



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
10117 PRINCESS PALM AVENUE, SUITE 120
TAMPA, FLORIDA 33610-8300

REPLY TO
ATTENTION OF

Regulatory Division
Tampa Permits Section

December 5, 2008

PUBLIC NOTICE

Permit Application No. SAJ-2008-4057 (IP-ACR)

TO WHOM IT MAY CONCERN: This district has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

APPLICANT: Claude Melli
CFI-USA
4602 Dogwood Hills Court
Brandon, Florida 33511-8004

WATERWAY & LOCATION: The proposed project is situated within the freshwater herbaceous wetlands of the Myakka River Watershed. The project is located at Highway 62, East of Duette Road, in Section 27, Township 35 South, Range 22 East, Manatee County, Florida.

Directions to the site are as follows: From Interstate 75 (I-75) take exit 240A State Highway 674 East. Travel east on State Highway 674/ College Avenue for 14.8 miles. Turn right at Highway 39/ Kickliter Road. Continue on Highway 39 for 8 miles. Take a left when reaching State Road 62 and travel for approximately 3.5 miles. Project site is on the south side of the road.

LATITUDE & LONGITUDE: Latitude: 27.114247 North
Longitude: -81.362652 West

PROJECT PURPOSE:

Basic: Create a surface water recovery system.

Overall: Create a surface water recovery system in collaboration with the existing drainage network currently serving a 310 acre orange grove in east Manatee County.

PROPOSED WORK: The applicant proposes to permanently impact 3.60 acres of Corps jurisdictional wetlands to create a surface water supplemental irrigation source. Approximately 16,000 cubic yards of fill will be excavated from the 3.60 acres of the 35 acre wetland system. The proposed excavation will be used to create a dike along the wetland border and expand the hydrologic storage capabilities of the subject wetland. The proposed dredging operation is aimed at deepening and expanding the existing wetland system. The maximum depth of inundation of the subject wetland will be an increase by two feet.

AVOIDANCE AND MINIMIZATION INFORMATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment: The applicant has avoided and minimized wetland and aquatic resource impacts by limiting the impacts to the higher quality wetland areas. The proposed construction will be done in a manner to minimize adverse affects on wildlife water quality and environmental value by utilizing silt fences, methods of soil compaction, sod, seed and physical barrier.

COMPENSATORY MITIGATION: As mitigation for the 3.60 acre wetland impact the applicant has proposed to create a 3.90 acre wetland as an expansion of the existing 35 acre wetland. This will be accomplished by relocating the existing dike further south into the adjacent grassland. No plantings have been proposed within the wetland creation area. The applicant has proposed to remove invasive plant species during the construction of the 3.90 acre wetland.

EXISTING CONDITIONS: The project site is a 310 acre orange grove containing man-made canals, a 35 acre wetland, and 4 small man-made ponds. The 35 acre freshwater palustrine and seasonally flooded wetland that is located within the drainage network of the grove. The subject 35 acre wetland is a severally disturbed, overgrown and vegetated non-forested wetland system. The wetland is emptied by a man-made canal that discharges directly into the East Fork of the Manatee River.

ENDANGERED SPECIES: Portions of the project area provide suitable foraging habitat (SFH) for the federally endangered wood stork (*Mycteria americana*). No wood storks have been observed on the site during species surveys or other site visits conducted by the applicant. Based on the information provided, the U.S. Army Corps of Engineers (Corps) has determined that the proposed project "may affect, but is not likely to adversely affect" (NLAA) the wood stork. As outlined in the FWS approved *Wood Stork Effect Determination Key for Central and North Peninsular Florida, September 2008* ("Key") the project impacts to suitable foraging habitat (SFH) have been avoided and minimized to the extent practicable, and compensation for unavoidable impacts is proposed in accordance with the Clean Water Act 404(b)(1) (CWA) guidelines, with no net loss of wetland function. The applicant's mitigation proposal to create 3.90 acres of wetlands on-site will result in a no net loss of wetland function. In accordance with the FWS Key, with an outcome of "NLAA," the requirements of section 7 of the CWA are fulfilled and no further action is required.

The Corps has determined the proposed project may affect, but is not likely to adversely affect" (NLAA) the eastern indigo snake (*Drymarchon corais couperi*). This determination is based on the applicant's compliance with the *Standard Protection Measures for the Indigo Snake*. In accordance with the FWS Key, with an outcome of "NLAA," the requirements of section 7 of the CWA are fulfilled and no further action is required.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries in the project site. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

Comments regarding the application should be submitted in writing to the District Engineer at the above address within 21 days from the date of this notice.

If you have any questions concerning this application, you may contact Ms. Angela C. Riddle at the letterhead address, by electronic mail at Angela.C.Riddle@usace.army.mil, by fax at 813-769-7061, or by telephone at 813-769-7069.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

IMPACT ON NATURAL RESOURCES: Preliminary review of this application indicates that an Environmental Impact Statement will not be required. Coordination with US Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area. By means of this notice, we are soliciting comments on the potential effects of the project on threatened or endangered species or their habitat.

IMPACT ON CULTURAL RESOURCES: Review of the latest published version of the National Register of Historic Places indicates that no registered properties, or properties listed as eligible for inclusion therein, are located at the site of the proposed work. Presently, unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished.

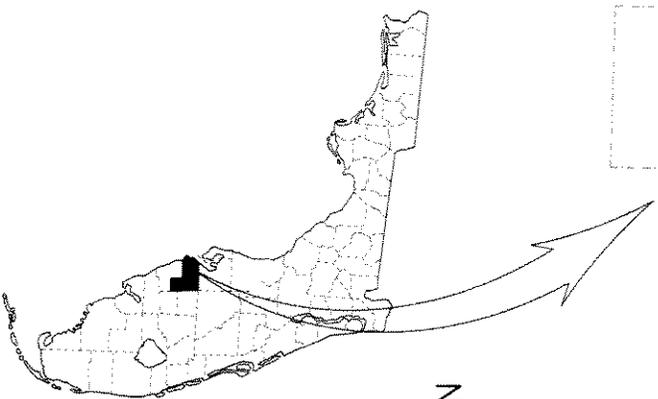
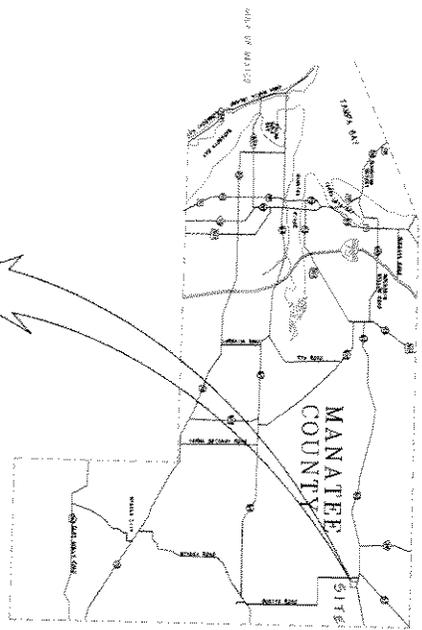
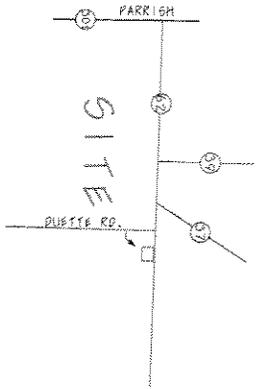
EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act of the criteria established under authority of Section 102(a) of the Marine, Protection, Research, and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make or deny this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with approved Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.


David S. Hobbie
Regulatory Division



INDEX TO DRAWINGS

<u>DRAWING NO.</u>	<u>TITLE</u>
1	COVER SHEET
2	PLAN VIEW
3	TYPICALS & SECTIONS
4	CONSTRUCTION SPECIFICATIONS

**CLAUDE MELLI
CFI GROVES**

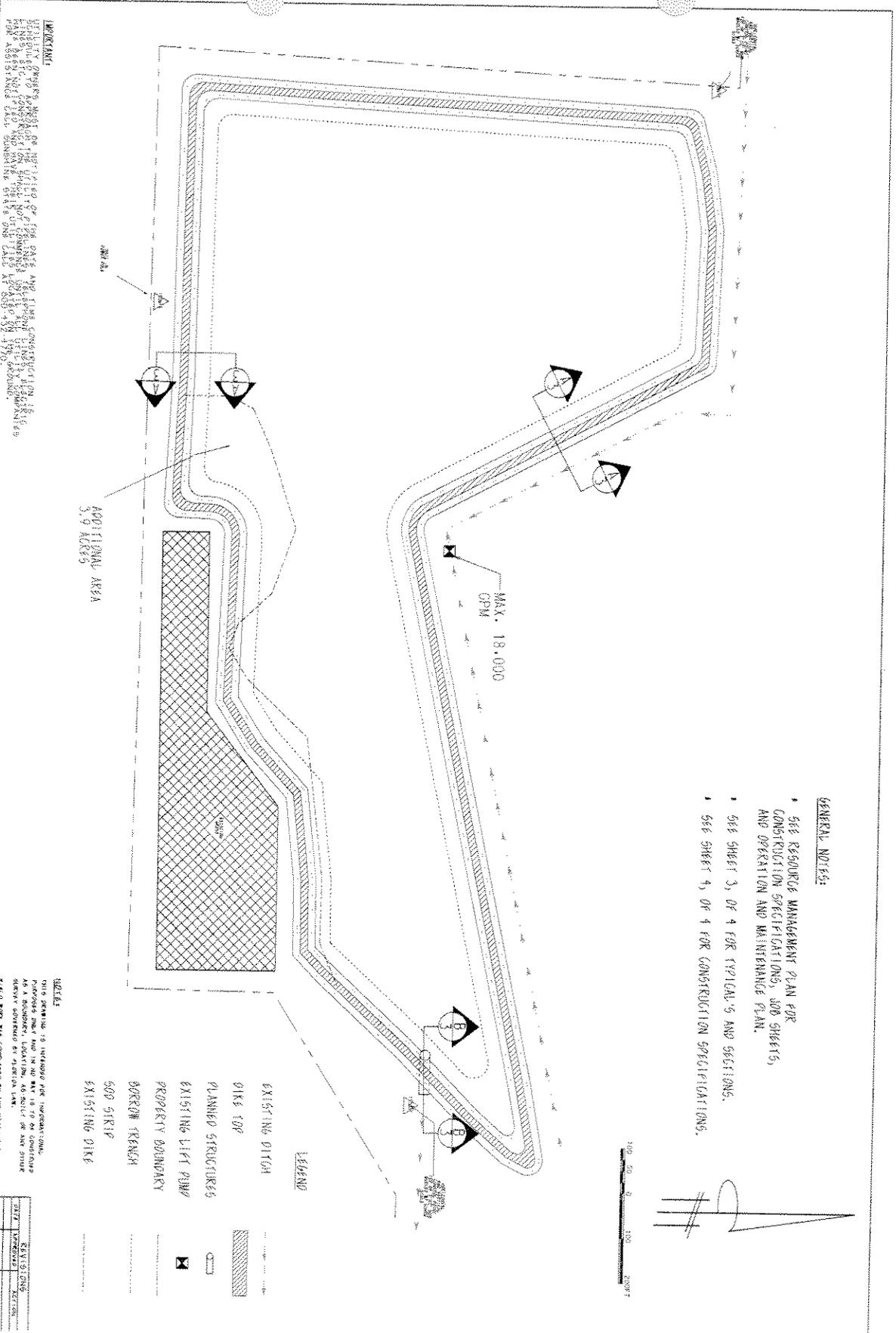
PREPARED BY:

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE
 IN COOPERATION WITH
 SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 AND
 MANATEE RIVER
 SOIL AND WATER CONSERVATION DISTRICT

CONSTRUCTION DRAWINGS APPROVED

PROJECT ENGINEER

DAT



IMPORTANT:
 ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CITRUS GROVE SPECIFICATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (FDOT) SPECIFICATIONS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CITRUS GROVE SPECIFICATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (FDOT) SPECIFICATIONS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CITRUS GROVE SPECIFICATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (FDOT) SPECIFICATIONS.

- GENERAL NOTES:**
- SEE RESOURCE MANAGEMENT PLAN FOR CONSTRUCTION SPECIFICATIONS, JOB SHEETS, AND OPERATION AND MAINTENANCE PLAN.
 - SEE SHEET 3, OF 4 FOR TYPICALS AND SECTIONS.
 - SEE SHEET 4, OF 4 FOR CONSTRUCTION SPECIFICATIONS.

NOTES:
 THIS DRAWING IS INTENDED FOR INFORMATIONAL PURPOSES ONLY AND IS NOT MEANT TO BE CONSIDERED AS A CONTRACT. LOCATION, AS SHOWN ON ANY OTHER DRAWING, SHALL BE GOVERNED BY ANY OTHER DRAWING. THIS DRAWING REMAINS THE PROPERTY OF CFI USA.

DATE	REVISION



CFI GROVES
 PLAN VIEW

DATE	BY	FOR
02/00	PAULY PERHAM	DESIGNED
02/00	PAULY PERHAM	DRAWN
02/00	PAULY PERHAM	CHECKED
		APPROVED

CONSTRUCTION SPECIFICATIONS

1. SCOPE

The work shall consist of all construction operations, furnishing materials and complete installation of the proposed works required by design, drawings, and specifications.

2. LOCATION

The location of the works shall be as shown on the drawings or as staked in the field.

3. SITE AND FOUNDATION PREPARATION

Areas to be excavated and areas to be occupied by the works shall be cleared of trees, brush, tall standing vegetation, and other debris unless otherwise specified. Objectionable materials encountered shall be removed, burned, buried, or otherwise disposed of as specified or approved by the NRCS technician. It will be the responsibility of the landowner to obtain the necessary permits for burning debris.

The foundation will be firm soil material. Any areas of muck and other soft unstable materials will be excavated and replaced with Foundation surfaces shall be sloped no steeper than a ratio of one horizontal to one vertical. The foundation area shall be thoroughly scarified before placement of the fill material. The surface shall have moisture added, unless the first layer of fill material can be compacted and bonded to the foundation without adding moisture.

Existing stream channels in the foundation area shall be sloped no steeper than a ratio of one horizontal to one vertical. They shall be deepened and widened as necessary to remove all stones, gravel, sand, stumps, roots, and other objectionable material and to accommodate compaction equipment. Foundation areas shall be kept free of standing water when fill is placed on them.

4. REMOVAL OF WATER

Surface water and ground water will be removed as needed to perform the required construction in accordance with the plans and specifications. It shall include: (1) building and maintaining all necessary temporary impounding works, channels, and diversions; (2) furnishing, installing and operating all necessary pumps, piping, and other facilities and equipment; (3) removing all such temporary works and equipment after they have served their purpose. After removal, the area shall present a slightly appearance and not obstruct the flow of water or interfere with the operation of, or access to, the permanent works.

When specified in the construction details, the contractor shall furnish to the NRCS his plan for diverting surface water and de-watering before beginning the construction work. Acceptance of this plan will not relieve the contractor of responsibility for completing the work as specified.

Removal of water from the construction site, including the borrow areas, shall be accomplished in such a manner that erosion and the transmission of sediment and other pollutants are minimized.

5. EXCAVATION

All excavation shall be done in conformance with the dimensions on the drawings or as staked in the field. Earth spoil material from the excavation shall be spread, shaped, or placed in spoil banks as specified or as shown on the drawings. The side slopes and spoil material area shall be finished to a smoothness so the surface can be readily traveled upon by farm type equipment. All suitable material resulting from the required excavation shall be used for backfilling and land leveling operations. Excess material resulting from the required excavation shall be disposed of in legal manner.

6. PIPE CONDUIT INSTALLATION

Pipe materials shall conform to the requirements specified on the plans, drawings, or as designated in the construction details. All appurtenances shall be of materials compatible with the pipe. Standard band couplers are satisfactory unless otherwise specified. Flat channel, universal (dimple), sleeve joint, and internal type bands shall not be used. Joints shall be the same material as the pipe and watertight.

Pipe structures shall be constructed of durable materials with a life expectancy equal to the planned life of the structure. Pipe conduits shall meet the requirements as stated in NRCS Florida conservation practice standard for Pond, Code 378. All corrugated metal pipe shall be in accordance with the engineering drawings and NRCS Material Specification, 552. ALUMINUM CORRUGATED PIPE or equal. Polyethylene, Type III, Class C, Category 4 or 5 conforming to ASTM D1248 or D3350 and AASHTO M252 or M294, Type S may be used with prior approval of the NRCS Engineer.

Special treatment shall be provided to pipe embedded in, or attached to, concrete where the pipe is aluminum or aluminum-coated and aluminum-zinc alloy-coated. Potential contact surfaces shall be insulated. All aluminum, aluminum-coated, and aluminum-zinc alloy-coated pipe surfaces in contact with concrete and masonry surfaces shall be coated with two coats of a bituminous paint of the cut-back type. Placement of the pipe shall be such that direct metal-to-metal contact with other metallic materials, such as embedded steel reinforcement or water control gates, is prevented.

The pipe shall be laid to the line and grade shown on the drawings or as staked in the field. It shall be firmly and uniformly bedded of molded bed shall be a minimum of one-tenth times the outside diameter of the pipe below the level of the original bottom of the trench or excavation. The molded bed shall have loose friable material of sufficient thickness to prevent voids under the pipe.

The pipe shall be loaded sufficiently during back-filling around the sides to prevent being lifted from the bedding. Concrete appurtenances shall meet the requirements of the NRCS National Handbook, Section 3, Structure Concrete.

7. EARTH FILL PLACEMENT

The fill material shall be free of sod, brush, roots or other perishable materials in addition to rocks, hard lumps, or clods larger than one-half (1/2) the fill layer thickness. The moisture content shall be maintained within limits to permit efficient blending, bonding, and compaction of materials. Heavy equipment shall not be allowed within two feet of any structure. Earthfill shall be compacted according to the following requirements:

() Construction equipment shall be operated so that the entire surface is compacted by at least two passes over the entire surface by standard earth moving equipment except adjacent to the structure each layer shall be thoroughly compacted by manually directed power tampers or plate vibrators. The fill material shall be deposited evenly in layers not exceeding 9 inches in depth before compaction except adjacent to structures where the layer thickness shall not exceed 6 inches.

() On clean, free draining, sandy backfill materials, consolidation around conduit may be accomplished by thoroughly wetting (saturating) soil on layers of 12 inches or less. This procedure must be approved by the NRCS after it has been demonstrated to achieve the desired density. When increased density is required, vibrating the wet material by vibratory rollers, tractors (track vehicles), surface vibrators, internal vibrators or other methods will be specified in the construction details.

8. ALLOWANCE FOR SETTLEMENT

The completed works shall conform to the lines, grades, and elevations shown on the design drawings or as taken in the fields with allowances for settlement added as specified.

compaction by crawler type dozer of 12-inch layers on clean, free draining,

n.

9. POLLUTION AND WORKMANSHIP

Construction operations shall be carried out so that erosion and air and water pollution are minimized and held within legal limits. All work shall be conducted in a safe, skillful, and workmanlike manner.

10. BASIS OF ACCEPTANCE

The Natural Resources Conservation Service (NRCS) Field Office will be notified at least 96 hours prior to initiating construction with additional notices designated in the construction details. Failure to notify the NRCS so that there is an opportunity to inspect the work may result in the NRCS not being able to certify that the job will meet standards and specifications. The acceptability of the work shall be determined by inspections to check compliance with the provisions of the plan, drawings, and this specification with respect to the design of the works and the minimum installation requirements.

11. CONSTRUCTION DETAILS

Measures to be performed in conformance with this specifications and construction details therefor are:

a. Plans

All measures shall be installed to the neat lines and grades as shown on the attached drawings.

stable earth fill material.

throughout its entire length. Earthen bedding shall be molded to fit the outer circumference of the pipe in such a manner that the depth

CONSTRUCTION SPECIFICATIONS FOR VEGETATIVE MEASURES

1. SCOPE

The work shall consist of preparing the area for treatment, furnishing and placing seed, sod, mulch, fertilizer and lime as specified in the designated areas.

2. MATERIALS

Seed used shall be in accordance with the rules and regulations under each Florida Seed Laws. Each container of seed shall be labeled as follow

- a. lot number
- b. name of the kind or kind and variety
- c. percentages of pure seed, other crop seed, weed seeds, and inert matter
- d. percentage of germination, and hard seeds (if any)
- e. date tested (month and year)
- f. names and number per pound of noxious weed seed
- g. name and address of shipper

All seed shall be furnished in sealed standard containers, unless exception is granted in writing. Seed shall be thoroughly re-cleaned, and of uniformly good quality and appearance throughout each container. Seed, which has become wet, moldy, or otherwise damaged in transit or in storage will not be acceptable. Each lot of seed shall be subject to sampling and testing. The seed shall contain no prohibited noxious weed seed. The total number of all restricted noxious weed seed shall not exceed 300 per pound. Method of scarification shall be mechanical. Seeds shall conform to the quality requirements as shown in the following table.

Name of seed or mixture	Minimum % pure seed	Minimum % Germination and Hard seed
Argentine bahiagrass (50% scarified)	80	70
Hulled Common Bermudia	95	85
Oats	98	90
Rye	97	85
Wheat	99	90
Browntop millet	98	85

Argentine bahiagrass, Bermudagrass and a nurse crop of oats, rye, or wheat shall be used if planting is done between September and February. Argentine bahiagrass, Bermudagrass and a nurse crop of browntop millet, pearl millet, Japanese millet or Pioso millet shall be used if the seeding is done between March and August.

Sod shall be Argentine Bahiagrass and shall be 12-inch by 12-inch squares or other commercially available rectangles. The sod shall be sufficiently thick (minimum thickness of 2 inches) to provide a dense stand of live grass. The sod shall have been grown on mineral soil. Sod shall be live, fresh, and uninjured at the time of planting and shall be protected from drying out by shading and watering from the time it is dug until planting.

Mulch materials, where seeding and mulching will be done, shall be wheat or oat straw or other plants approved by the Engineer. The mulch material shall be air dry, and shall not be musty, moldy, caked, or otherwise of low quality. The mulch material shall be free of seeds of competing plants and noxious weeds.

Fertilizer shall be either in the liquid or dry form. Fertilizer shall be uniform in composition, free-flowing and suitable for application with standard equipment. The fertilizer shall conform to the Florida Fertilizer Laws in effect on the date of it being placed and shall be delivered in bags, bottles, drums, or other convenient containers, each fully labeled and bearing the name, trademark, analysis, and warranty of the product. Fertilizer shall have an available plant food analysis of 10-10-10 or equivalent plant food value and shall be mixed with the top 3 to 4 inches of soil.

Lime shall be Dolomitic limestone, and shall be in accordance with rules and regulations of Florida Fertilizer Law in effect on the date of it being placed.

Staples for sod placed on side slopes steeper than 3:1 shall be black iron wire not smaller than 14 gauge, and bent from a length of wire at least 25 inches long into a .U. with a 1 inch width at the crown.

Water used for irrigation may be obtained from any approved source. It shall be free of excess and harmful chemicals, acids, alkalies, or any substance which is harmful to plant growth

to a depth of 3 to 4 inches. Fertilizer and lime shall be uniformly spread over the area and shall be applied at the rate of 800 pounds per acre or 18 pounds per 1000 square feet.

Lime shall be applied at the rate of one ton per acre or 75 pounds per 1000 square feet.

Where sodding will be done, all loose rock, woody material, and other obstructions that will interfere with sodding shall be removed and the area be reasonable smooth and uniform. Lime and fertilizer will be applied in the same quantity and manner as for seeding.

4. VEGETATIVE TREATMENT

Vegetative treatment required by this specification shall consist of performing the items specified in the manner designated below.

Seeding shall consist of site preparation and seeding at the rates and manner described in this specification. All disturbed areas not sodded will be seeded.

The seeding rate shall be:

<u>Permanent Seed</u>		<u>Temporary Seed</u>	
Bahiagrass	30 pounds per acre	Rye grass	1 Bushell per acre
and	or 0.7 pounds per 1000 sq. ft	or	
Hulled Common	10 pounds per acre	Oats	2 bushell per acre
Bermuda grass		or	
		Wheat	1 bushell per acre
		or	
		Browntop Millett	30 pounds per acre
			Or 0.7 pounds per 1000 sq. ft

The seed shall be uniformly spread over the area and covered 1/2 to 1-inch deep.

Seeding, Sprigging, Fertilizing, Mulching, and Stabilizing, immediately following seedbed preparation the seed shall be evenly distributed over the entire area by broadcasting or hydro-seeding methods. Hydro-seeding shall be accomplished as follows. All hydro-seeding operations shall be accomplished with a minimum of 400 gallons of water per acre. Hydraulic seeding equipment shall include a pump rated at not less than 100 gallons per minute. The equipment shall have a suitable working pressure and a nozzle adapted to the type of work. Supply tanks shall have a means of agitation. Tanks shall be calibrated and provided with a calibration stick or other approved device to indicate the volume used or remaining in the tank.

Mulching will be performed after the seeding has been done, uniformly spread 2 tons of mulch per acre over the area so that 25 percent of the ground surface is visible. The mulch shall be anchored into the soil by, cutting, the mulch to a depth of 3 inches with a disc set almost straight or other similar method acceptable to the NRCS technician. Approximately one-half of the mulch material shall be above the soil surface. The area shall be firmed with a cultipacker, roller, or other equipment approved by the NRCS technician. The mulch anchoring and firming of the soil may be done in one operation if good workmanship is accomplished and it is approved by the NRCS technician.

Sodding shall consist of site preparation, sodding and irrigating at the rates and manner described in this specification.

The sod strips shall be laid in a staggered pattern with snug even joints. All joint shall be butted tight to prevent voids. Immediately following sod placement, it shall be rolled or tamped to insure solid contact of root mat to soil surface. The sod shall be securely anchored to the soil by pinning with staples or wooden pegs when placed on slopes steeper than 3:1. Pin or peg every 3 feet along each strip of sod.

5. IRRIGATION REQUIREMENTS FOR SOD

All areas to be sodded shall be irrigated with 1/2 inch of water prior to placement of the sod if soil moisture is deficient

6. CONSTRUCTION DETAILS

Inlieu of cutting in the mulch, the mulch may be anchored by netting in accordance with manufacturers recommendations.

Erosion control matting may be substituted for mulch. The type of erosion control netting will be specified in the construction details.

Hydroseeding will be allowed at the approval of the designer. A design mix will be submitted for approval prior to use.

a. All disturbed area shall be vegetated immediately.

b. name of the kind or kind and variety

Bermuda grass or