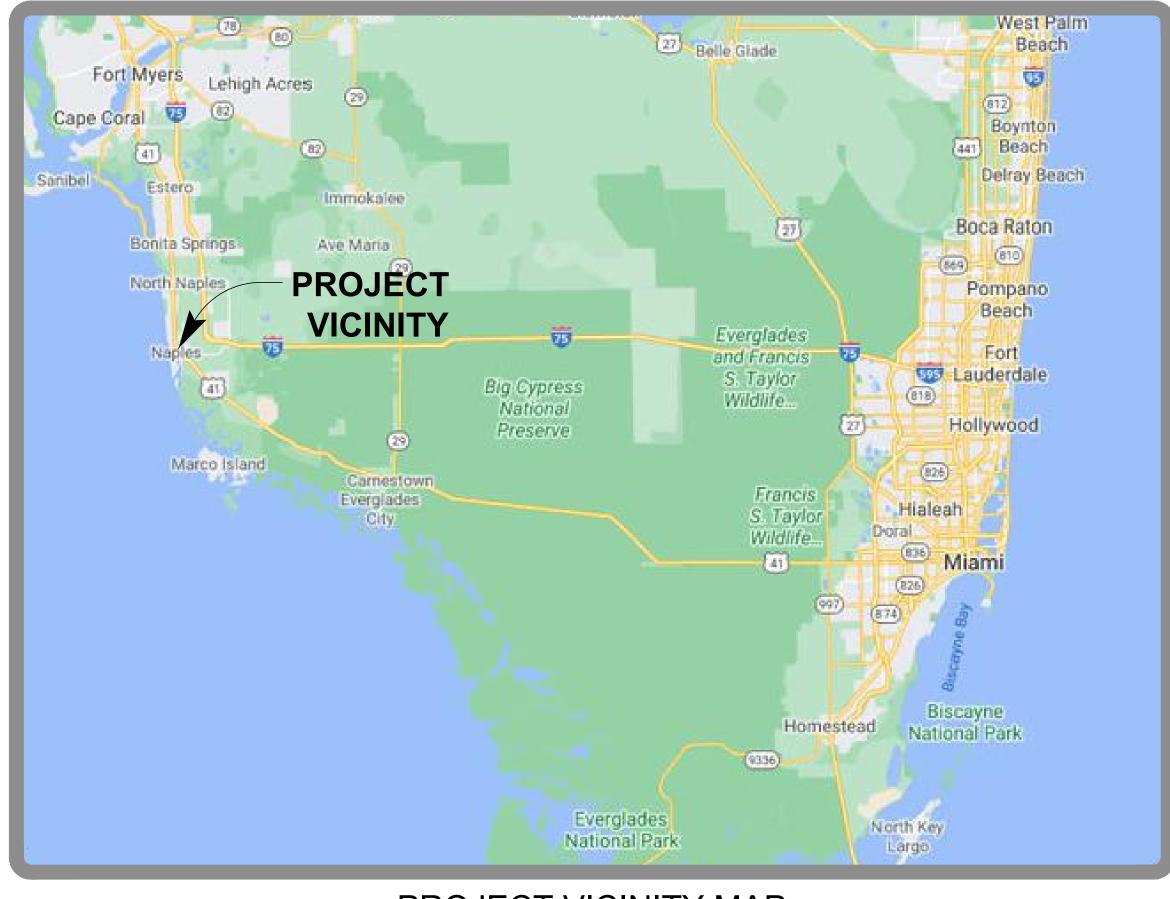
Naples Beach Restoration & Water Quality Improvement Project **Pump Station** Project ID: 177310606

LANDSCAPE ARCHITECTURE DRAWINGS



90% CONSTRUCTION DOCUMENTS SUBMITTAL **PLAN STAGE**: OWNER DIRECTED CHANGES DATE: 25 APRIL 2022

PROJECT VICINITY MAP

City of Naples 735 8th Street South Naples, Florida

SUBMITTAL GES HANG

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PLANS PREPARED FOR:

PLANS PREPARED BY:



3510 Kraft Road, Suite 200, Naples, FL 34105 USA www.stantec.com +1.239.649.4040

PROJECT MANAGER: Kevin G. Mangan, PLA

Naples Beach Restoration & Water Quality Improvement Project Pump Station Project ID: 177310606



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				90% CD Submittal - Owner Directed Changes	KNB	FAD	2022.04	3510 k Naple
Revision	Ву	Appd.	YY.MM.DD	90% CD Submittal	KNB By	FAD Appd	<u>2022.04</u>	

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SHEET NUMBER	SHEET TITLE		90% CONSTRUCTION DOCUMENTS SUBMITTAL 04.08.2022	90% CONSTRUCTION DOCUMENTS SUBMITTAL - Owner Directed Changes 04.25.2022						
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LANDSCAPE	ARCHITECTURE DRAWINGS				1					
L0000		n/a	•	•						
L0001	DRAWING SUBMITTAL LOG and SHEET INDEX	n/a	•	•						
LP001	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	•						
LP002	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES		•	•						
LP002	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	•						
LP004	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	•						
LP005	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	•						
LP006	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	OMIT						
LP007	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	OMIT						
LP008	LANDSCAPE GENERAL NOTES / GENERAL SITE AND CONSTRUCTION NOTES	n/a	•	OMIT						
LP101	PLANTING PLAN, PLANT SCHEDULE, AND LANDSCAPE NOTES	1"=10'	•	R						
LP102	PLANTING PLAN - COLOR	1"=10'		•						
LP501	PLANTING DETAILS	As Noted	•	•						
LP502	PLANTING DETAILS	As Noted	•	•						



Client/Project

CITY OF NAPLES 735 8th St S NAPLES, FL. Naples Beach Restoration & Water Quality Improvement Project File Name: L0000.dwg



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DIVISION 32 - EXTERIOR IMPROVEMENTS (LANDSCAPING) LANDSCAPE GENERAL NOTES

PART 1 - GENERAL NOTES_(LANDSCAPE GENERAL NOTES)

1.1. SCOPE:

- A. Provide all labor, materials and equipment for complete installation of landscaping and/or irrigation, as indicated within the contract documents, drawings, and specifications
- B. Install all work in conformance with industry standard trade practices as outlined in CSI Standards and per manufacturer's recommended installation methods unless otherwise noted or amended on the drawings.
- 1.2. RELATED WORK THAT MAY BE SPECIFIED ELSEWHERE (if applicable to this project as determined by the Landscape Architect):
- A. DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS
- B. DIVISION 01 GENERAL REQUIREMENTS
- C. DIVISION 02 EXISTING CONDITIONS
- D. DIVISION 03 CONCRETE
- E. DIVISION 04 MASONRY
- F. DIVISION 05 METALS
- G. DIVISION 06 WOODS, PLASTICS, AND COMPOSITES
- H. DIVISION 07 THERMAL AND MOISTURE PROTECTION
- I. DIVISION 09 FINISHES
- J. DIVISION 10 SPECIALTIES
- K. DIVISION 11 EQUIPMENT
- L. DIVISION 12 FURNISHINGS
- M. DIVISION 22 PLUMBING
- N. DIVISION 31 EARTHWORKS
- O. DIVISION 33 UTILITIES

1.3. QUALITY ASSURANCE

- A. Provide plant materials in compliance with applicable state and federal laws relating to inspection for diseases and insect infestation.
- B. All plants must be healthy, vigorous material, free of pests and diseases.
- C. Plant materials in some instances may exceed No. 1 grade in order to meet the minimum requirements of this project.
- D. Plants are subject to inspection and approval by the Landscape Architect. Plants required for the work may be inspected and tagged at the growing site before being dug.
- E. Observation at growing site DOES NOT preclude the right of rejection at the job site. Plants damaged by neglect or improper handling during transit or at the job site as determined by the Landscape Architect may be rejected at no cost to the project.
- F. All plant material shall be of No. 1 grade or better quality at time of installation and shall be maintained in this same condition until completion of the one (1) year guarantee period. Decline in condition of plant material during any period (installation, establishment, guarantee) for any reason shall be grounds for rejection and replacement as determined by the Landscape Architect at the contractor's expense.
- G. Employ only qualified personnel familiar with the required work.
- H. All plant material shall be installed in a sound, workmanlike manner and according to accepted good planting procedures with the quality of plant materials as hereinafter described. All elements of site and soil preparation, landscaping, and irrigation shall be installed so as to meet all applicable ordinances and code requirements. It is the contractors responsibility to ensure all applicable codes and ordinances are being met.
- I. Off-site topsoil and topsoil on-site testing:
- 1. Provide source of off-site soil to the Landscape Architect for purposes of soil investigation and testing.
- 2. Take random representative soil samples from across the project areas to be planted.
- 3. At the Landscape Contractor's expense, test soil samples from both sources for ph, alkalinity, total soluble salts, porosity, sodium content and organic matter and provide results to Landscape Architect for review and acceptance. Lab analysis of soils must contain recommended remediation instructions for the Landscape Architect's consideration and acceptance. Analysis submitted without recommendations will not be reviewed and are rejected.
- 1.4. REFERENCED STANDARDS (if applicable to this project as determined by the Landscape Architect):
- A. "Florida Grades and Standards for Nursery Plants", published by The Florida Department of Agriculture and Consumer Services.
- B. "American Standards for Nursery Stock" (ANSI Z60.1-2014), as amended.
- C. Florida State Statute 553.81 "Protection of Underground Pipelines".
- D. The Federal Highway Administration Manual of Uniform Traffic Control Devices, Millennium Edition.
- E. Florida Department of Transportation (FDOT) Design Standards, latest edition, Traffic Control Through Work Zones, Series 600 indices.
- F. Florida Department of Transportation (FDOT) Roadway and Traffic Design Standards, latest edition, Series 500 indices.
- G. Florida Department of Transportation (FDOT) Maintenance Rating Program, latest revision.
- H. ASTM International American Society for Testing and Materials.
- I. AASHTO The American Association of State Highway Transportation Officials.
- J. Americans with Disabilities Act (ADA), The ADA Compliance Handbook, latest edition.
- K. The Florida Building Code and The Florida Accessibility Code for Building Construction.
- L. National Arborist Association Standards.
- M. "Arboriculture Second Edition" by Richard W. Harris, as amended.
- N. Land Development Code (LDC) as defined by local municipality, city, or county standards.
- O. The South Florida Water Management District Xeriscape Plant Guide 2.

1.5. SUBMITTALS:

- A. Submit one (1) quart samples of the following materials:
- 1. Sandy Loam Topsoil
- 2. Organic Amendment
- 3. Mulch
- Potting Soil
- B. Submit a minimum of three (3) representative soils samples for laboratory soil test analysis results for on-site topsoil and imported sandy loam topsoil. Label each sample with the date, location keyed to a site plan or other location system, visible soil condition, and sampling depth. Laboratory test results shall include the following data based on the test results: state recommendations for soil treatments and soil amendments to be incorporated to produce satisfactory planting soil suitable for healthy, viable plants indicated. Include, at a minimum, recommendations for nitrogen, phosphorous, and potassium fertilization, and for micro-nutrients.

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1/25 12:01 PM By:					90% CD Submittal - Owner Directed Changes 90% CD Submittal	KNB KNB	FAD FAD	2022.04 2022.04	3510 Kraft Road Naples, FL 3410 www.stantec.c
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- C. Submit manufacturer's data for the following:
- 1. Fertilizer
- 2. Potting Soil
- 3. Steel, Aluminum, or Polyethylene Edging
- 4. Root Barrier

D. Submit digital photographs of all plant materials for Landscape Architect approval PRIOR TO DELIVERY to the site.

- E. File Certificate of Inspection of plant material by state and federal authorities with Landscape Architect.
- F. File the Grower's and/or State Certificate of Inspection of plant material to the Landscape Architect two (2) weeks minimum before commencement of work.
- G. By providing a bid on these Landscape Contract Documents, the Landscape Contractor is certifying that all plant materials as specified herein is available and will be provided to this project.
- H. Any substitutions in size and/or plant material species must be approved by the Landscape Architect in writing PRIOR TO PROCUREMENT AND/OR 1.8. WARRANTY: DELIVERY TO THE PROJECT SITE. All plants will be subject to the acceptance by the Landscape Architect BEFORE planting can begin.
- I. INSTALLATION PERIOD: The contractor is responsible for maintaining in full, all planting areas (including watering, spraying, mulching, mowing, fertilizing, etc.) until the job is accepted, in full, at the end of the installation phase by the Owner and Landscape Architect. Contractor to request inspection of project in writing at end of installation period. Landscape Architect and Owner acceptance shall initiate the establishment period.
- J. ESTABLISHMENT PERIOD: Contractor to guarantee, maintain, replace failed plant materials, and water plant material for a ninety (90) day establishment period following date of installation period completion. Contractor to request inspection of project in writing after ninety (90) day establishment period. Landscape Architect and Owner acceptance shall allow the the contractor to request the guarantee period phase start.
- K. GUARANTEE PERIOD: If all work is satisfactory and complete in accordance with the conditions of the contract documents, the contractor shall request in writing an acknowledgment of substantial completion from the Owner and Landscape Architect. Acknowledgment of substantial completion constitutes the beginning of the one (1) year. Contractor to notify the Landscape Architect ten (10) business days prior to end of guarantee guarantee to schedule a site review with the Landscape Architect and Owner of plant material at which time a final determination of plant 1.9. GENERAL MAINTENANCE DURING ESTABLISHMENT: health and replacement of failed plant materials as determined by the Landscape Architect will be identified at no cost to the project.
- 1.6. PRODUCT DELIVERY, STORAGE AND HANDLING:
- A. PREPARATION FOR DELIVERY:
- 1. Balled and burlapped (B&B) plants: dig and prepare shipment in a manner that will not damage roots, branches, shape, and future development.
- 2. Container grown plants: deliver plants in containers sufficiently rigid to hold ball shape and protect root mass during shipping.
- 3. All rootballs shall conform to the size standards set forth in "American Standards for Nursery Stock".
- B. DELIVERY:
- 1. Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. protect materials from deterioration during delivery and while stored at site.
- 2. Do not deliver more plant materials than can be planted in one day unless adequate storage and watering facilities are available on the job site. PART 2 PRODUCTS (LANDSCAPE GENERAL NOTES)
- 3. Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner WILL NOT be held responsible for theft or damage unless negligence is apparent as determined by the Landscape Architect. The Landscape Architect shall make the final 2.1. PLANTS: determination of all responsibilities and remedies.
- 4. If balled plants cannot be planted within 24-hours after delivery to site, protect root balls by heeling in with saw dust or other approved material.
- 5. Protect with cloth or other approved means of "windburn" prevention during delivery to prevent damage to root ball or desiccation of leaves. Contractor to field verify all deliveries and condition of materials PRIOR TO UNLOADING. All plant materials that are damaged or not conforming to specifications are to be rejected and removed from the site immediately. Any replacement of rejected material due to not meeting standards of care as determined by the Landscape Architect will be replaced at no cost to the project.
- 6. Contractor shall take all due care and implement safe guards during transit to not bruise trunks, break branches or fronds, and prevent unnecessary structural stress to the plant material. Plant material not meeting standards of care and damaged as determined by the Landscape Architect will be replaced at no cost to the project.
- 7. Notify the Landscape Architect of delivery schedule 48-hours in advance so plant material may be observed upon arrival at job site.
- 8. Remove rejected plant material IMMEDIATELY from site upon instruction to do so.

1.7. JOB CONDITIONS:

- A. PLANTING RESTRICTIONS:
- 1. Perform actual planting only when weather and soil conditions are suitable in accordance with locally accepted practice.
- 2. The Landscape Contractor shall field verify all information above and below ground, prior to initiating planting installation.
- 3. The Landscape Contractor shall field stake the location of all plant material prior to initiating installation for the review and acceptance of the Landscape Architect PRIOR TO commencement of plant installation.
- B. PROTECTIONS:
- 1. DO NOT move equipment over existing or newly placed structures without approval of Landscape Architect, Owner, and General Contractor.
- 2. Provide board-roading and sheeting as required to protect paving and other improvements from damage.
- 3. IN NO WAY shall any trees, plants, ground cover or seasonal color obstruct drainage or block a 2% minimum positive slope away from buildings.
- 4. All existing planting shall remain intact and undisturbed unless otherwise noted on the plans. The Landscape Contractor shall install a 4.0' height orange nylon or chain link type fence affixed with nails or staples to sturdy posts (metal fence stakes or 2x4 wood, set to a depth of 2'-0" minimum) surrounding all existing vegetation and/or vegetation to be protected and relocated. Fencing to be installed in the Critical Protection Zone - the area surrounding a tree within a circle described by a radius of one (1) foot for each inch of tree trunk diameter measured at 54" above finished grade (for groups of trees, locate fence between trees and construction activity) - the fence shall be located to protect a 2.2. SOIL PREPARATION MATERIALS: minimum of 75% of the critical protection zone. Shrubs and groundcover vegetation shall have a minimum 5.0' buffer between fence and construction zone. No construction debris, vehicles, chemicals, or other construction activity shall be allowed within the root zone and/or critical protection zone, either directly or indirectly.
- C. UTILITIES:
- 1. Determine locations of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate where required to minimize possibility of damage to underground utilities.
- 2. Contractor shall acquaint himself with all site conditions. Where excavation is required, the contractor shall promptly notify the local public works department and underground utility locating entity, power company, and any other utilities (gas companies, cable tv, phone, etc.) forty-eight (48) hours minimum prior to construction locations. Failure to do so will make the contractor operation and prior to any connection
- bound.
- 3/4" screen.
- D. SANDY LOAM TOPSOIL:

CITY OF NAPLES 735 8th St S NAPLES, FL. & Water Quality Improvement Project File Name: LP000.dwg

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ad, Suite 200 om



7201 Delainey Court Sarasota, FL 32420 www.ericksonconsultingengineers.com

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The Contractor shall verify and be responsible for all dimensions.

DO NOT scale the drawing - any errors or omissions shall be reported to Erickson Consulting Engineers (ECE) without delay. The Copyrights to all designs and drawings are the property of ECE. Reproduction or use for any purpose other than that authorized by ECE is forbidden. Client/Project

Naples Beach Restoration

the specifications required in the contract documents.

prior to written acceptance.

- the top of the range stated.

- knots, or other defects.

- F. Plants shall have a well-developed fibrous root system.

Florida.

diseases.

to existing utility liable for any and all damage, costs, and penalties there to arising from its operations. It is the contractors (existing and newly installed) responsibility to protect all utilities from damage. Report any conflicts to the Landscape Architect within two (2) business days for resolution prior to construction.

4. The contractor shall comply with Florida State Statute 553.81 "Protection of Underground Pipelines" for projects located within the State of

5. Should the Landscape Contractor cause damage to any utilities, necessary repairs shall be made as quickly as practicable, at the Landscape Contractor's expense, under supervision of the Landscape Architect and/or Owner.

6. Maintain grade stakes set by others until removal is mutually agreed upon by parties concerned.

7. Coordinate landscape installation work with the irrigation contractor to prevent damage to underground sprinkler systems. Inspect irrigation system and ensure that adequate water is available before beginning planting operations. Irrigation systems will not provide sufficient quantities of water for newly planted materials. The landscape contractor is responsible for deep root hand watering.

A. Warrant plants and trees for one (1) year after final acceptance. Replace dead materials and materials not in vigorous, thriving condition as soon as weather permits and/or upon notification by Landscape Architect. Replace plants, including trees, which in the opinion of Landscape Architect have partially died thereby damaging shape, size, or symmetry.

B. Replace plants and trees with same kind and size as originally planted, at no cost to Owner. Provide one (1) year warranty on replacement plants. These should be replaced at start of next planting or digging season. In such cases, remove dead trees immediately. Protect irrigation system and other piping conduit or other work during replacement. Repair any damage immediately.

C. Warranty excludes replacement of plants after final acceptance because of injury by storm, drought, drowning, hail, freeze, insects, wildlife, or

D. At the end of the warranty period, staking and guying materials shall be removed from the site by the Landscape Contractor unless otherwise agreed upon through written acceptance by the Landscape Architect or Owner.

A. Water must be made available on site. Provide necessary hoses and other watering equipment or vehicles required to complete work.

B. Until final acceptance, maintain plantings and trees by watering, cultivating, mowing, weeding, spraying, cleaning and replacing as necessary to keep landscape in a vigorous, healthy condition and rake bed areas as required.

C. A written notice requesting final inspection and acceptance should be submitted to Landscape Architect seven (7) working days prior to completion. At that time Owner and Landscape Architect will prepare a final punch list to be reviewed with the Landscape Contractor. When such project is deemed complete by the Landscape Architect, an on-site inspection by Owner, Landscape Contractor and Landscape Architect will be completed

D. Following final acceptance, maintenance of plant material will become the Owner's responsibility. The contractor shall provide Owner with a recommended maintenance program.

A. QUANTITIES: The drawings, plant list, and specifications are complementary: anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plans PRIOR TO procurement and/or installation. B. The Landscape Contractor must notify the Landscape Architect thirty (30) days BEFORE INSTALLATION if plant material cannot be found meeting

C. The Landscape Contractor is responsible to meet the plant material specifications provided in the Contract Documents. Plant material specifications provided ARE A MINIMUM. All minimum specifications shall be met and if any one of the specifications must be increased so that other collective minimum requirements are met, it is the contractors responsibility to do so.

E. Plants shall be equal to well formed No. 1 grade or better (unless otherwise noted in the drawings), symmetrical, heavily branched with an even branch distribution, densely foliated and/or budded, and a strong, straight, distinct leader where this is characteristic of the species. Plants shall possess a normal balance between height and spread. The Landscape Architect will be the final arbiter of acceptability of plant form. Plants deemed unacceptable by the Landscape Architect either before or after planting shall be removed at the expense of the Landscape Contractor and replaced with acceptable plants as specified.

E. Plants shall be healthy and vigorous, free of disease, insect pests and their eggs, and larvae.

G. All root balls shall conform to the size standards set forth in the "American Standards for Nursery Stock".

H. Plants shall be free of physical damage such as scrapes, broken or split branches, scars, bark abrasions, sun scalds, fresh limb cuts, disfiguring

I. Pruning of all trees and shrubs, as directed by Landscape Architect, shall be executed by Landscape Contractor at no additional cost to the owner. J. Plants shall meet the sizes indicated on the plant list. Where a size or caliper range is stated, at least 80% of the material shall be closer in size to

K. Plants indicated "B&B" shall be balled and burlapped. Plants shall be nursery grown unless otherwise specified in plant list. Balls shall be firm, neat, slightly tapered and well burlapped. Non-biodegradable ball wrapping material will not be accepted. Any tree loose in the ball or with broken ball at time of planting will be rejected. Balls shall be ten (10") inches in diameter for each one (1") inch of trunk diameter, measured six (6") inches above ball. Trees grown in grow bags or grow bag type material must have the grow bag removed entirely prior to planting.

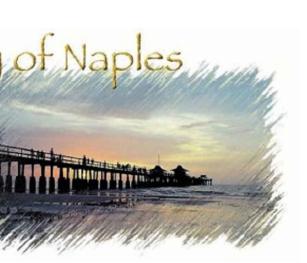
L. Container grown plants shall be well rooted and established in the container in which they are growing. They shall have grown in the container for a sufficient length of time for the root system to hold the planting medium when taken from the container, but not long enough to become root

A. ORGANIC AMENDMENT: Well decomposed, stable, weed free organic compost. The product shall contain no substances toxic to plants, shall be free of nematodes, and shall be reasonably free (<1% dry weight) of man-made foreign matter. The compost will possess no objectionable odors and shall not resemble the raw material from which it is derived. The product shall have a Ph of between 5.3 and 6.5 (as determined in accordance with ASTM E70), a soluble salt concentration of less than 10 ds/m, and an organic matter content of 30-65% dry weight, with 98% passing through a

B. FLORIDA PEAT shall be sterilized to make it free of all viable nut grass and other undesirable weeds. C. PRE-MIXED SOILS will be considered "as equals" when samples are submitted for the Landscape Architect's review with manufacturer's data and laboratory test reports. Samples not accompanied by the manufacturer's data and laboratory test reports will not be reviewed and are rejected.

1. Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones, and other extraneous material and reasonably free of weeds and foreign grasses. Soil containing nut grass and other undesirable weeds shall be rejected.

Title



Landscape General Notes / General Site and Construction Notes

Project No. 177310606

Revision

Scale

N/A

Drawing No.

LP001

F (2.1. (SHARP SAND: Clean, washed sand, (fine aggregate) meeting ASTM C-33. HERBICIDE: Apply an approved herbicide according to manufacturer's rate and specification within limits of all areas to be planted. Provide a manufacturer data to Landscape Architect for approval prior to application. Protect existing plants to remain from over-spray or spray within roc zone. Contractor to ensure total weed eradication. Scarify subsoil to a depth of three (3) inches then apply an approved pre-emergent herbicide in accordance with manufacturer's rate an specifications. Provide all manufacturer data to Landscape Architect for approval prior to approval prior to application. Follow manufacturer's recommended waitin period prior to new landscape installation.
2.1. (manufacturer data to Landscape Architect for approval prior to application. Protect existing plants to remain from over-spray or spray within roc zone. Contractor to ensure total weed eradication.G. Scarify subsoil to a depth of three (3) inches then apply an approved pre-emergent herbicide in accordance with manufacturer's rate an specifications. Provide all manufacturer data to Landscape Architect for approval prior to application. Follow manufacturer's recommended waiting
2.1. (zone. Contractor to ensure total weed eradication. 5. Scarify subsoil to a depth of three (3) inches then apply an approved pre-emergent herbicide in accordance with manufacturer's rate an specifications. Provide all manufacturer data to Landscape Architect for approval prior to application. Follow manufacturer's recommended waitin
2.1. (G. Scarify subsoil to a depth of three (3) inches then apply an approved pre-emergent herbicide in accordance with manufacturer's rate an specifications. Provide all manufacturer data to Landscape Architect for approval prior to application. Follow manufacturer's recommended waitin
2.1. (specifications. Provide all manufacturer data to Landscape Architect for approval prior to application. Follow manufacturer's recommended waitin
ł	COMMERCIAL FERTILIZER:
	A. ORGANIC FERTILIZER: Shall be delivered in manufacturer's standard container printed with manufacturer's name, material weight, and guarantee
	analysis. Fertilizers with N-P-K analysis other than that specified may be used provided that the application rate per square foot of nitrogen
	phosphorus, and potassium is equal to that specified. TREES: 8-6-6 plus minor elements - slow release; 1/2 lb fertilizer per 1/2 inch caliper
	PALMS: 13-3-13 plus minor elements - slow release; 1/2 lb fertilizer per 1/2 inch caliper
	SHRUBS & GROUNDCOVERS: 8-10-10 plus minor elements - slow release; 1/2 lb fertilizer per 100 ft2
	TURF: 16-4-8 plus minor elements - slow release; 1 lb fertilizer per 1000 ft2
211	Note: The cost for landscape fertilizer as described above shall be included in the per plant price. 1ULCH:
	A. Contractor shall mulch all plant beds and tree rings throughout and completely to a consistent three (3) inch depth with clean, weed free melaleuc
	in dark brown color unless otherwise specified.
E	3. Samples are required for approval by the Landscape Architect prior to procurement and/or installation.
	C. Typical Specification: www.GOMULCH.com - no float "Florimulch Brown" or approved equal.
	VATER:
	 The preferred water source shall be potable, suitable for irrigation, and shall be free from ingredients harmful to plant life. A water source utilizing well or lake water shall be designed and maintained in a manner which eliminates staining of the building, walks, walls, ar
-	other site improvements. Provide a strainer / filter for all water sources derived from a well or lake source.
(2. Reclaimed water sources must meet the Environmental Protection Agency's standards and must maintain setback separation from public bathir
	areas, food service, and healthcare facilities as prescribed by the Florida Department of Environmental Protection (FDEP) (F.A.C. 62-610.471) ar
_	the Florida Department of Health (FDOH).
C). IRRIGATION AFTER PLANTING AND DURING ESTABLISHMENT: Regular irrigation after planting is essential for survival and establishment of a plant materials. Establishment is the amount of time required for plant materials to grow a sufficient root system to support growth in their planter
	environment. Regular irrigation after planting shall follow the below schedule guidelines per Florida Grades and Standards "Best Manageme
	Practices", Appendix A - Part Four for vitality and establishment of plant materials:
	< <u>2" CALIPER:</u> Irrigate daily for two (2) weeks; every-other day for two (2) months; weekly until established.
	2" - 4" CALIPER: Irrigate daily for one (1) month; every-other day for three (3) months; weekly until established.
	 > 4" CALIPER: Irrigate daily for six (6) weeks; every-other day for five (5) months; weekly until established. 1. At each irrigation, apply two to three gallons per inch trunk caliper to the root ball surface. Apply it in a manner so all water soaks the entitient of the soat state.
	root ball. Do not water if root ball is wet/saturated on the irrigation day.
	2. When irrigating for vitality, delete daily irrigation when planting in winter or when planting in cool climates. Establishment takes three
	(hardiness zones 10-11) to four (hardiness zones 8-9) months per inch trunk caliper. Never apply irrigation if the soil is saturated.
2.1.	MISCELLANEOUS MATERIALS (if applicable to this project as determined by the Landscape Architect):
	A. Steel edging.
E	
	 Filter fabric: Tencate Mirafi 140 N non-woven fabric (unless otherwise noted) or approved equal.
E	. Tree wrapping paper: waterproof 6" wide crepe.
F	. Staking and guying materials:
	1. Wood stakes: 2" x 4" dense pine, pressure treated, painted dark brown.
	 Turn buckles: galvanized steel, 3/8-inch eye, 6-inch opening. Tie wire: 12 gauge galvanized wire.
	4. Black hose: 2 ply, fiber reinforced hose, minimum 1/2-inch inside diameter.
(G. Tree paint: asphaltic base paint with antiseptic properties, manufactured for use on tree wounds.
ŀ	I. Pea gravel: washed 3/8-inch diameter native pea gravel.
I	
J	
ĸ	 Fungicide: zinc ethylene bisdithiocarbonate (zineb) or equal. Plastic sheet: 4 mil black polyethylene, perforated at twenty four inches on center.
Ĺ	
PAF	RT 3 - EXECUTION (LANDSCAPE GENERAL NOTES)
3.1.	CONDITION OF SURFACES:
ļ	A. The Landscape Contractor will be responsible for any required excavation and for raking and smoothing of grade. It is recommended that t
	Landscape Contractor coordinate with the grading contractor to establish subgrades for planting areas as required below.
E	8. Examine subgrade upon which work is to be performed. Notify the Landscape Architect of unsatisfactory conditions immediately.
(. It is the landscape contractors responsibility to verify finish grade elevations prior to final landscape and irrigation installation. Failure to verify finish
	grade elevations as determined by the Landscape Architect will result in rejection of all installed elements and the subsequent replacement of pla materials, mulch, irrigation etc., at the contractors expense after grading is brought to specification.
3.1.	MIXING SOILS:
	A. PLANTING MIX: Shall consist of sandy loam topsoil, organic amendments, and sharp washed sand. Sand component may be increased or decreas
	based on sand content of topsoil submitted to the Landscape Architect.
	1. ROYAL PALMS: 60% sharp washed sand and 40% approved topsoil / solid waste compost.
	2. TREES / ALL OTHER PALMS: 90% washed sharp sand and 10% approved topsoil / solid waste compost.
	3. SHRUBS, AND GROUND COVERS: 70% washed sharp sand and 30% approved topsoil / solid waste compost
F	Pre-mixed soils may be accepted in lieu of above mix as noted berein. Contractor to submit soil analysis test of the soil mixture for approval by t
E	B. Pre-mixed soils may be accepted in lieu of above mix as noted herein. Contractor to submit soil analysis test of the soil mixture for approval by t Landscape Architect.

90% CD Submittal - Owner Directed Changes

90% CD Submittal

By

Appd. YY.MM.DE

KNB

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Revision

- C. Take imported, unamended soil from sources that are naturally well-drained sites where topsoil occurs at least 4 inches deep, not from agricultural 3.6 GROUNDCOVER AND SEASONAL COLOR PLANTING: land, bogs, or marshes; and that do not contain undesirable organisms; disease-causing plant pathogens; or obnoxious weeds and invasive plants including, but not limited to, quackgrass, Johnsongrass, poison ivy, nutsedge, nimblewill, Canada thistle, bindweed, bentgrass, wild garlic, ground ivy, perennial sorrel, and bromegrass.
- D. Clean soil to be free of the following:
- 1. UNACCEPTABLE MATERIALS: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
- 2. UNSUITABLE MATERIALS: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 8 percent by dry weight of the imported soil.

3.1. BED PREPARATION:

- A. It is the landscape contractors responsibility to verify finish grade elevations prior to final landscape and irrigation installation. Failure to verify finish grade elevations as determined by the Landscape Architect will result in rejection of all installed elements and the subsequent replacement of plant materials, mulch, irrigation etc., at the contractors expense after grading is brought to specification.
- B. All bed areas on plans where shrubs and/or groundcovers are continuously planted shall receive a minimum of 6" depth of continuous planting mix. 3.7 CLEANUP: C. Lay out bed areas for Landscape Architect approval PRIOR TO DIGGING.
- D. Excavate existing material as needed to allow placement of 6" of planting mix and 3" of mulch.
- E. Scarify bed area subgrade where excessive compaction is greater than 85% standard proctor to a depth of 12" by discing or rototilling. Repeat cultivation as required to thoroughly loosen soil.
- F. Evenly spread 6" of continuous planting mix throughout the planting area. DO NOT incorporate into native soils below.
- G. whenever a planting bed falls within the dripline of existing trees to remain, do not excavate as noted below. utilize the following bed preparation: 1. Evenly spread the following amendments over the entire bed area and lightly incorporate into the top 1" of soil with rake or other hand
 - implement. Amendments per 1000 sf shall be:
 - A) 3 cy organic amendment
 - B) 30 lb organic fertilizer
 - C) 40 pounds gypsum
 - D) 2 pounds sulfur

H. Rake amended areas clean and remove all rocks, roots, and debris. Dirt clods and clay lumps greater than 1" in diameter shall be broken apart or removed.

1.1. TREE PLANTING:

- I. Stake tree locations for Landscape Architect's approval PRIOR TO DIGGING.
- J. Plant trees in pits 2 times the diameter of the root ball and equal to depth of root ball.
- K. Landscape Contractor shall ensure drainage and percolation of all planting pits prior to installation of plant material. Contractor shall fill all tree pits with water before planting to assure that proper drainage and percolation is available. Correct if required to assure percolation. Contractor is responsible for replacement of all plants lost due to inadequate drainage conditions as determined by the Landscape Architect at no cost to the project.
- L. After excavation of tree pits, review water percolation with Landscape Architect. If tree pit does not drain adequately prepare hole for use with a PART 1 GENERAL (LANDSCAPE GROUNDS MAINTENANCE) tree sump. Paint pvc stand pipe and cover dark green. After tree is installed, pump water out on a daily basis.
- M. In the event rock or underground construction work or obstructions are encountered in any plant pit excavation work to be done under this section, alternate locations may be selected by the Landscape Architect. Where locations cannot be changed the obstructions shall be removed to a depth of not less than six (6") inches below bottom of ball when plant is properly set at the required grade. The work of this section shall include the removal of the site of such rock or underground obstructions encountered at the cost of the Landscape Contractor.
- N. Trees grown in grow bags or grow bag type material must have the grow bag REMOVED ENTIRELY prior to planting.
- O. Balled and burlapped material shall have the top one half (1/2) of the burlap around the base of the trunk cut and pulled back. Do not remove burlap. Wire cages, straps, etc. must be cut and removed prior to installation.
- P. Backfill tree pits with a mixture of 1/2 planting mix and 1/2 existing site soil. Lightly tamp every 6-inches to fill all voids and pockets. When pit is 2/3 full, water thoroughly and leave water to soak in. Place fertilizer planting tablets per manufacturers recommendations. Apply Superthrive per manufacturer's recommendations complete backfilling and form a saucer around the tree. Fill saucer with water and leave to soak in. Fill saucer with water again.
- Q. Completely fill each tree saucer with mulch to a consistent depth of three (3) inches.
- R. Landscape Contractor shall keep trees plumb until established. Provide guying and/or staking to maintain a plumb condition. If trees are not plumb, the Landscape Contractor will be required to re-guy and/or re-stake those trees in a method acceptable to the Landscape Architect at no additional cost to the project. The trees must stand upright and straight under it's own form and not bend under it's own weight. Staking and/or guying shall not be used as a substitute for non-conforming plant materials. Trees unable to stand upright and straight and maintain it's form as determined by the Landscape Architect are rejected and to be replaced at no cost to the project.
- S. Guying and staking practices shall not permit nails, screws, wires, etc., to penetrate the outer surface of trees or palms. Trees or palms rejected due to this practice shall be replaced at the contractor's expense with the Landscape Architect and/or Owner on site.
- T. PRUNING: Prune trees to preserve the natural character of the plant in a manner appropriate to its particular requirements in the landscape design as directed by the Landscape Architect or qualified licensed Arborist as accepted by the Landscape Architect. In general, remove at least one-third of wood by thinning and pruning. Do not cut back terminal branches. Thin native grown plants heavier than nursery grown plants. Remove sucker growth and broken or badly bruised branches.
- U. Removal and disposal of all staking and guying of trees and palms after the establishment and guarantee period shall be the responsibility of the contractor unless otherwise agreed upon with the Owner in writing.

3.5 SHRUB PLANTING:

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- A. Typically, shrub plantings are shown as mass planting beds. Plants shall be placed on a triangular spacing configuration (staggered spacing) as 1.2 shown in the planting details. Plant center to center dimensions (o.c.) are listed in the plant materials schedule. Plants not conforming to triangular spacing or center to center dimensions as determined by the Landscape Architect shall be rejected and replaced at no cost to the project.
- B. Place plants in position on bed areas before pots have been removed. Obtain approval from Landscape Architect prior to digging. Do not remove burlap from B&B plants. Landscape Architect reserves the right to interchange or shift plants prior to planting.
- C. All shrubs outside prepared bed areas or with root balls deeper than depth of bed preparation shall be pocket planted. Excavate planting hole 2 times the width and height of the root ball. Backfill with planting mix.
- D. Plant where located, setting plants with tops of balls even with tops of beds, and compact soil carefully around each plant ball.
- E. Water each plant thoroughly with hoses to eliminate air pockets.
- F. Carefully prune plants to remove dead or broken branches and hand rake bed areas to smooth even surfaces.
- G. After planting has been completed and approved by the Landscape Architect, mulch bed areas to a depth of three (3) inches. DO NOT mulch beds prior to acceptance by the Landscape Architect.





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The Contractor shall verify and be responsible for all dimensions.

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- to the project.

- prior to acceptance by the Landscape Architect.
- sweeping and/or hosing.
- 3.8 SUBSTITUTIONS:
 - to the project.
- delay.

END OF SECTION

LANDSCAPE GROUNDS MAINTENANCE

The Landscape Contractor is to render the following landscape maintenance services during the term of the initial construction contract. In addition, the Landscape Contractor is to include a price for a one-year extended maintenance contract to begin after the construction project is complete and accepted as determined by the Landscape Architect. This price is to be submitted on a separate line item.

1.1 SCOPE:

- the following:

 - 4. Pruning and trimming of trees and shrubs.
 - 5. Re-staking and adjustment of stakes and guying if required.
- 7. Application of fertilizers, insecticides and herbicides.
- 8. Replacement of plant material (extra service).

- contracts or other site related work.

 - work".
 - any work.
- SUBSTITUTIONS:
- without additional cost to the project.
- to the project.
- delay.
- 1.3 SCHEDULE:

A. All groundcover and seasonal color planting shall occur in prepared bed areas per specifications with at least 6 inch depth of planting mix. B. Typically, groundcover and seasonal plantings are shown as mass planting beds. Plants shall be placed on a triangular spacing configuration (staggered spacing) as shown in the planting details. Plant center to center dimensions (o.c.) are listed in the plant list/schedule. Plants not conforming to triangular spacing or center to center dimensions as determined by the Landscape Architect shall be rejected and replaced at no cost

C. Place plants in position on bed areas before pots have been removed. Obtain approval from Landscape Architect prior to digging. The landscape architect reserves the right to interchange or shift plants prior to planting.

D. Plant where located, setting plants with tops of balls even with tops of beds, and compact soil carefully around each plant ball.

E. Water each plant thoroughly with hoses to eliminate air pockets.

F. Carefully prune plants to remove dead or broken branches and hand-rake bed areas to smooth even surfaces.

G. After planting has been completed and approved by the Landscape Architect, mulch bed areas to a depth of three (3) inches. DO NOT mulch beds

A. During work, keep premises neat and orderly including organization of storage area. Remove trash, including debris resulting from removing weeds and rocks from planting areas, preparing beds, or planting plants from site daily as work progresses. Keep walkway and driveway areas clean by

A. Any substitutions in size and/or plant material must be approved by the Landscape Architect in writing prior to procurement and/or delivery to the work site. All plants will be subject to approval by the Landscape Architect Such permission must be secured without additional cost or delay in schedule to the project BEFORE planting can begin.

B. Installation of any approved substitutions is within the contractor's scope of responsibilities as if it were the original specification. Any changes required for installation of any approved substitution must be made to the satisfaction of the Landscape Architect and Owner without additional cost

C. Any accepted substitution resulting in a credit to the Owner/project shall be identified, documented and provided to the Owner/project without

A. WORK INCLUDED IN BASE BID: As applicable to this project and as determined by the Landscape Architect, perform all work necessary utilizing acceptable horticultural practices for the exterior landscape maintenance of the project as required herein. Such work includes, but is not limited to

1. Monitoring adjustment and minor repair of the landscape irrigation system.

- Protection of vacuum breakers against freeze damage, if applicable.
- 3. Mowing, edging and trimming of trees and shrubs.
- 6. Approval, by Owner and Landscape Architect, of material substitutions prior to use.
- 9. General site clean up, removal of trash, plant debris and products of maintenance.

B. EXTRA SERVICES: The intent of the contract is to provide a comprehensive maintenance program to include all required services, except those services specifically excluded, to perform the work for the stated time period.

1. All services not included in the base bid shall be considered "extra services" and will be charged for separately according to the nature of the item of work. The written consent and authorization of the Owner or their authorized representative must be obtained prior to the performance or installation of such "extra services" items and prior to purchase of any chargeable materials.

2. Such work may include replacement of dead plant materials or major repairs of irrigation system created by acts of vandalism or other

3. Authorized extra services work must be summarized weekly and submitted with receipts to the Owner.

4. The Owner is not bound by the specifications or contract to utilize the landscape maintenance contractor in the performance of "extra service

5. The landscape maintenance contractor shall coordinate his activities with other contractors on the site so as to not hinder the performance of

6. Authorized charges for extra work will be paid monthly.

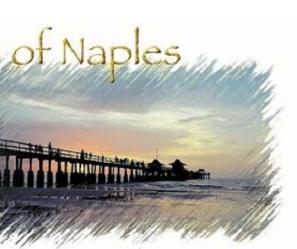
A. Specific reference to manufacturer's names and products specified in the Contract Documents are used as standards, but this does not imply the right to substitute other material or methods without written approval of the Landscape Architect and Owner. Such permission must be secured

B. Installation of any approved substitutions is within the contractor's scope of responsibilities as if it were the original specification. Any changes required for installation of any approved substitution must be made to the satisfaction of the Landscape Architect and Owner without additional cost

C. Any accepted substitution resulting in a credit to the Owner/project shall be identified, documented and provided to the Owner/project without

Title

A. All work under this contract shall be performed in accordance with the project schedule as defined by the Owner or authorized representative.



Landscape General Notes / General Site and Construction Notes

Project No. 177310606

Scale

N/A

Drawing No.

LP002

Revision

	 as possible. B. The landscape contractor is solely responsible for all water and maintenance needs, and shall not rely upon the Owner or other third party e provide the required irrigation and maintenance during installation, establishment, or warranty phases. It is the contractors responsibility to field observations at regular intervals throughout the installation, establishment, or warranty phases to verify irrigation operation and maintenance needs, and du maintenance needs, and plant material health and establishment. It is the contractors responsibility to update watering times and du
	remove miscellaneous debris, replace damaged or dead plant materials, and repair irrigation heads, bubblers, connectors, etc. Any inability
	these critical requirements shall be documented and submitted by the landscape contractor to the Owner and Landscape Architect as s practical for resolution.
	 C. The intent and spirit of these Contract Documents is to provide a guideline for the contractor to follow in order to provide Owner with lar maintenance services of the highest quality. Where the manual refers to "as-needed" or "as-required" the intent is for the contractor to perform services necessary to maintain the property at the highest possible quality level. Nothing contained within these documents shall be interpreted.
	relieving the contractor of its responsibility to perform the work in a professional manner and to the complete satisfaction of the Owner. D. If disputes arise as to the quality of the services performed between the contractor and the Owner (or Owners Designated Representative)
1 5	Landscape Architect shall make the final determination of all responsibilities and remedies.
	NEGLECT AND VANDALISM: A. Turf, trees or plants that are damaged or killed due to Landscape Contractor's operations, negligence or chemicals shall be replaced at no e
	to the project as determined by the Landscape Architect. If plant damage or death is caused by conditions beyond the Landscape Cont control, replacement shall be at the Owner's expense if determined by the Landscape Architect. It is however the landscape cont responsibility to notify the Landscape Architect and/or Owner within 48 hours of damage observed. Failure to provide clear and convincing e
	in a timely manner will result in damaged materials being replaced at the contractors expense under warranty.
	B. Sprinklers or structures that are damaged due to the contractor's operations must be replaced by the contractor promptly at no additional
	the project. Likewise, damage to the irrigation system by others shall be corrected immediately by the contractor, at the Owner's exp determined by the Landscape Architect. It is however the landscape contractor's responsibility to notify the Landscape Architect and/or within 48 hours of damage observed. Failure to provide clear and convincing evidence in a timely manner will result in damaged materia
	replaced at the contractors expense under warranty.
	C. All water damage, either natural or man-made, resulting from contractor's neglect shall be corrected at the contractor's expense without delaD. All damage to, or thefts of, landscaping and irrigation installations, equipment, supplies, etc. not caused or allowed by the contractor as dete
	D. All damage to, or thefts of, landscaping and irrigation installations, equipment, supplies, etc. not caused or allowed by the contractor as determined by the Landscape Architect shall be corrected by the contractor at the Owner's expense upon receipt of written authorization to procee
	however the landscape contractor's responsibility to notify the Landscape Architect and/or Owner within 48 hours of damage and/or theft. Fa
	provide clear and convincing evidence in a timely manner will result in damaged and/or stolen materials being replaced at the contractors e
1.6	under warranty. JOB CONDITIONS:
	A. Contractor shall acquaint himself with all site conditions. Should excavation be required the contractor shall promptly notify the loca
	coordination entity for utility locations. Failure to do so will make contractor liable for any and all damage thereto arising from his operations
	 B. Contractor shall take necessary precautions to protect site conditions, irrigation and plants. Should damage be incurred, the contractor shall damage to its original condition or furnish and install equal replacement at its expense. EMERGENCIES:
	A. Should an above or below ground utility be compromised during construction activities such as (but not limited to) a gas main, wate
	irrigation main, electric power lines, etc., the contractor is obligated to stop work activities in the immediate area, remove themselves and from the hazardous environment, and report to their supervisor, the Client, and/or Prime Contractor immediately a potentially unsafe s
	leading to injury or damage so they can take prompt action. Notify proper authorities as required and necessary.B. The contractor shall answer emergency or complaint calls within twelve (12) hours and corrective action shall be complete within twenty-for hours.
	C. The contractor shall answer emergency calls regarding the landscape irrigation system failure or need of repair, and take corrective action eight (8) hours. Such work, unless caused due to neglect on the part of the landscape maintenance contractor as determined by the Lan Architect, shall be considered "extra services".
	RESTRICTION: A. DO NOT use growth regulators or growth retardants on this work.
	RT 2 - MATERIALS AND MACHINERY (LANDSCAPE GROUNDS MAINTENANCE)
	IRRIGATION SYSTEM MATERIALS:
	A. Replacement materials for maintenance purposes throughout the system shall be as specified and/or noted on the "Contract Documents", noted and/or noted on the "Contract Documents", noted and/or noted on the "Contract Documents", noted and/or noted
	in perfect working condition.
	B. Irrigation shall be installed to meet or exceed Appendix F - "Proposed Construction Building Codes for Turf and Landscape Irrigations Syste
2.2 №	the Florida Building Code, Plumbing (latest edition), and in accordance with ASTM D2855 unless otherwise noted herein. MATERIALS: Materials listed under this section are expressly specified for use but does not prohibit or restrict the contractor from providin
	approved materials not listed in order to complete the work required herein as submitted to and approve by the Landscape Architect. All materia
b	be new and in perfect condition.
	A. PRE-EMERGENCE WEED CONTROL: contractor option (granular)
	B. POST-EMERGENCE WEED CONTROL: contractor optionC. HERBICIDE: contractor option.
	D. INSECTICIDE: contractor option.
	E. FUNGICIDE: contractor option.
	F. FIRE ANT CONTROL: Shall be slow release applied at six (6) week intervals. Spot treat weekly with a contact product where mounds Alternate products each interval for effective control.
	G. SHRUB BED FERTILIZER: Apply at manufacturer's recommended slow release rates for each plant used.
	H. LAWN FERTILIZER: 15-5-10 with 50% sulphur coated urea and 4% iron.
	I. TREE FERTILIZER: contractor option. Apply using the maximum manufacturer's recommended rate and procedures.
	J. MULCH: Clean, weed free Melaleuca in dark brown color unless otherwise specified.K. TREE STAKES AND GUYS: Shall match those in use at the site.
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2.3 MACHINERY: Machinery requirements listed under this section are not intended to be restrictions of specific manufacturers or models unless so stated. Specific mention of manufacturers is intended as a guide to illustrate the final product of maintenance operations desired.

- A. MOWERS: Shall be commercial grade rotary type in good working order, finely tuned to protect the lawn from excessive exhaust fumes. Blades shall be sharp to reduce shredding of the cut grass blades. Grass catchers not required. Blade height shall be set to never remove more than 1/3 of the leaf blade. Avoid mowing when turf/lawn is wet.
- B. LAWN EDGERS: Shall be of a rigid blade type that will produce a fine clean edge where lawns meet walkways, pavements or curbs.
- C. PRUNING TOOLS: Shall be maintained in good working order, cutting edges shall be sharp. Disinfect all tools when used for the removal of diseased limbs with a twenty (20%) percent solution of Chlorox bleach and water.

PART 3 - EXECUTION (LANDSCAPE GROUNDS MAINTENANCE)

3.1 LANDSCAPE IRRIGATION SYSTEM: As applicable to this project and as determined by the Landscape Architect, the Landscape Irrigation Contractor shall, a total of 18 times a year, monitor and program the automatic controlling devices to provide optimum moisture levels in all planted areas.

- A. Irrigation cycles shall be set to take place prior to sunrise (usually 4:00 5:00 am) unless otherwise instructed by the Owner or Landscape Architect, except during visits of grounds maintenance personnel. During such visits the irrigation system may be operated as desired by those personnel.
- B. DO NOT program controllers operating on the same water meter to water during the same time period so as to prevent over-draft of water meters. DO NOT switch controller to "off" at any time, except as required for testing and for maintenance operations.
- C. Complete sprinkler system servicing shall be performed as required to maintain sprinklers in correct operating condition, including all required labor. April through September the operation of sprinklers shall be inspected and monitored on a twice-per-month basis to assure proper cover and operation. October through March monitor and inspect sprinklers once per month or upon the request of the Owner. This check shall include visual "inspection" of all accessible components of the irrigation system including but not limited to controllers, remote control valves, rain sensors, drip irrigation, quick couplers and heads.
- D. Adjust sprinklers to avoid damage to windows, buildings and sign walls, also adjust heads to keep water off the street and sidewalks. Make repairs and alterations to the sprinkling system and water lines. All sprinkler repairs such as cleaning of head or breaks caused by the contractor shall be the contractor's responsibility to repair immediately at his expense.
- E. A fully automatic irrigation system with a controller and applicable moisture (rain) sensor located to receive direct rainfall shall be provided.
- F. All plantings shall have 100% full coverage with irrigation. Provide one bubbler per tree/ palm and drip or spray mechanisms for shrubs, groundcover and grasses/turf.
- G. Valve sizing, detailing and mainline routing may be adjusted by the Landscape Architect to accommodate the needs of the landscape design in the field.
- H. Landscape Architect reserves the right to use drip, bubblers, stream bubbler, or spray irrigation in shrub areas as required by field conditions.
- I. The irrigation system will operate with separate valve zones for turf areas and shrub planting areas where efficiency of separation allows. The controller will be set to operate appropriate run times for the various zones and their required precipitation needs in accordance with best management practices for irrigation of Florida landscapes.
- J. The irrigation system will be installed to minimize the application of water to impervious areas, adjacent properties, and existing vegetation.
- K. Irrigation shall be installed to meet or exceed Appendix F "Proposed Construction Building Codes for Turf and Landscape Irrigations Systems" of the Florida Building Code, Plumbing (latest edition), and in accordance with ASTM D2855.

3.2 TREE MAINTENANCE:

- A. Trees that may require guys, stakes or special care during the seasonal winds and rains shall receive the required care prior to the time of rains and high winds to insure that no damage results to the plant material.
- B. Contractor shall maintain staking and guying of trees at all times and shall be responsible for any damage to trees or plat materials caused by chafing or breakage or foliage or limbs coming in contact with stakes or guys. Replace broken plant stakes and ties as needed. If ties are too tight, they must be replaced or adjusted.
- C. All suckers shall be continually removed from trees.
- D. Grass shall be trimmed at the base of trees in a manner that shall protect tree trunks from cutting of bark and cambium layer. DO NOT use "power PART 4 SCHEDULE (LANDSCAPE GROUNDS MAINTENANCE) trimmers". Each tree within a lawn or turf area shall have a 3" depth ring of mulch no less than twenty-four (24) inches beyond it's trunk in all directions.
- E. Annual tree pruning and/or shaping as needed. Always prune out dead wood. Refer to schedule. Contact Owner and/or Landscape Architect prior to commencing any pruning or shaping work.
- F. Mulch trees only when so directed by the Landscape Architect. Confirm and comply with Owner's mulch schedule if applicable.
- G. Spray all trees four times per year to control foliar feeding insects. The spray shall consist of alternately spraying 2 times with an insecticide spray PART 5 MAINTENANCE SCHEDULE (LANDSCAPE GROUNDS MAINTENANCE) and 2 times with a fungicide beginning in March, with the last spray in September.
- H. Monitor for aphids, powdery mildew and other common ailments and treat immediately to eliminate these problems.

3.3 GUIDELINES FOR CRAPE MYRTLE TREES (if applicable to this project as determined by the Landscape Architect):

- A. Prune Crape Myrtles in February to remove dead branches and to shape head for spring/summer growth.
- B. Fertilize in February each year with super phosphate applied per manufacturer's recommendations for flowering trees.
- 3.4 TURF MAINTENANCE:
 - A. MOWING: All common Bermuda and/or St. Augustine grass shall be mowed approximately every seven days March through October. During periods of mild weather the cut should not be lower than two and one-half (2 1/2") inches from the soil. Never scalp the lawn or cut more than one-third (1/3) the existing top growth in one mowing. On irrigated areas, remove any accumulated clippings or clumps, never allowing clippings or clumps to remain on lawn surface more than four (4) hours. All sidewalks and curbs shall be edged as well as other objects (non living) in the grass zone. Allow grass to grow up to but not over sprinkler heads. Trim grass around heads with a circular sprinkler head trimmer. DO NOT use "weed-eaters" to trim around sprinkler heads. Damaged sprinkler heads caused by improper maintenance shall be immediately replaced at contractor's expense.
 - B. WATERING: Provide a regular, deep watering program. The established turf should not be kept wet but should dry out somewhat between waterings. A twice weekly watering is good under regular conditions, but if it is hot or windy, water more often. In very hot weather, a fast watering with fine spray will cool the turf zone and can supplement the regular, deeper watering program. In shaded areas caused by trees, water more frequently because of the competition for soil moisture. If lawn wilts (shows grey-brown) water more frequently.
 - C. LAWN FERTILIZER: <u>April 1st</u>: 22-0-6 analysis at the rate of 10 pounds fertilizer per 1,000 square feet, nitrogen content shall consist of 50% sulphur coated urea. Analysis shall include 4% iron. May 15th : 24-6-12 analysis at the rate of 10 pounds fertilizer per 1,000 square feet, nitrogen content shall consist of 50% sulphur coated urea. Analysis shall include 4% iron. July 1st : 15-5-10 analysis at the rate of 10 pounds fertilizer per 1,000 square feet, nitrogen content shall consist of 50% sulphur coated urea. Analysis shall include 4% iron. August 15th : 15-5-10 analysis at the rate of 10 pounds fertilizer per 1,000 square feet, nitrogen content shall consist of 50% sulphur coated urea. Analysis shall include 4% iron. October 1st : 22-0-06 analysis applied at the rate of 10# per 1,000 square feet. No sulphur coated urea, no iron.

- E. WEED CONTROL AND UNDESIRABLE GRASS GENERAL:

- 3.5 SHRUB AND GROUNDCOVER BED MAINTENANCE:
- the growing season
- 1st : 15-5-10, October 1st : 22-0-6.

- 3.7 GENERAL CLEAN UP:

4.1 SCHEDULE:

5.1 Schedule for mowing, edging, trimming, litter clean up, irrigation monitoring and other related maintenance:

			MA	INTENA	ANCE S	CHEDUI	LE						
DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
моw						MOW V	VEEKLY						52
EDGE / TRIM						EDGE / TR	IM WEEKLY						52
CLEAN / TRASH / WEED BEDS		PRIOR TO EACH MOWING AND EDGE /TRIM ACTIVITIES									52		
IRRIGATION / SPRINKLERS		MANUALLY WET TEST IRRIGATION OPERATION WEEKLY									52		
POST-EMERGENT (LAWN)			1	1		1		1					4
		POST EMERGENT OF WINTER WEEDS POST-EMERGENT OF CRABGRASS & OTHER BROADLEAF GRASSES							RASSES				
FERTILIZE (LAWN, SHRUBS & GROUNDCOVERS)		1			1		1			1			4
FERTILIZE (TREE & PALMS)		1			1		1			1			4
PRE-EMERGENT (SHRUBS & GROUNDCOVERS)				1						1			2
PRUNE (SHRUBS & GROUNDCOVERS)					B	I-WEEKLY AN	ND AS NEEDE	D					26
PRUNE (ORNAMENTAL GRASSES)				1						1			2
PRUNE (TREES & PALMS)				1 TREE		1 PALM			1 TREE				3
INSECT & DISEASE CONTROL (LAWN & BEDS)			1	REAT AS NE	EDED OR PEF	R OWNER'S S	PECIFIC MAI	NTENANCE RE	EQUIREMENT	S			
TREES & PALMS (INSECTICIDE)						TREAT AS	S NEEDED						
TREES & PALMS (FUNGICIDE)						TREAT AS	S NEEDED						
MULCHING					1						1		2
DF SECTION	•	•											

END C

Client/Project CITY OF NAPLES 735 8th St S NAPLES, FL. Naples Beach Restoration & Water Quality Improvement Project File Name: LP000.dwg





ad, Suite 200 com



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A. The schedule as included herein shall govern the work. Should the contractor require an alteration of the schedule, contact the Landscape Architect and Owner for review and approval prior to implementation.

D. FERTILIZER: Trace elements in fertilizer shall be based on the recommendations of the soil laboratory. The fertilization program will be closely monitored by the Owner. The contractor shall prepare submittals prior to each application showing the area to be covered, the quantity of fertilizer to be applied, and the rates of applications. The Owner will monitor the application to insure that materials and procedures are as specified.

1. Contractor shall use extreme care in the use of chemicals for weed control. Before such applications are made, the turf should be well established and in a vigorous condition.

2. All chemical applications shall be properly licensed with the proper governing authorities.

3. The contractor shall carry the insurance required by the governing authority.

4. Apply chemicals at the manufacturer's recommended rate to achieve complete control of weeds and undesirable grasses.

5. All products utilized on this project must be labeled for turf use.

6. Spot treatment of weeds and undesirable grasses shall be achieved without damaging the surrounding turf.

WEED AND UNDESIRABLE GRASS CONTROL SCHEDULE: All turf shall be sprayed 2 times in early spring for post-emergent control of winter weeds, and 2 times in June - August for post-emergent control of crabgrass and other broadleaf grasses, for a total of 4 cycles. NOTE: If permanent turf establishment is not complete, do not apply pre-emergent herbicide. Summer/fall spot treat turf areas to achieve a minimum 98% pure stand of turf.

G. INSECTS: Control insects with regular applications of commercial insecticides at the manufacturer's recommended rate.

H. DISEASES: Spray for diseases when they first become apparent with an approved commercial fungicide strictly according to the manufacturer's recommendations.

I. Maintain mulched saucers around all trees for one year after planting. Trim grass as required to prevent grass from encroaching into the saucer area. No "weed-eaters" shall be used around the trunk of any tree at any time.

J. If initial installation (any or all) of the project site is in winter rye, the contractor will at that time change the mowing and trimming rate to 45 times a year. Contractor shall also during the 1 year maintenance period and at the appropriate season, chemically kill out winter rye and hydromulch bermuda.

K. One application of herbicide will be applied to over-seeded turf to aid in the eradication of rye grass.

A. Weeding of all shrub, groundcover beds and seasonal color beds shall be performed twice monthly (total 24 times).

B. All shrub and groundcover beds shall be pruned 8 times a year March - October in an attempt to develop the natural form of the plant.

C. Pre-emergent weed control shall be applied 1 time in early spring and 1 time in late fall in planter beds only after careful thought of what is to occur in planters during

D. All shrub, groundcover beds and seasonal color areas shall be fertilized 3 times per year at a rate of 2 pounds of fertilizer per 1,000 square feet. April 1st: 22-0-6, July

3.6 USE OF HERBICIDES, INSECTICIDES, STERILANTS, POISON, AND ANIMAL TRAPS:

A. The contractor shall be granted permission upon Owner approval to use such herbicides, insecticides, poison, and animal traps as it may find necessary and advantageous in its grounds maintenance activities. Herbicides, insecticides, sterilants, and animal traps must be used responsibly and in conformance with federal, state and local laws and regulations. The contractor assumes all liability for damage and/or injury resulting from accident or misuse of these products and/or equipment. The owner retains the right to prohibit the use of any herbicide, insecticide, poison, or animal trap that they may judge to be undesirable for any reason. B. Product leaving an undesirable residue or odor (i.e., weed oil, bloodmeal, etc.) shall not be used.

C. The owner shall be notified prior to application and advised of any danger associated with the use of these products (i.e., to avoid contact with sprayed areas, etc.). D. Apply insecticides as needed to protect all plant materials from damage. The insect control program shall include slugs and snails and advance preventive spraying for twig borers. The contractor shall be responsible for choosing the chemicals and insecticides he uses and shall be accountable for any misuse of same. E. Apply the proper fungicide, herbicide and pesticides for the control of pests, weeds and plant diseases or treat cuts on turf, plants and trees.

A. The contractor shall dispose of all waste materials or refuse from his operations off the property.

B. All plant growth shall be prevented in any cracks in walks or within paved areas.

C. Leaves, papers, grass clippings or other debris shall be removed at least weekly or at each visit from all areas.

D. Sweep roads and walks of refuse, dirt and other materials which may be deposited as a result of the maintenance operation. Trash and plant litter shall NOT BE ALLOWED to enter storm water structures, catch basins, yard drains, deck drains, or collect at drainage flumes.

E. Contractor will evaluate mulch four (4) times a year during the 1-year maintenance period and replace bare spots as needed.



Landscape General Notes / General Site and Construction Notes

Project No. 177310606

Scale

N/A

Drawing No. LP003

Revision

Title

LAWNS, TURF, AND GRASSES

PART 1 - GENERAL (LAWNS, TURF, AND GRASSES)

1.1 SCOPE:

A. Furnish all labor, tools, transportation, materials, equipment, supervision, etc., required to adequately establish a dense lawn of permanent grasses, free from lumps and depressions as indicated by plans and specifications. Replace any part of the area failing to show uniform cover until a dense lawn is established. The cost of miscellaneous labor and materials for topsoil, weeding, tilling, pest control, fertilizing, etc., are not separate pay items and shall be included in the bid price for lawns, turf, and grasses.

1.2 PAYMENT:

- A. Payment for grass planting or hydro-seeding for general turf areas will be made after final acceptance based on the method of payment stated in the bid proposal. If based on area units, such as square feet or square yards, payment will be based on actual field measurements. The contractor shall seed, fertilize, maintain and establish a healthy stand of grass before acceptance or payment for grass will be considered by the Landscape Architect and Owner.
- B. Bidders shall be aware that estimates of work under the specifications for monthly payments are made on non-perishable materials only. Payments for perishables will be made after final acceptance of the project. All grass planting, tilling, fertilizer, etc. shall be considered perishable, therefore, no partial payments will be paid for grass planting and associated work.

1.3 MAINTENANCE OF GRASS:

A. The contractor shall maintain the grass until final acceptance. Such maintenance shall include spraying, weeding, cultivation, fertilizing, watering, mowing, disease and insect control, top dressing low spots, plus any procedures consistent with horticultural practice necessary to insure normal, vigorous, and healthy grass.

1.4 JOB CONDITIONS:

- A. WATER: Water must be made available on site. Provide necessary hoses and other watering equipment or vehicles required to complete work.
- B. Lawn areas will be left within 0.1 foot of finish grade by other trades. Fine grading, raking and smoothing will be the responsibility of the landscape contractor. It is the landscape contractors responsibility to verify finish grade elevations prior to final landscape and irrigation installation. Failure to verify finish grade elevations may result in rejection of all installed elements and replacement of plant materials, irrigation etc. after grading remediation at no cost to the Owner.

1.5 SCHEDULE

- A. SEEDING / HYDRO-SEEDING (if applicable and called for in the contract documents)
 - 1. NORTH / CENTRAL FLORIDA: Complete only between May 1 to August 31 under favorable conditions (warm season).
- 2. SOUTH FLORIDA: Complete only between April 1 to September 15 under favorable conditions (warm season).
- B. SEEDING/HYDROMULCHING (if applicable and called for in the contract documents):
- 1. Complete seeding/hydromulching only between September 1 to April 30, except at front of project, as determined by Landscape Architect and Owner, under favorable climatic conditions.
- C. SODDING (if applicable and called for in the contract documents):
- 1. NORTH / CENTRAL FLORIDA: May 1 to August 31 (warm season) and September 1 to April 30 (cool season) with overseed of perennial rye. 2. SOUTH FLORIDA: April 1 to September 15 (warm season) and September 16 to April 30 (cool season)(use nursery overseeded sod in cool season, if available).
- D. QUALIFICATIONS: Due to unseasonable weather, the above dates may vary; however, do not proceed with grassing operations beyond these dates without assuming full responsibility for a stand of grass.

1.6 ACCEPTANCE:

A. The work will be accepted only when a completed, undamaged stand of grass is established as determined and approved by the Landscape Architect and as accepted by the Owner.

PART 2 - MATERIALS (LAWNS, TURF, AND GRASSES)

2.1 TOPSOIL:

- A. Topsoil shall be friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material. Topsoil containing weeds and foreign grasses shall be rejected.
- B. Topsoil shall be natural, fertile, agricultural soil capable of sustaining vigorous plant growth. It shall be of uniform composition throughout, with 3.8 SOLID SOD (if applicable and called for in the contract documents): admixture of subsoil. It shall be free of stones, lumps, live plants and their roots, sticks, and other extraneous matter. Spread topsoil mixture to minimum depth of three (3) inches throughout all areas and six (6) inches in all shrub and groundcover beds. Remove all rocks and other objects over one (1) inch in diameter.
- C. Smooth all prepared topsoil to three (3) inches below top of surrounding pavement edges. Finish grade all prepared topsoil areas to a smooth, even B. FERTILIZING: Fertilize immediately after grass is planted at rate of 4 lbs. per 1,000 square feet. Repeat fertilizing at the same rate 3-4 weeks later. surface assuring positive drainage away from the structures and and eliminate any low areas which may collect water. Modify application rate if recommended by soil testing lab.
- D. Smooth topsoil mixture to six (6) inches below grade in areas to be sodded.
- E. Topsoil shall not be extremely acidic or alkaline, nor contain toxic substances which may be harmful to plant growth. The Ph shall be in the range of 5.5 to 6.5. if necessary, the contractor shall apply the appropriate soil amendments adjusting soil Ph to assure a Ph range of 5.5 to 6.5.
- F. Physical properties as follows:
- 1. Clay between 7-27 percent
- 2. Silt between 28-50 percent
- 3. Sand less than 52 percent

2.2 GRASS:

- A. GRASS SEED: Where called for in the contract documents, provide extra fancy, hulled and treated, lawn type seed, delivered to site in original, unopened containers meeting requirements of Florida state seed law. Minimum purity germination 90 percent.
- B. SOD: Where called for in the contract documents, provide solid sod, live, rich, dark green in color, free of foreign grasses, weeds, nutgrass, cut with a full 1 inch of heavy soil covering roots. Deliver to site in 16" x 24" rectangle slabs or 24 inch wide rolls. Do not stack for more than 24 hours between time of cutting and time of delivery. Sod shall have tight, staggered joints. Sand all joints filling voids and roll to consistent surface free of clumps, dips, ridges, etc. The Landscape Architect and Owner shall review final sod installation for acceptance upon notification of completion by contractor. Areas not meeting specifications as determined by the Landscape Architect shall be removed and replaced at no additional cost to the project.

2.3 FERTILIZER:

- A. Fertilizer shall be organic base, uniform in composition, dry and free flowing. deliver fertilizer to site in original, unopened containers, each bearing manufacturer's guaranteed statement of analysis.
- B. First application: 12-12-12 element percentage with minimum 8% sulfur and 4% iron, plus micro nutrients.

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				90% CD Submittal - Owner Directed Changes 90% CD Submittal	KNB KNB	FAD FAD	2022.04 2022.04	3510 Kraft Road, Suite 200 Naples, FL 34105 www.stantec.com
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		C. Second application: 3:1:2 element ratio. nitrogen source to be a minimum 50% slow release organic nitrogen (scu or uf) plus minimum 8% sulfur and 4% iron plus micro nutrients.	GE	<u>ENI</u>	ERAL SITE
	2.4	MULCH FIBER (if applicable and called for in the contract documents) A. WOOD CELLULOSE FIBER FOR HYDROMULCH: Enviro-Gro Cellulose Fiber Hydraulic Mulch or approved equal with green color additive.	PA	١RT	1 - GENEI
	2.5	TACKIFIER (if applicable and called for in the contract documents):	1.1	SCO	OPE:
t		A. Natural, non-asphaltic vegetable gum with gelling and hardening agents.		Α.	The limits of constru
e	2.6 2.7	SHARP SAND: A. Clear, washed sand (fine aggregate) per ASTM C-33. HERBICIDE:		В.	Provide all labor, m herein.
	2.7	B. Apply an approved herbicide according to manufacturer's rate and specification within limits of all areas to be planted. Provide all manufacturer data		C.	Install all work in c
n r		to Landscape Architect for approval prior to application. Protect existing plants to remain from over-spray or spray within root zone. Contractor to ensure total weed eradication.		D.	drawings. The proposed const
e s		 C. Scarify subsoil to a depth of three (3) inches then apply an approved pre-emergent herbicide in accordance with manufacturer's rate and specifications. Provide all manufacturer data to Landscape Architect for approval prior to application. Follow manufacturer's recommended waiting period prior to new landscape installation. 		E.	construction shall als There shall be no ch 1. SHOP DRAWING information give
,					location, applica
	PA	NRT 3 - EXECUTION (LAWNS, TURF, AND GRASSES)			design intent.
					2. The contractor a
,	3.1	PREPARATION:			relieved of resp
'		A. Scarify lawn areas where excessive compaction is greater than 85% standard proctor to a depth of 6-inches by discing or rototilling. Repeat			review and "acc
		cultivation as required to thoroughly loosen soil. B. Leave areas free of weeds and ready for final grading.	1.2	SCł	HEDULE:
		 B. Leave areas free of weeds and ready for final grading. C. Provide barricades around scarified areas to prevent compaction by construction vehicles. 		Α.	All work under this o
<u>م</u>	3.2	SPREADING TOPSOIL:	1.3	COI	NTRACTOR'S PERFOR
ะ า	5.2	A. No topsoil shall be placed until subgrade is approved by Landscape Architect.		Α.	It is expected that the
a		B. Contractor to furnish and spread topsoil on lawn areas to a depth of six (6) inches unless otherwise noted in the contract documents.		в.	The contractor's wor
9		C. Work topsoil to a smooth uniform surface and compact firmly.			from a location on the
		D. Feather topsoil into undisturbed areas creating a smooth, even transition. Spread additional topsoil in undisturbed areas to eliminate water ponding.			as possible.
	3.3	FINAL GRADING:		C.	The intent and spirit
	515	A. Remove from site and legally dispose of stones 1-inch and larger, sticks, roots and other debris exposed during this operation.			the highest quality.
		B. Provide finish grading leaving surface uniform without depressions and undulations, graded approximately 1 1/2-inch below paving.			installation, mainten
		C. Secure approval from the Landscape Architect prior to proceeding with grassing or planting operations.			shall be interpreted
d		D. It is the landscape contractors responsibility to verify finish grade elevations prior to final landscape and irrigation installation. Failure to verify finish			the owner.
		grade elevations may result in rejection of all installed elements and replacement of plant materials, irrigation etc. after grading remediation at no		D.	If disputes arise as
		cost to the Owner.			Landscape Architect
	3.4	HERBICIDE:		E.	Report any discrepa
bl		A. Apply herbicide to remove any remaining weeds. This work is to be performed by a licensed pesticide applicator following the manufacturer's			PROCEEDING with p
		recommendations.			The contractor shall
S	3.5	FERTILIZER:		G.	The contractor shall
		A. Place first application with hydromulch at rate of 12 pounds per 1,000 square feet.			within twenty-four (
		B. Uniformly distribute second application using a rotary type fertilizer spreader 3-4 weeks after first application at 12 pounds per 1,000 square feet.		н.	It is the contractors
е	3.6	HYDROMULCH / SEEDING (if applicable and called for in the contract documents):			will make the contra
		A. At the time of hydromulch/seeding, soil shall be moist but not muddy, and wind velocity shall not exceed ten (10) miles per hour. Add water if		101	contractor at no add
		required to moisten soil.	1.4		CONDITIONS:
		B. Hydromulch seed uniformly at the rate of 2 pounds of Bermuda Grass seed per 1,000 square feet or other rate as specified on plans.		А.	Contractor shall acq
		C. Add tackifier to hydromulch mix for slopes 5:1 or greater at the rate of 1 lb. per bag of mulch.			department, power
		D. Use a 4' x 8' batter board against bed areas.			operation and prior to penalties there to ar
d	3.7	MECHANICAL SEEDING (if applicable and called for in the contract documents):			
		A. Seed uniformly at a rate 125 pounds of Bermuda Grass seed per acre. Use grass drill, brillion seeder, or viking roller.			Landscape Architect

- A. SOLID SOD: Plant grass by hand, edge to edge with staggered joints. Top dress with sharp sand raked in carefully to fill joints. Roll to eliminate undulations and provide complete soil contact. All grass installed during the winter months (September-April) shall be overseeded before installation (not overseeded at site.)
- 3.9 ESTABLISHMENT AND MAINTENANCE OF LAWN AREAS:

A. WATERING:

- 1. Water lawn areas immediately after grassing operation.
- 2. Continue watering as required to keep soil uniformly moist to a minimum depth of four (4) inches.
- 3. Be alert to over-watering newly planted grass, particularly in heavy clay soils.
- B. REPLANTING / EROSION CONTROL:
- 1. Correct any erosion that may occur during the establishment of grass.
- 2. Reseed (sod) any areas not showing sufficient growth within 3 weeks after initial grassing. Continue seeding (sodding) until a stand of grass is achieved at no additional cost to the project.
- 3. A stand of grass will be defined as a uniform cover of actively growing turf.
- C. MOWING/WEED CONTROL:
- 1. Mow lawn areas weekly until a stand of grass is achieved. Begin mowing when the lawn reaches a height of 3-inches set mower to cut at 2-inches. a minimum of two mowings is required.
- 2. Weed lawn areas until acceptance, removing all foreign vegetation, either by hoeing or pulling. If approved by the Landscape Architect, herbicide spot treatments may be used.

3.10 CLEANUP:

A. During work, keep premises neat and orderly, including organization of storage areas. Remove trash, including debris resulting from removing weeds and rocks from site daily as work progresses. Keep paved areas clean by sweeping or hosing.

END OF SECTION

Stantec



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E AND CONSTRUCTION NOTES (SITE & CONSTRUCTION NOTES)

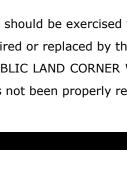
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- acceptance" thereof.
- ORMANCE:

- r (24) hours.

- Series 600 Indices
- activities.
- prior to any burn.

- noted.



struction are defined by the "Project Limit Line" as noted on the contract documents. materials and equipment for complete installation of all design elements as indicated on the contract drawings and specified

conformance with industry standard trade practices as outlined in CSI Standards unless otherwise noted or amended on the

nstruction shall comply with the Americans with Disabilities Act (ADA) and the ADA Compliance Handbook, latest edition. The also comply with The Florida Building Code and The Florida Accessibility Code for projects located within the State of Florida. change or deviation from these plans without prior written approval by the Landscape Architect.

ING SUBMITTALS: The contractor and its subcontractors must demonstrate the way by which they propose to conform to the given and the design concept expressed in the contract documents in a means that clearly denotes manufacturer/model, use, lication and conformance via drawings, diagrams, schedules and other data as applicable for the Landscape Architect's review for

or and its subcontractors shall not be relieved of responsibility for deviations from the requirements of the contract documents or esponsibility for errors or omissions in shop drawings, product data, samples, or similar submittals by the Landscape Architect's

is contract shall be performed in accordance with the project schedule as defined by the Owner or authorized representative.

t the landscape contractor will be licensed and insured within the state or municipality where the work is being performed.

workmen shall be neat in appearance, perform their work in a professional manner, keep noise to a minimum and stage their work n the site out of the way of the mainstream of the uses. In general, the contractor's presence on the site shall be as inconspicuous

pirit of these Contract Documents is to provide a guideline for the contractor to follow in order to provide Owner with services of y. Where the contract documents refers to "as-needed" or "as-required" the intent is for the contractor to perform all necessary tenance, and protection of all built work services at the highest possible quality level. Nothing contained within these documents ed as relieving the contractor of its responsibility to perform the work in a professional manner and to the complete satisfaction of

as to the quality of the services performed between the contractor and the Owner (or Owners Designated Representative), the ect shall make the final determination of all responsibilities and remedies.

epancies between the contract documents and field conditions to the Landscape Architect immediately for resolution PRIOR TO procurement, installation, or construction.

all comply with all federal environmental protection, state, and local water quality standards.

nall answer emergency or complaint calls regarding all site works within eight (8) hours and corrective action shall be complete

prs responsibility to fully secure all materials, tools, machinery, etc. when delivered to or stored at the project site. Failure to do so ntractor liable for any and all damages or theft there to arising from its operations and shall be immediately corrected by the additional cost to the project.

acquaint himself with all site conditions. Should excavation be required, the contractor shall promptly notify the local public works er company, and any other utilities (gas companies, cable tv, phone, etc.) forty-eight (48) hours minimum prior to construction or to any connection to existing utility locations. Failure to do so will make the contractor liable for any and all damage, costs, and arising from its operations. It is the contractors responsibility to protect existing utilities from damage. Report any conflicts to the ect within two (2) business days for resolution prior to construction.

B. The contractor shall comply with Florida State Statute 553.81 "Protection of Underground Pipelines" for projects located within the State of Florida. C. Contractor shall provide traffic control during construction in accordance with the Federal Highway Administration Manual of Uniform Traffic Control Devices, millennium edition, and the Florida Department of Transportation Design Standards, latest edition, Traffic Control Through Work Zones

1. Any maintenance of traffic needs by the landscape contractor shall be coordinated with the general contractor and ongoing construction

D. All clearing and grubbing debris is to be burned or removed from site and is part of the clearing and grubbing task. A BURN PERMIT IS REQUIRED FROM THE LOCAL ENVIRONMENTAL MANAGEMENT DEPARTMENT IF BURNING IS TO OCCUR. All burning shall be done in compliance with local and governmental ordinances and restrictions regarding open fire sources. Notify the local fire department or fire control services forty-eight (48) hours

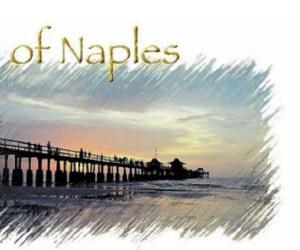
E. Where excavations are in close proximity of trees, the contractor shall use extreme care in not damaging the root system. No equipment, supplies, or vehicles shall be stored or parked within the drip line of trees to remain and be preserved. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.

F. Certain trees may be designated by the Owner and/or the Landscape Architect to be saved and protected by the contractor. It is assumed these trees are healthy and are expected to be part of the landscape development or protected by code requirements. Therefore, if any tree(s) are damaged by construction operations or by other means (excluding lightning, windstorm and other acts of god) and perishes within the construction period, it shall be the responsibility of the contractor to remove and dispose of those trees. Approval from the Landscape Architect and Owner is required prior to removal of any trees designated to remain. No additional compensation shall be made by the owner for the labor, material, or machinery required to remove said tree(s). Furthermore, the Owner may seek compensation from the contractor if the damage and/or death of the tree(s) is due to the contractor's negligence as determined by the Landscape Architect.

G. All existing site furnishings, paving, landscape and other elements designated to remain shall be protected from any damage unless otherwise

H. Caution should be exercised while working near existing at grade and/or overhead signs to prevent unnecessary damage. Signs and structures shall be repaired or replaced by the contractor at the contractor's expense if any are damaged as determined by the Landscape Architect and/or Owner. I. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the project surveyor without delay.

Title



Landscape General Notes / General Site and Construction Notes

Project No. 177310606

Scale

N/A

Drawing No.

LP004

Revision

		Contractor and its subcontractors shall clean all work areas at the end of each working day. Rubbish and debris shall be collected and deposited off-site daily. All materials, products and equipment shall be stored in an organized fashion and in a designated area as directed by the Landscape Architect and/or Owner. These plans are provided for the purposes of the Landscape Architecture design intent and specific project scope of services. These plans are	6.1.
		intended to be coordinated with other project design professions (architecture, civil, M/E/P, structural, aquatics, etc.) and should be used in conjunction with those professions to develop the full contract document package. For information regarding those professions, please refer to the appropriate plan sheets.	
	L.	These drawings may include information provided by others. The Landscape Architect has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated within these contract documents as a result. The location of the utilities shown in the plans are approximate only. The exact location shall be determined by the contractor prior to construction. All plantings may be subject to adjustment by the Landscape Architect to avoid conflicts with utilities and minor utilities may be adjusted at the direction of the Landscape Architect and/or Owner.	
	м.	The contractor shall verify all plant counts and report any discrepancies to the Landscape Architect PRIOR TO procurement, delivery, and/or construction.	
1.5		UIRED COORDINATION OF JOB CONDITIONS AND LANDSCAPE WORK: Contractor and its subcontractors shall be responsible to replace all portions of existing lawn areas damaged during or caused by construction	
		activities with same grass species to the satisfaction of the Landscape Architect and/or Owner at no additional cost to the project. Any rutting	
	_	created by the treads or tires of equipment shall be re-graded prior to grass replacement.	
	В.	Contractor shall take necessary precautions to protect site conditions, irrigation and plants. Should damage be incurred, the contractor shall repair damage at its expense to its original condition or furnish and install equal replacement as determined by the Landscape Architect.	
		Contractor and its subcontractors shall re-grade all areas disturbed by plant removal, relocation and/or installation work. Contractor shall replace (by equal size and quality) any and all existing plant material disturbed or damaged by plant removal, relocation, and/or installation work. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, preserve areas within and adjoining the area of construction activity shall be protected by	
		erection of tree protection barricades and/or silt barriers. Tree protection barricades shall meet the standards of the local Land Development Code	
		(LDC). Silt barriers shall be constructed in accordance with the best management practices.	
	E.	The locations of plants, as shown in these plans, are approximate. The final locations may be adjusted to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed by, or approved by, the Landscape	
		Architect. Determination of final location and subsequent changes to meet these criteria if necessary shall not incur additional project costs.	
	F.	Contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/or existing above ground elements. Any adjustment necessary shall be documented and brought to the Landscape Architect's attention as soon as practical. Any	
	G.	adjustment greater than eight (8) feet shall be done under the approval and/or supervision of the Landscape Architect. All proposed ground elevations in landscape areas are finished sod elevations. Finish earthwork grading shall be three (3) inches below elevations	
		shown to allow for sod and topsoil thickness.	
	н.	Sodding includes maintaining slopes and sod until completion and acceptance of total project or growth is established, whichever comes last. Until then, all erosion, silt control, and maintenance of grades and grass is the responsibility of the contractor. Where erosion, siltation, and loss of grade has become apparent as determined by the Landscape Architect, the contractor shall correct all occurrences at no additional cost to the project.	
	I.	All landscape materials shall be maintained to provide continuous clear zones for sight visibility for pedestrian and vehicular traffic and landscape	
	_	maintenance shall conform to standards set forth in FDOT Roadway and Traffic Design Standards, latest edition, Series 500 Indices.	
	J.	The contractor of record shall ensure that installation in medians and rights of ways conforms to criteria set forth in FDOT Roadway and Traffic Design Standards, latest edition.	
	К.	The following guidelines shall be utilized to ensure successful transplanting of trees:	
		 Any tree being relocated shall not be unnecessarily damaged during removal, transport or replanting of that tree. During and following transplanting, the root ball shall be kept moist at all times. 	
		3. Transplanted trees shall be braced for at least one (1) year.	
		4. Transplanted trees shall not be fertilized at planting time, but shall be watered sufficiently until the tree growth is re-established.	
		5. All crown pruning shall be done in accordance with National Arborist Association Standards or palm pruning in accordance with city/county standards and/or the standards listed in "Arboriculture Second Edition" by Richard W. Harris, as amended.	
	L.	All existing trees to remain shall be protected by installing protective barriers around the drip line of trees. The protective barriers shall be seen easily by operators of trucks and other equipment. Protective barriers shall be constructed of sturdy materials (not flagging or ribbons) and shall be	
		installed prior to and during construction and/or land development. All existing planting shall remain intact and undisturbed unless otherwise noted on the plans. Contractor shall install a 4.0' height orange nylon or chain link type fence affixed with ties, nails or staples to sturdy posts (metal fence stakes or 2x4 wood, set to a depth of 2'-6" minimum) surrounding all existing vegetation and/or vegetation to be protected and relocated.	
		Contractor shall continuously maintain the fence for the duration of construction and repair or replace damaged or fallen sections as necessary. Fence to be installed in the critical protection zone - the area surrounding a tree within a circle described by a radius of one (1) foot for each inch of	
		tree trunk diameter measured at 54" above finished grade (for groups of trees, locate fence between trees and construction activity). the fence	
		shall be located to protect a minimum of 75% of the critical protection zone. Shrubs and groundcover vegetation shall have a minimum 5.0' buffer between fence and construction zone. No construction debris, vehicles, chemicals, or other construction activity shall be allowed within the root zone and/or critical protection zone:	
		 DO NOT STORE OR USE MATERIALS OR EQUIPMENT WITHIN THE DRIP LINE OF ANY TREE to be relocated or to remain in place on site unless the activity is being done to protect the trees. 	
		2. DO NOT DISCHARGE OR CONTAMINATE THE SOIL WITHIN THE DRIP LINE OF ANY TREE to be relocated or to remain on site with any	
		construction materials such as paint, oil, solvents, petroleum products, asphalt, concrete, mortar, or other materials that may cause adverse	
		impacts. The contractor and its subcontractors Failure to do so will make the contractor shall be responsible for protecting and enforcing these requirements. liable for any and all damages there to arising from its operations and shall be immediately corrected by the contractor at no	
		additional cost to the project. Furthermore, the Owner may seek replacement of tree(s) of same species and physical specifications or other	
		compensation from the contractor if the damage and/or death of the tree(s) is due to the contractor's negligence as determined by the	
		Landscape Architect.	
		3. Clearing of vegetation within the drip line of trees designated for preservation shall be performed cautiously with hand tools only as to minimize the adverse impacts that may cause damage to tree roots while operating heavy equipment.	
		4. Make no attachments, other than those of a protective and non-damaging nature, to any tree to be retained on the site.	
		5. Natural grade above the root system within the drip line of any preserved trees disturbed during construction shall be returned to its original	
	М.	grade after construction. Xeriscape principles as outlined in the South Florida Water Management District Xeriscape Plant Guide 2 shall be applied throughout landscape	
		installation and maintenance for projects within the State of Florida.	
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Revision

Naples, FL 34105 www.stantec.com

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90% CD Submittal - Owner Directed Changes

90% CD Submittal

By Appd. YY.MM.DD

- N. Stantec Consulting Services Inc. supports a robust organizational safety culture encompassing Health, Safety, Security, and Environment (HSSE). Stantec Consulting Services Inc. reserves the right of their employees to follow Safe Work Practices and identify and limit their exposure to hazards in the work environment. Stantec Representatives are authorized and obligated to stop their own work activities, remove themselves from the hazardous environment, and report to their supervisor, the Client, and/or Prime Contractor an unsafe action, behavior, omission, or non-action of any party potentially leading to injury or damage so they can take prompt action. Work that has ceased due to a Stop Work order shall not be resumed until all safety aspects are cleared to the satisfaction of their supervisor and/or Stantec Corporate HSSE Manager. Should the project site be inaccessible to field staff for any reason outside of Stantec's control, and to the extent that there are cost or schedule impacts resulting from access restrictions, Stantec shall be entitled to an equitable change order and schedule relief. The Client and Prime Contractor agree that there shall be no blame, fault, or penalty of any type on any employee who follows this process and stops work (or notifies others to stop work if authorized to do so) in good faith, even if, upon investigation, the work stoppage was deemed unnecessary.
- O. It is expected that the Prime Contractor and its sub-consultants will identify and make aware to Stantec field staff any current or upcoming operations associated with chemical, physical, ergonomic, biologic, or environmental hazards prior to staff's commencement of project site activities. The Prime Contractor will also keep current, recommend, and maintain appropriate construction site PPE notifications. Hazardous project site activities are described as, but not limited to heavy equipment use, demolition, storage areas of hazardous or caustic materials, locations of ground disturbance, excavation, and fall areas, handling and remediation of chemicals, a change in traffic MOT, wildlife encounters, areas of venting and chemical off-gassing, overhead or underground electrical exposure, gray or waste water contamination, pesticide or herbicide applications, etc.

END OF SECTION

IRRIGATION NOTES and GENERAL REQUIREMENTS (COLLIER COUNTY)

- 1.1 NOTES AND REQUIREMENTS:

 - shrubs, groundcovers, grasses, and turf.

 - constraints.
 - application.

SCHEMATIC SPRAY HEAD LAYOUT N.T.S. 4-6" POP-UP SPRINKLER BODY, INSTALLED FLUSH WITH FINISH GROUND SURFACE, WITH NOZZLE CAPABLE OF 180° SPRAY PATTERN AND 15' RADIUS-, 7.5' ⊨ 15' ______ SPRAY COVERAGE USE FULL HEADS AND MULTIPLE BAYS IN WIDER AREAS SCHEMATIC IRRIGATION ZONE LAYOUT N.T.S. BUILDING/ STRUCTURE SHRUB IRRIGATION ZONE (DRIP.BUBBLERS SHRVB AREA - STREAM BUBBLERS ,ETC) TURF IRRIGATION SOD AREA <u>♥──♥──♥</u> ⊻∙╧╲╧∙╧╌╧╸╧╌╧╸╧╌╧┑╧╴╧┑ SHRUB AREA BUILDING/ ZONE (DRIP, BUBBLERS STRUCTURE STREAM BUBBLERS, ETC)





ZONE-



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Erickson Consulting Engineers (ECE) without delay.

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A. A fully automatic irrigation system with a controller and applicable moisture (rain) sensor located to receive direct rainfall will be provided. Proposed irrigations system to be retrofit as additive to existing layout, supply, etc. as required to make the system operational.

B. All plantings shall have 100% full coverage with irrigation. Provide one (1) bubbler per tree and/or palm tree and drip or spray mechanisms for

C. Quantities and locations of valves may vary on area of coverage and zones required.

D. This irrigation plan is schematic in nature and intended for the approval process only - NOT FOR CONSTRUCTION. Detailed irrigation design and plans will be necessary and provided at Construction Documents issue.

E. Valve sizing, detailing, and main line routing may be adjusted by the Landscape Architect to accommodate needs of the landscape design and site

F. The Landscape Architect may choose to use drip, bubblers, stream bubblers, or spray irrigation in shrub areas for best efficiency of water

G. The irrigation system will operate with separate valve zones for turf areas and shrub planting areas where efficiency of separation allows. The controller will be set to operate appropriate run times for the various zones and their required precipitation needs in accordance with best management practices for irrigation of Florida landscapes.

H. The irrigation system will be designed to minimize the application of water to impervious areas, adjacent properties, and existing vegetation.

I. Irrigation shall be installed to meet or exceed Appendix F - "Proposed Construction Building Codes for Turf and Landscape Irrigation Systems" of the Florida Building Code, Plumbing (Latest Edition), and in accordance with ASTM D2855.

Title Landscape General Notes / General Site and Construction Notes

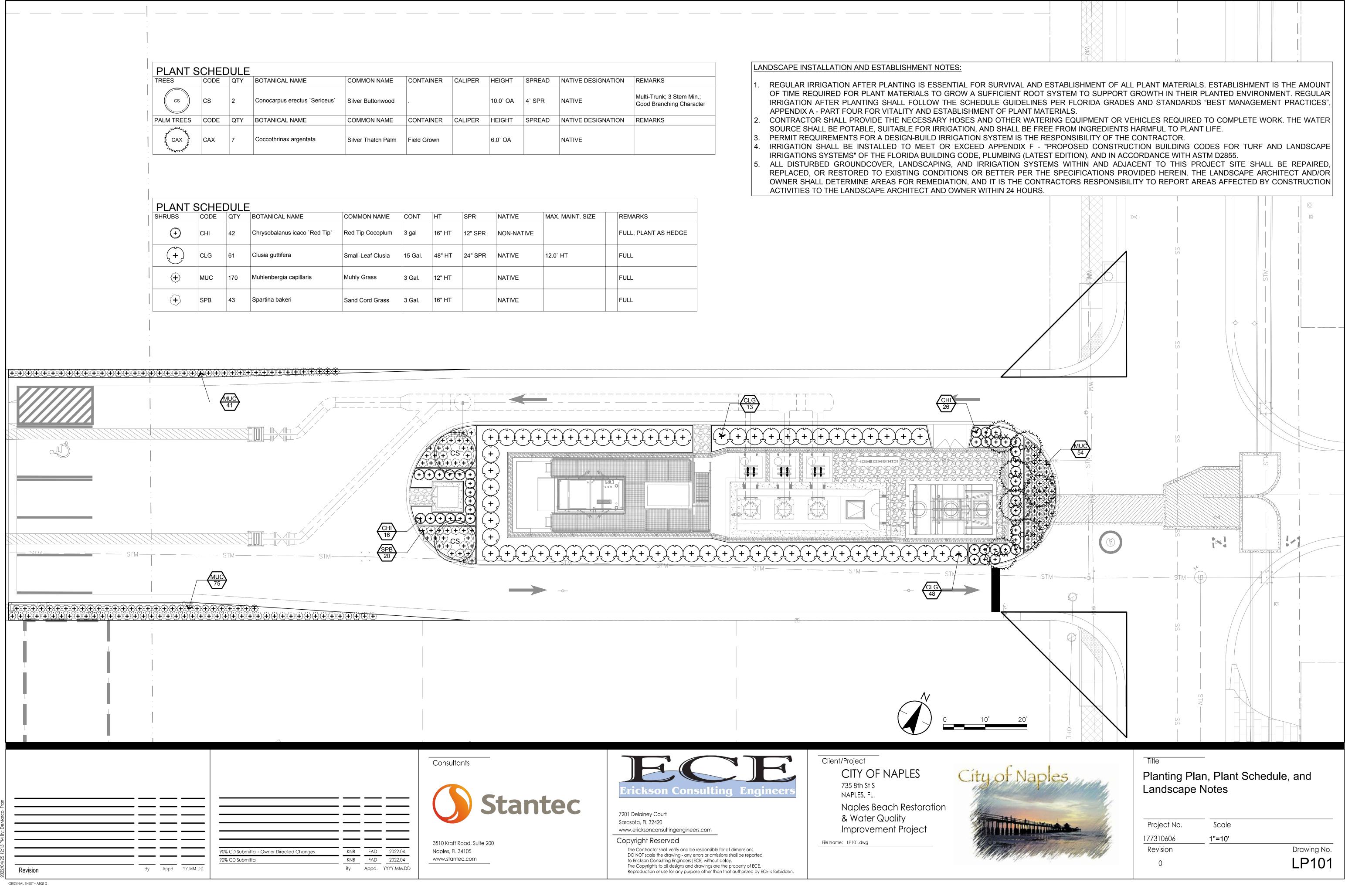
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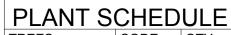
IPER	HEIGHT	SPREAD	NATIVE DESIGNATION	REMARKS
	10.0` OA	4` SPR	NATIVE	Multi-Trunk; 3 Stem Min.; Good Branching Character
IPER	HEIGHT	SPREAD	NATIVE DESIGNATION	REMARKS
	6.0` OA		NATIVE	

SPR	NATIVE	MAX. MAINT. SIZE	REMARKS
12" SPR	NON-NATIVE		FULL; PLANT AS HEDGE
24" SPR	NATIVE	12.0` HT	FULL
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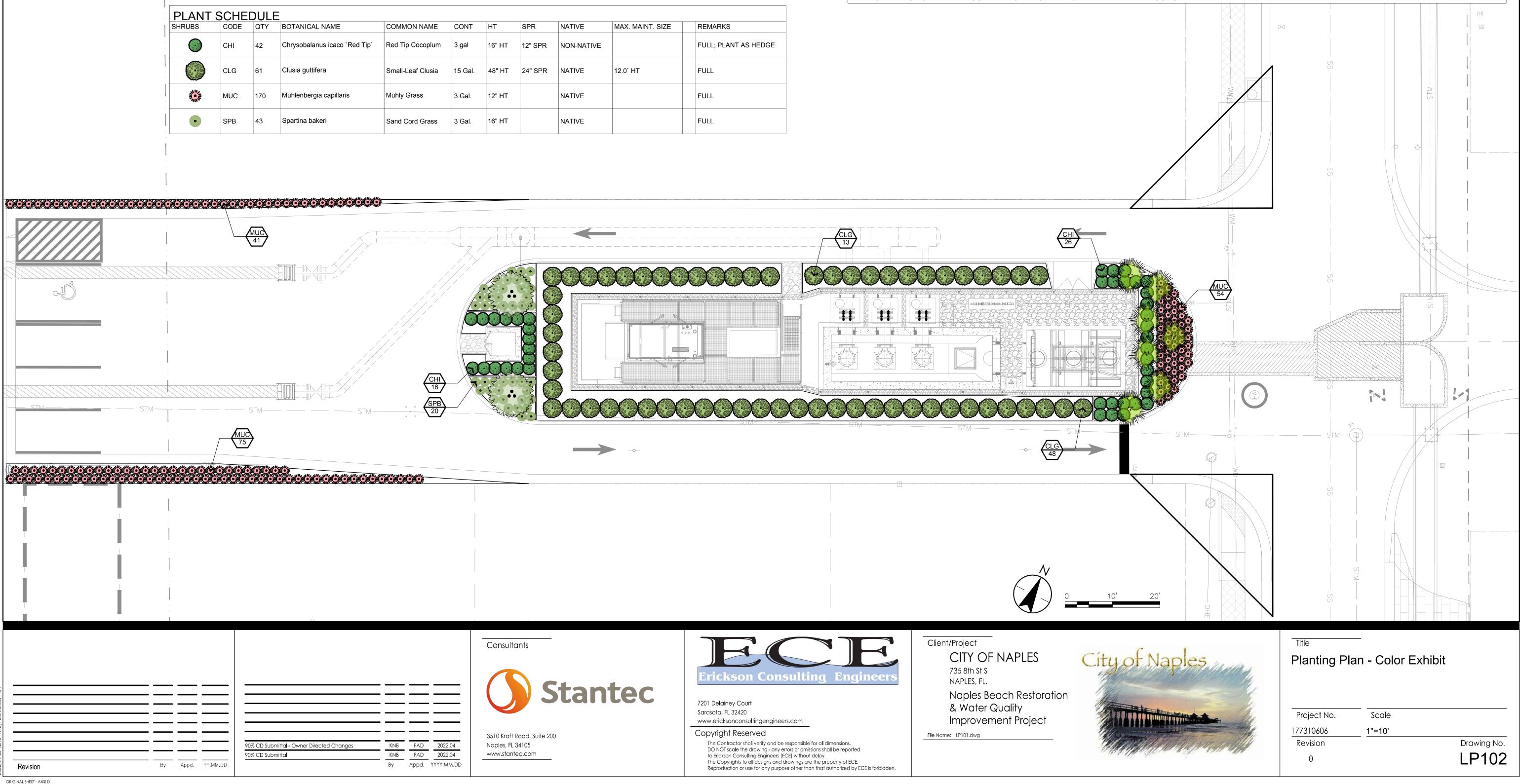
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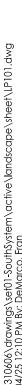
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¦ PL	ANT S	CHED	ULE								
TREE	S	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD	NATIVE DESIGNATION	REMARKS
. 5	Marina and a start and a start	CS	2	Conocarpus erectus `Sericeus`	Silver Buttonwood			10.0` OA	4` SPR	NATIVE	Multi-Trunk; 3 Stem Min.; Good Branching Character
PALM	1 TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD	NATIVE DESIGNATION	REMARKS
		CAX	7	Coccothrinax argentata	Silver Thatch Palm	Field Grown		6.0` OA		NATIVE	

PLANT S	SCHE	DULE								
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HT	SPR	NATIVE	MAX. MAINT. SIZE	REMARKS
\odot	СНІ	42	Chrysobalanus icaco `Red Tip`	Red Tip Cocoplum	3 gal	16" HT	12" SPR	NON-NATIVE		FULL; PLANT AS HEDGE
	CLG	61	Clusia guttifera	Small-Leaf Clusia	15 Gal.	48" HT	24" SPR	NATIVE	12.0` HT	FULL
	MUC	170	Muhlenbergia capillaris	Muhly Grass	3 Gal.	12" HT		NATIVE		FULL
•	SPB	43	Spartina bakeri	Sand Cord Grass	3 Gal.	16" HT		NATIVE		FULL





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LANDSCAPE INSTALLATION AND ESTABLISHMENT NOTES:

- APPENDIX A PART FOUR FOR VITALITY AND ESTABLISHMENT OF PLANT MATERIALS.
- 3. PERMIT REQUIREMENTS FOR A DESIGN-BUILD IRRIGATION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ACTIVITIES TO THE LANDSCAPE ARCHITECT AND OWNER WITHIN 24 HOURS.

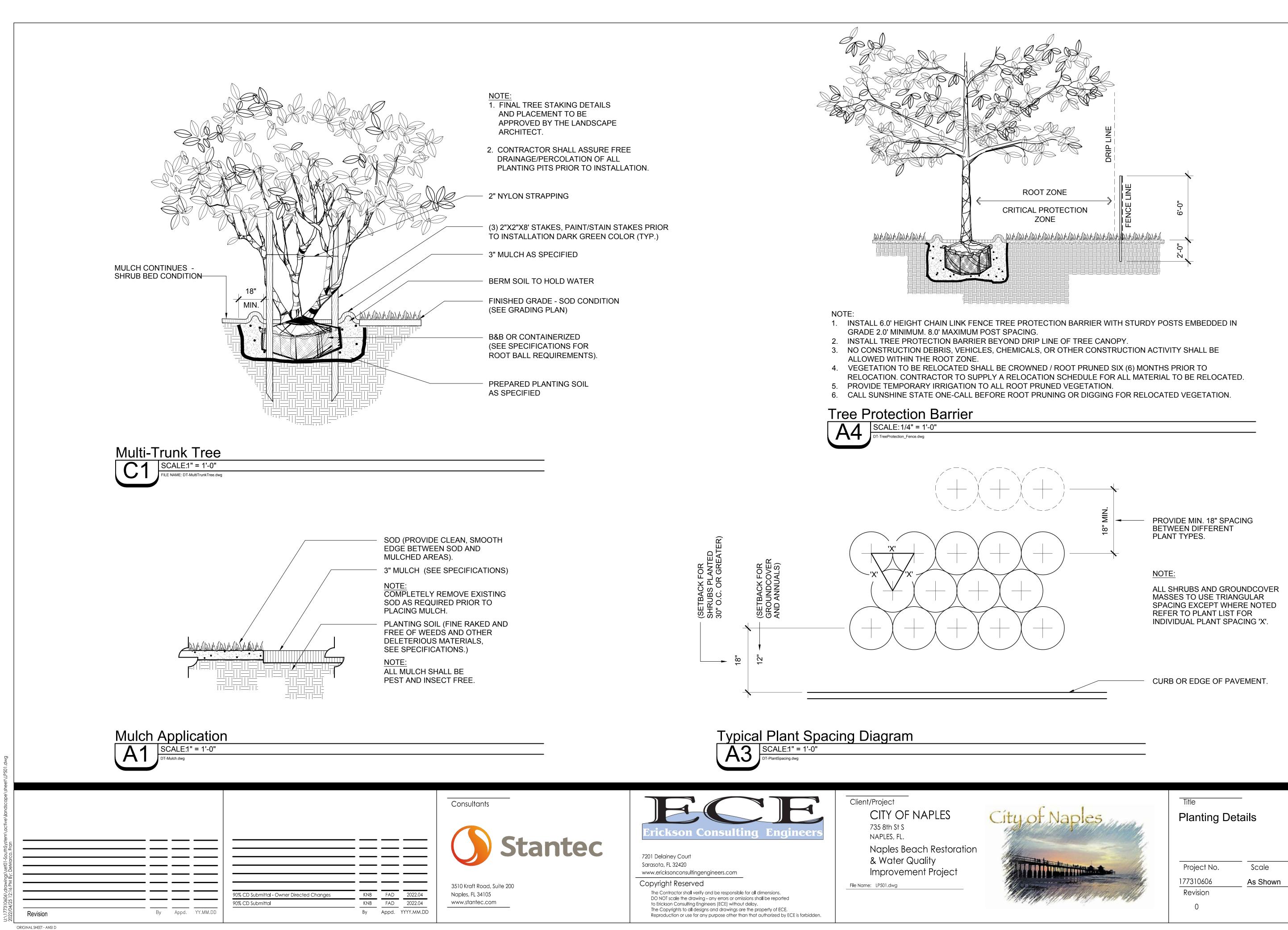
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REGULAR IRRIGATION AFTER PLANTING IS ESSENTIAL FOR SURVIVAL AND ESTABLISHMENT OF ALL PLANT MATERIALS. ESTABLISHMENT IS THE AMOUNT OF TIME REQUIRED FOR PLANT MATERIALS TO GROW A SUFFICIENT ROOT SYSTEM TO SUPPORT GROWTH IN THEIR PLANTED ENVIRONMENT. REGULAR IRRIGATION AFTER PLANTING SHALL FOLLOW THE SCHEDULE GUIDELINES PER FLORIDA GRADES AND STANDARDS "BEST MANAGEMENT PRACTICES",

2. CONTRACTOR SHALL PROVIDE THE NECESSARY HOSES AND OTHER WATERING EQUIPMENT OR VEHICLES REQUIRED TO COMPLETE WORK. THE WATER SOURCE SHALL BE POTABLE, SUITABLE FOR IRRIGATION, AND SHALL BE FREE FROM INGREDIENTS HARMFUL TO PLANT LIFE.

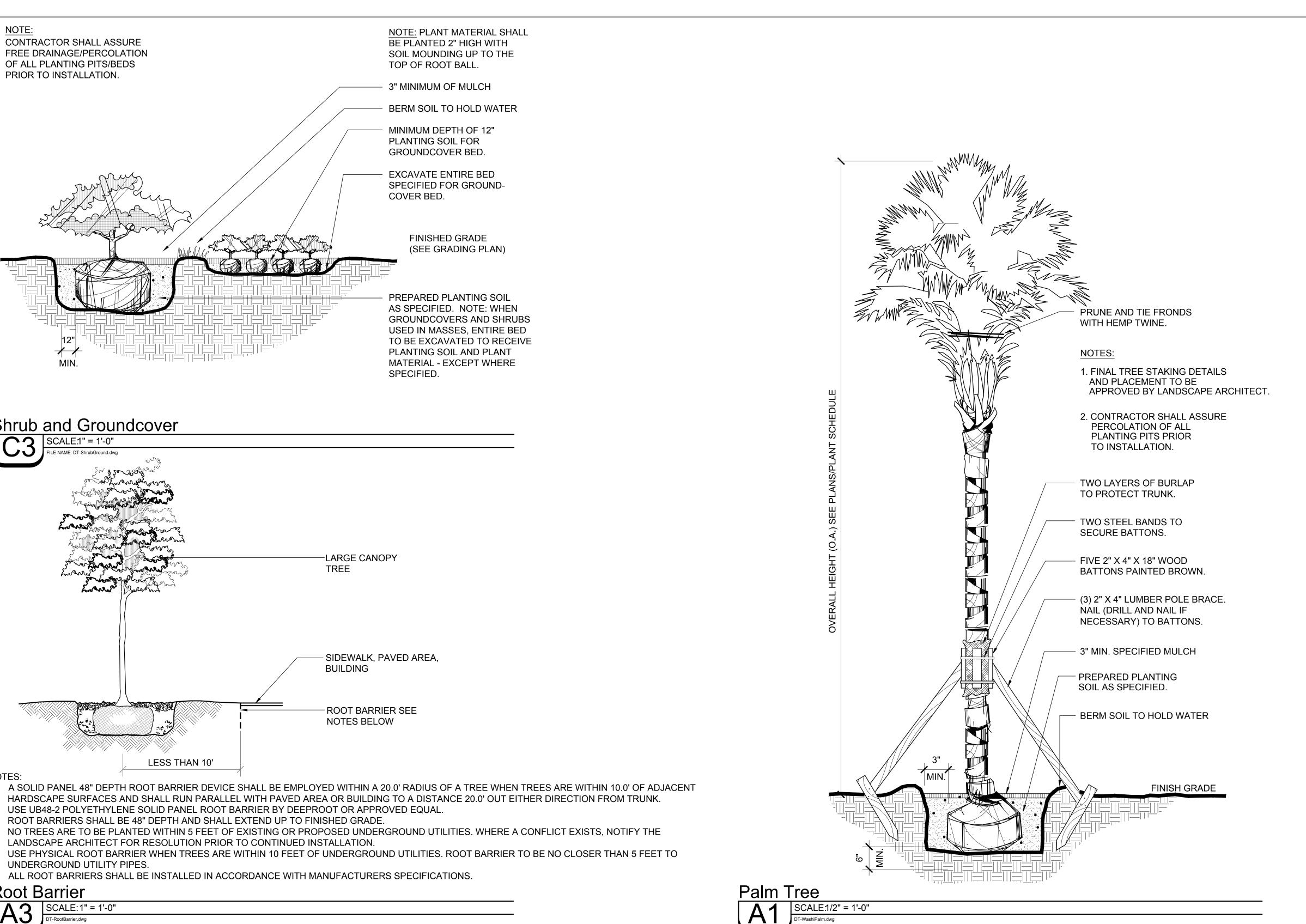
IRRIGATION SHALL BE INSTALLED TO MEET OR EXCEED APPENDIX F - "PROPOSED CONSTRUCTION BUILDING CODES FOR TURF AND LANDSCAPE IRRIGATIONS SYSTEMS" OF THE FLORIDA BUILDING CODE, PLUMBING (LATEST EDITION), AND IN ACCORDANCE WITH ASTM D2855.

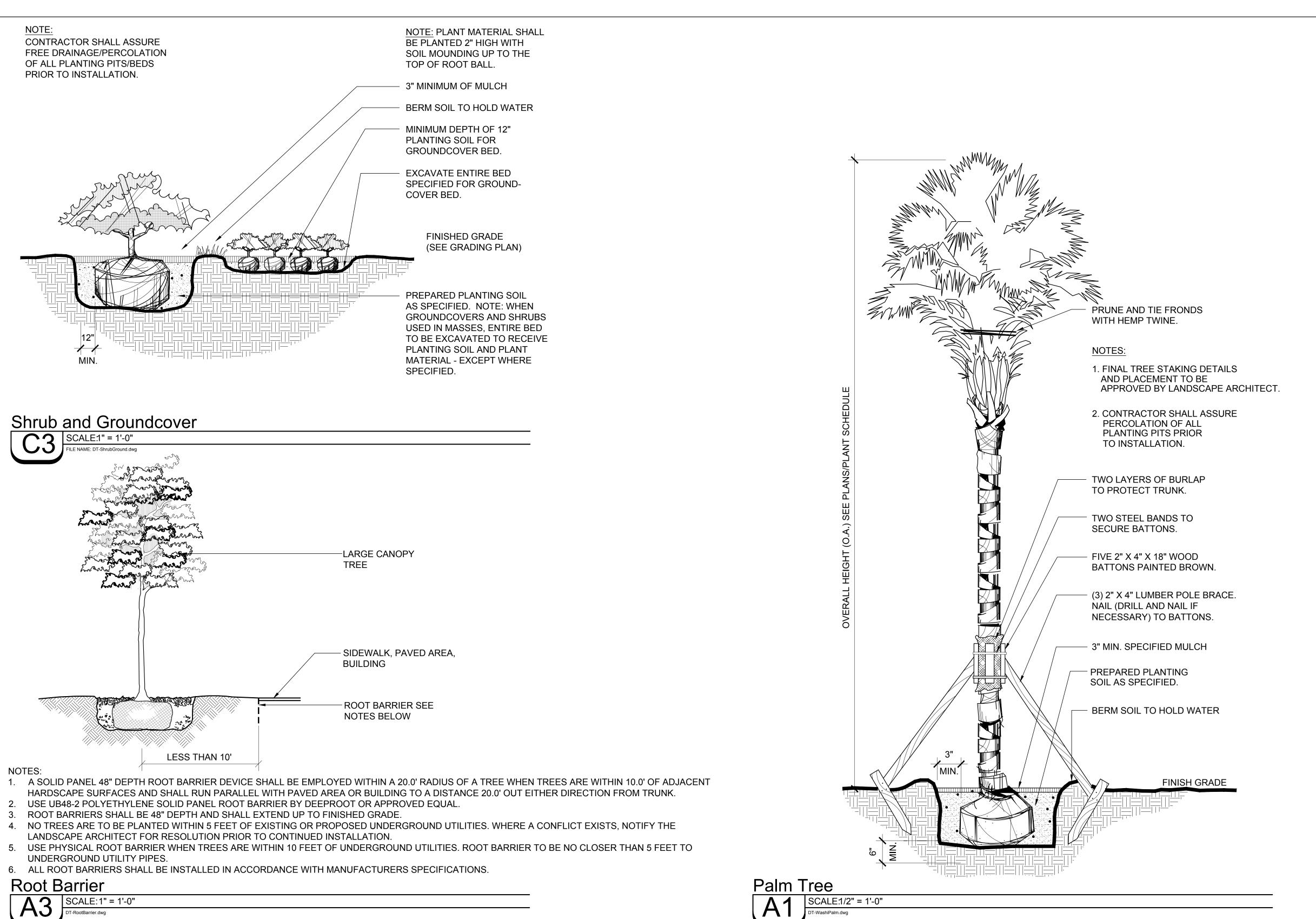
ALL DISTURBED GROUNDCOVER, LANDSCAPING, AND IRRIGATION SYSTEMS WITHIN AND ADJACENT TO THIS PROJECT SITE SHALL BE REPAIRED. REPLACED, OR RESTORED TO EXISTING CONDITIONS OR BETTER PER THE SPECIFICATIONS PROVIDED HEREIN. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DETERMINE AREAS FOR REMEDIATION, AND IT IS THE CONTRACTORS RESPONSIBILITY TO REPORT AREAS AFFECTED BY CONSTRUCTION



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NOTE:





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Sarasota, FL 32420 www.ericksonconsultingengineers.com

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