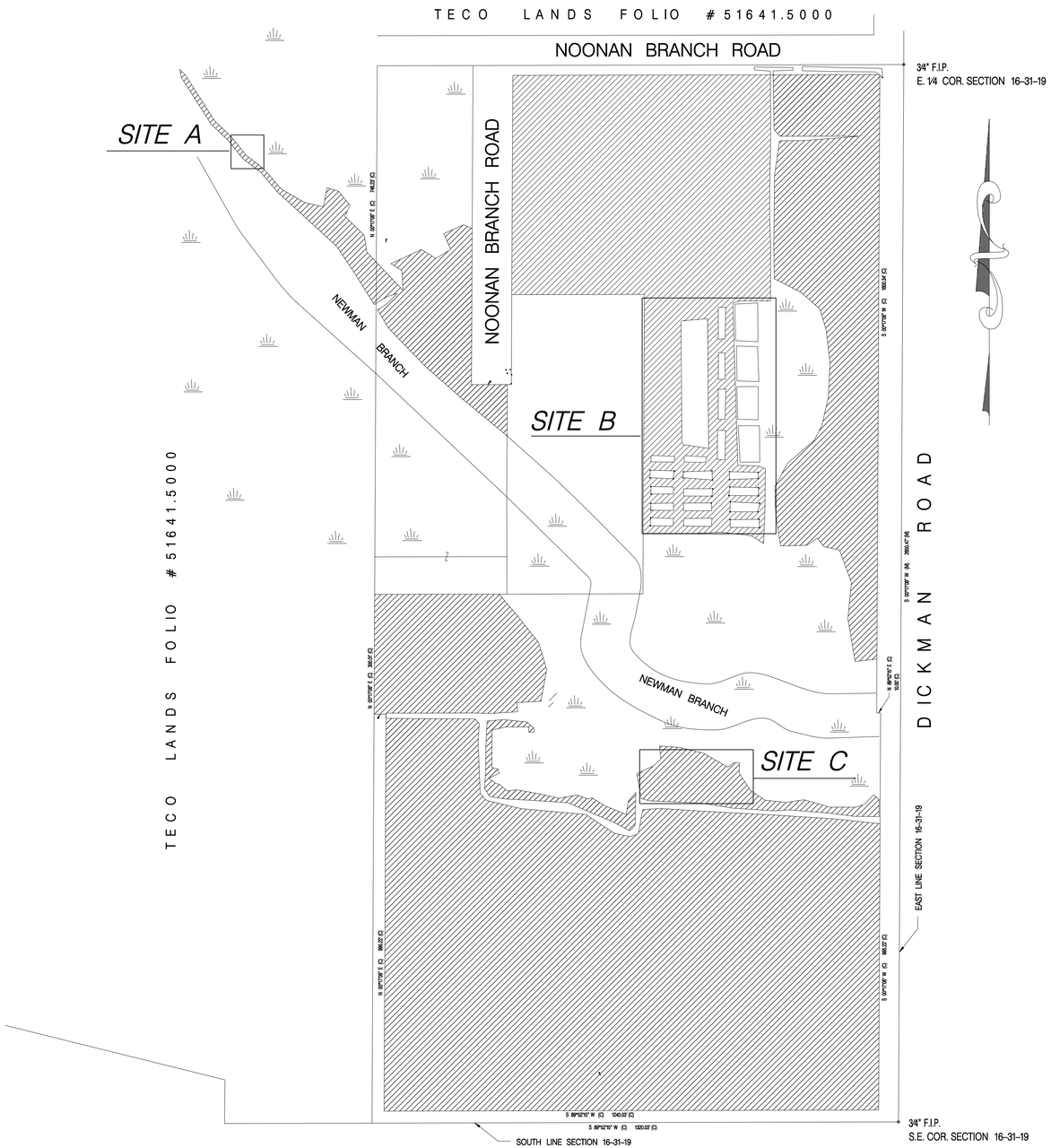
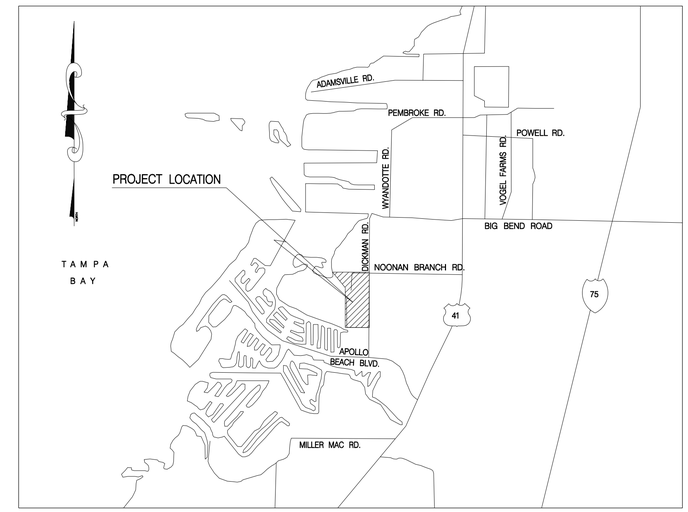
NEWMAN BRANCH FISHERY
HABITAT RESTORATION PROJECT



SECTION 16, RANGE 31 SOUTH, TOWNSHIP 19 EAST
HILLSBOROUGH COUNTY, FLORIDA



VICINITY MAP
NOT TO SCALE

INDEX OF DRAWINGS

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SCHEDA ECOLOGICAL ASSOCIATES INCORPORATED

PEER inc. Protecting the Environment through Ecological Research

S.W.I.M.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

TECO TAMPA ELECTRIC

PREPARED BY:
SCHEDA ECOLOGICAL ASSOCIATES, INC.
5892 EAST FOWLER AVENUE
TAMPA, FLORIDA 33617
IN ASSOCIATION WITH:
PEER, INC.

REVISIONS:
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PREPARED FOR:
NEWMAN BRANCH FISHERY
HABITAT RESTORATION PROJECT

JOB NO.	04.704
DRAWN	kn
DESIGNED	pb
CHECKED	tr
QC	
SHEET	1 of 7

TIE TO EXISTING WETLAND

EXISTING WETLAND

UPLAND PRESERVE

FRESH WATER MARSH

UPLAND PRESERVE

UPLAND PRESERVE

1" = 30'

TIE TO EXISTING 3.0 (DITCH)

TIE TO EXISTING 3.0

POND

OVERFLOW WEIR (SEE DETAIL SHEET 6 OF 7)

DITCH BLOCK (SEE DETAIL SHEET 6 OF 7)

ESTUARINE WETLAND

SILT FENCE /LIMITS OF CONSTRUCTION

SILT FENCE /LIMITS OF CONSTRUCTION

SILT FENCE /LIMITS OF CONSTRUCTION

TIE TO EXISTING GRADE

TIE TO EXISTING GRADE

TIE TO EXISTING POND ELEVATIONS'

FLOATING TURBIDITY BARRIER'

REMOVE EXISTING SPOIL RIDGE'

MANGROVE PRESERVE

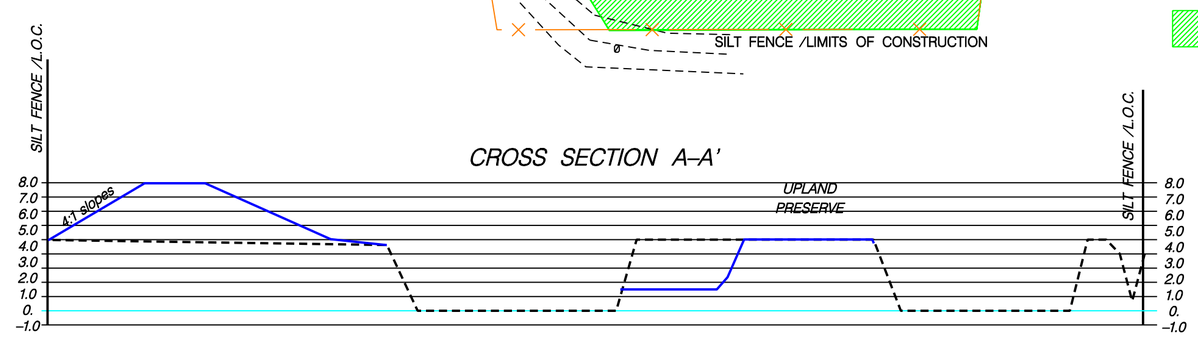
SILT FENCE /LIMITS OF CONSTRUCTION

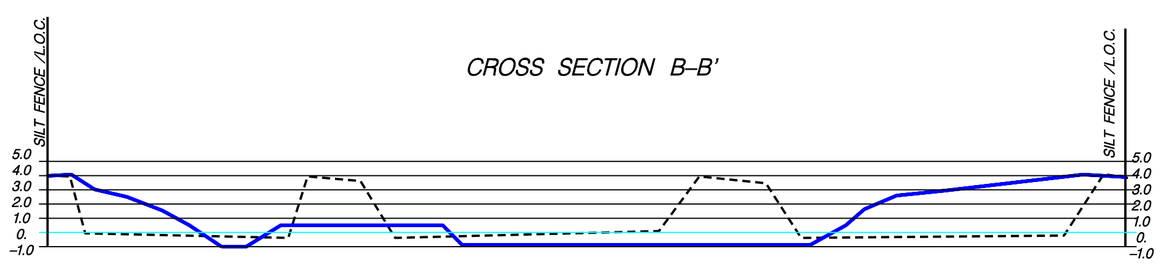
CUT AREAS TO EL. 1.5

EXISTING OAKS

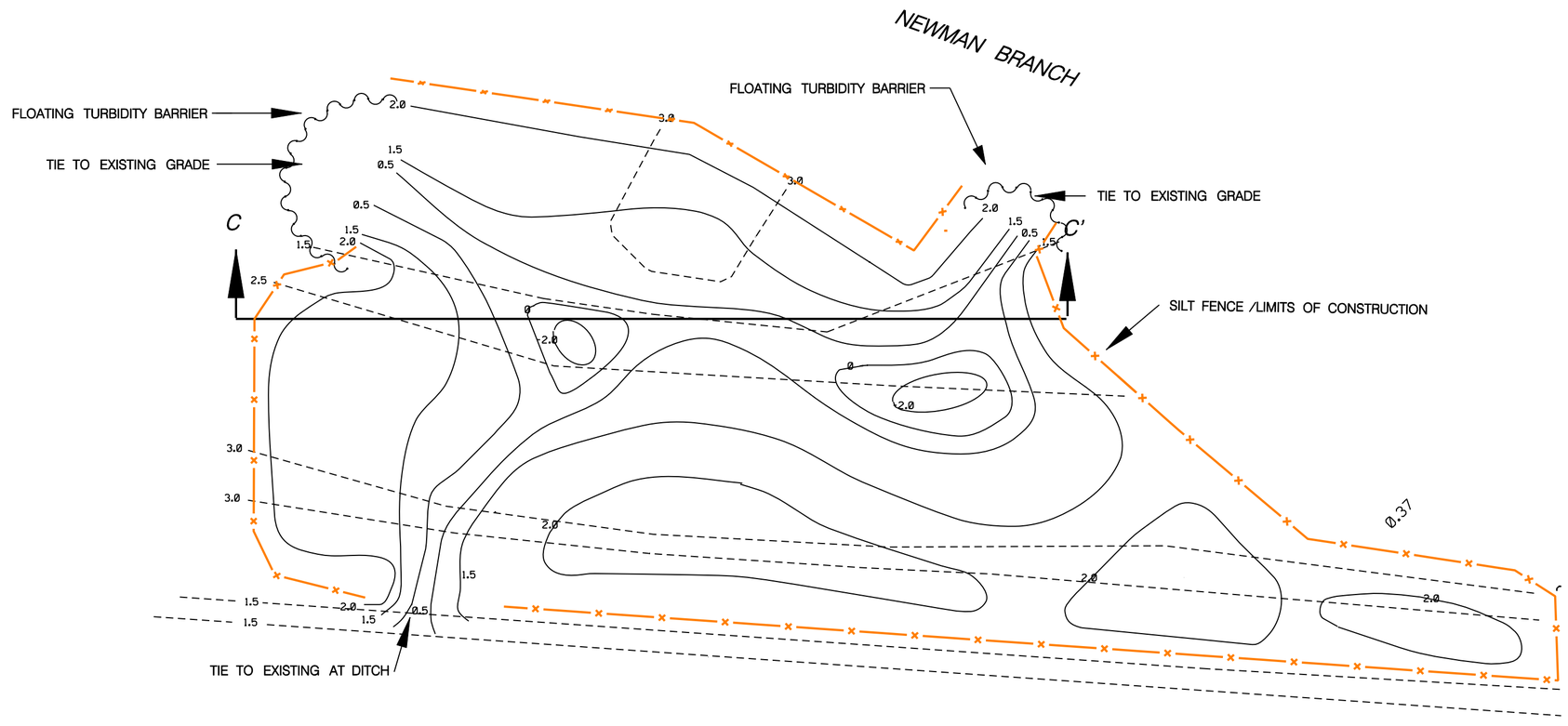
EXISTING PALMS

MANGROVE PRESERVE



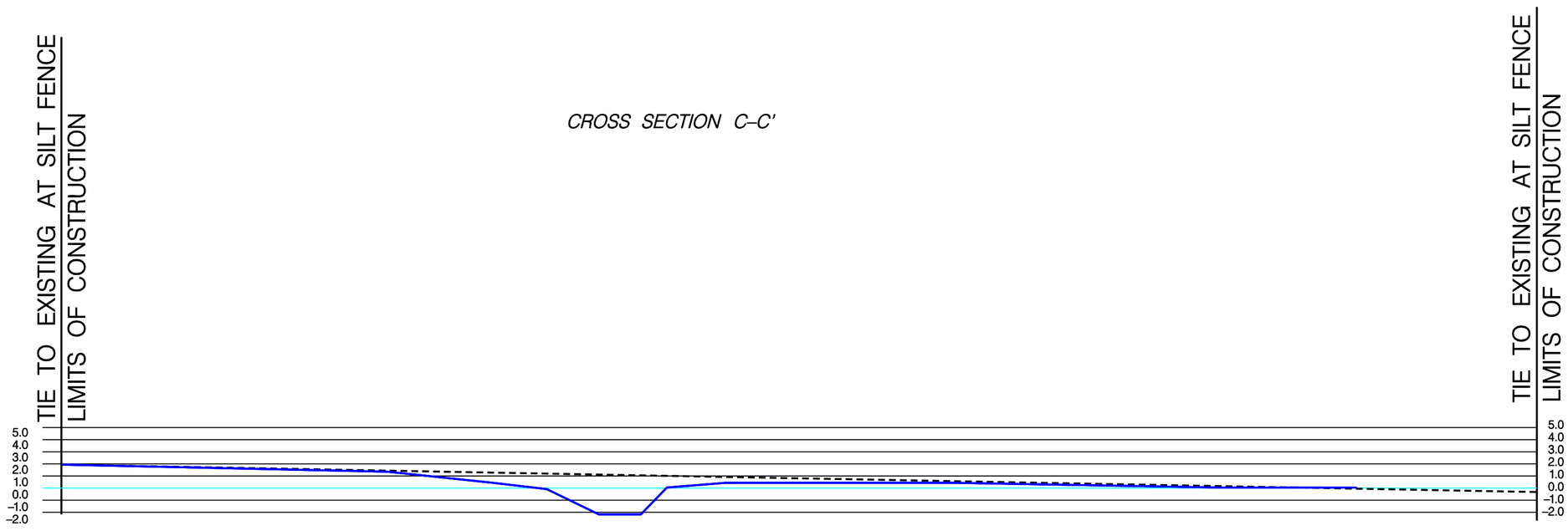


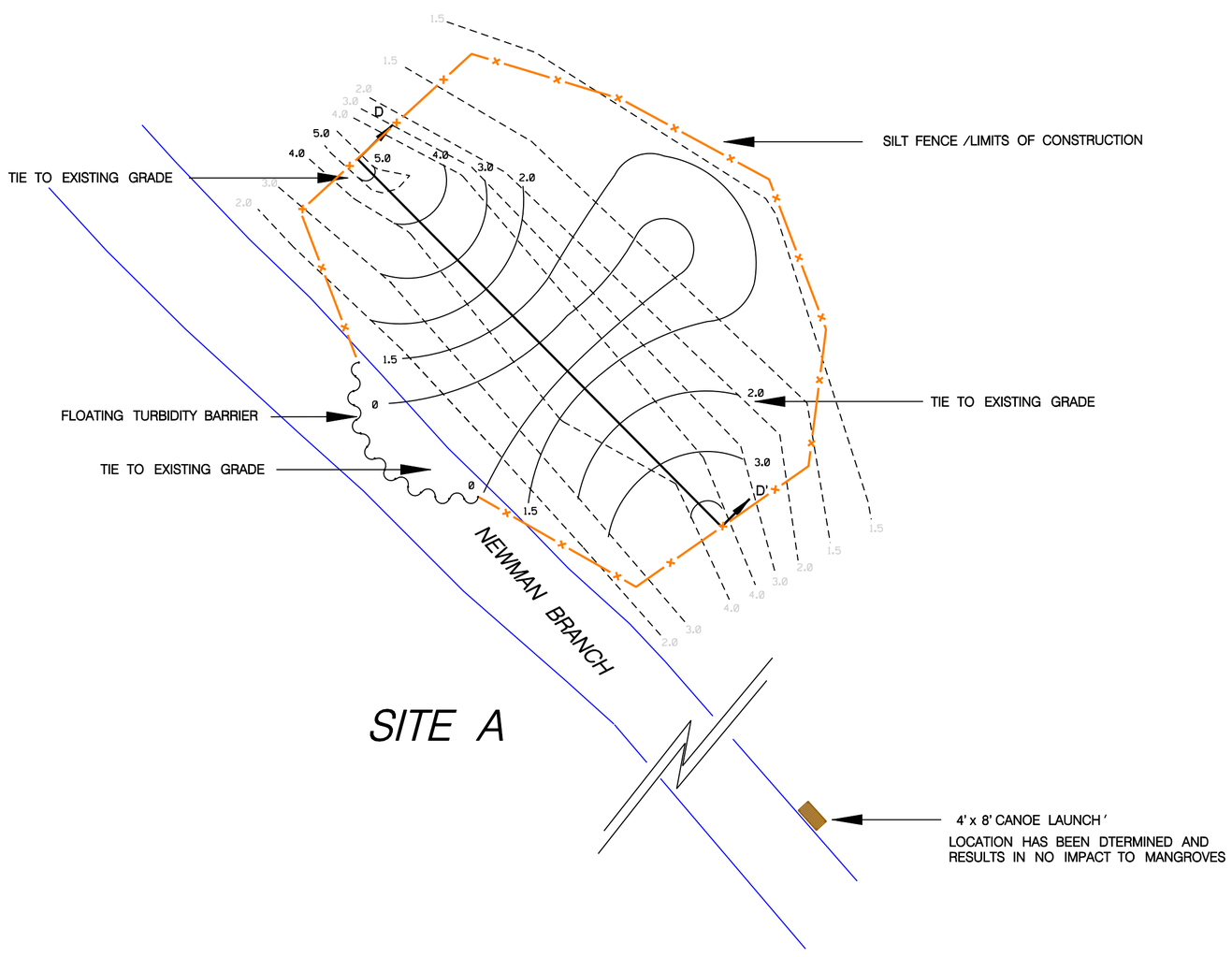
SHEET 2 of 7	PREPARED FOR: NEWMAN BRANCH FISHERIES HABITAT RESTORATION PROJECT	GRADING PLAN SITE B	REVISIONS: 1 2 3 4 5 6
QC / CHECKED / DESIGNED / DRAWN / JOB NO.			PREPARED BY: SCHEDA ECOLOGICAL ASSOCIATES, INC. 5892 EAST FOWLER AVENUE TAMPA, FLORIDA 33617 IN ASSOCIATION WITH: PEER, INC.



1" = 30'

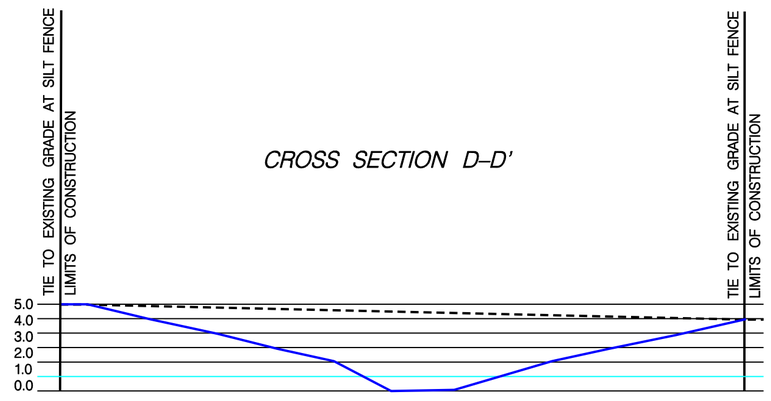
SITE C





1" = 30'

SITE A



SITE A BERM CUT (TYPICAL)
SECOND BERM CUT TO BE DETERMINED IN THE FIELD IF PRACTICAL.

SHEET 3 OF 7 QC CHECKED DESIGNED DRAWN JOB NO.	PREPARED FOR: NEWMAN BRANCH FISHERIES HABITAT RESTORATION PROJECT	GRADING PLAN SITES C AND A	REVISIONS: 1 2 3 4 5 6

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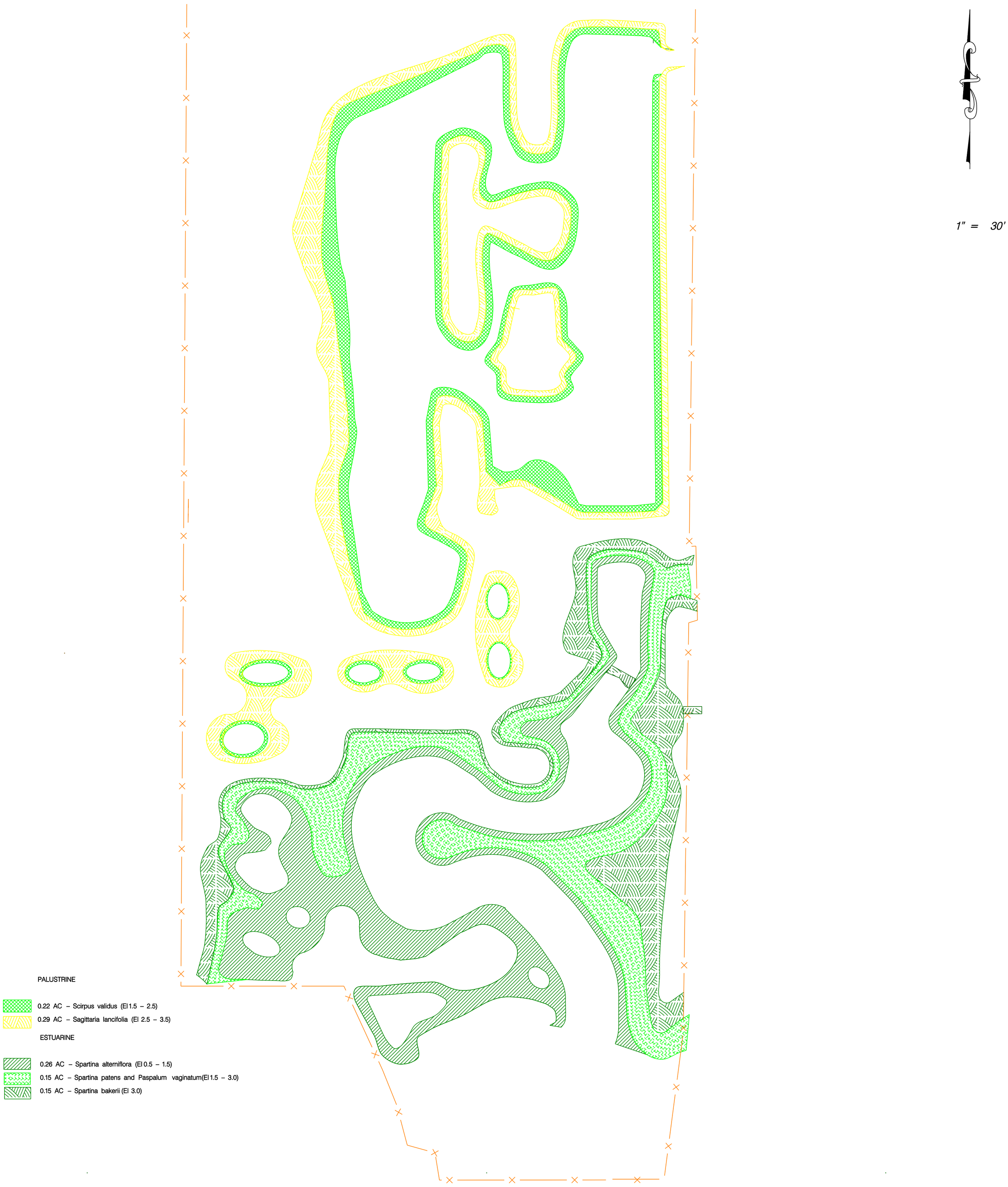

PLANTING SPECIFICATION *SITE B						
Zone (Acres)	Elevation NGVD	Species		Size	Spacing	Quantity
		Scientific Name	Common Name			
Estuarine 0.56 Acres	0.5 to 1.5	*Spartina alterniflora*	Smooth Cordgrass	2" cells	3' o.c.	1300
	1.5 to 3.0	*Spartina patens* *Paspalum vaginatum*	Salt Meadow Cordgrass Seashore Paspalum	2" cells 2" cells	3' o.c. 3' o.c.	325 400
	3.0	*Spartina bakeri**	Sand Cordgrass	2" cells	3' o.c.	726
Palustrine 0.51 Acres	1.5 to 2.5	*Scirpus validus*	Soft Stem Bulrush	2" cells	3' o.c.	550
	2.5 to 3.5	*Sagittaria lancifolia*	Giant Arrowhead	2" cells	3' o.c.	700

** to be planted in random groupings to achieve a natural appearance*

SHEET 4 of 7
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PREPARED FOR:
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PLANTING PLAN SITE B

REVISIONS:
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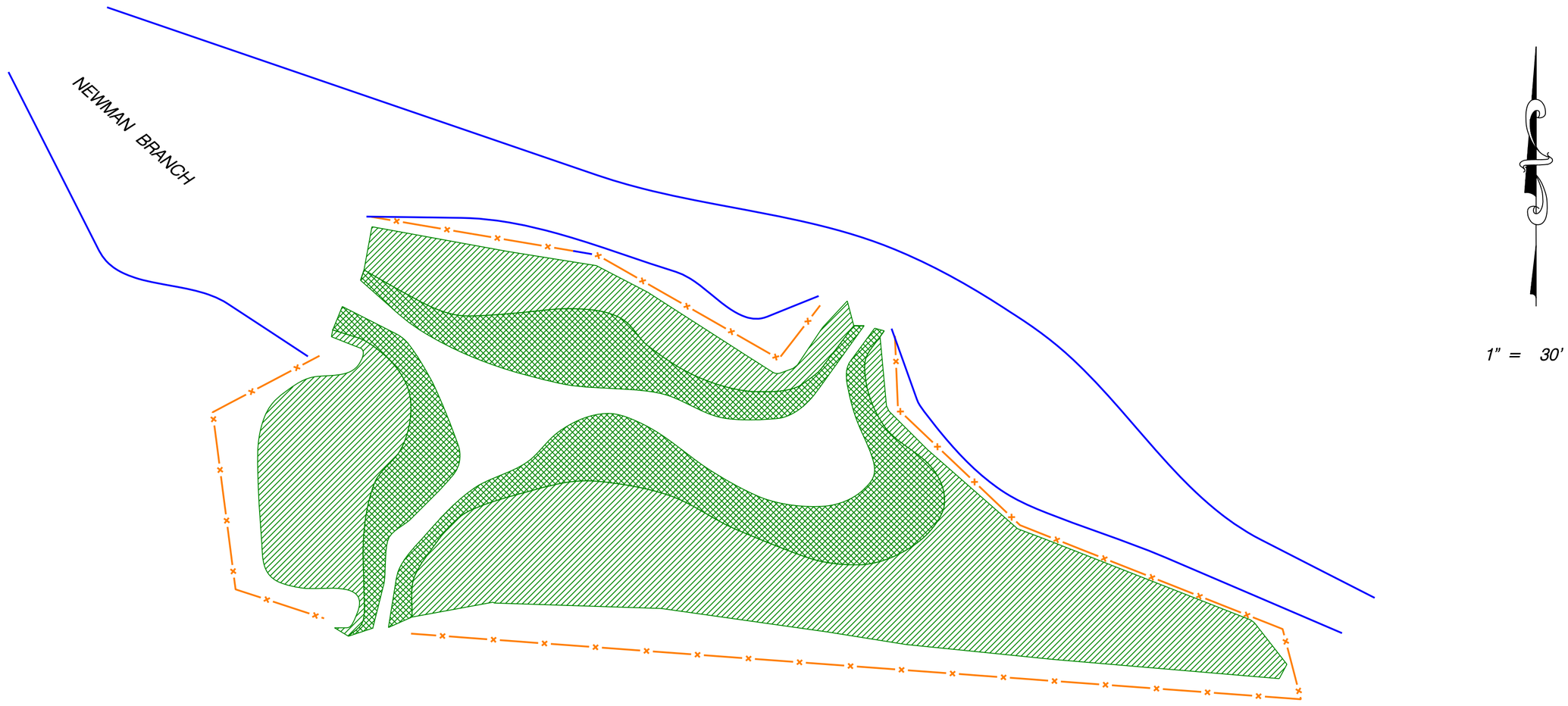
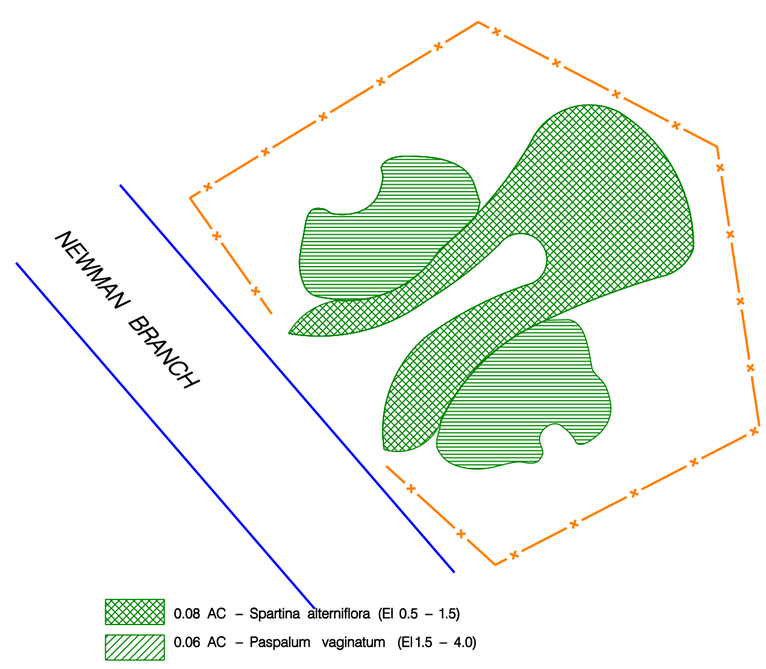


SITE C

0.20 AC – Spartina alterniflora (El 0.5 – 1.5)
0.43 AC – Paspalum vaginatum (El 1.5 – 2.0, including 2.0)

PLANTING SPECIFICATION *SITE C						
Zone (Acres)	Elevation NGVD	Species		Size	Spacing	Quantity
		Scientific Name	Common Name			
0.20	0.5 to 1.5	*Spartina alterniflora*	Smooth Cordgrass	2" cells	3' o.c.	975
0.43	1.5 to 2.5	*Paspalum vaginatum*	Seashore Paspalum	2" cells	3' o.c.	2080



0.08 AC – Spartina alterniflora (El 0.5 – 1.5)
0.06 AC – Paspalum vaginatum (El 1.5 – 4.0)

SITE A

PLANTING SPECIFICATION *SITE A						
Zone (Acres)	Elevation NGVD	Species		Size	Spacing	Quantity
		Scientific Name	Common Name			
0.08	0.5 to 1.5	*Spartina alterniflora*	Smooth Cordgrass	2" cells	3' o.c.	420
0.06	1.5 to 4.0	*Paspalum vaginatum*	Seashore Paspalum	2" cells	3' o.c.	300

SHEET 5 OF 7
QC
CHECKED
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PREPARED FOR:
NEWMAN BRANCH FISHERIES HABITAT RESTORATION PROJECT

PLANTING PLAN SITES C AND A

REVISIONS:
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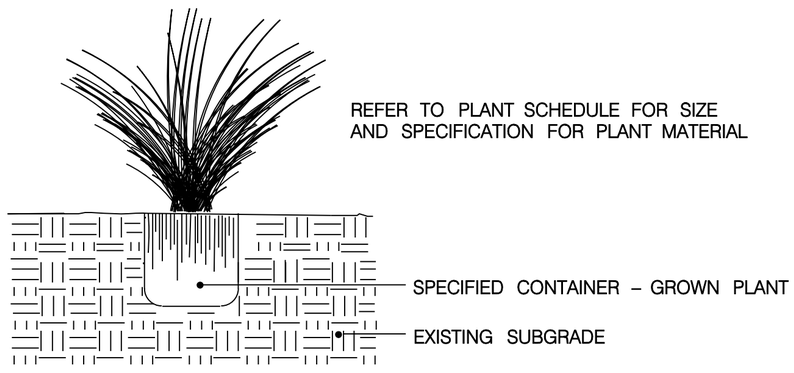
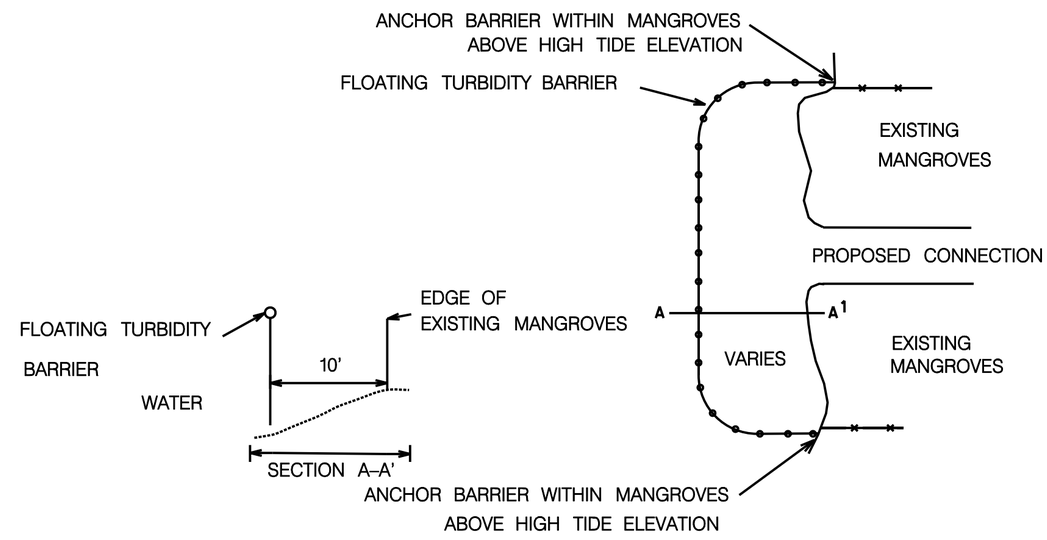


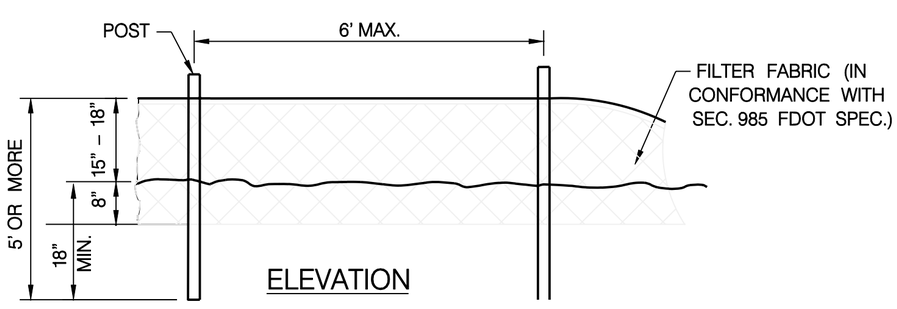
HERBACEOUS GROUNDCOVER PLANTING DETAIL

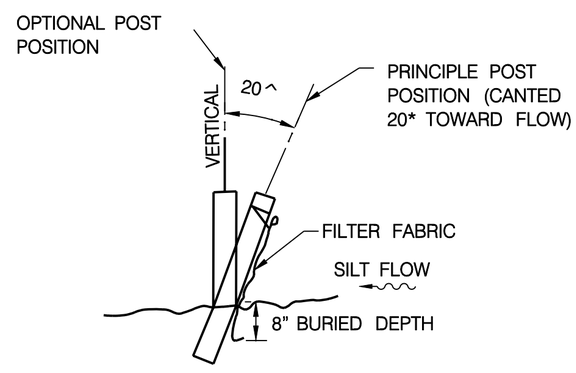
N.T.S.



FLOATING TURBIDITY BARRIER DETAIL

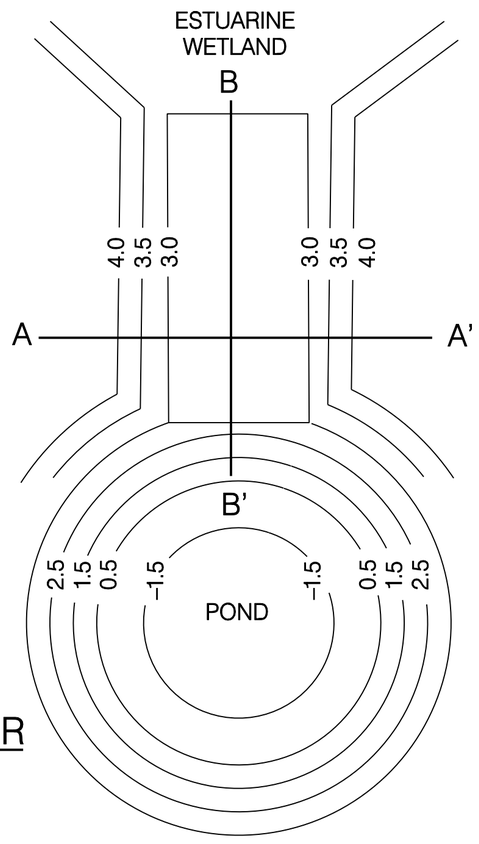
N.T.S.





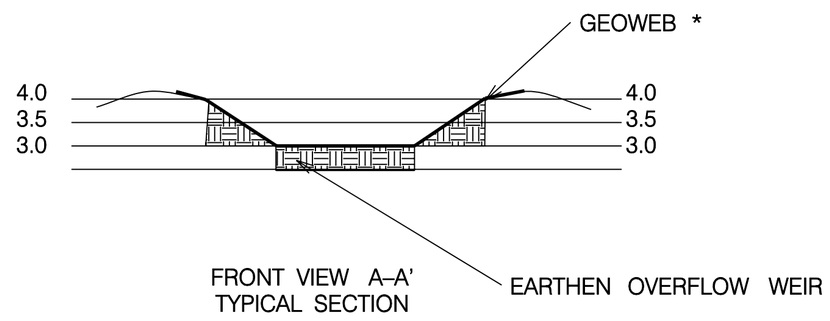
TYPICAL SILT FENCE

N.T.S.



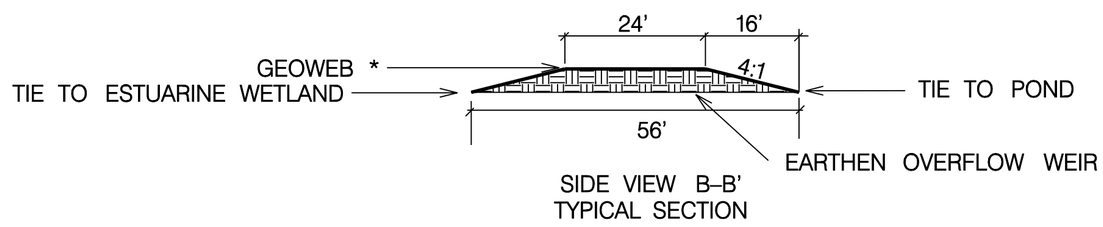
OVERFLOW WEIR

PLAN VIEW
TYPICAL SECTION



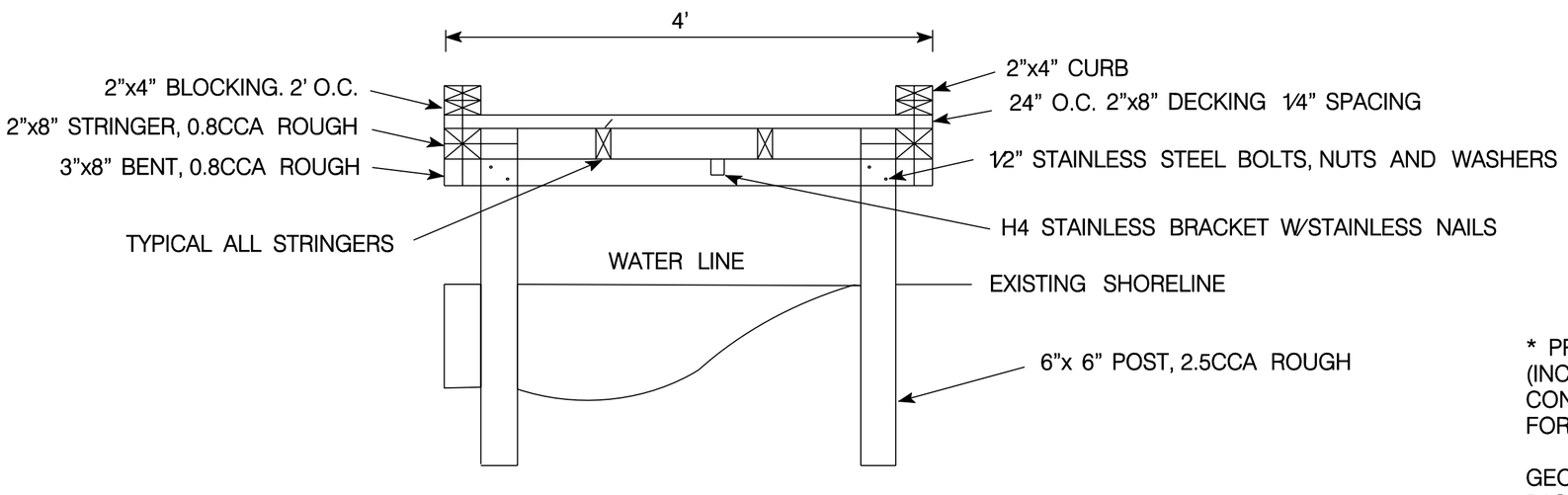
OVERFLOW WEIR

N.T.S.



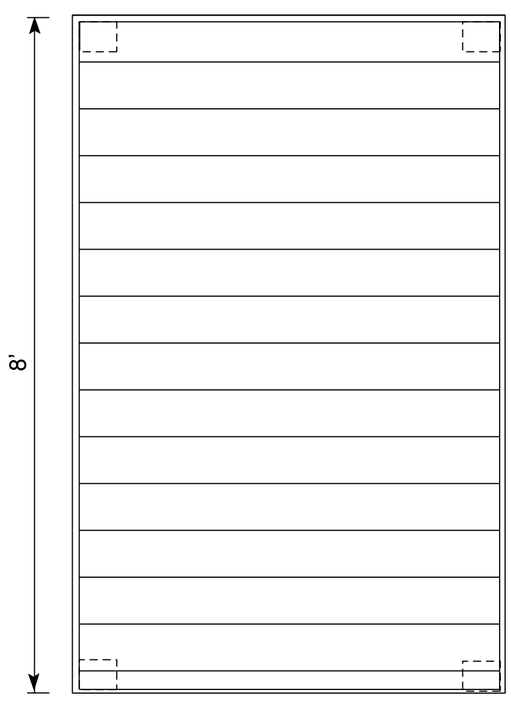
OVERFLOW WEIR

N.T.S.



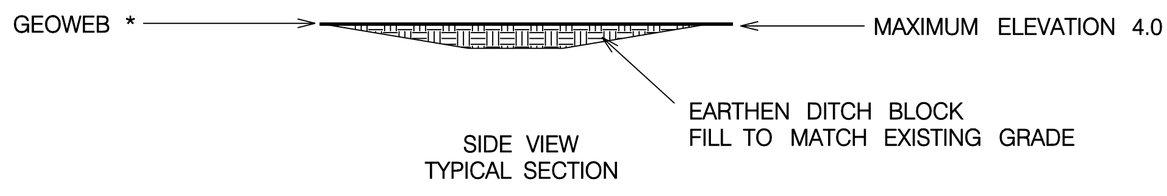
* PRESTO PRODUCTS 3" PERFORATED GEOWEB SYSTEM
(INCLUDING T.C. MIRAFI MIRAMAT TM WOVEN GEOTEXTILE)
CONTACT R.H. MOORE AND ASSOCIATES AT (813) 988–0200
FOR PRODUCT SPECIFICATIONS AND INSTALLATION PROCEDURES.

GEOWEB TO BE BACKFILLED WITH SOIL AND PLANTED WITH
PASPALUM VAGINATUM AS SHOWN ON PLANTING PLANS.



CANOE LAUNCH

SEE SHEET 3 OF 7



DITCH BLOCK DETAIL

N.T.S.

SHEET 6 of 7
QC
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JOB NO.

PREPARED FOR:

NEWMAN BRANCH FISHERIES
HABITAT RESTORATION PROJECT

DETAILS AND NOTES

REVISIONS:
1
2
3
4
5
6

PREPARED BY:

SCHEDA ECOLOGICAL ASSOCIATES, INC.
5892 EAST FOWLER AVENUE
TAMPA, FLORIDA 33617

IN ASSOCIATION WITH:

PEER, INC.

CONTRACTOR NOTES

1. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH LOCAL BUILDING REGULATIONS.

2. THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION CONTROL MEASURES DURING CONSTRUCTION IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

3. THE CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE PLANS, SITE GRADING, AND UTILITY PLANS IN THE VICINITY OF THE RESTORATION AREA IN ORDER TO PRECLUDE ANY MISUNDERSTANDINGS OR POTENTIAL CONFLICTS. ALL DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR THEIR DESIGNEE.

4. THE CONTRACTOR SHALL OBTAIN COPIES OF PERMITS ISSUED BY THE US ARMY CORPS OF ENGINEERS, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION COMMISSION. THE PROJECT SHALL BE IN CONFORMANCE WITH CONDITIONS SPECIFIED IN THOSE PERMITS.

5. PRIOR TO PLANTING AND UPON COMPLETION OF THE RESTORATION AREA, THE CONTRACTOR SHALL REVIEW THE AS–BUILT DATA TO ENSURE THAT PROPER GRADE ELEVATIONS, SOIL LAYER, AND WATER LEVELS ARE AS SPECIFIED.

6. THE INTENT OF THESE PLANS IS TO PROVIDE GUIDELINES FOR PLANTING HERBACEOUS AND WOODY PLANTS (TREES) BASED ON THEIR GENERAL HYDROLOGIC REQUIREMENTS (ZONATION). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW FIELD CONDITIONS PRIOR TO PLANTING AND TO CALL TO THE ATTENTION OF THE ENGINEER ANY ADJUSTMENT OF LOCATION OR ELEVATION OF A PLANT SPECIES TO MATCH AS–BUILT FIELD ELEVATIONS AND CONDITIONS, IN ORDER TO GUARANTEE SURVIVAL OF THE PLANTED SPECIES AS SPECIFIED IN THE ABOVE REFERENCED PERMITS.

7. THE WORK CONSISTS OF THE COMPLETE PLANT MATERIALS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. THIS WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS, AND APPLIANCES REQUIRED FOR THE INSTALLATION AS SHOWN ON THE PLANS. THE WORK SHALL ALSO INCLUDE THE MAINTAINING OF ALL THE PLANTS AND PLANTING AREAS UNTIL ACCEPTANCE BY THE OWNER, AND FULFILLING OF ALL GUARANTEE PROVISIONS AS SPECIFIED.

8. PLANT MATERIAL SHALL BE INSTALLED NO LATER THAN 24 HOURS AFTER DELIVERY TO THE SITE. IF NECESSARY FOR TEMPORARY STORAGE PURPOSES, PLANTS SHOULD BE KEPT MOIST AND IN A SHADED AREA WHILE ON SITE.

9. PRIOR TO DELIVERY TO THE SITE, ALL PLANTS TO BE INSTALLED IN INUNDATED CONDITIONS MUST BE WATER HARDENED AT LEAST 30 DAYS PRIOR TO INSTALLATION.

10. ALL PLANT MATERIAL OBTAINED FROM NURSERY STOCK SHALL BE FLORIDA GRADE NO. 1 OR BETTER, AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II BY DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR NURSERY STOCK.

11. ALL TREES, SHRUBS, AND GROUNDCOVERS SHALL BE OF THE SIZES AS CALLED FOR ON THE MATERIALS SCHEDULE. ANY PLANT MATERIAL, DETERMINED BY THE ENGINEER OR THEIR DESIGNEE AS NOT MEETING THE SIZES AND QUALITY AS CALLED FOR, SHALL BE REMOVED FROM THE SITE AND REPLACED AT NO ADDITIONAL COST.

13. THE QUANTITIES SHOWN ON THE CONTRACT DOCUMENTS ARE INTENDED AS A GUIDE TO THE CONTRACTOR WITH THE PREPARATION OF THEIR BID. THE CONTRACTOR AGREES THAT THEY HAVE VERIFIED THE QUANTITIES AND HAS REVISED THEM, IF NECESSARY, PRIOR TO SUBMISSION OF THEIR BID. THE CONTRACTOR FURTHER AGREES THAT NO ADDITIONAL COMPENSATION WILL BE MADE FOR INCORRECT QUANTITIES AFTER THE TIME OF THE BID. PLANT QUANTITIES SHALL FILL ALL PLANTING AREAS AS SHOWN ON THE CONSTRUCTION PLANS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR THEIR DESIGNEE.

13. IN THE EVENT ANY PLANT MATERIAL IS NOT AVAILABLE AS SPECIFIED, OR IN THE QUANTITY NECESSARY TO PERFORM THE WORK, THE CONTRACTOR SHALL SUBMIT ALTERNATES TO THE ENGINEER OR THEIR DESIGNEE FOR APPROVAL, PRIOR TO INSTALLATION OF THE PLANT MATERIAL.

14. A MINIMUM SURVIVORSHIP OF 100% IS REQUIRED AND SHALL BE GUARANTEED BY THE CONTRACTOR FOR 30 DAYS, SUBSEQUENT SURVIVORSHIP, MONITORING AND MAINTENANCE SHALL BE AS STIPULATED IN PERMITS FROM FROM THE ENVIRONMENTAL PERMITTING AGENCIES.

15. REMOVAL OF EXOTICS AND NOXIOUS SPECIES SHALL INCLUDE:
BRAZILIAN PEPPER *(Schinus terebinthifolius)*
AUSTRALIAN PINE *(Casuarina equisetifolia)*
CARROTWOOD *(Cupaniopsis anacardioides)*
PRIMROSE WILLOW *(Ludwigia peruviana)*
SESBANIA *(Sesbania punicea)*
CATTAIL *(Typha spp.)*
AND OTHERS AS STIPULATED IN THE PERMITS FROM THE PERMITTING AGENCIES.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF THE PREMISES AND REMOVAL OF ALL DISCARDED AND SURPLUS MATERIALS AND RUBBISH THROUGHOUT THE COURSE OF THE PROJECT.

17. PRIOR TO THE START OF CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF UTILITIES WITH THE OWNER OF THE UTILITY. EXISTING UTILITIES AND STRUCTURES ARE SHOWN ACCORDING TO AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER (SUNSHINE 1–800–432–4770) 48 HOURS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

18. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT, SWFWMD, AND HILLSBOROUGH COUNTY STANDARDS AND SPECIFICATIONS.

19. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IMMEDIATELY IF ACTUAL CONDITIONS CONFLICT WITH THAT WHICH IS SHOWN ON THE DRAWINGS.

20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL NECESSARY CONSTRUCTION STAKING REQUIRED TO INSTALL THE IMPROVEMENTS NOTED ON THESE DRAWINGS. THE COSTS FOR CONSTRUCTION STAKE–OUT SHALL BE INCLUDED IN THE PRICE BID AND NO EXTRA COMPENSATION ALLOWED.

21. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT NATIVE TREES NOT DESIGNATED TO BE REMOVED BE SAVED AND REMAIN UNDAMAGED DURING CONSTRUCTION. ALL TREE PROTECTION DEVICES SHALL BE INSTALLED AT 20' FOR LARGE TREES /10' FOR SMALL TREES OR AT THE DRIPLINE (WHICHEVER IS GREATER) PRIOR TO THE INITIATION OF ANY WORK AT THE PROJECT SITE.

22. THE CONTRACTOR SHALL NOT ENTER UPON, OR IN ANY WAY ALTER THE WETLAND PRESERVATION AREAS THAT MAY BE ONSITE, EXCEPT AS SPECIFIED ON THE PLANS OR FOR AUGMENTATION PLANTINGS AND EXOTIC CONTROL. ALL WORK PERFORMED IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM VIOLATION OF PERMIT CONDITIONS.

23. EXCAVATION
(A) ALL ELEVATIONS REFER TO 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD).
(B) THE CONTRACTOR SHALL CLEAR AND GRUB TO REMOVE STUMPS, ROOTS, TREES, VEGETATION, AND OBSTRUCTIONS TO THE WORK IN ALL AREAS DESIGNATED FOR SITE GRADING.
(C) THE SURVEY INFORMATION CONTAINED HEREIN WAS OBTAINED FOR DESIGN PURPOSES AND MAY NOT BE AN ADEQUATE REPRESENTATION OF ACTUAL CONDITIONS FOR PROJECT CONSTRUCTION. EXISTING CONTOURS SHOWN REPRESENT INTERPOLATIONS /EXTRAPOLATIONS FROM THE BEST AVAILABLE SURVEY DATA. ALL RISKS RESULTING FROM THE USE OR INTERPRETATION OF THE SURVEY DATA SHOWN SHALL BE BORNE BY THE CONTRACTOR.

24. GRADING
(A) ALL ROOTS AND OTHER DEBRIS SHALL BE REMOVED FROM WITHIN THE CONSTRUCTION AREAS TO A DEPTH OF AT LEAST 2 FEET BELOW THE PROPOSED GRADE.
(B) FOR PROPOSED FINISHED GRADES, GRADE TOLERANCES SHALL BE +/– 0.20 FEET SUCH THAT THE AVERAGE OF ALL DEVIATIONS FOR THE DESIGN CONTOURS DOES NOT EXCEED 50% OF EITHER THE + OR – TOLERANCES.
(C) ANY FILL OR BACK–FILL AREAS (EXCLUDING POND BACK–FILL) SHALL BE COMPACTED TO 90 PERCENT OF STANDARD PROCTOR IN ACCORDANCE WITH AASHTO D–698. ALL UNSUITABLE SOILS EXCAVATED FROM THE SITE SHALL BE DISPOSED OF BY CONTRACTOR.
(D) IMMEDIATELY BEFORE REQUESTING THE FINAL INSPECTION BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL CHECK ALL LINES AND DRESS TO THE PROPER CONTOURS. ALL AREAS ARE TO BE STABILIZED. THESE AREAS ARE TO BE MAINTAINED UNTIL ACCEPTANCE. WHEN UPLAND AND WETLAND PLANTING AREAS ARE INDICATED ON DRAWINGS OR SPECIFIED, THE CONTRACTOR SHALL MAKE ALLOWANCES WHEN ROUGH GRADING FOR THE FINISHED GRADES IN THESE AREAS. TRANSITION GRADING BETWEEN EXISTING GRADES AND DESIGN CONTOURS SHALL BE AT GRADING LIMITS.
(E) CONSULT PROJECT GEOTECHNICAL ENGINEER FOR ALL SITE PREPARATION AND COMPACTION REQUIREMENTS AND SPECIFICATIONS.

25. EROSION AND SEDIMENT CONTROL
(A) THE CONTRACTOR SHALL ERECT FLOATING TURBIDITY BARRIERS PRIOR TO COMMENCING ANY GRADING WORK, AS APPLICABLE.
(B) REQUIRED EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED AS REQUIRED BY PROJECT PERMITS THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRIERS WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTER 40D–40 F.A.C.
(C) WATER QUALITY STANDARDS SHALL BE MAINTAINED PURSUANT TO SECTION 62–302, 62–4.242, AND 62–4.244 F.A.C.
(D) ALL EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR IN COMPLIANCE WITH SWFWMD, HILLSBOROUGH COUNTY, AND NPDES PERMIT REQUIREMENTS THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL DEVICES DAILY AND WITHIN 4 HOURS AFTER EVERY RAINFALL EVENT OF 0.25 INCHES OR MORE. ALL MAINTENANCE SHALL BE PERFORMED WITHIN 24 HOURS OF INSPECTION.
(E) ALL PRACTICABLE AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, WETLANDS, AND MARSH AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED. SUCH EFFORTS WILL BE IDENTIFIED BY THE PROJECT ENGINEER.
(F) THE CONTRACTOR SHALL CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT AND SHALL USE STRAW, MULCH, WATER, OR OTHER SUITABLE MATERIAL AS REQUIRED. (G) THE CONTRACTOR SHALL MAINTAIN TURBIDITY BARRIERS UNTIL COMPLETION AND ACCEPTANCE OF ALL GRADING AND PLANTING.
(H) THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL (TURBIDITY BARRIERS, HAY BALES, OR OTHER AS APPROVED) AT ALL GRADED AREAS AFTER GRADING IS COMPLETE. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL PLANTING AND GROUNDCOVER IS ESTABLISHED.
(I) COSTS FOR PROVIDING, MAINTAINING AND REMOVING EROSION AND SEDIMENT CONTROL WHERE NO SPECIFIC ITEM IS PROVIDED SHALL BE INCLUDED IN THE CONSTRUCTION GRADING COSTS.
(J) EROSION CONTROL DEVICES (ie: SILT FENCE, FLOATING TURBIDITY BARRIER) ARE DEPICTED IN APPROXIMATE LOCATIONS AND SHALL BE ADJUSTED AS NECESSARY WITH THE DIRECTION OF THE PROJECT ENGINEER IN ORDER TO AVOID EXISTING NATIVE PLANTS AND PRESERVATION AREAS.
(K) ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED REFER TO BID DOCUMENTS FOR METHOD OF STABILIZATION.

26. WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE CONTRACTOR UPON OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED. THE PROJECT ECOLOGIST SHALL DESIGNATE MONITORING LOCATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29 NTU ABOVE BACKGROUND). MONITORING OF WATER QUALITY SHALL BE CONDUCTED A MINIMUM OF TWICE DAILY FOR ANY EARTHWORK ACTIVITIES WITHIN TAMPA BAY. MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM ONE (1) UPSTREAM OF THE ACTIVITY AND ONE (1) DOWNSTREAM OF THE EROSION CONTROL DEVICES, BUT WITHIN THE PROJECT LIMITS. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES RE–EVALUATED BY THE PROJECT ECOLOGIST PRIOR TO ANY CONTINUATION OF ACTIVITIES. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL. WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ECOLOGIST. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NPDES PERMIT AND MONITORING WATER QUALITY STANDARDS AS SPECIFIED WITHIN SUCH PERMIT. INSPECTION QUALIFIED PERSONNEL SHALL INSPECT THE ABOVE, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A STORM THAT IS 0.25 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH.

27. TREE PROTECTION
THE PROJECT ECOLOGIST WILL DETERMINE WHICH TREES SHOULD BE PROTECTED AND SAVED.

28. EXISTING WELLS
SHALL BE CAPPED, PLUGGED OR ABANDONED IN ACCORDANCE WITH SWFWMD RULES AND REGULATIONS BY A LICENSED WELL CONTRACTOR.

29. AS–BUILT DRAWINGS
THE CONTRACTOR SHALL PROVIDE THE REQUIRED NUMBER OF AS–BUILT DRAWINGS SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR. SAID AS–BUILTS SHALL VERIFY TOPOGRAPHIC GRADING, CULVERT HORIZONTAL & VERTICAL CONTROL, ETC.

30. DEWATERING:
IF DEWATERING IS NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, FILING AND PAYING ALL ASSOCIATED COST FOR ANY PERMITS REQUIRED TO COMPLETE THE DEWATERING.

31. QUANTITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO VERIFY PRIOR TO BIDDING.

NOTE:
IF IT IS DETERMINED THAT MODIFICATIONS TO THE PROJECT DESIGN ARE REQUIRED TO INSURE THE MAXIMUM PROBABILITY OF SUCCESS, THE PROJECT MANAGER MAY MAKE THESE MODIFICATIONS WITH VERBAL APPROVAL FROM THE FDEP WETLAND RESOURCE MANAGEMENT, ENVIRONMENTAL MANAGER. THESE MODIFICATIONS SHALL BE RECORDED AND SUBMITTED IN WRITING AS A REQUEST FOR MODIFICATION WITHIN TWO WEEKS OF HAVING RECEIVED VERBAL APPROVAL. ALL APPROVED MODIFICATIONS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES. SEVERAL MODIFICATIONS MAY BE INCLUDED IN ANY ONE REQUEST FOR MODIFICATION.

Site A	
Raw Cut Volume	224.40 cu. yd.
Raw Fill Volume	11.13 cu. yd.
Site B	
Raw Cut Volume	4382.07 cu. yd.
Raw Fill Volume	4448.93 cu. yd.
Site C	
Raw Cut Volume	1775.83 cu. yd.
Raw Fill Volume	1.81 cu. yd.

PREPARED BY:
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TAMPA, FLORIDA 33617
IN ASSOCIATION WITH:
PEER, INC.

REVISIONS:
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GENERAL NOTES

PREPARED FOR:
NEWMAN BRANCH FISHERY
HABITAT RESTORATION PROJECT

JOB NO.	04.704
DRAWN	kn
DESIGNED	pb
CHECKED	tr
QC	
SHEET	7 of 7