

ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT MANUAL, THIS DOCUMENT & THE CURRENT EDITION OF E.C.U.A.'S ENGINEERING MANUAL.

Hatch Mott MacDonald
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 LANDSCAPE ARCHITECTS
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CENTRAL WATER RECLAMATION FACILITY
 LIFSTATION B
 ESCAMBA COUNTY, FLORIDA
 EMERALD COAST UTILITIES AUTHORITY
 E.C.U.A. PROJECT NO. CS1418



DATE	REV.	REVISION DESCRIPTION
SEPTEMBER 2008	VVB	DESIGNED BY
	VVB	DRAWN BY
	V. BALDWIN	PROJECT LANDSCAPE ARCH.
	D. NECK	PROJECT MANAGER
	227905	H.M.A.F. PROJECT NUMBER
		DATE
		SCALE
		FLORIDA LICENSE NO.
		LAS666944

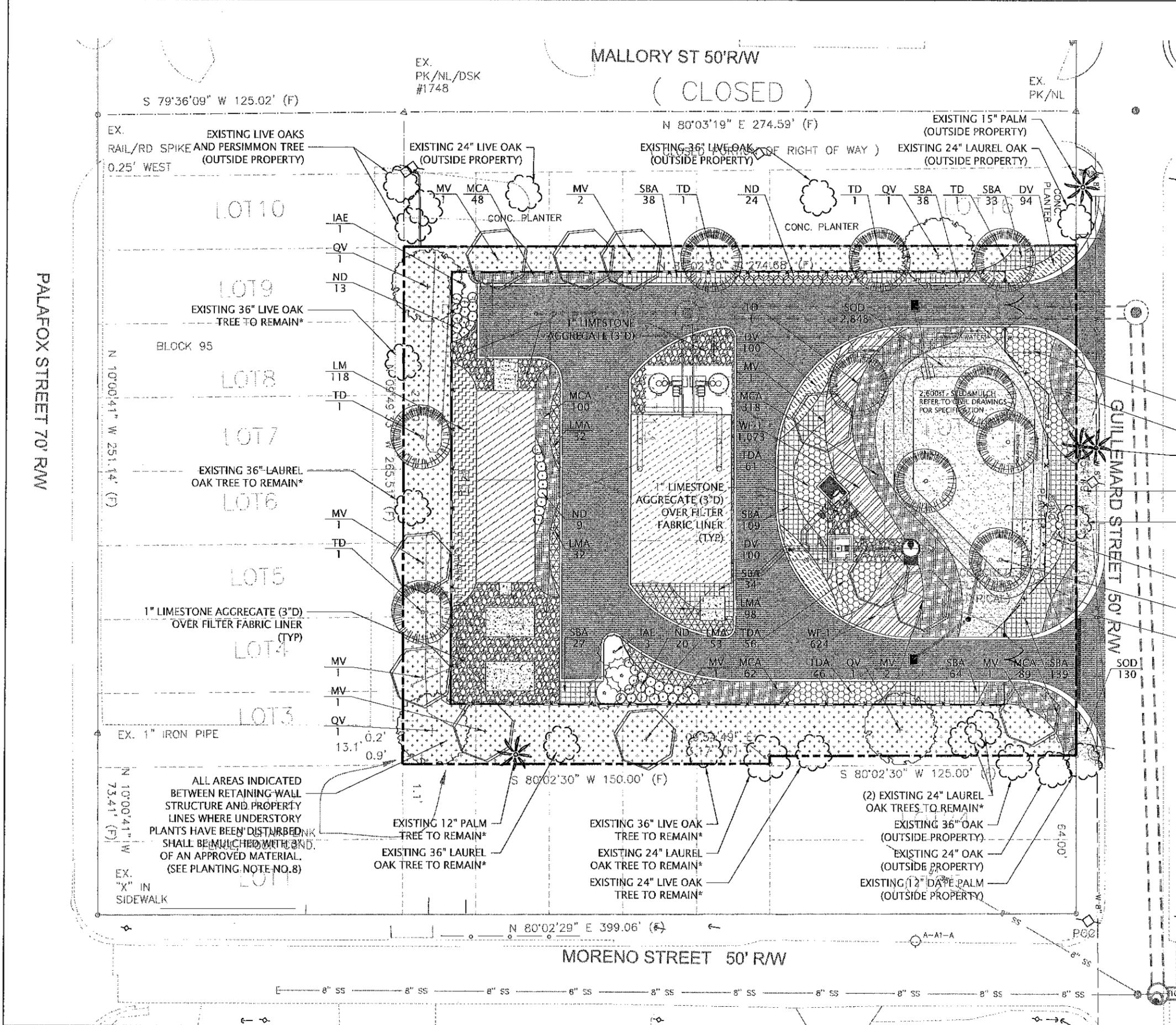
ISSUED FOR BID
 VANCE W. BALDWIN, R.L.A.
 DATE: 09/11/08
 FLORIDA LICENSE NO.: LAS666944

SHEET TITLE:
 LANDSCAPE PLAN

SHEET NUMBER:
 L1.0

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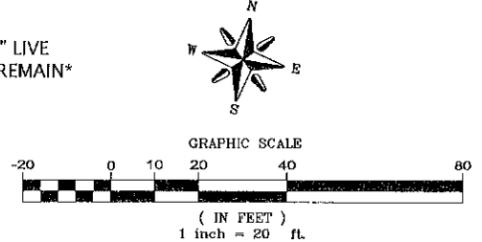
Memo St. RLS



IRRIGATION NOTE:
 AN IRRIGATION SYSTEM IS TO BE INSTALLED PROVIDING 100% COVERAGE FOR THE ENTIRE SITE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL, OR AT THE OWNER'S REQUEST, AN OUTLET WITH SCHEDULED SPRAY TIMES MAY BE PROVIDED, IN LIEU OF A PERMANENT UNDERGROUND IRRIGATION SYSTEM, WITH A MAINTENANCE AGREEMENT BETWEEN THE CONTRACTOR AND OWNER GUARANTEEING PLANT MATERIALS THROUGHOUT THE WARRANTY PERIOD.

***PRESERVATION NOTE:**
 CONTRACTOR SHALL NOTIFY PROJECT LANDSCAPE ARCHITECT AND ENGINEER OF CONDITIONS CONFLICTING WITH THE PRESERVATION OF TREES WHILE RETAINING WALL IS CONSTRUCTED.

- TDA 89
- MCA 54
- EXISTING 10" AND 24" PALM TREES TO REMAIN*
- SOD 833
- (2) EXISTING 12" LIVE OAK TREES TO REMAIN*
- TDA 28
- TD 4
- MCA 37
- SOD 130



C.W.R.F. LIFT STATION B
 CITY OF PENSACOLA LANDSCAPE REGULATIONS

GENERAL

PLANTING STANDARDS FOR ALL LANDSCAPE AREAS - GENERAL LANDSCAPE STANDARDS - SECTION 12-6-3 (A) LANDSCAPE AREA REQUIREMENTS

REQUIRED: THE MINIMUM PERCENTAGE OF THE TOTAL DEVELOPABLE SITE, WHICH SHALL BE DEVOTED TO LANDSCAPING, UNLESS OTHERWISE SPECIFIED IN THIS CHAPTER SHALL BE AS FOLLOWS: 20% FOR ZONING DISTRICT C-3.

PROVIDED: THE SITE IS ZONED C-3, APPROXIMATELY 62% OF THE DEVELOPABLE SITE AREA IS DEVOTED TO LANDSCAPING.

PLANTING STANDARDS FOR ALL LANDSCAPE AREAS - PROTECTED TREES - SECTION 12-6-6 (B) RELOCATION, REMOVAL, AND REPLACEMENT OF PROTECTED TREES

WHEN A PROTECTED TREE IS APPROVED FOR REMOVAL, IT SHALL BE REPLACED WITH A LIKE SPECIES OF THE TREE REMOVED. THE PRESCRIBED NUMBER OF TREES SHALL BE PLANTED FOR EACH TREE REMOVED. THE MINIMUM DIAMETER OF A REPLACEMENT TREE SHALL BE THREE (3) INCHES (NINE AND FOUR-TENTHS (9.4) INCHES IN CIRCUMFERENCE, MEASURED ONE (1) FOOT ABOVE GRADE.

REQUIRED: A TRUNK DIAMETER OF 12" INCHES (37.6 INCHES IN CIRCUMFERENCE) TO 15" INCHES (59.6 INCHES IN CIRCUMFERENCE) - TWO TREES PLANTED FOR EACH ONE REMOVED.

PROVIDED: 1-18" DIAMETER LIVE OAK IS TO BE REMOVED, TWO TREES PLANTED FOR EACH TREE - 2 TREES TOTAL. TO BE REPLACED WITH 2 LIVE OAK TREES EACH AT 3" DIAMETER.

REQUIRED: A TRUNK DIAMETER OF 20" INCHES (62.8 INCHES IN CIRCUMFERENCE) TO 25" INCHES (91.0 INCHES IN CIRCUMFERENCE) - FOUR TREES PLANTED FOR EACH ONE REMOVED.

PROVIDED: 1-20" & 2-24" DIAMETER LIVE OAK AND 2-24" LAUREL OAK ARE TO BE REMOVED, FOUR TREES PLANTED FOR EACH TREE - 20 TREES TOTAL. TO BE REPLACED WITH 10 SWEETBAY MAGNOLIAS AND 10 BALD CYPRESS EACH AT 3" DIAMETER.

EMERALD COAST UTILITIES AUTHORITY (ECUA) WILL PROVIDE TREES FOR MITIGATION, TO THE GREATEST EXTENT POSSIBLE, AS REQUIRED BY SECTION 12-6-6 (B) OF THE PENSACOLA CODE OF ORDINANCES. TWENTY-TWO (22) TREES ARE TO BE REPLANTED ON-SITE FOR THE MITIGATION EFFORTS. THE PROPOSED TREES BEING PLANTED ARE OF A DIFFERENT SPECIES THAN THE TREES REMOVED, DUE TO THE FUNCTION OF THE SITE, NEW STORMWATER FACILITY AREA, AND LARGE VEHICLES MOVING ON-SITE NOT ALLOWING FOR SUFFICIENT SPACE TO PROVIDE THE SAME SPECIES.

PALAFIX STREET 70' R/W

GUILLEMARD STREET 50' R/W

MORENO STREET 50' R/W

MALLORY ST 50' R/W

(CLOSED)

LOT 10

LOT 9

LOT 8

LOT 7

LOT 6

LOT 5

LOT 4

LOT 3

S 79°36'09" W 125.02' (F)

N 80°03'19" E 274.59' (F)

EXISTING 15" PALM (OUTSIDE PROPERTY)

EXISTING 36" LIVE OAK TREE TO REMAIN*

EXISTING 36" LAUREL OAK TREE TO REMAIN*

1" LIMESTONE AGGREGATE (3"D) OVER FILTER FABRIC LINER (TYP)

ALL AREAS INDICATED BETWEEN RETAINING-WALL STRUCTURE AND PROPERTY LINES WHERE UNDERSTORY PLANTS HAVE BEEN DISTURBED SHALL BE MULCHED WITH 2" OF AN APPROVED MATERIAL. (SEE PLANTING NOTE NO.8)

EXISTING 12" PALM TREE TO REMAIN*

EXISTING 36" LAUREL OAK TREE TO REMAIN*

EXISTING 36" LIVE OAK TREE TO REMAIN*

EXISTING 24" LAUREL OAK TREE TO REMAIN*

EXISTING 24" LIVE OAK TREE TO REMAIN*

(2) EXISTING 24" LAUREL OAK TREES TO REMAIN*

EXISTING 36" OAK (OUTSIDE PROPERTY)

EXISTING 24" OAK (OUTSIDE PROPERTY)

EXISTING 12" DATE PALM (OUTSIDE PROPERTY)

EX. RAIL/RD SPIKE AND PERSIMMON TREE (OUTSIDE PROPERTY)

EXISTING 24" LIVE OAK (OUTSIDE PROPERTY)

EXISTING 36" LIVE OAK (OUTSIDE PROPERTY)

EXISTING 24" LAUREL OAK (OUTSIDE PROPERTY)

IAE

QV

ND

LM

TD

MV

TD

MV

MV

QV

13.1'

0.2'

0.9'

1.1'

EX. 1" IRON PIPE

EX. 8" IN SIDEWALK

EX. PK/NL/DSK #1748

EX. PK/NL

EX. 10" SS

EX. 8" SS

EX. 6" SS

EX. 4" SS

EX. 2" SS

EX. 1" SS

EX. 3/4" SS

EX. 1/2" SS

EX. 1/4" SS

EX. 1/8" SS

EX. 1/16" SS

EX. 1/32" SS

EX. 1/64" SS

EX. 1/128" SS

EX. 1/256" SS

EX. 1/512" SS

EX. 1/1024" SS

EX. 1/2048" SS

EX. 1/4096" SS

EX. 1/8192" SS

EX. 1/16384" SS

EX. 1/32768" SS

EX. 1/65536" SS

EX. 1/131072" SS

EX. 1/262144" SS

EX. 1/524288" SS

EX. 1/1048576" SS

EX. 1/2097152" SS

EX. 1/4194304" SS

EX. 1/8388608" SS

EX. 1/16777216" SS

EX. 1/33554432" SS

EX. 1/67108864" SS

EX. 1/134217728" SS

EX. 1/268435456" SS

EX. 1/536870912" SS

EX. 1/1073741824" SS

EX. 1/2147483648" SS

EX. 1/4294967296" SS

EX. 1/8589934592" SS

EX. 1/17179869184" SS

EX. 1/34359738368" SS

EX. 1/68719476736" SS

EX. 1/137438953472" SS

EX. 1/274877906944" SS

EX. 1/549755813888" SS

EX. 1/1099511627776" SS

EX. 1/2199023255552" SS

EX. 1/4398046511104" SS

EX. 1/8796093022208" SS

EX. 1/17592186044416" SS

EX. 1/35184372088832" SS

EX. 1/70368744177664" SS

EX. 1/140737488355328" SS

EX. 1/281474976710656" SS

EX. 1/562949953421312" SS

EX. 1/1125899906842624" SS

EX. 1/2251799813685248" SS

EX. 1/4503599627370496" SS

EX. 1/9007199254740992" SS

EX. 1/18014398519481984" SS

EX. 1/36028797038963968" SS

EX. 1/72057594077927936" SS

EX. 1/144115188155855872" SS

EX. 1/288230376311711744" SS

EX. 1/576460752623423488" SS

EX. 1/1152921505246846976" SS

EX. 1/2305843010493693952" SS

EX. 1/4611686020987387904" SS

EX. 1/9223372041974775808" SS

EX. 1/18446744083949551616" SS

EX. 1/36893488167899103232" SS

EX. 1/73786976335798206464" SS

EX. 1/147573952671596412928" SS

EX. 1/295147905343192825856" SS

EX. 1/590295810686385651712" SS

EX. 1/1180591621372771303424" SS

EX. 1/2361183242745542606848" SS

EX. 1/4722366485491085213696" SS

EX. 1/9444732970982170427392" SS

EX. 1/18889465941964340854784" SS

EX. 1/37778931883928681709568" SS

EX. 1/75557863767857363419136" SS

EX. 1/151115727535714726838272" SS

EX. 1/302231455071429453676544" SS

EX. 1/604462910142858907353088" SS

EX. 1/1208925820285717814706176" SS

EX. 1/2417851640571435629412352" SS

EX. 1/4835703281142871258824704" SS

EX. 1/9671406562285742517649408" SS

EX. 1/1934281312457148433529816" SS

EX. 1/3868562624914296867059632" SS

EX. 1/7737125249828593734119264" SS

EX. 1/15474250497657187482238528" SS

EX. 1/30948500995314374964477056" SS

EX. 1/61897001990628749928954112" SS

EX. 1/12379400398125749964188224" SS

EX. 1/24758800796251499323776448" SS

EX. 1/49517601592502998647552896" SS

EX. 1/99035203185005997295105792" SS

EX. 1/198070406370011985890211584" SS

EX. 1/396140812740023971780423168" SS

EX. 1/792281625480047943560846336" SS

EX. 1/1584563250960095887121692672" SS

EX. 1/3169126501920191774243385344" SS

EX. 1/6338253003840383548486770688" SS

EX. 1/12676506007680767096973541376" SS

EX. 1/25353012015361534193947082752" SS

EX. 1/50706024030723068387894165504" SS

EX. 1/101412048061446136775788331008" SS

EX. 1/202824096122892273551576662016" SS

EX. 1/405648192245784547103153324032" SS

EX. 1/811296384491569094206306648064" SS

EX. 1/162259276982313818841261296128" SS

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EX. 1/1298074215758510510710091690224" SS

EX. 1/2596148431517021021421818380448" SS

EX. 1/5192296863034042042843636760896" SS

EX. 1/10384593726068084085687273521792" SS

EX. 1/20769187452136168171374547043584" SS

PLANTING NOTES:

- PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL MARK THE AREA OF WORK WITH WHITE MARKING MATERIAL(S) AND THEN CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC. (SSOCOF) AT 1-800-432-4770 TO REQUEST EXCAVATION SITE "LOCATES" FOR UNDERGROUND FACILITIES (UTILITIES) PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", CHAPTER 556, FLORIDA STATUTES. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT PART VI, CHAPTER 553, FLORIDA STATUTES, THE FLORIDA AND FEDERAL PIPELINE SAFETY ACT, AND THE OSHA STANDARD 1926.651. UTILITY LINES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND AT NO COST TO THE PROJECT OWNER OR UTILITY OWNER.
- THE CONTRACTOR SHALL INSTALL ONLY PLANTS GRADED FLORIDA NO. 1 OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS" LATEST EDITION, (INCLUDING REVISIONS) AND THAT MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE. BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.
- THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL WITH SLOW RELEASE FERTILIZER AT THE RATE RECOMMENDED BY THE MANUFACTURER. TREES SHALL BE FERTILIZED WITH 20-5-10 (OR APPROVED EQUAL), AND SHRUBS AND GROUND COVER SHALL BE FERTILIZED WITH 14-7-14 (OR APPROVED EQUAL).
- THE CONTRACTOR SHALL APPLY A MYCORRHIZAL INOCULANT AND 100% ORGANIC STARTER FERTILIZER TO EACH NEW TREE PLANTED AND SHRUB/GROUNDCOVER BEDS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL APPLY PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
- THE CONTRACTOR SHALL APPLY SEED FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, I.E. MELALEUCA BARK, EUCALYPTUS BARK, PINE STRAW, ETC. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN, OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS.
- THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH CLOSELY ABUTTING JOINTS, ROLL AND FERTILIZE WITH A SLOW-RELEASE COMPLETE TURF FORMULA FERTILIZER AT THE MANUFACTURER'S RECOMMENDED RATE FOR THE SPECIFIED TURFGRASS BASED ON SOIL CONDITIONS AND MICROCLIMATE. PIN ALL SODDED SLOPES GREATER THAN 4:1 WITH BIODEGRADABLE SOD PINS OR STAPLES.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS. PROVIDE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS (I.E. APPROVED MULCH, FERTILIZER, ETC.), LABOR, ETC.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS SUCH AS COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE AND OTHERS SUCH AS IDENTIFIED, PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT OWNER/LANDSCAPE ARCHITECT APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL APPROVAL BY THE OWNER/LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.
- EACH TREE AND SHRUB SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL BE IN ACCORDANCE WITH ACCEPTED INDUSTRY PRACTICE AND SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT.
- PLANTS WITH BROKEN ROOT BALLS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.
- PLANTS SHALL BE HANDLED BY THE ROOT BALL, NEVER BY THE STEM OR FOLIAGE. BALLED PLANTS SHALL NOT BE DROPPED.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH AFTER TWO YEARS. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER FINAL ACCEPTANCE, UNLESS OTHERWISE AGREED WITH CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE GUARANTEE PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. ANY MATERIAL SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE.

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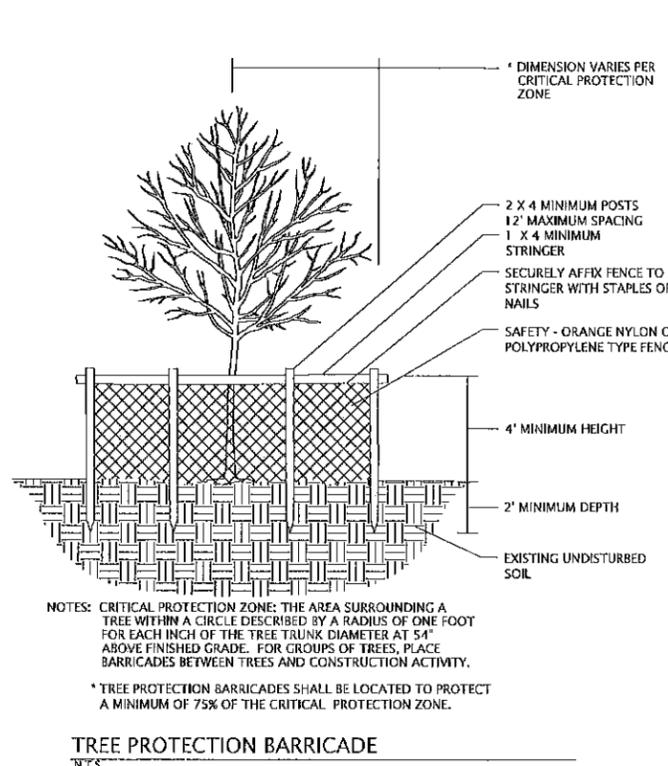
GENERAL DETAIL NOTES:

- PLANT CONTAINERS SHALL BE REMOVED PRIOR TO PLANTING. IF PLANTS ARE NOT CONTAINER GROWN, REMOVE A MINIMUM OF THE TOP 1/3 OF BURLAP, FABRIC, OR WIRE MESH.
- ROOTBALLS SHALL BE SET 1"-2" ABOVE FINISHED GRADE AND SET PLUMB TO THE HORIZON.
- BACKFILL SHALL BE LOOSENEED EXISTING SOIL. REMOVE ROCKS, STICKS, OR OTHER DELETERIOUS MATERIAL GREATER THAN 1" IN ANY DIRECTION PRIOR TO BACKFILLING. WATER AND TAMP TO REMOVE AIR POCKETS. IF EXISTING SOILS CONTAIN EXCESSIVE SAND, CLAY, OR OTHER MATERIAL NOT CONDUCTIVE TO PROPER PLANT GROWTH CONTACT OWNER AND LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- SOIL RINGS SHALL BE CONSTRUCTED OF EXISTING SOIL AT THE OUTER EDGE OF THE PLANTING PIT WITH A HEIGHT AND WIDTH OF 6".
- MULCH SHALL BE A 3" DEEP LAYER PLACED TO THE EDGE OF THE TRUNK FLARE, AROUND THE BASE OF SHRUB, OR SOLIDLY AROUND GROUNDCOVER.
- STRAPPING SHALL BE MINIMUM 1" WIDE NYLON OR POLYPROPYLENE. GUYING MATERIAL IN CONTACT WITH TREE SHALL BE SOFT, PLIABLE, AND FLEXIBLE PLASTIC OR RUBBER, SECURELY FASTENED TO WOODEN STAKES. ALL WOODEN STAKES OR EARTH ANCHORS SHALL BE LOCATED BEYOND THE EDGE OF SOIL RING.
- ALL DIMENSIONS PROVIDED FOR WOODEN MATERIALS ARE NOMINAL.
- WHEN A PERMANENT, SUBSURFACE, OR DRIP IRRIGATION SYSTEM IS PROVIDED A SOIL RING IS NOT REQUIRED, MULCH TO EDGE OF PLANTING PIT.
- CONTRACTORS SHALL MONITOR THE EXISTING TREES TO REMAIN FOR THE WARRANTY PERIOD, OR UNTIL FINAL ACCEPTANCE AND WRITTEN DOCUMENTATION IS APPROVED BY THE OWNER. EXISTING TREES EXHIBITING DIEBACK, DISEASE OR LACK OF STRUCTURAL INTEGRITY DUE TO SITE CONSTRUCTION ACTIVITIES RESULTING IN POTENTIAL PERIL TO THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC TREES SHALL BE REMOVED/REPLACE WITH OWNER'S APPROVAL. DAMAGE TO EXISTING TREES SHALL BE REVIEWED TO DETERMINE WHETHER THE DAMAGE WAS BEYOND THE CONTRACTOR'S CONTROL.

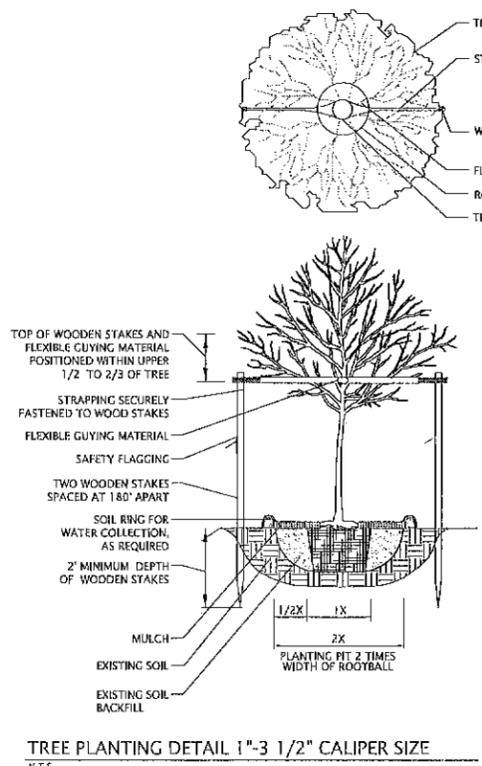
PLANT SCHEDULE:

ABBREVIATIONS: A.S. - AS SHOWN, B&B - BALLED AND BURLAPPED, CAL - CALIPER, C.G.S. - CONTAINER GROWN STOCK, D.S.R. - DOUBLE-STAGGERED ROW, HT. - HEIGHT, L.A. - LANDSCAPE ARCHITECT, O.C. - ON-CENTER, SPRD. - SPREAD

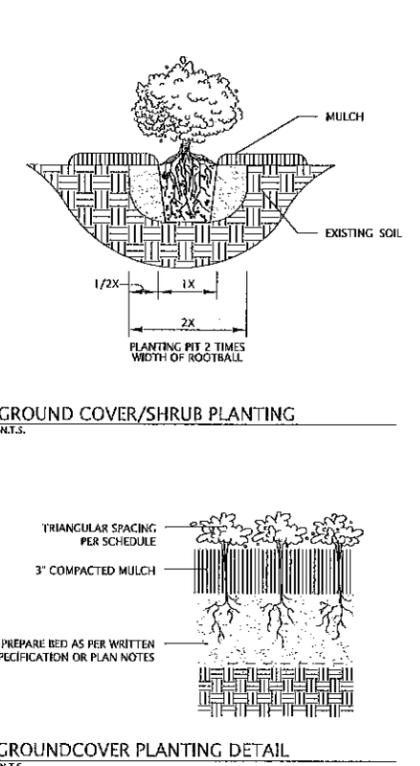
SYMBOL	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SPACING & SIZE	MAINTENANCE GUIDELINES / REMARKS
TREES					
MV	11	<i>Magnolia virginiana</i>	SWEETBAY MAGNOLIA	A.S., 10'-12' HT., 45 GAL., 3" MIN. CAL., WELL SHAPED, STANDARD SPECIMENS	MINIMAL PRUNING REQUIRED. REMOVE WATER SPROUTS (SUCKERS) FROM LOWER TRUNK. WATCH FOR SOOTY MOLD, APHIDS AND SCALE.
QV	4	<i>Quercus virginiana</i>	LIVE OAK	A.S., 14' HT., 6' SPRD., 3" MIN. CAL., WELL SHAPED, 65 GAL., C.G.S.	MINIMAL PRUNING REQUIRED. WATCH FOR GYPSY MOTH, BARK APHIDS AND OAK PIT SCALE
TD	10	<i>Taxodium distichum</i>	BALD CYPRESS	A.S., 10'-12' HT., 3" MIN. CAL., 45 GAL. C.G.S.	NO PRUNING REQUIRED. NO SERIOUS PESTS.
SHRUBS, GRASSES & GROUNDCOVERS					
DV	294	<i>Diets vegeta</i>	AFRICAN IRIS	21" O.C., FULL GAL, 18" HT, 12" SPRD, WITH HEAVY DARK GREEN FOLIAGE	REMOVE SPENT FLOWERS. NO SERIOUS PESTS.
IAE	4	<i>Ilex X attenuata</i> 'EAST PALATKA'	EAST PALATKA HOLLY	A.S., 6' MIN. HT., 3' SPRD., 10 GAL., C.G.S., FULL TO GROUND, FEMALE PLANTS	MINIMAL PRUNING REQUIRED TO REMOVE WATER SPROUTS (SUCKERS) FROM LOWER TRUNK. WATCH FOR MITES, WAX SCALE, AND FUNGAL LEAF SPOT. TOLERATES WET SOIL CONDITIONS.
LM	118	<i>Lantana montevidensis</i>	TRAILING LANTANA	36" O.C., 1 GAL.	PRUNE TO PREVENT SPREADING INTO ADJACENT PLANT MATERIALS. NO SERIOUS PESTS.
LMA	215	<i>Liriope muscari</i> 'EMERALD GODDESS'	EMERALD GODDESS LIRIOPE	24" O.C., 1 GAL.	NO PRUNING REQUIRED.
MCA	707	<i>Muhlenbergia capillaris</i>	MUHLI GRASS	30" O.C., 1 GAL.	NO PRUNING REQUIRED. NO SERIOUS PESTS. MAY ELECT TO CUT BACK TO GROUND IN MID-WINTER AND ALLOW NEW GROWTH TO RETURN FROM ROOTS.
ND	66	<i>Nandina domestica</i>	NANDINA	A.S., 3 GAL., 24" HT. & SPRD.	NO PRUNING REQUIRED. NO SERIOUS PESTS.
SBA	480	<i>Spartina bakeri</i>	SAND CORDGRASS	30" O.C., 1 GAL.	NO PRUNING REQUIRED. NO SERIOUS PESTS.
TDA	279	<i>Tripsacum dactyloides</i>	FAKAHATCHEE GRASS or EASTERN GAMMA GRASS	36" O.C., 1 GAL.	REMOVE SPENT SEED HEADS. MAY ELECT TO CUT BACK TO GROUND IN MID-WINTER AND ALLOW NEW GROWTH TO RETURN FROM ROOTS. NO SERIOUS PESTS.
SOD & NATIVE HYDROSEED					
SOD	±3,811 SF	<i>Eremochloa ophiuroides</i>	CENTIPEDE GRASS	LAI D SOLIDLY IN ALL INDICATED AREAS	MOW AT 2" HEIGHT WHEN HEIGHT EXCEEDS 3", IF DESIRED. FOR REDUCED MAINTENANCE COSTS, ALLOW GRASS TO MATURE AND MAINTAIN; FERTILIZE ONCE ANNUALLY WITH SLOW-RELEASE FORMULA. MAY BE ALLOWED TO GROW TALLER BASED ON CITY MAINTENANCE PROTOCOL AND ENERGY CONSERVATION. WATER AT A RATE OF 2" OF PRECIPITATION PER WEEK. DO NOT "SCALP".
WF-1	1,727 SF	<i>Gaillardia pulchella</i>	BLANKET FLOWER SEED	SEED AT A RATE OF 10 LBS. PER ACRE	APPLY BLANKET FLOWER SEED AT SPECIFIED RATE WITH HYDROSEED METHOD. MOW AT LEAST ONCE PER YEAR (WINTER) TO ENCOURAGE NEW FLOWERING. OPTIONAL MOWING IN SUMMER TO MANAGE HEIGHT AND AESTHETICS.



TREE PROTECTION BARRICADE
N.T.S.



TREE PLANTING DETAIL 1"-3 1/2" CALIPER SIZE
N.T.S.



GROUND COVER PLANTING DETAIL
N.T.S.

ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT MANUAL, THIS DOCUMENT & THE CURRENT EDITION OF E.C.U.A.'S ENGINEERING MANUAL.

Hatch Mott MacDonald
CENTRAL WATER RECLAMATION FACILITY LIFTSTATION B
ESCAMBA COUNTY, FLORIDA
ENVERAID COAST UTILITIES AUTHORITY
E.C.U.A. PROJECT NO. C3141B

DATE: SEPTEMBER 2008
DESIGNED BY: VWB
DRAWN BY: V. BALDWIN
PROJECT MANAGER: D. KEECK
FLORIDA LICENSE NO. LAB009844
DATE: 07/27/08
FLORIDA LICENSE NO. LAB009844

ISSUED FOR BID
PLANT SCHEDULE, NOTES AND DETAILS
SHEET NUMBER: L2.0

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Memorandum 5/11/08

ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT MANUAL, THIS DOCUMENT & THE CURRENT EDITION OF E.C.U.A.'S ENGINEERING MANUAL.

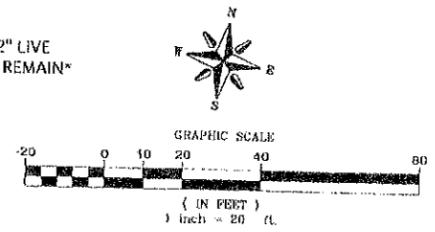
Hatch Mott MacDonald
 CENTRAL WATER RECLAMATION FACILITY LIFTSTATION B
 ESCAMBA COUNTY, FLORIDA
 EMERALD COAST UTILITY DISTRICT COMMUNITY DEVELOPMENT DEPARTMENT
 E.C.U.A. PROJECT NO. C31418

IRRIGATION NOTE:
 AN IRRIGATION SYSTEM IS TO BE INSTALLED PROVIDING 100% COVERAGE FOR THE ENTIRE SITE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL, OR AT THE OWNER'S REQUEST, AN OUTLET WITH SCHEDULED SPRAY TIMES MAY BE PROVIDED, IN LIEU OF A PERMANENT UNDERGROUND IRRIGATION SYSTEM, WITH A MAINTENANCE AGREEMENT BETWEEN THE CONTRACTOR AND OWNER GUARANTEEING PLANT MATERIALS THROUGHOUT THE WARRANTY PERIOD.

***PRESERVATION NOTE:**
 CONTRACTOR SHALL NOTIFY PROJECT LANDSCAPE ARCHITECT AND ENGINEER OF CONDITIONS CONFLICTING WITH THE PRESERVATION OF TREES WHILE RETAINING WALL IS CONSTRUCTED.

Zone 1-5
 □ - VALVE
 X - ROTOR
 O - SPRAY
 M - 1" METER

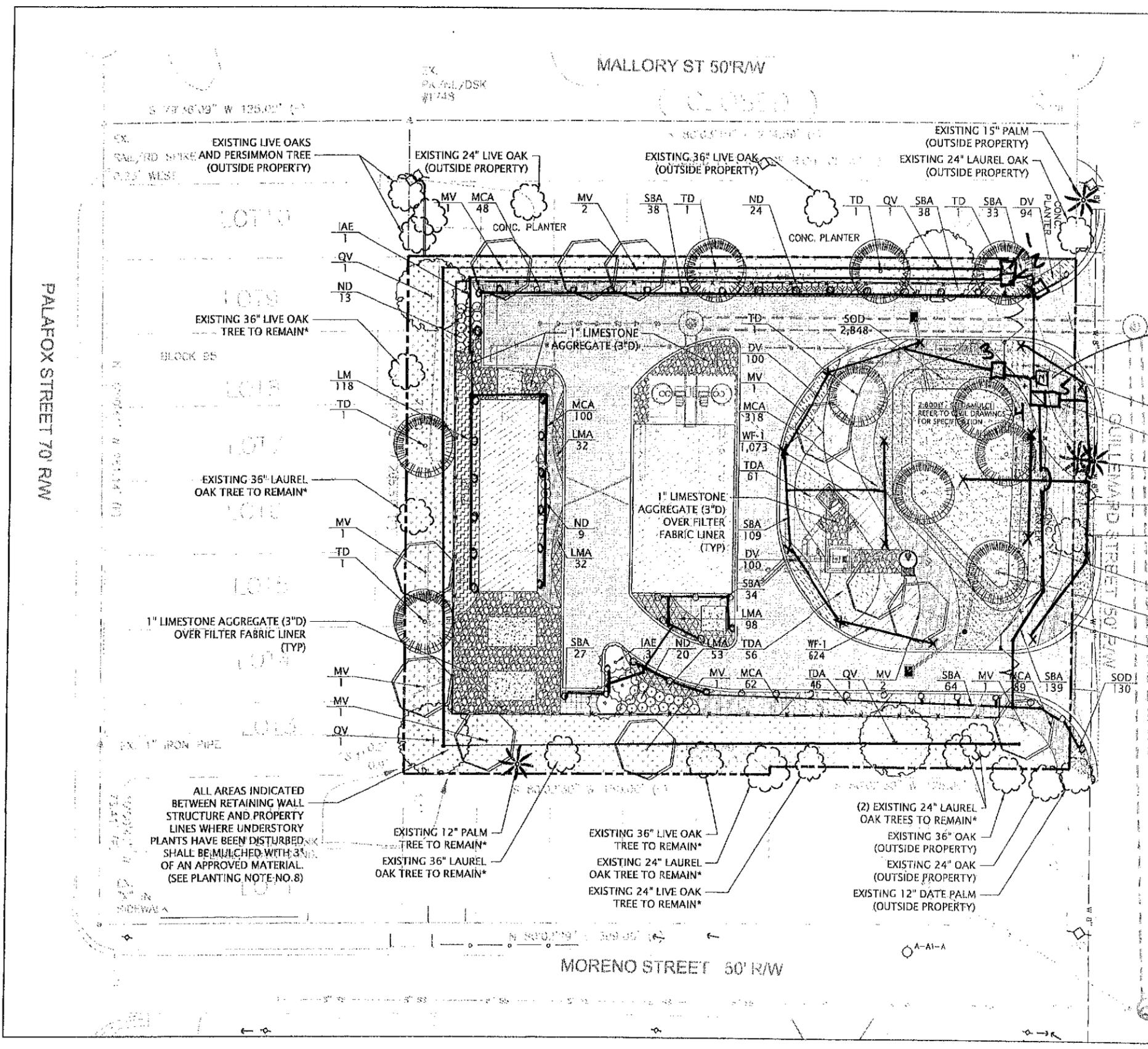
Zone #1 - BUBBLERS
 ALL NEW TREES



C.W.R.F. LIFT STATION B
 CITY OF PENSACOLA LANDSCAPE REGULATIONS
 GENERAL
 PLANTING STANDARDS FOR ALL LANDSCAPE AREAS - GENERAL LANDSCAPE STANDARDS
 SECTION 12-8.3 (A) LANDSCAPE AREA REQUIREMENTS
 REQUIRED: THE MINIMUM PERCENTAGE OF THE TOTAL DEVELOPABLE SITE, WHICH SHALL BE DEVELOPED TO LANDSCAPE, UNLESS OTHERWISE SPECIFIED IN THIS CHAPTER SHALL BE AS FOLLOWS: 20% FOR ZONING DISTRICT C-3.
 PROVIDED: THE SITE IS ZONED C-3. APPROXIMATELY 67% OF THE DEVELOPABLE SITE AREA IS DEVOTED TO LANDSCAPING.
 PLANTING STANDARDS FOR ALL LANDSCAPE AREAS - PROTECTED TREES
 SECTION 12-8.6 (B) RELOCATION, REMOVAL, AND REPLACEMENT OF PROTECTED TREES
 WHEN A PROTECTED TREE IS APPROVED FOR REMOVAL, IT SHALL BE REPLACED WITH A LIKE SPECIES OF THE TREE REMOVED. THE PRESCRIBED NUMBER OF TREES SHALL BE PLANTED FOR EACH TREE REMOVED. THE MINIMUM DIAMETER OF A REPLACEMENT TREE SHALL BE THREE (3) INCHES DIAMETER AND FOUR-TENTHS (0.4) DIAMETER IN CIRCUMFERENCE, MEASURED ONE (1) FOOT ABOVE GRADE.
 REQUIRED: A TRUNK DIAMETER OF 12" INCHES (31.8 INCHES IN CIRCUMFERENCE) TO 19" INCHES (48.3 INCHES IN CIRCUMFERENCE) - TWO TREES PLANTED FOR EACH ONE REMOVED.
 PROVIDED: 1-18" DIAMETER LIVE OAK IS TO BE REMOVED - TWO TREES PLANTED FOR EACH ONE - 2 TREES TOTAL. TO BE REPLACED WITH 2 LIVE OAK TREES EACH AT 3" DIAMETER.
 REQUIRED: A TRUNK DIAMETER OF 20" INCHES (50.8 INCHES IN CIRCUMFERENCE) TO 28" INCHES (71.1 INCHES IN CIRCUMFERENCE) - FOUR TREES PLANTED FOR EACH ONE REMOVED.
 PROVIDED: 1-20" & 24" DIAMETER LIVE OAK AND 2-24" LAUREL OAK ARE TO BE REMOVED - FOUR TREES PLANTED FOR EACH ONE - 4 TREES TOTAL. TO BE REPLACED WITH 10 SWITZER MAGNOLIAS AND 10 BALD CYPRESS EACH AT 3" DIAMETER.
 EMERALD COAST UTILITY DISTRICT WILL PROVIDE TREES FOR MITIGATION, TO THE GREATEST EXTENT POSSIBLE, AS REQUIRED BY SECTION 12-8.6 (B) OF THE PENSACOLA CODE OF ORDINANCES. TWENTY-TWO (22) TREES ARE TO BE REPLANTED ON SITE FOR THE MITIGATION EFFORTS. THE PROPOSED TREES BEING PLANTED ARE OF A UNIFORM SPECIES FROM THE TREES REMOVED, DUE TO THE FUNCTION OF THE SITE, NEW STORMWATER FACILITY AREA, AND LARGE VEGETATION REMOVED ON SITE. NOT ALL OWING FOR SUFFICIENT SPACE TO PROVIDE THE SAME SPECIES.

DATE: SEPTEMBER 2008
 DRAWN BY: VWB
 PROJECT LANDSCAPE ARCHITECT: Y BALDWIN
 PROJECT MANAGER: D. NEEK
 DATE: APR 2008
 E.C.U.A. PROJECT NUMBER: 227828
 ISSUED FOR BID
 LANDSCAPE PLAN
 SHEET NUMBER
 L1.0

Moreno St. RLS



EXISTING LIVE OAKS AND PERSIMMON TREE (OUTSIDE PROPERTY)

EXISTING 24" LIVE OAK (OUTSIDE PROPERTY)

EXISTING 36" LIVE OAK (OUTSIDE PROPERTY)

EXISTING 15" PALM (OUTSIDE PROPERTY)
 EXISTING 24" LAUREL OAK (OUTSIDE PROPERTY)

EXISTING 36" LIVE OAK TREE TO REMAIN*

EXISTING 36" LAUREL OAK TREE TO REMAIN*

1" LIMESTONE AGGREGATE (3"D) OVER FILTER FABRIC LINER (TYP)

ALL AREAS INDICATED BETWEEN RETAINING WALL STRUCTURE AND PROPERTY LINES WHERE UNDERSTORY PLANTS HAVE BEEN DISTURBED SHALL BE MULCHED WITH 3" OF AN APPROVED MATERIAL. (SEE PLANTING NOTE NO. 8)

EXISTING 12" PALM TREE TO REMAIN*
 EXISTING 36" LAUREL OAK TREE TO REMAIN*

EXISTING 36" LIVE OAK TREE TO REMAIN*
 EXISTING 24" LAUREL OAK TREE TO REMAIN*
 EXISTING 24" LIVE OAK TREE TO REMAIN*

(2) EXISTING 24" LAUREL OAK TREES TO REMAIN*
 EXISTING 36" OAK (OUTSIDE PROPERTY)
 EXISTING 24" OAK (OUTSIDE PROPERTY)
 EXISTING 12" DATE PALM (OUTSIDE PROPERTY)

MORENO STREET 50' R/W

PALAFIX STREET 70' R/W

MALLORY ST 50' R/W