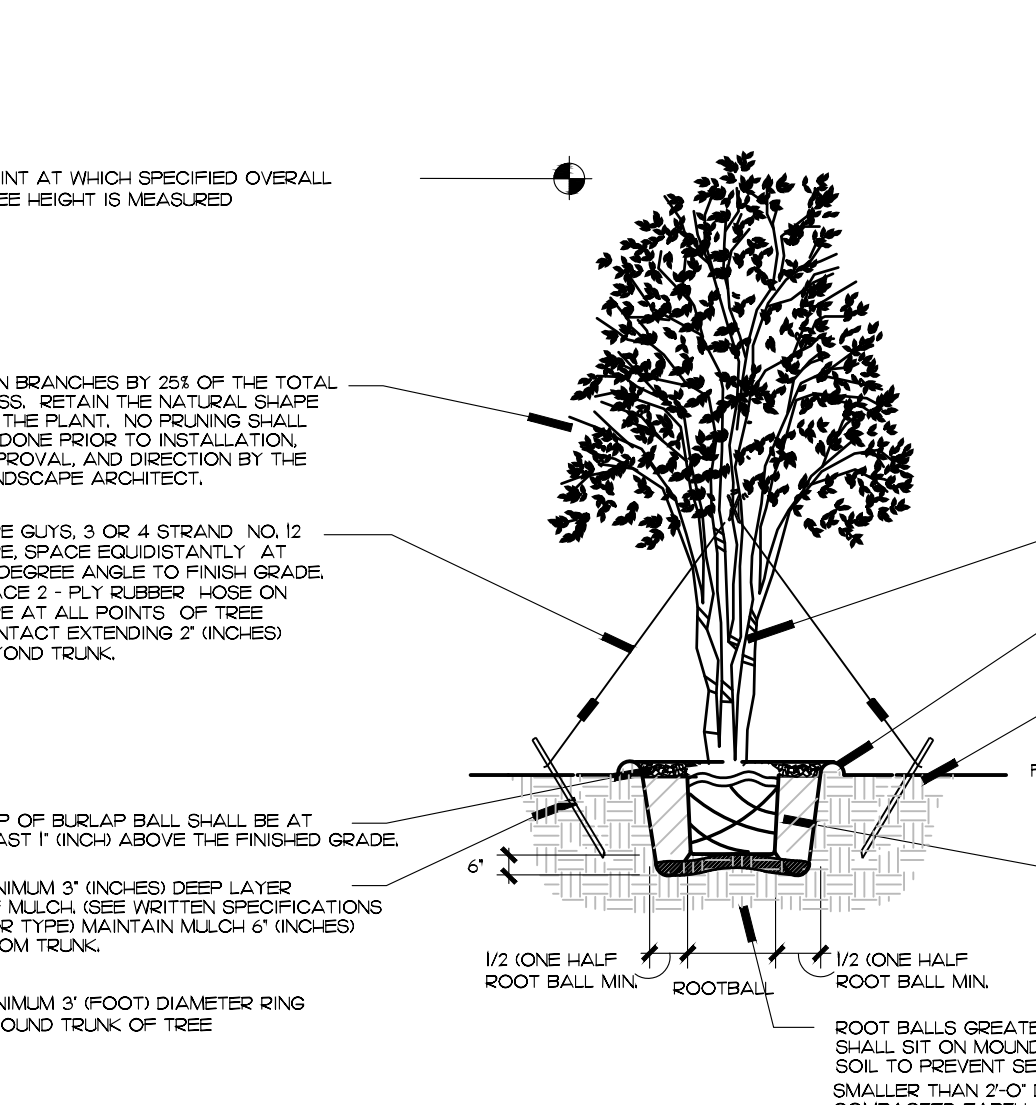
**TYPICAL PALM PLANTING DETAIL**  
NOT TO SCALE



**TYPICAL PALM PLANTING DETAIL**  
NOT TO SCALE



**TYPICAL TREE PLANTING DETAIL**  
NOT TO SCALE



**TYPICAL IRREGULAR/MULTI-TRUNK TREE PLANTING DETAIL**  
NOT TO SCALE

655.962 LIGHTING, MIRRORS, LANDSCAPING.

(1) EACH OPERATOR, OR OTHER PERSON RESPONSIBLE FOR AN AUTOMATED TELLER MACHINE PURSUANT TO SS. 655.960-655.965, SHALL PROVIDE LIGHTING DURING THE HOURS OF DARKNESS WITH RESPECT TO AN OPEN AND OPERATING AUTOMATED TELLER MACHINE AND ANY DEFINED PARKING AREA, ACCESS AREA, AND THE EXTERIOR OF AN ENCLOSED AUTOMATED TELLER MACHINE INSTALLATION, AS FOLLOWS:

(A) THERE SHALL BE A MINIMUM OF 10 CANDELFoot POWER AT THE FACE OF THE AUTOMATED TELLER MACHINE AND EXTENDING IN AN UNOBSTRUCTED DIRECTION OUTWARD 5 FEET;

(B) THERE SHALL BE A MINIMUM OF 2 CANDELFoot POWER WITHIN 50 FEET IN ALL UNOBSTRUCTED DIRECTIONS FROM THE FACE OF THE AUTOMATED TELLER MACHINE. IF THE AUTOMATED TELLER MACHINE IS LOCATED WITHIN 10 FEET OF THE CORNER OF THE BUILDING AND THE AUTOMATED TELLER MACHINE IS GENERALLY ACCESSIBLE FROM THE ADJACENT SIDE, THERE SHALL BE A MINIMUM OF 2 CANDELFoot POWER ALONG THE FIRST 40 UNOBSTRUCTED FEET OF THE ADJACENT SIDE OF THE BUILDING.

(C) THERE SHALL BE A MINIMUM OF 2 CANDELFoot POWER IN THAT PORTION OF THE DEFINED PARKING AREA WITHIN 60 FEET OF THE AUTOMATED TELLER MACHINE.

(2) THE OPERATOR SHALL PROVIDE REFLECTIVE MIRRORS OR SURFACES AT EACH AUTOMATED TELLER MACHINE WHICH PROVIDE THE CUSTOMER WITH A REAR VIEW WHILE THE CUSTOMER IS ENGAGED IN USING THE AUTOMATED TELLER MACHINE.

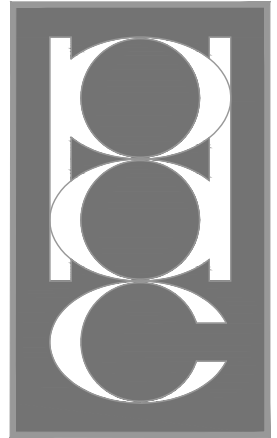
(3) THE OPERATOR, OR OTHER PERSON RESPONSIBLE PURSUANT TO SS. 655.960-655.965 FOR AN AUTOMATED TELLER MACHINE, SHALL ENSURE THAT THE HEIGHT OF ANY LANDSCAPING, VEGETATION, OR OTHER PHYSICAL OBSTRUCTIONS IN THE AREA REQUIRED TO BE LIGHTED PURSUANT TO SUBSECTION (1) FOR ANY OPEN AND OPERATING AUTOMATED TELLER MACHINE SHALL NOT EXCEED (3) FEET, EXCEPT THAT TREES TRIMMED TO A HEIGHT OF 10 FEET AND WHOSE DIAMETERS ARE LESS THAN (2) FEET AND MANMADE PHYSICAL OBSTRUCTIONS REQUIRED BY STATUTE, LAW, CODE, ORDINANCE, OR OTHER GOVERNMENTAL REGULATION SHALL NOT BE AFFECTED BY THIS SUBSECTION.

655.965 PREEMPTION PROHIBITION.

EXCEPT AS EXPRESSLY PROVIDED, THE PROVISIONS OF THIS SECTION AND SS. 655.960-655.964 SUPERSEDE AND PREEMPT ALL RULES, REGULATIONS, CODES, OR ORDINANCES OF ANY CITY, COUNTY, MUNICIPALITY, OR OTHER POLITICAL SUBDIVISION OF THIS STATE, AND OF ANY LOCAL AGENCY REGARDING CUSTOMER SAFETY AT AUTOMATED TELLER MACHINES LOCATED IN THIS STATE.

**FLORIDA STATE STATUTES**  
NOT TO SCALE

48 HOURS BEFORE DIGGING CALL TOLL FREE 8-1-1 SUNSHINE.COM NOTIFICATION CENTER



PATRICK D. CUNNINGHAM, LLC  
land planning  
landscape architecture  
519 Sapphire Drive  
Sarasota, FL 34234  
O: 941.351.8915  
pcunningham.LLC@gmail.com

**Bank of America**  
**Miami Beach**

1414 ALTON ROAD  
MIAMI BEACH, FL 33139

SERIAL NUMBER (BANKING CENTER): FL7-515  
NRSP VERSION: 2.0  
BULLETIN: 0X/2024

**Gensler**

11 East Madison Street  
Suite 300  
Chicago, IL 60602  
United States  
Tel 312.456.0123  
Fax 312.456.0124



INFINITY ENGINEERING GROUP, LLC  
1208 East Kennedy Boulevard  
Suite 230  
Tampa, Florida 33602  
Tel 813.434.4770  
Fax 813.445.4211  
www.iegroup.net  
Cert. of Auth. No. 27889

△	Date	Description
	06/22/2025	FIRST SUBMITTAL - DRB24-1061
	08/24/2025	FINAL SUBMITTAL - DRB24-1061

Seal / Signature  
PATRICK D. CUNNINGHAM  
FL REG. NO. LA0001669  
Digitally signed by Patrick D. Cunningham  
DN: c=US, sn=Cunningham, givenName=Patrick D, email=pcunningham.llc@gmail.com, cn=Patrick D. Cunningham  
Date: 2025.08.22 14:53:08 -04:00



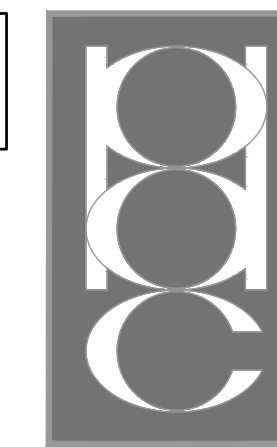
DATE  
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (PATRICK D. CUNNINGHAM) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CREDENTIAL AUTHORITY OR AN ELECTRONIC COPY FAC 61025-23.004

Project Name  
**MIAMI BEACH**  
Project Number  
**10-1316.00**  
Description  
**LANDSCAPE DETAILS**

Scale  
As indicated  
NOTE: DRAWINGS NOT TO SCALE ON 11" x 17" SHEETS

**LP03.01**

48 HOURS BEFORE DIGGING  
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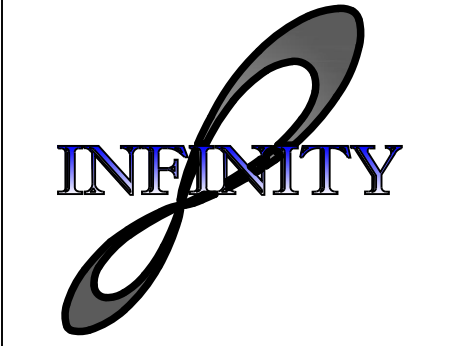
# Bank of America Miami Beach

1414 ALTON ROAD  
MIAMI BEACH, FL 33139

SERIAL NUMBER  
(BANKING CENTER): FL7-515  
NRSP VERSION: 2.0  
BULLETIN: 0X/2024

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United States  
Tel 312.456.0123  
Fax 312.456.0124



INFINITY ENGINEERING  
GROUP, LLC

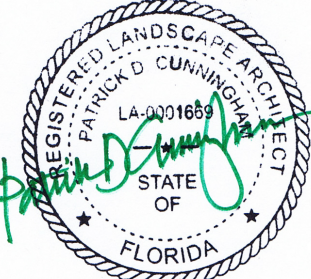
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Date	Description
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Seal / Signature

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FL REG. NO. LA0001669  
Digitally signed by Patrick D. Cunningham  
DN: c=US, ou=Cunningham, givenName=Patrick D., email=pcunningham.llc@gmail.com, cn=Patrick D. Cunningham  
Date: 2025.08.22 14:53:24 -04'00'

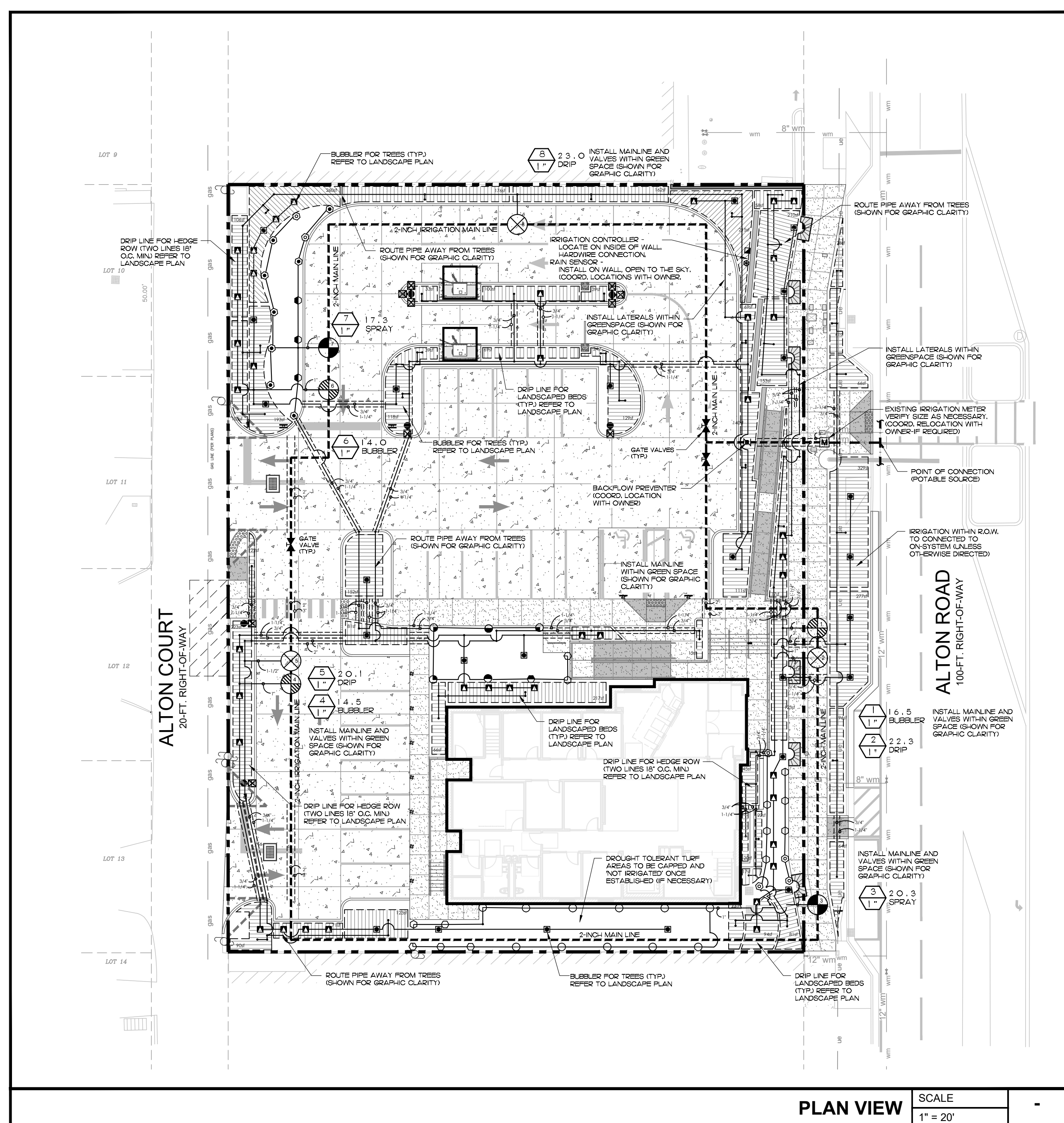


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Project Name
MIAMI BEACH
Project Number
10-1316.00
Description
IRRIGATION PLAN

Scale  
As indicated  
NOTE: DRAWINGS NOT TO SCALE ON 11" X 17" SHEETS

IR01.01



PLAN VIEW SCALE 1" = 20'

### Irrigation Legend

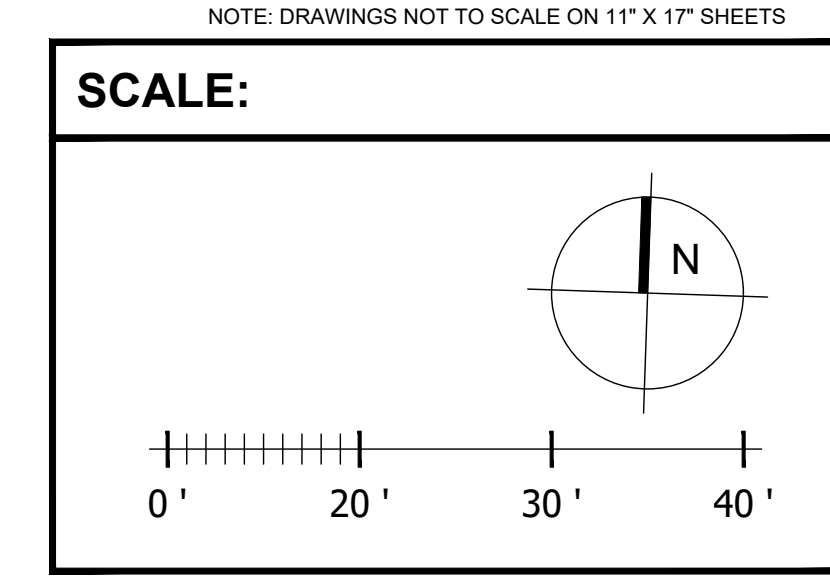
PLEASE NOTE: ALL IRRIGATION SPRAY HEADS TO BE 30 PSI REGULATED 6" POP-UP, CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.

- HUNTER PROS-06-PRS30 5' STRIP SPRAY
  - ▲ LCS • 0.65 GPM
  - ▲ RCS • 0.83 GPM
  - ▲ SST • 1.20 GPM
- HUNTER PROS-06-PRS30 4' RADIUS
  - ⊙ H • 0.45 GPM
- HUNTER PROS-06-PRS30 6' RADIUS
  - ⊙ Q • 0.51 GPM
  - ⊙ H • 0.98 GPM
- HUNTER PROS-06-PRS30 8' RADIUS
  - ⊙ Q • 0.24 GPM
  - ⊙ H • 0.47 GPM
  - ⊙ F • 0.97 GPM
- HUNTER PROS-06-PRS30 10' RADIUS
  - ⊙ Q • 0.42 GPM
  - ⊙ H • 0.88 GPM
  - ⊙ F • 1.59 GPM
- HUNTER PROS-06-PRS30 12' RADIUS
  - ⊙ Q • 0.67 GPM
  - ⊙ H • 1.30 GPM
  - ⊙ F • 2.70 GPM
- HUNTER PROS-06-PRS30 15' RADIUS
  - ⊙ Q • 0.97 GPM
  - ⊙ H • 1.69 GPM
  - ⊙ F • 3.75 GPM
- HUNTER PROS-06-PRS30 ADJ
  - ⊙ 6 • 1.76 GPM
  - ⊙ 10 • 2.00 GPM
  - ⊙ 12 • 2.52 GPM
  - ⊙ 15 • 3.72 GPM
  - ⊙ 17 • 4.60 GPM
- HUNTER PCB FLOOD BUBBLER, 1/2" FIPT.
  - ⊙ 50 • 0.50 GPM
  - ⊙ 100 • 1.00 GPM
- HUNTER MP2000i ROTOR 13' - 21' RADIUS
  - ⊙ Q 17 • 0.38 GPM
  - ⊙ H 17 • 0.64 GPM
  - ⊙ T 17 • 0.98 GPM
  - ⊙ F 17 • 1.28 GPM
- HUNTER MP3000i ROTATOR 22' - 30' RADIUS
  - ⊙ Q 27 • 0.76 GPM
  - ⊙ H 27 • 1.58 GPM
  - ⊙ T 27 • 1.84 GPM
  - ⊙ F 27 • 3.15 GPM
- HUNTER MP3500i ROTATOR 31' - 35' RADIUS
  - ⊙ Q 34 • 1.13 GPM
  - ⊙ H 34 • 2.24 GPM
  - ⊙ T 34 • 2.84 GPM
- AREA TO RECEIVE DRIPLINE  
HUNTER PLD-10-12 (18)  
IN-LINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH BUILT-IN CHECK VALVE, 1.0 GPM EMITTERS AT 12.0' O.C. DRIPLINE LATERALS SPACED AT 18.0' APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, UV RESISTANT.
- HUNTER PCZ-101-25  
DRIP CONTROL VALVE KIT, 1" PGV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM, PRESSURE REGULATION 25PSI, FLOW RANGE 0.5 GPM TO 15 GPM, 150 MESH STAINLESS STEEL SCREEN.
- HUNTER PGV-101G  
1" PLASTIC ELECTRIC REMOTE CONTROL VALVE, FOR RESIDENTIAL/LIGHT COMMERCIAL USE, FEMALE NPT INLET/OUTLET, GLOBE CONFIGURATION, WITH FLOW CONTROL.
- MATCO-NORCA 514TX  
1/2"-4" BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE, IPS, CROSS HANDLE, SAME SIZE AS MAINLINE PIPE.
- FEBCO 825Y 1-1/2"  
REDUCED PRESSURE BACKFLOW PREVENTER
- HUNTER IC-1800-PL-R  
MODULAR CONTROLLER, 18 STATIONS, OUTDOOR MODEL, PLASTIC CABINET, COMMERCIAL USE, WITH TWO ICM-600 MODULES INCLUDED
- HUNTER WSS-SEN  
WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER X-CORE AND AICC CONTROLLERS, INSTALL AS NOTED, INCLUDES GUTTER MOUNT BRACKET, MODULE NOT INCLUDED.
- IRRIGATION SOURCE  
3/4" METER • 28 GPM AT 60 PSI REQUIRED
- IRRIGATION LATERAL LINE:  
PVC CLASS 160 SDR 26  
PVC CLASS 315 FOR 1/2" PIPE,  
PVC CLASS 200 FOR 3/4" PIPE,  
PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.
- PLEASE NOTE:  
ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.
- IRRIGATION MAINLINE:  
PVC SCHEDULE 40 IRRIGATION PIPE.
- PIPE SLEEVE:  
PVC SCHEDULE 40
- VALVE CALL OUT

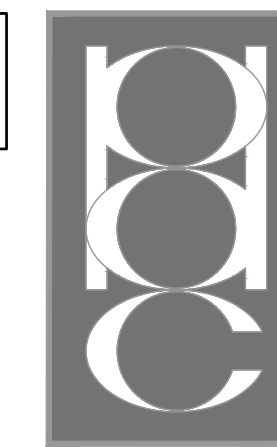
### Sleeve Size Schedule

PIPE SIZE	SLEEVE SIZE
3/4"	1-1/4"
1"	2"
1-1/4"	2-1/2"
1-1/2"	2-1/2"
2"	3"
2-1/4"	4"
3" - 4"	6"

PLEASE NOTE:  
MULTIPLE ZONES OF (LIKE) NATURE MAY BE COMBINED TO CREATE A LARGER ZONE AS NECESSARY.



48 HOURS BEFORE DIGGING  
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8-1-1  
SUNSHINE.COM  
NOTIFICATION CENTER



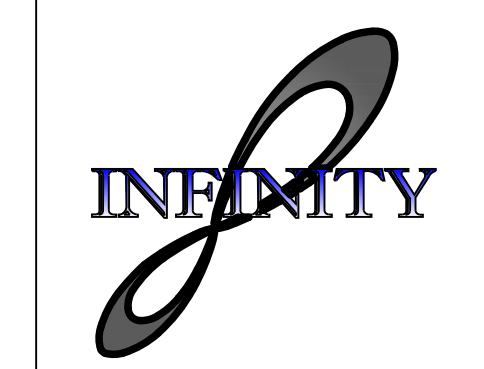
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## Gensler

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Fax 312.456.0124



INFINITY ENGINEERING  
GROUP, LLC

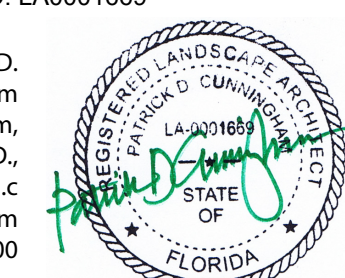
1208 East Kennedy Boulevard  
Suite 230  
Tampa, Florida 33602

Tel 813.434.4770  
Fax 813.445.4211  
www.iegroup.net  
Cert. of Auth. No. 27889

Date	Description
06/22/2025	FIRST SUBMITTAL - DRB24-1061

Seal / Signature  
PATRICK D. CUNNINGHAM  
FL REG. NO. LA0001669

Digitally signed by Patrick D. Cunningham  
DN: c=US, sn=Cunningham, givenName=Patrick D., email=pcunningham.lic@gmail.com, cn=Patrick D. Cunningham  
Date: 2025.08.22 14:53:39 -04'00'



DATE  
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (PATRICK D. CUNNINGHAM) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY FAC 61625-23.004

Project Name  
**MIAMI BEACH**

Project Number  
**10-1316.00**

Description  
**IRRIGATION DETAILS**

Scale  
As indicated  
NOTE: DRAWINGS NOT TO SCALE ON 11" X 17" SHEETS

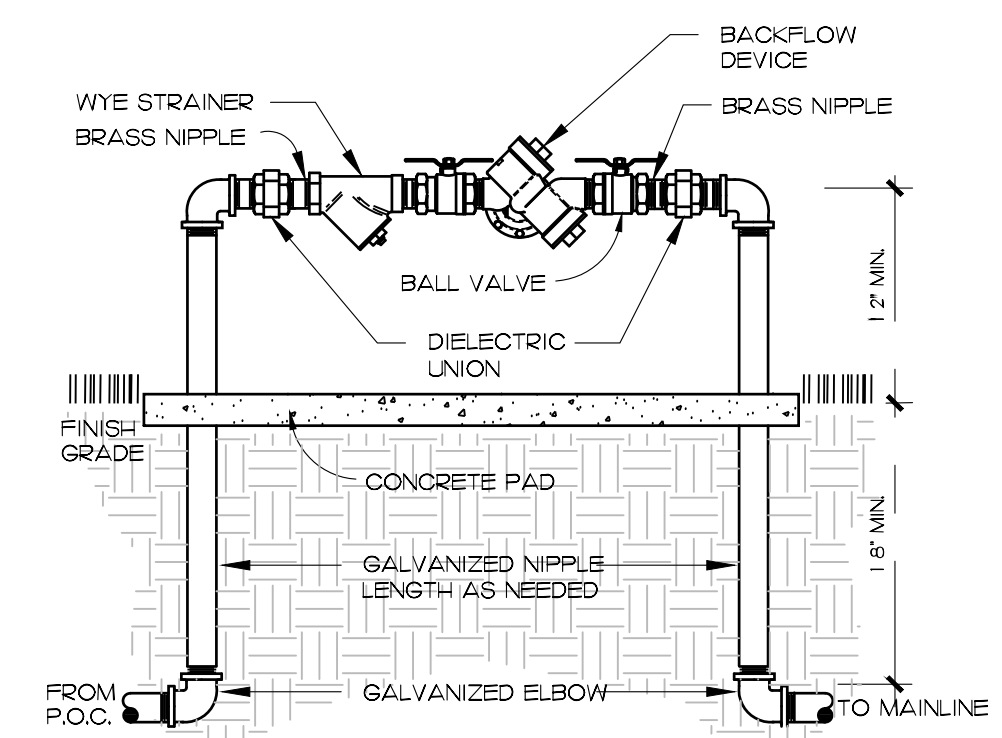
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### General Notes

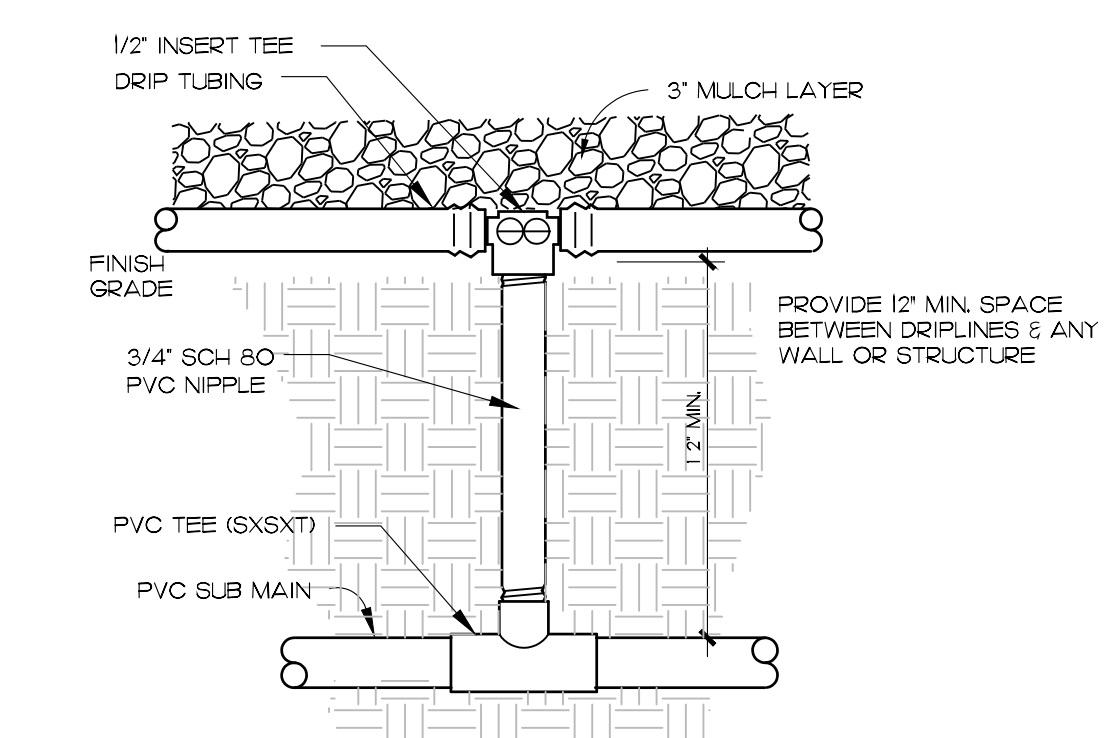
- IRRIGATION SYSTEM DESIGN REQUIREMENTS 28 GPM @ A 55 PSI AT THE POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY THE AVAILABLE GPM AND PSI PRIOR TO INSTALLATION OF THE SYSTEM.
- DO NOT INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN PROCESS, SUCH AS OBSTRUCTIONS, GRADE DIFFERENCES, WATER LEVELS, DIMENSIONAL DIFFERENCES, ETC. REFER TO THE LANDSCAPE PLAN TO AVOID CONFLICTS WITH PROPOSED TREES OR SHRUBS.
- PIPING MAY SOMETIMES BE INDICATED AS BEING LOCATED IN UNLIKELY AREAS (I.E. UNDER BUILDINGS OR PAVEMENT, OUTSIDE OF PROPERTY LINES, IN LAKES OR DITCHES, ETC.) THIS IS DONE FOR GRAPHIC CLARITY ONLY. WHENEVER POSSIBLE, PIPING IS TO BE INSTALLED IN PREFERRED AREAS.
- ALL COMPONENTS ARE SHOWN AND/OR DEPICTED ON THE PLAN SHEETS REPRESENT APPROXIMATE LOCATIONS ONLY, AND ARE FOR CLARIFICATION PURPOSES. THE FINAL LOCATION OF ALL COMPONENTS SHALL BE SUBJECT TO APPROVAL BY THE OWNER AND/OR OWNER'S REPRESENTATIVE.
- DO NOT SCALE PLAN FOR EXACT HEAD LOCATION. LOCATION OF ALL SPRINKLER HEADS SHALL BE SITE ADJUSTED TO MINIMIZE WATER OVERTHROW ONTO BUILDING SURFACES AND WALKWAYS. TRITTLE VALVES ON SPRAY ZONES AS REQUIRED TO PREVENT FOGGING.
- PIPE SIZES SHALL CONFORM TO THOSE ON THE DRAWINGS. SUBSTITUTING WITH SMALLER PIPE SIZES WILL NOT BE PERMITTED.
- ALL POP-UP SPRINKLER HEADS SHALL BE INSTALLED LEVEL AND FLUSH TO GRADE.
- MAIN LINE FITTINGS SHALL BE PVC SCH. 40 JOINT FITTINGS. PIPES PLACED IN SLEEVES SHALL BE SCH. 40 SOLVENT WELD PIPE WITH ADEQUATE RESTRAINTS. SLEEVE LOCATION ARE ACCOMPANIED WITH A 2" ELECTRICAL CHASE FOR THE CONTROL WIRING.
- MAINLINE IS TO BE INSTALLED WITH A MINIMUM OF 18-IN. DEPTH OF COVER. LATERAL LINES ARE TO BE INSTALLED WITH A MINIMUM OF 12" DEPTH OF COVER.
- UNLESS OTHERWISE INDICATED, ALL SLEEVES ARE TO BE PVC SCH. 40 AND TWO (2) NOMINAL SIZES LARGER THAN THE PIPE TO BE SLEEVED. FOR EXAMPLE: THE SLEEVE FOR A 2-IN. PIPE SHALL BE 3-IN.
- INSTALL VALVES IN MULCHED BEDS AND/OR IN LOW TRAFFIC AREAS. ALL VALVES, FLUSH VALVES AND WIRE SPLICES SHALL BE INSTALLED IN RAIN BIRD WIDE FLANGED, STRUCTURAL FOAM "PLASTIC" VALVES BOXES.
- THE BOTTOM AND SIDES OF THE VALVE BOXES SHALL BE LINED WITH LANDSCAPE FABRIC. INSTALL A 3-IN. DEEP BED OF GRAVEL ON THE LANDSCAPE FABRIC TO CREATE A DRAINAGE SLUMP.
- INSTALL DRIP TUBING AT GRADE AND COVER WITH MULCH. TYPICAL SPACING FOR DRIP TUBING IS 18-IN. TO 24-IN. ON CENTER. SPACING TO BE DETERMINED BY PLANT LAYOUT. REFER TO LANDSCAPE PLAN. ANCHOR TUBING EVERY 7-FT. WITH 8-IN. LONG WIRE TUBING STAKES. INSTALL FLUSH VALVE ASSEMBLIES AT ALL TUBING "DEAD ENDS".
- EXACT CONTROLLER LOCATION(S) SHALL BE COORDINATED WITH AN OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE CONNECTION FROM THE POWER SOURCE TO THE CONTROLLER(S), PER MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HARD WIRING ALL ELECTRICAL SERVICE CONNECTIONS, AND SHALL RUN TWO (2) ADDITIONAL SETS OF WIRES IN EACH DIRECTION TO EACH END OF THE MAIN FOR FUTURE USE.
- AT EACH IRRIGATION CONTROLLER, INSTALL A "SECONDARY SURGE ARRESTER" TO THE INCOMING (120 VOLT) POWER SUPPLY (INTERMATIC #AG240) OR EQUAL).
- A WEATHER BASED SENSOR WITH INTERFACE SHALL BE CONNECTED TO IRRIGATION CONTROLLER. THE SENSOR SHALL ADJUST IRRIGATION PROGRAM BASED ON DAILY WEATHER READINGS. SENSOR SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS. OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE.
- IRRIGATION CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON REPRODUCIBLE PAPER DETAILING THE ACTUAL INSTALLATION OF THE IRRIGATION SYSTEM. THE AS-BUILT DRAWINGS SHALL LOCATE ALL MAIN LINE PIPING, CONTROL WIRES, WIRE SPLICES, SLEEVES AND VALVES BY SHOWING EXACT MEASUREMENTS FROM PERMANENT FEATURES (BUILDINGS, EDGES OF PAVEMENT, POWER POLES, FIRE HYDRANTS, ETC.) INCLUDE DEPTH OF COVER ON MAINLINE AND SLEEVES.
- NO PRODUCT SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. IRRIGATION CONTRACTOR TO PROVIDE SUBMITTALS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
- ANY OTHER EQUIPMENT REQUIRED THAT IS NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE.
- THE PROPOSED IRRIGATION IS TO TIE INTO THE EXISTING SYSTEM, WHICH WILL BE RETROFITTED TO PROVIDE 100% COVERAGE.
- IF RE-USE WATER IS USED FOR IRRIGATION, ALL EQUIPMENT IS TO BE SPECIFIED / MARKED AS SUCH IF REQUIRED BY THE JURISDICTION. (PURPLE LATERALS, HEADS, ETC.)
- AN AUTOMATIC IRRIGATION SYSTEM TO BE PROVIDED THAT MEETS OR EXCEEDS THE FULL REQUIREMENTS OF THE LAND DEVELOPMENT REGULATIONS.
- THE OWNER WILL SUPPLY ALL PROPOSED PLANT MATERIAL WITH 100% IRRIGATION (AUTOMATIC) COVERAGE (WITH 50% OVERLAP MINIMUM) WITHIN TEN DAYS OF INITIAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS TO THE IRRIGATION SYSTEM TO INSURE 100% COVERAGE.

### Additional Notes

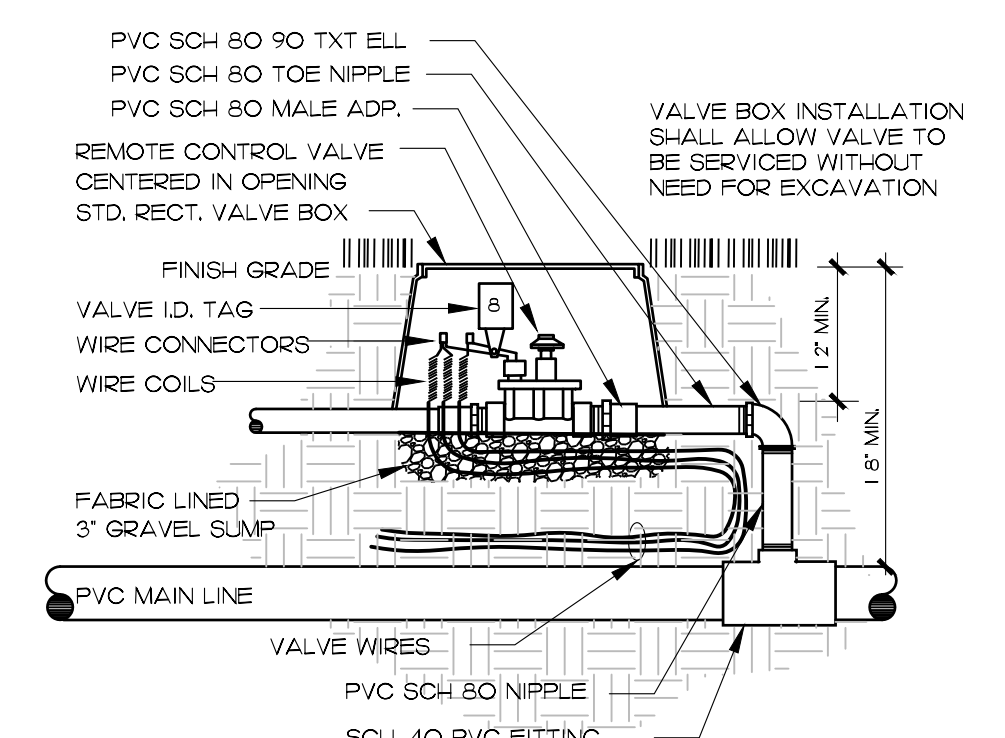
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- THE OWNER WILL SUPPLY ALL PROPOSED PLANT MATERIAL WITH 100% IRRIGATION (AUTOMATIC) COVERAGE (WITH 50% OVERLAP MINIMUM) WITHIN TEN DAYS OF INITIAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS TO THE IRRIGATION SYSTEM TO INSURE 100% COVERAGE.
- IF RE-USE WATER IS USED FOR IRRIGATION, ALL EQUIPMENT IS TO BE SPECIFIED / MARKED AS SUCH IF REQUIRED BY THE JURISDICTION. (PURPLE LATERALS, HEADS, ETC.)
- IRRIGATION IS NOT REQUIRED WITHIN THE DRIPLINE OF THE EXISTING TREES. THE MAINLINE AND/OR LATERALS ARE NOT TO BE INSTALLED WITHIN THE DRIPLINE OF THE RETAINED TREES. IF UNAVOIDABLE, THE IRRIGATION LINES ARE TO BE HAND DUG WITHIN THE DRIPLINE AREA OF THESE TREES.



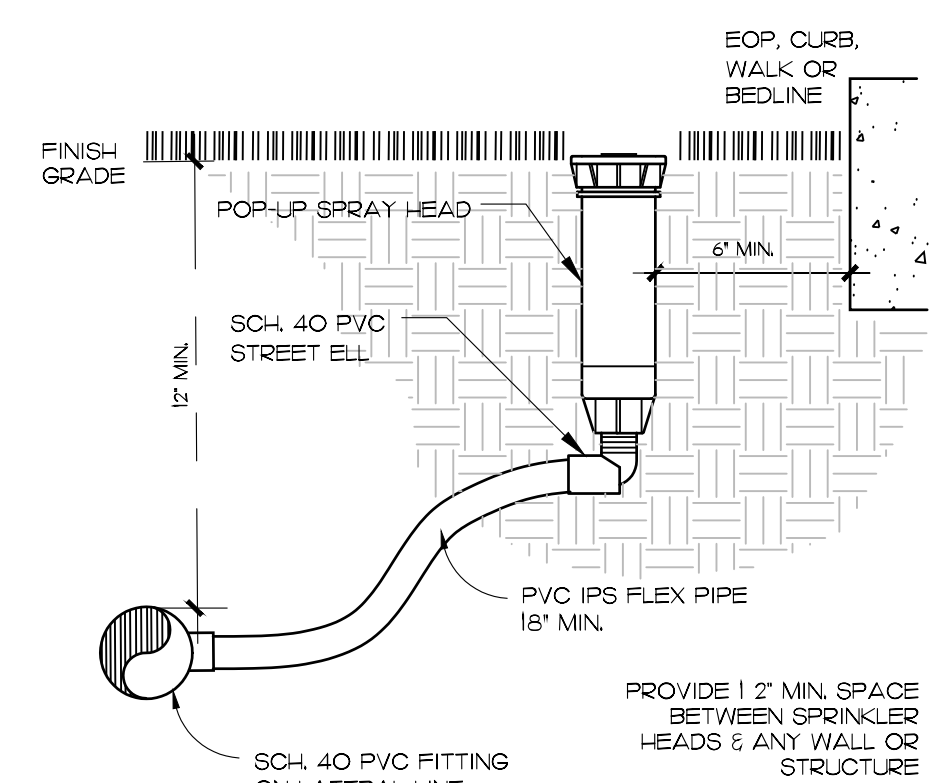
**BACKFLOW PREVENTER**  
NOT TO SCALE



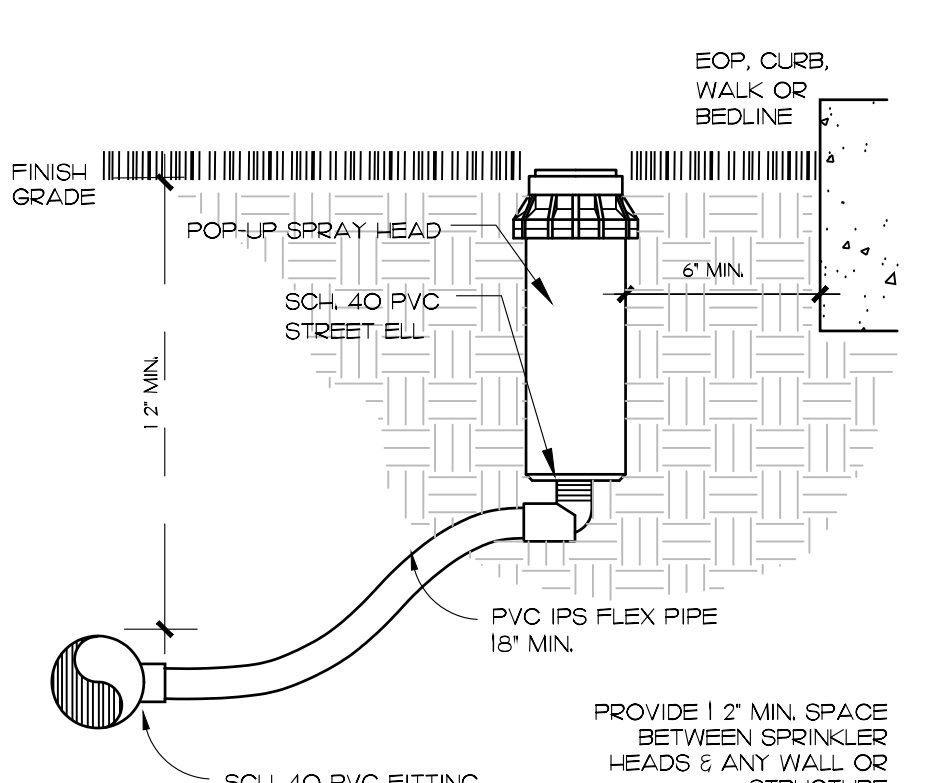
**PVC - DRIP CONNECTION**  
NOT TO SCALE



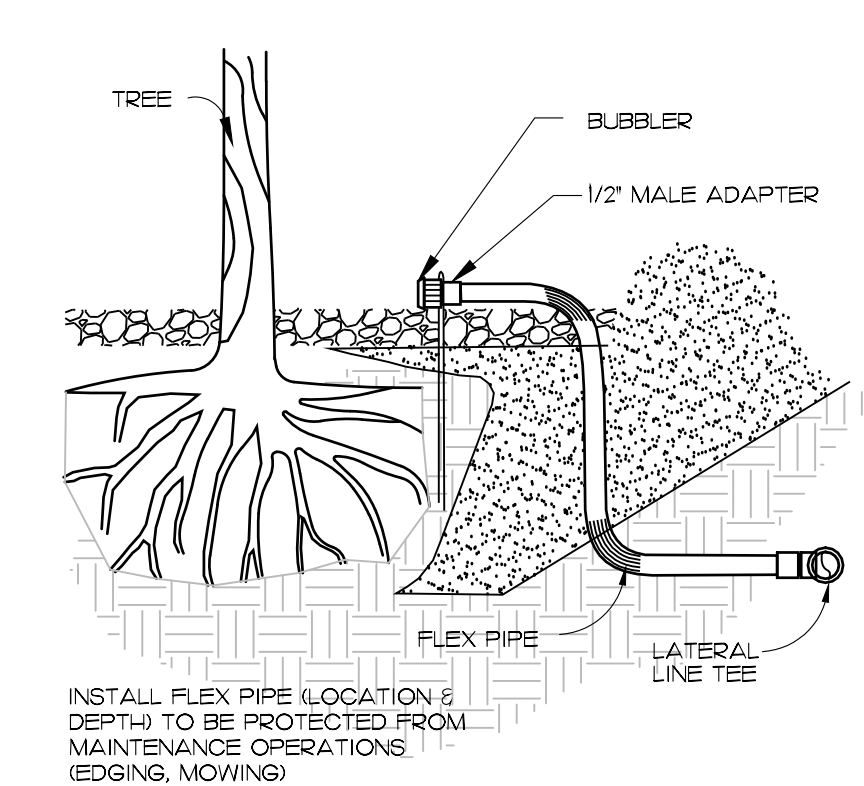
**REMOTE CONTROL VALVE**  
NOT TO SCALE



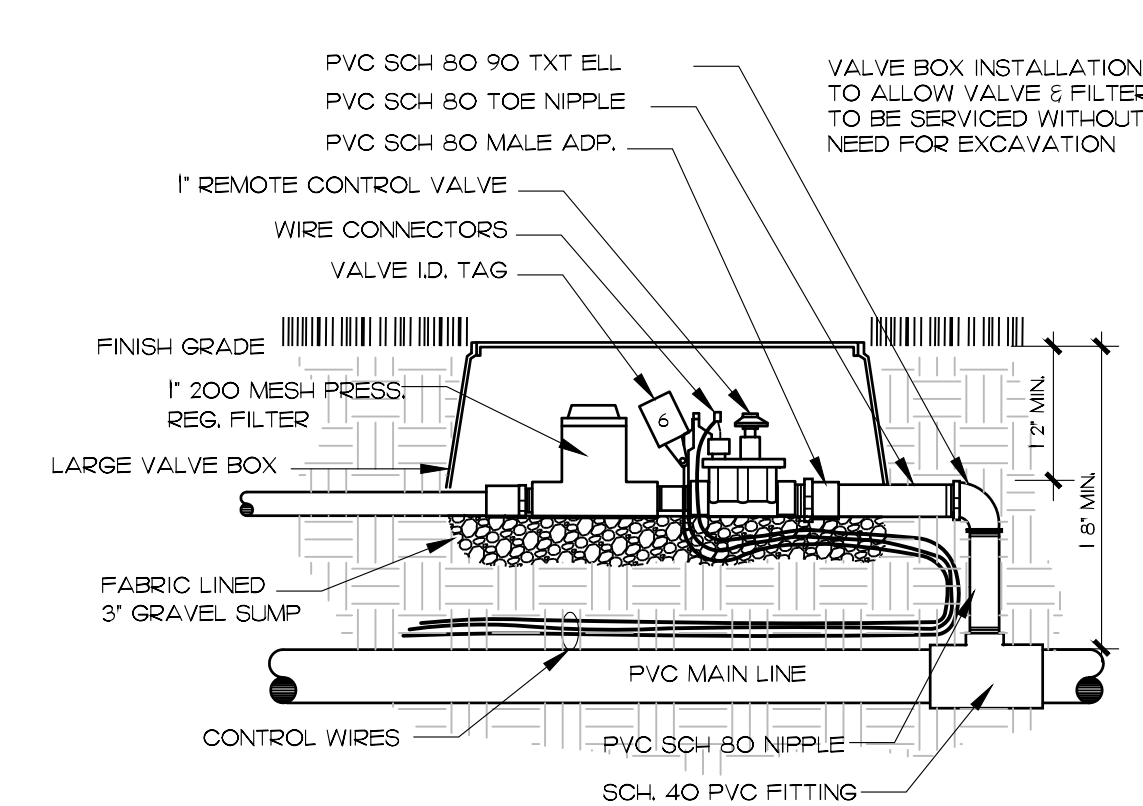
**TURF SPRAY HEAD**  
NOT TO SCALE



**TURF ROTOR HEAD**  
NOT TO SCALE



**TREE BUBBLER**  
NOT TO SCALE



**20 gpm DRIP ZONE CONTROL VALVE**  
NOT TO SCALE