DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

Regulatory Division
199404532(IP-BB)
Modification #6

SEP 20 2000

Mr. Neil Larson
Ecosystem Restoration Department
South Florida Water Management District
P.O. Box 24680
West Palm Beach, Florida 33406-4680

Dear Mr. Larson:

Reference is made to the Department of the Army Permit, numbered 199404532, that authorized certain works for the Everglades Construction Project. The permit was issued to the South Florida Water Management District on March 13, 1997. This letter hereby modifies that permit.

The Project Description on the first page is hereby modified by adding the following to the end of the paragraph: "<u>, and Stormwater Treatment Area 3/4 (Enclosure I)</u>" The following language is hereby inserted into the second sentence of Special Condition 4: "These works (described by Enclosure I) <u>consist of the Stormwater Treatment Area (STA) proper, the L-5 canal, and the hydropattern works. The works for the STA itself and the enlargement of the borrow canal L-5 to enable water discharging from the STA to flow to and discharge into the North New River and Miami Canals immediately upstream of Stations S-7 and S-8 respectively are authorized. The hydropattern restoration features</u> are not authorized for construction by this permit instrument." The enclosed drawings pages 47, 48, and 49 hereby replace the existing pages of the same numbers.

Thank you very much for your assistance in advising of this design change and for your cooperation with our permit program.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

John R Hall for
James G. May
Colonel, U.S. Army
District Engineer

Enclosures

Enclosure I

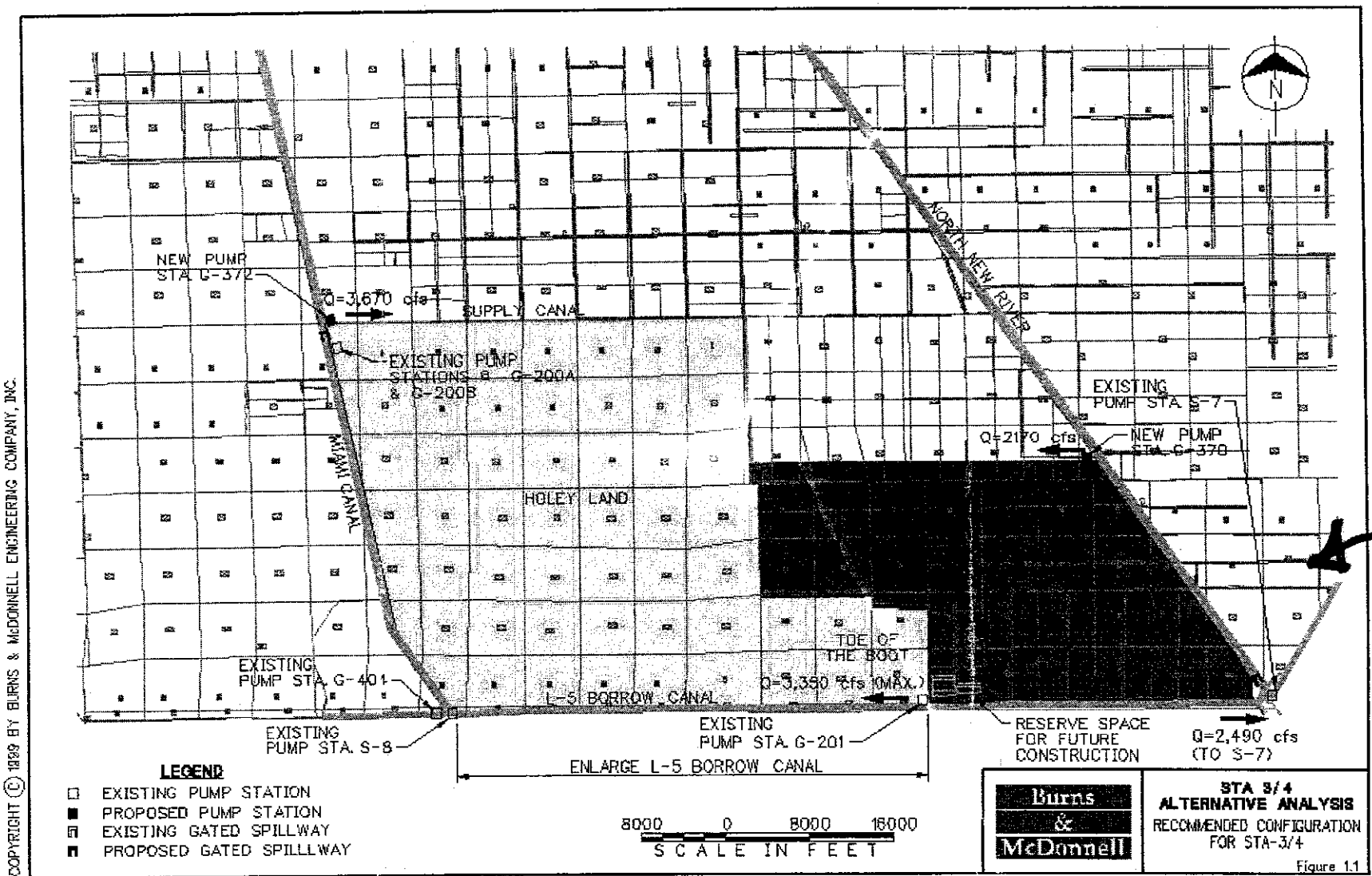
Stormwater Treatment Area 3/4
including
Hydropattern Restoration
for
Water Conservation Area 3A East

~~This project will: add a control structure and pump station to divert flows from the Miami Canal; add inflow canals, perimeter levees, control structures, and seepage canals to flood certain agricultural lands to create five treatment cells; add collection canals and control structures to discharge treated water into the L-5 borrow canal; degrade the South Levee L-5 and install structures in the L-5 borrow canal to discharge treated water across the degraded levee into the northeast perimeter of Water Conservation Area 3A. The project will provide an effective treatment area of approximately 16,660 acres. The initial works (prior to modification of the permit for new information) are described by the drawings on pages 48 to 51.~~

The works authorized at this time consist of placement of fill related to construction of: levees, seepage collection canals and return pumps to flood certain agricultural and other lands; Pump Station G-370 (on the North New River Canal), Pump Station G-372 (on the Miami Canal) and inflow distribution canals and control structures along the northern perimeter of the treatment area; certain interior levees, a collection canal and structures along the southern perimeter of the treatment area to discharge flows into existing Canal L-5; widening of Canal L-5 along the southern perimeter of the Holey Land. The project will provide an effective treatment area of approximately 16,660 acres. The works are described by the drawings on pages 48 to 51.

The hydropattern restoration works are not authorized at this time. These consist of degrading the South Levee L-5 and install structures in the L-5 borrow canal to discharge treated water across the degraded levee into the northeast perimeter of Water Conservation Area 3A.

This replaces drawing page 47 of 60 that was dated 10 MAR 97 and attached to U. S. Army Permit# 1994104532



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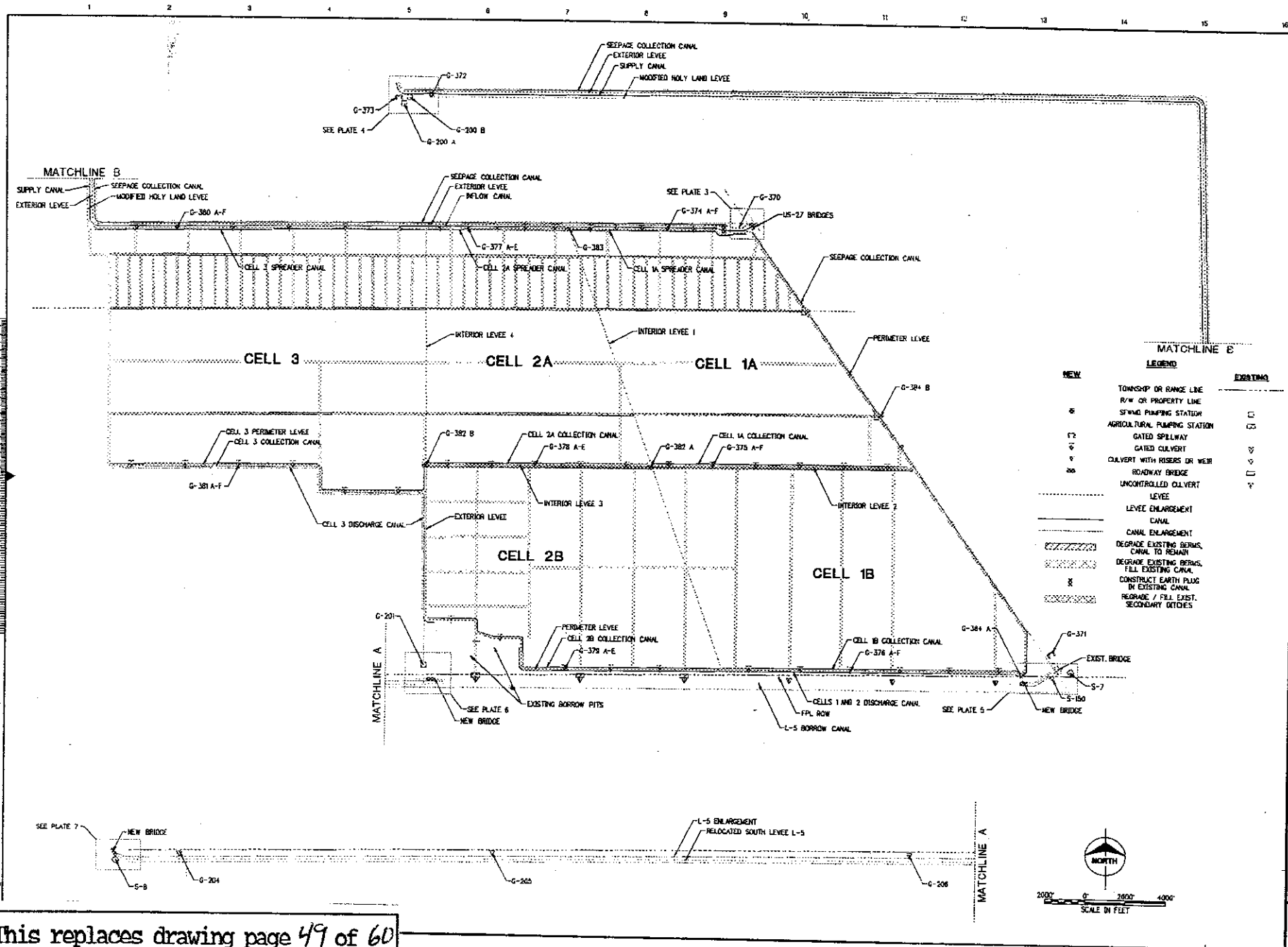
STA 3/4

This replaces drawing page 48 of 60 that was dated 10 MAR 97 and attached to U. S. Army Permit# 199404532



This replaces drawing page 49 of 60 that was dated 10MAR97 and attached to U. S. Army Permit# 199404532

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MAR 12 2001

Mr. Neil Larson
Ecosystem Restoration Department
South Florida Water Management District
P.O. Box 24680
West Palm Beach, Florida 33406-4680

Dear Mr. Larson:

Reference is made to the Department of the Army Permit, numbered 199404532, that authorized certain works for the Everglades Construction Project. The permit was issued to the South Florida Water Management District on March 13, 1997. This letter hereby modifies that permit related to Hydropattern Restoration works for Water Conservation Area 2A (WCA-2A).

The enclosed drawing page 18 hereby replaces the existing page 18 added by Modification #5, drawing page 19 and 20 replaces the existing pages, and drawings page 20B, 20C and 20D are hereby added to the permit instrument to add work related plugging the L-6 borrow canal near S-7, placing a control structure, raising West Levee L-6, and degrading East L-6 Levee near S-7. The changes in the drawings also eliminate the originally planned extent of degradation of East Levee L-6. The locations for water to flow from STA-2 into WCA-2A are now, at the north end of Borrow Canal L-6, the 6 culverts described by the previous Modification #5 and, at the south end, across the approximately 15,000 feet of degraded East Levee L-6.

The following new subparagraph and sub-subparagraphs are hereby added to Special Condition 18 to reflect actions taken by the Florida Department of Environmental Protection.

"a. The following Special Conditions of this permit no longer apply to work related to Stormwater Treatment Area 2 and its associated Hydropattern Restoration works (STA-2) since they are either superceded or duplicated by the provisions in the Florida Department of Environmental Protection (FDEP) National

Pollution Discharge Elimination System (NPDES) Permit Number FL0177946-001, Administrative Order Number AO-005-EV, FDEP Everglades Forever Act Permit Number 0126704, and Administrative Order Number AO-006-EV, all four issued by FDEP on September 29, 2000. Except for Special Condition 1, the conditions listed below still apply to the remainder of the work authorized by this permit."

"(1) Special Condition 1 (superceded by various requirement of the FDEP documents, including Condition VII.F of the NPDES Permit Number FL0177946-001 and Specific Condition 10 of the Everglades Forever Act Permit Number 0126704.)"

"(2) Special Condition 5 (duplicated by Special Condition 14 of Administrative Order Number AO-005-EV.)"

"(3) The lead paragraph of Special Condition 7 and the sub-paragraphs 7a., 7b., and 7c. (duplicated by Special Condition 15 of Administrative Order Number AO-005-EV.)"

"(4) Sub-paragraph 7d. (superceded by Specific Condition 9 of the Everglades Forever Act Permit Number 0126704.)"

"(5) Special Condition 8 (superceded by various monitoring requirements of the FDEP documents.)"

Thank you very much for your assistance in advising of this design change and for your cooperation with our permit program.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

John R Hall for
James G. May
Colonel, U.S. Army
District Engineer

Enclosures

Enclosure C

Hydroperiod Restoration
for
Water Conservation Area 2A

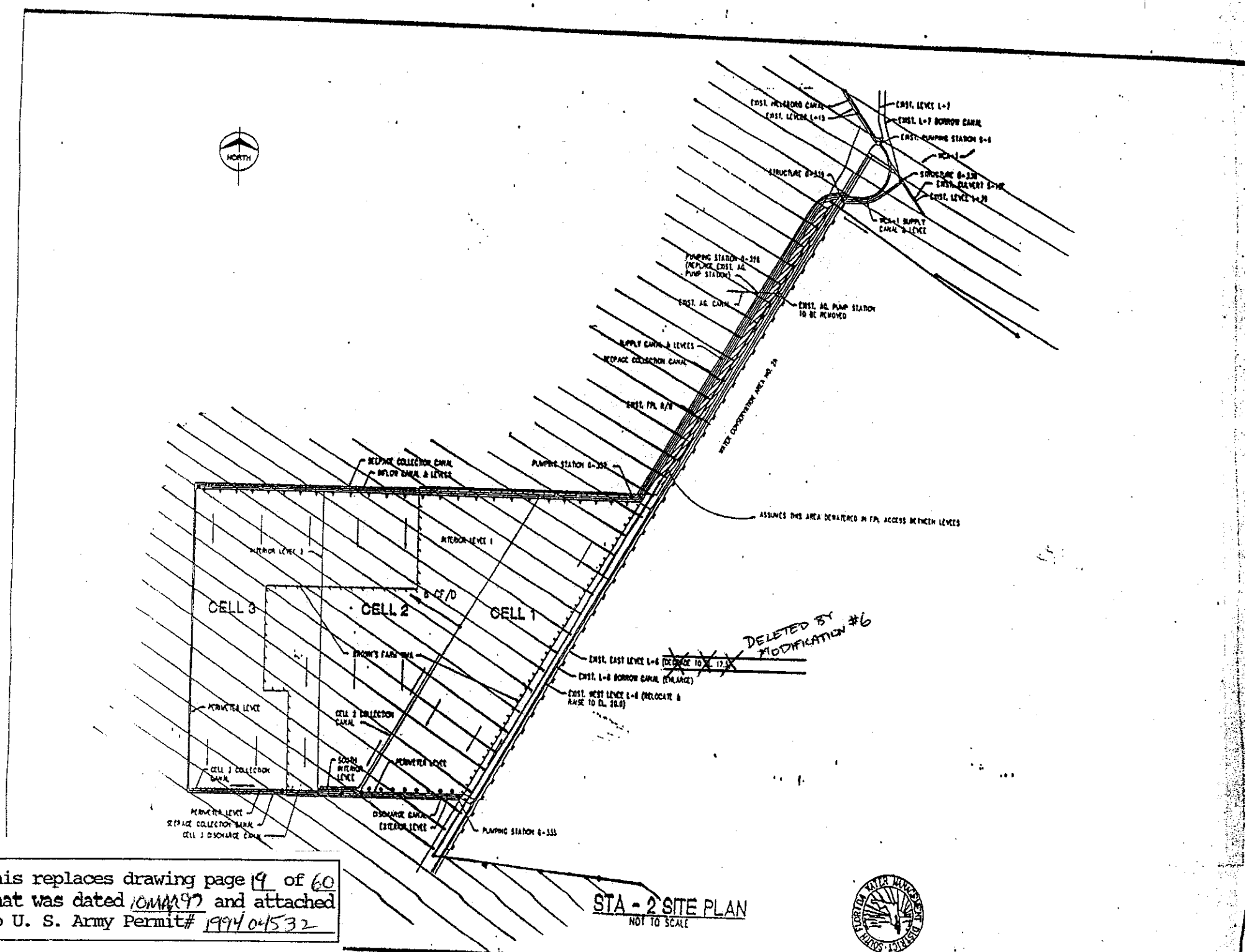
This project will enlarge borrow canal L-6, improve the east levee, and degrade the west Levee to direct flow of treated water from Stormwater Treatment Area 2 into ~~approximately 7.5 miles of~~ the northwest perimeter of Water Conservation Area 2A. ~~In addition, a new control structure G338 will be constructed in the north end of the borrow canal and a new canal constructed to enable the diversion of treated water back to the Hillsboro Canal and Water Conservation Area 1.~~ The works are described by the drawings on pages ~~19 to 20.~~ 19, 20, 20A, 20B, 20C, and 20D.

Specific construction activities include the following. Excavation to enlarge Borrow Canal L-6, ~~which will general remove the existing West Levee L-6.~~ Construction of a new West Levee L-6. ~~Degrade East Levee L-6 to lower the top elevation for approximately 38,900 linear feet~~. Construction of a plug in Borrow Canal L-6 at the southern limit of the levee degradation.

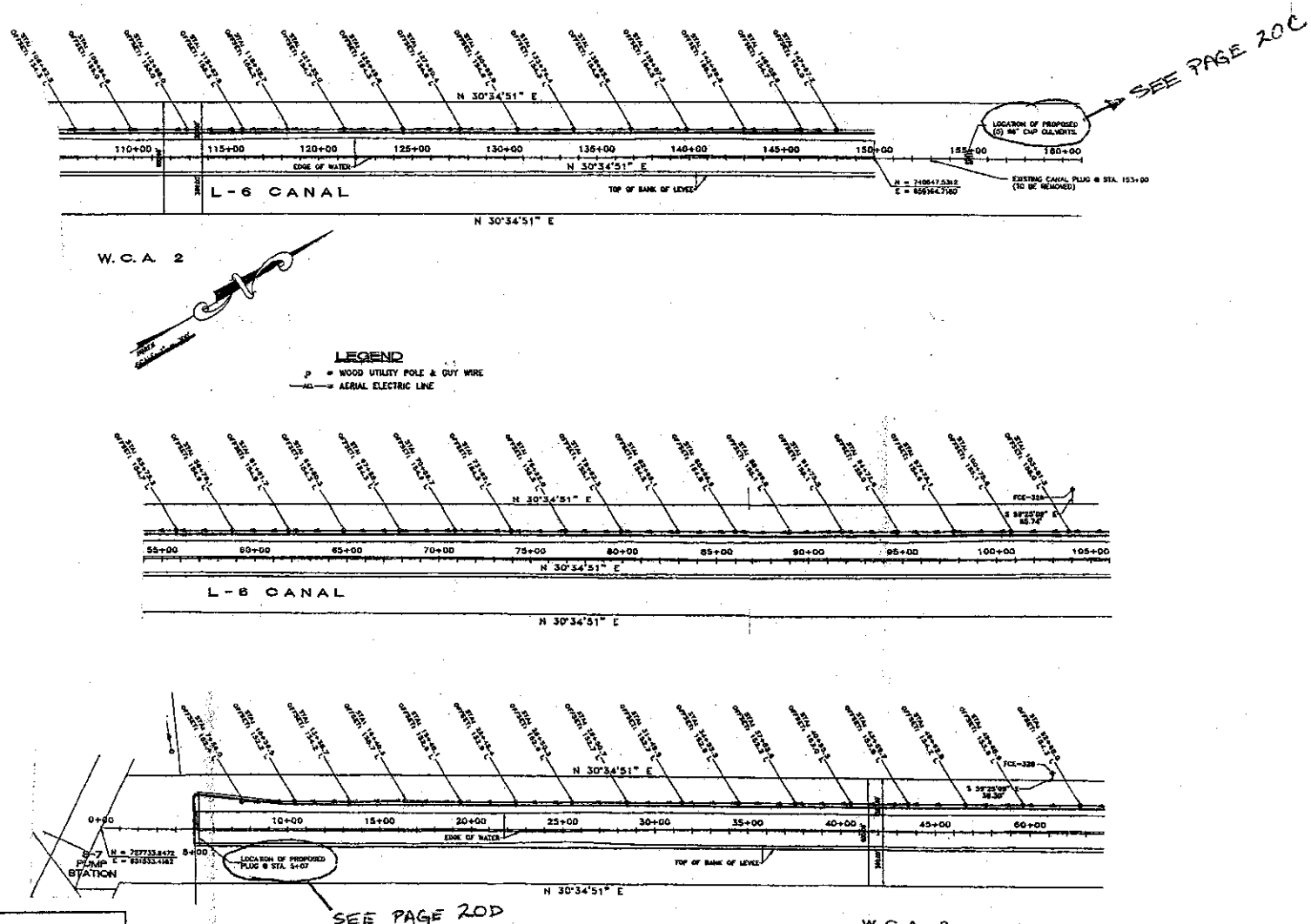
(Added by modification) #5
At 6 locations where East Levee L-6 is degraded, at Stations 438+00, 558+00, 478+00, 498+00, 510+00 and 542+00 where Station 0+00 is approximately at Pump Station S-7, activities include placement of fill related to the construction of 6 box culverts as described by the drawing on page 20A.

(Added by Modification) #6
The degradation of East Levee L-6 is now limited to its south end from Station 5+14 to 150+00. Fill is placed in Borrow Canal L-6 from for a plug from Station 5+00 to 5+14 and is placed at approximately 150+00 for a water control structure. Fill is placed along West Levee L-6 from Station 5+00 to 151+40.

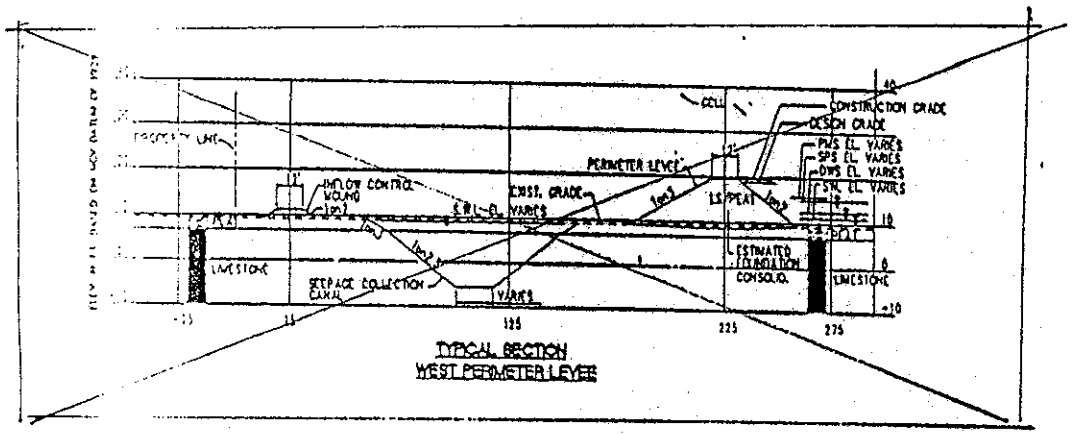
This replaces drawing page 18 of 60 that was dated 24 FEB 00 and attached to U. S. Army Permit# 1994-015-32



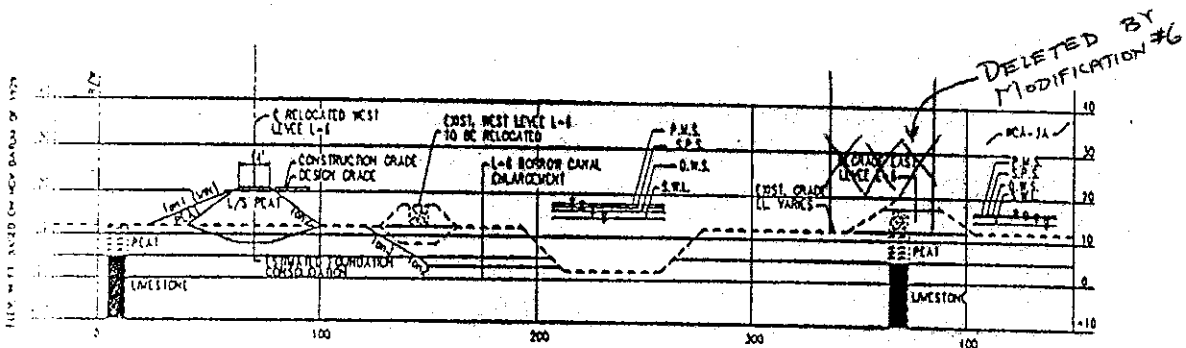
This replaces drawing page 19 of 60 that was dated 10MAY97 and attached to U. S. Army Permit# 1994/04532



U. S. Army Corps of Engineers
Corps File # 199404532
Page 20B of 60 Date 30 OCT 2000



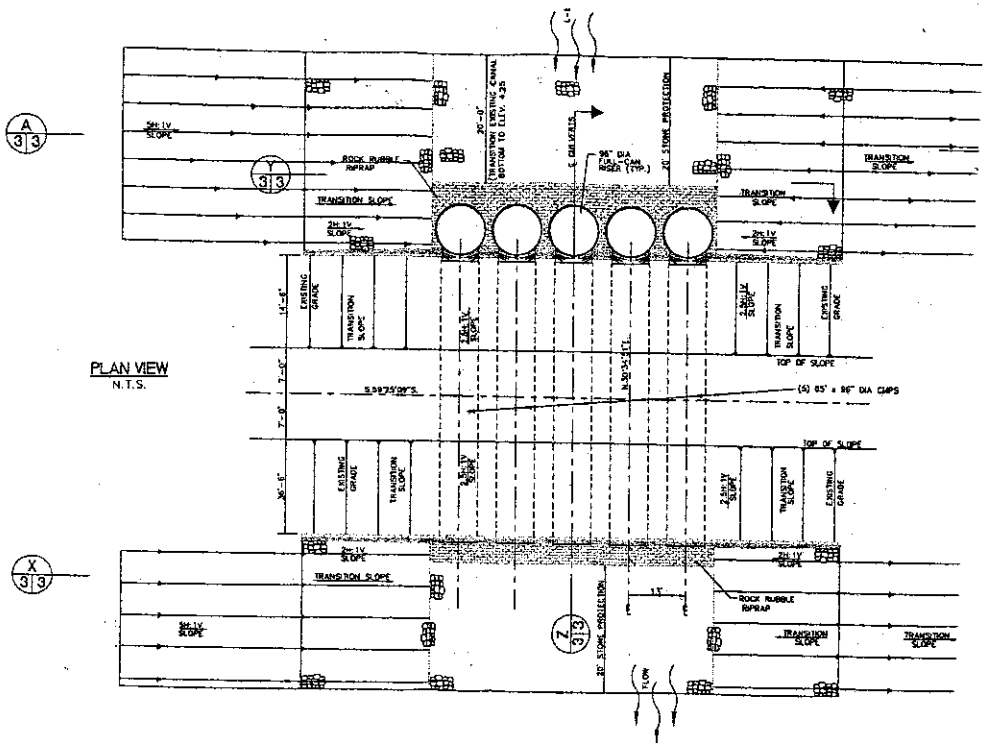
TYPICAL SECTION
WEST PERIMETER LEVEE

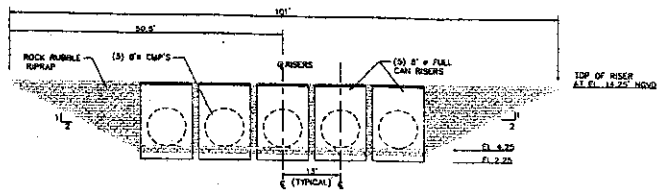


TYPICAL SECTION
L-6 BORROW CANAL ENLARGEMENT

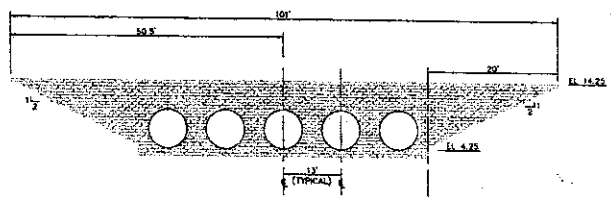
This replaces drawing page 20 of 60 that was dated 10MAR97 and attached to U. S. Army Permit# 199904532

STA-2 TYPICAL CROSS SECTIONS
NOT TO SCALE

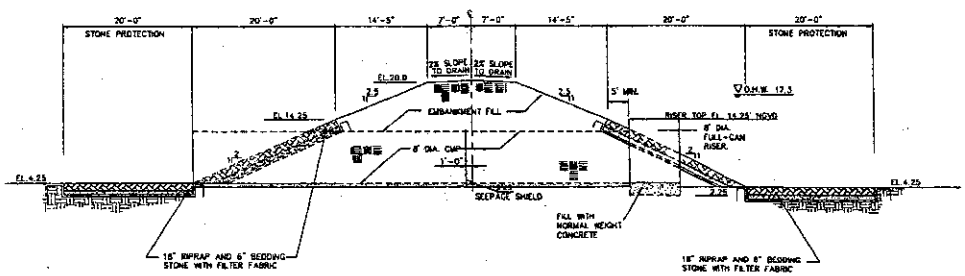




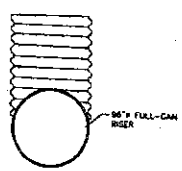
SECTION Y 3|3
N.T.S.



SECTION X 3|3
N.T.S.

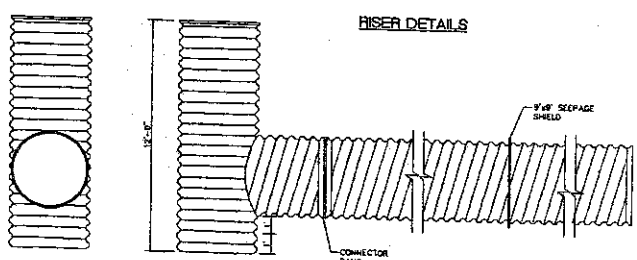


TYPICAL SECTION Z 3|3
N.T.S.



TOP VIEW
NOT TO SCALE

RISER DETAILS



SIDE VIEW

U. S. Army Corps of Engineers
Corps File # 199404532
Page 20C of 60 Date 3 OCT 2000

FILL MATERIAL

AT STATION 5+00, WEST LEVEE IS TO BE RAISED TO ELEVATION 19.0 AS SHOWN.

TRANSITION TO ELEVATION 20.0 AT STATION 151+40.

EXCAVATION

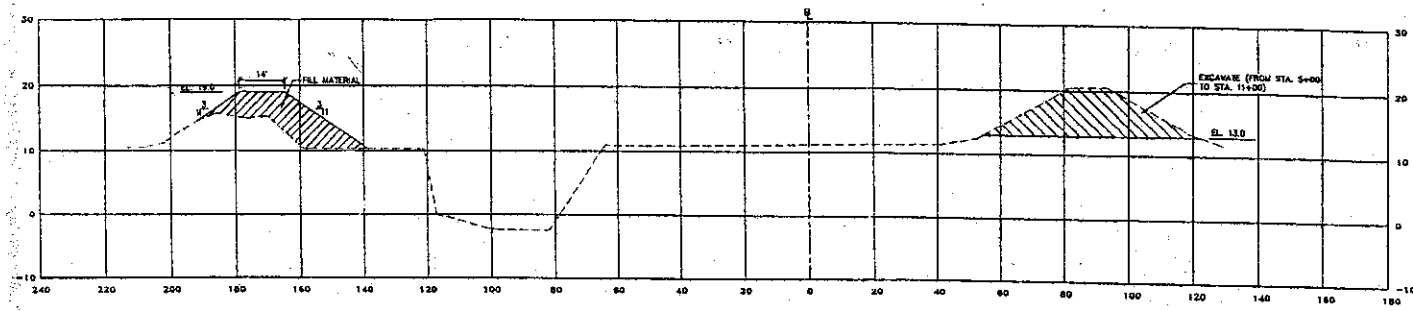
EAST LEVEE: TRANSITION DOWN, AT A SLOPE OF 10H:1V, FROM EXISTING ELEVATION (APPROX. 20.5) AT STA. 5+14 TO ELEVATION 13.0 AT STA. 5+84.

FROM STATION 5+84 TO 11+00, EXCAVATE EAST LEVEE DOWN TO ELEVATION 13.0 AS SHOWN.

TRANSITION UP AT A SLOPE OF 10H:1V TO ELEV. 17.0. (STATION 11+40)

FROM STATION 11+40 TO 150+00, LEVEE IS TO BE EXCAVATED DOWN TO ELEVATION 17.0.

WEST

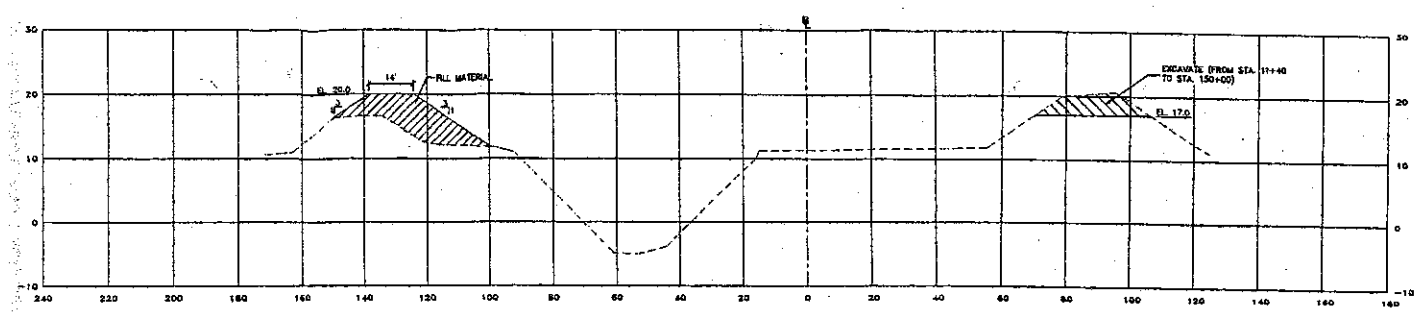


TYPICAL SECTION AT STA. 5+14
SCALE: VERT. 1" = 10'
HORZ. 1" = 20'

TYPICAL SECTION FROM STA. 5+84 TO 11+00
SCALE: VERT. 1" = 10'
HORZ. 1" = 20'

WEST

EAST

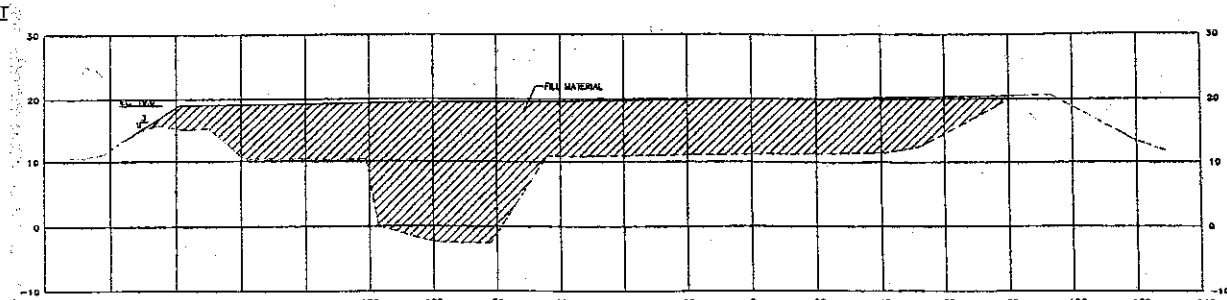


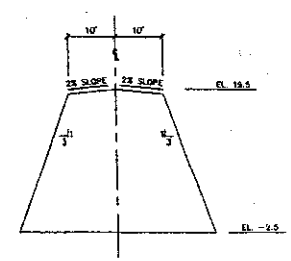
TYPICAL SECTION AT STA. 151+40
SCALE: VERT. 1" = 10'
HORZ. 1" = 20'

TYPICAL SECTION FROM STA. 11+40 TO 150+00
SCALE: VERT. 1" = 10'
HORZ. 1" = 20'

WEST

EAST





PLUG SECTION STATION 5+07

U. S. Army Corps of Engineers
Corps File # 1994 015 32
Page 20 of 60 Date Oct 2000