AD-A140 388 FLOOD PROTECTION SECTION 4 OHIO RIVER SOUTHWEST JEFFERSON COUNTY KENTUCKY..(U) ARMY ENGINEER DISTRICT LOUISVILLE KY G FITZGERALD APR 84 ORLCD-1-84 1/2

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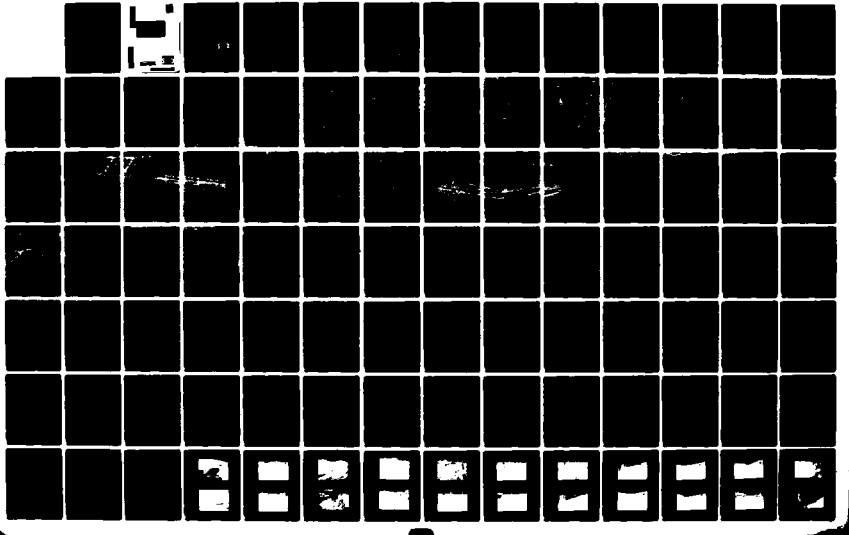

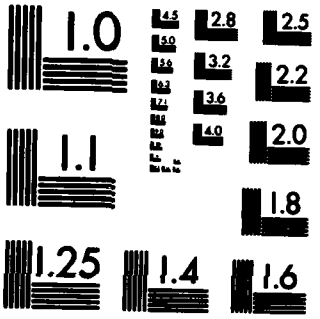

FOUNDATION REPORT

Supplement Number 6

Local Flood Protection Project

Southwestern Jefferson County, Kentucky

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER: ORLCD-1-84	2. GOVT ACCESSION NO.: AD-A140 388
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4. TITLE (and Subtitle): Foundation Report, Supplement No. 6, Flood Protection, Section 4, Ohio River, Southwest Jefferson County, Kentucky USE TITLE ON 1473	5. TYPE OF REPORT & PERIOD COVERED: Final
	6. PERFORMING ORG. REPORT NUMBER:
7. AUTHOR(s): Resident Engineer Gary Fitzgerald	8. CONTRACT OR GRANT NUMBER(s): DACW27-83-C-0003
9. PERFORMING ORGANIZATION NAME AND ADDRESS: U.S. Army Corps of Engineers Louisville Resident Office, 10450 Lower River Rd Louisville, Kentucky 40272	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS:
11. CONTROLLING OFFICE NAME AND ADDRESS: As Above	12. REPORT DATE: April 1984 13. NUMBER OF PAGES: 98
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): U.S. Army Corps of Engineers Louisville District Office Construction Division, P.O. Box 59 Louisville, Kentucky 40201	15. SECURITY CLASS. (of this report): Unclassified 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE:
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number): Ohio River Jefferson County, Kentucky Flood Protection Levee	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number): This report is a continuation of a series of reports covering the foundation work for levee construction around the southwest portion of Jefferson County, Kentucky. The report contains a narrative, drawings and photographs of the conditions encountered and the methods employed to perform the contract requirements.	

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Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

FOUNDATION REPORT

SUPPLEMENT NO. 6

SOUTHWESTERN JEFFERSON COUNTY, KENTUCKY

LOCAL FLOOD PROTECTION PROJECT

CONTRACT NO. DACW27-83-C-0003

CONSTRUCTION SECTION 4 LEVEE AND WALL

STATION 735+00 to STATION 868+00

APRIL 1984

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TEXT

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TEXT

USE TITLE ON 1473

INTRODUCTION

1-01 Location of Section 4. Section 4, the fifth reach to be constructed, extends from Section 2 at Station 735+00 southward to a point of tie-in with the embankment of Dixie Highway (Station 868+00) just north of the intersection of Dixie Highway and Kentucky State Highway 44. Actual construction on the north end of this reach began at Station 774+65 at a point of tie-in with the railroad embankment on Louisville Gas and Electric Company Mill Creek Generating Station property. Between Stations 735+00 and 774+65, the Louisville Gas and Electric Company Mill Creek Generating Station and the railroad embankment provide the required protection. Plate No. 1 shows this section in relation to other construction sections and its position in the total project. Plate Numbers 2, 3, 4 and 5 show the location of Section 4 in detail. Section 4 includes approximately 8,800 feet of earth levee, 1,550 feet of concrete wall, two diversion sewers, two gatewells, four closure structures (Dixie Highway, Houk Lane, Flintkote Access Road, Illinois Central Gulf Railroad).

1-02 Contractors. The prime contractor for construction of Section 4 was Renshaw Construction Company, Inc. of Madisonville, Kentucky. Mr. Elvis H. Butler, Jr., Vice President was the home office principal directly responsible for the project. Mr. Kenny Wigginton was Project Superintendent responsible for onsite operations through August 1983; Mr. Mike Kolstad was Project Superintendent for onsite operations from September 1983 through the time that this supplement was written.

Renshaw Construction Company, Inc. constructed all earth levee and earth embankments for access roads on Section 4.

Firms that subcontracted work on this section of the project and the types of work subcontracted are as follows:

a. Concrete Wall, Closure Structures, Gatewells and Storage Vaults - T. H. Ballard Construction, Inc.
1474 South Floyd Street
Louisville, Kentucky 40208

b. Toedrain, Riprap, Culvert Pipes, Diversion Sewers and Paved Ditch - T and C Contracting Co.
14201 Bohannon Lane
Louisville, Kentucky 40272

c. Bored Encasement Pipe and Jacked Pipe - Van Meter Construction Co.
790 Westland Drive
Lexington, Kentucky 40504

d. Reinforcing Steel - Centen Steel Erectors, Inc.
Route 2, Box 230B
Manchester, Tennessee 37355

e. Steel Sheet Piling - RAM Engineering & Construction, Inc.
P.O. Box 35160
Louisville, Kentucky 40232

f. Chain Link Fence - Cardinal Fence Company
4615 Illinois Avenue
Louisville, Kentucky 40213

g. Roof Deck and Insulation on Storage Vaults - Triangle Industries
4626 Illinois Avenue
Louisville, Kentucky 40213

h. Masonry on Storage Vaults - Cardinal Construction Company
2409 West Market Street
Louisville, Kentucky

i. Service Doors on Storage Vaults - Overhead Door Company of Louisville
3909 Oaklawn
Louisville, Kentucky 40219

j. Seeding - Southern Contractors, Inc.
208 Dishman Lane
Bowling Green, Kentucky 42101

k. Stone and Asphalt - Murray Company, Inc.
P.O. Box 23410
Anchorage, Kentucky 40223

l. Electric Service to Gatewell - United Electric Company
4720 Pinewood Road
Louisville, Kentucky 40218

m. Excavation and Backfill for Concrete Wall and Structures - Breslin Company, Inc.
P.O. Box 35582
Louisville, Kentucky

WM. G. Scott Excavating
4000 Camp Ground Road
Louisville, Kentucky

V. J. Dermody
4613 Bittersweet Road
Louisville, Kentucky 40218

1-03 Contract Supervision. Government personnel responsible for onsite administration of the Section 4 work was:

Mr. Gary V. Fitzgerald - Resident Engineer

FOUNDATION EXPLORATIONS

2-01 Subsurface Investigations Prior to Construction. Investigations were made for the levee and floodwall using drive sampling, Denison, NX core, power auger and hand auger methods. The borrow areas were investigated mainly by the use of hand augers. Boring locations are presented in Design Memorandum No. 1 on Plates 1B-29, 33-35, 37-42 and 54-61. Graphic logs are presented on Plates 63 through 78. Initial drilling to determine the scope of work was begun in 1965 and was accomplished by contract drilling. This was supplemented by District Drilling in 1966, 1970 and 1971. A portion of these logs are presented on Plate Numbers 6, 7 and 8 of this supplement. Locations of the borings are shown on Plates 2, 3, 4 and 5 of this supplement.

2-02 Foundation Investigation During Construction. Investigations during construction consisted of visual inspection of the foundation and inspection trench prior to embankment placement. A required inspection trench was excavated between Station 774+65 and Station 825+00, Station 845+66 and Station 856+50, Station 860+40 and Station 867+75. Foundation conditions were also visually inspected after excavation and prior to construction of the concrete T-Wall and closure structures.

GEOLOGY

3-01 Engineering Characteristics of Overburden Materials. No specific foundation soil engineering studies were conducted within this reach of levee. The borings taken prior to construction show the soil classifications encountered. The silts, clays and sands were similar to those from the adjacent levee Sections 2 and 5 where extensive studies were carried out. (See Foundation Report Supplement Numbers 2 and 4 or Supplement No. 2 to Design Memorandum No. 1).

A representative number of borings taken in Section 4 are shown on Plates 6 through 8 of this report.

3-02 T-Wall.

a. General. The T-wall stability analysis and test data are presented in Design Memorandum No. 1 and summarized in Supplement No. 2 to Design Memorandum No. 1. Strength values obtained from tests on soil from boring U-501A and U-502 were used in analyzing the wall. Both structural and sliding stability analyses were done using a GE 225 computer. Program number 41-G1-H201 was used.

b. Structural Stability Analysis. Plate 79 of Design Memorandum No. 1 shows the dimensions and forces used in the manual check of the computer. The calculations are shown on Plates 80 through 83 of Design Memorandum No. 1. The resultant from loading number 1 is 0.033 foot in from the quarter point and the resultant from loading number 2 is 0.675 foot in from the one-third point, thus satisfying the conditions for the point of action of resultants set forth in EM 1110-2-2501.

The toe pressure, creep ratio and estimated horizontal movement were also calculated and the calculations are shown on Plates 84 and 85 of Design Memorandum No. 1. All of the above items were within the allowable limits established in EM 1110-2-2501.

c. Sliding Stability Analysis. For simplicity of design, a flat failure plane was assumed. The method of analysis is shown in Figure 5-10 of EM 1110-2-2501. In computing the uplift along the failure plane, a straight line assumption was used in lieu of a flow net with full flood head assumed acting at the bottom of the key with the intersection at the failure plane and ground surface being the point of zero potential. This assumption has been proven to be on the conservative side.

The manual calculations made to check the computer results for sliding stability are shown on Plates 86 and 87 of Design Memorandum No. 1. The lowest factor of safety obtained for the "Q" case was 5.17 and the lowest factor of safety for the "R" case was 3.01.

Plates 88 and 89 of Design Memorandum No. 1 show the required shearing strength curves obtained by using a factor of safety of 1.0 and 1.5+2c. These curves were based on the test values obtained from holes U-501A and U-502 since no values were available on borrow areas at the time of the analysis. Tests on the borrow areas yielded higher strengths than the values used. Therefore, it was not considered necessary to rerun the analysis since the new values would raise the factor of safety.

EXCAVATION PROCEDURES FOR FOUNDATIONS

4-01 Excavation Grades. The contract plans and specifications call for the levee to be built essentially on existing ground after stripping whatever organic material existed except for the special foundation excavation specified between Stations 825+00 and 833+00. Very little additional excavation for unsuitable material was necessary. The areas that were undercut occurred at locations where the drainage in the existing area was poor or where top soil and roots remained in the foundation after required excavation grades were reached. These areas were located under both the earth embankment portion of the levee and the concrete T-wall section.

A typical cross section of the levee is included on Plate Number 4 showing limits of excavation. Typical sections of T-wall are shown on Plate Number 9.

Plate Numbers 10 and 11 show the profile of the wall and closure structures. The numbering of the wall and closure monoliths on these plates will reference locations of foundation photographs included in this supplement and undercuts of unsuitable material discussed in paragraph 4-02.

4-02 Method of Excavation. The following paragraphs describe the various mehtods used to excavate different features of this work.

4-02.1 Stripping. Stripping excavation involved removal of organic material from beneath the levee embankment limits plus an additional five feet outside the toe. This excavation was done using motorized, rubber tired scrapers. The average depth of removal was six inches except between Stations 813+00 and 821+50 where the depth of top soil and dumped overburden varied from one to four feet deep as was indicated on the boring logs. There was a wet swampy area covered with a growth of trees and cattails (reedy marsh plants) between Stations 775+50 and 778+50. This area contained between three and five feet of very wet soft material that had to be removed by tracked backhoe before a suitable solid foundation material was reached. After the unstable material in this area was removed, the foundation was treated by conventional equipment in the normal manner. Except for T-wall monoliths 49 and 50, the foundations under the concrete wall and closure structures were determined to be suitable after excavating to required grades. At T-wall monoliths 49 and 50 a dark black organic material containing roots was encountered after excavation to required grades; removal of this material and refill with suitable foundation material was required. Excavation of the unsuitable foundation material for the levee and wall between Stations 825+00 and 833+00 was accomplished with suitable foundation material being encountered at the elevations shown in the contract documents.

4-02.2 Inspection Trench. An inspection trench was excavated in the levee foundation as required by the contract documents. The trench was excavated by rubber tired scrapers assisted by push tractor. The trench was excavated to sufficient width to permit the use of dozers and rollers to recompact the material after the subsurface ground conditions were inspected.

4-03 Foundation Preparation. The earth embankments for this section of the project were founded on essentially the same type of foundation material throughout the entire length. Accordingly the foundation preparation procedures were basically consistent for all reaches of the earth levee. The preparation consisted of thoroughly breaking the foundation soil to a depth of six inches by using a construction disc, bringing the in situ material to the proper moisture content and recompacting the material with six passes of an approved roller. After this operation was performed to the satisfaction of the Government, embankment placement proceeded in accordance with the contract requirements. This procedure also applied to the in situ material encountered after removal of unsuitable foundation material between Stations 825+00 and 828+75 and after removal of the unstable material between Stations 775+50 and 778+50. In those areas where the concrete wall was constructed, the foundation required no extra or unusual treatment except monoliths 49 and 50 where unsuitable foundation material was removed and replaced with suitable material compacted by hand tampers. The special foundation excavation required between Stations 828+75 and 833+00 was accomplished to the specified elevation where suitable foundation material was encountered. Suitable compacted backfill was then placed to the lines and grades necessary to construct the wall sections. In all other areas the foundation was excavated to the lines and grades specified, the foundation was inspected and placement of concrete proceeded.

4-04 Deviations From Planned Conditions. Left of Levee Station 852+54 outside the limits of the levee but within the limits of Access Road A, a four foot diameter hole 35 feet deep was encountered during construction of Access Road A. The hole was cased with concrete pipe. Holes of this type are common in the area; they are dug to a depth where river gravel is encountered and effluent from septic tanks is piped into the hole instead of using lateral fields. Based upon guidance furnished by personnel from Geotechnical Branch, the hole was filled with sand to within three feet of original ground. The sand was flooded as it was placed in the hole. A three foot thick compacted clay cap was placed on the sand and the road embankment was placed as required by the contract. A photograph of the hole is included in the photographs at the end of this supplement (Station 852+84 L).

GATEWELLS

5-01 Locations of Gatewells. There were two gatewells constructed on this section of levee to provide drainage through the protection during periods when flooding is not occurring. A gatewell was constructed integrally with T-wall monolith 32 at Station 835+32.5 and was connected to an existing 36-inch diameter pipe under Dixie Highway. Location of this gatewell can be identified on Plate No. 10 included with this supplement. The other gatewell constructed on this section of levee was located at Station 767+12± on the centerline of survey traverse along the railroad embankment. This gatewell was constructed on an existing 48-inch diameter pipe that provided drainage under the existing railroad embankment which is an integral part of the protection project as discussed in paragraph 1-01. Location of this gatewell in reference to the project can be identified on Plate No. 12 with this supplement.

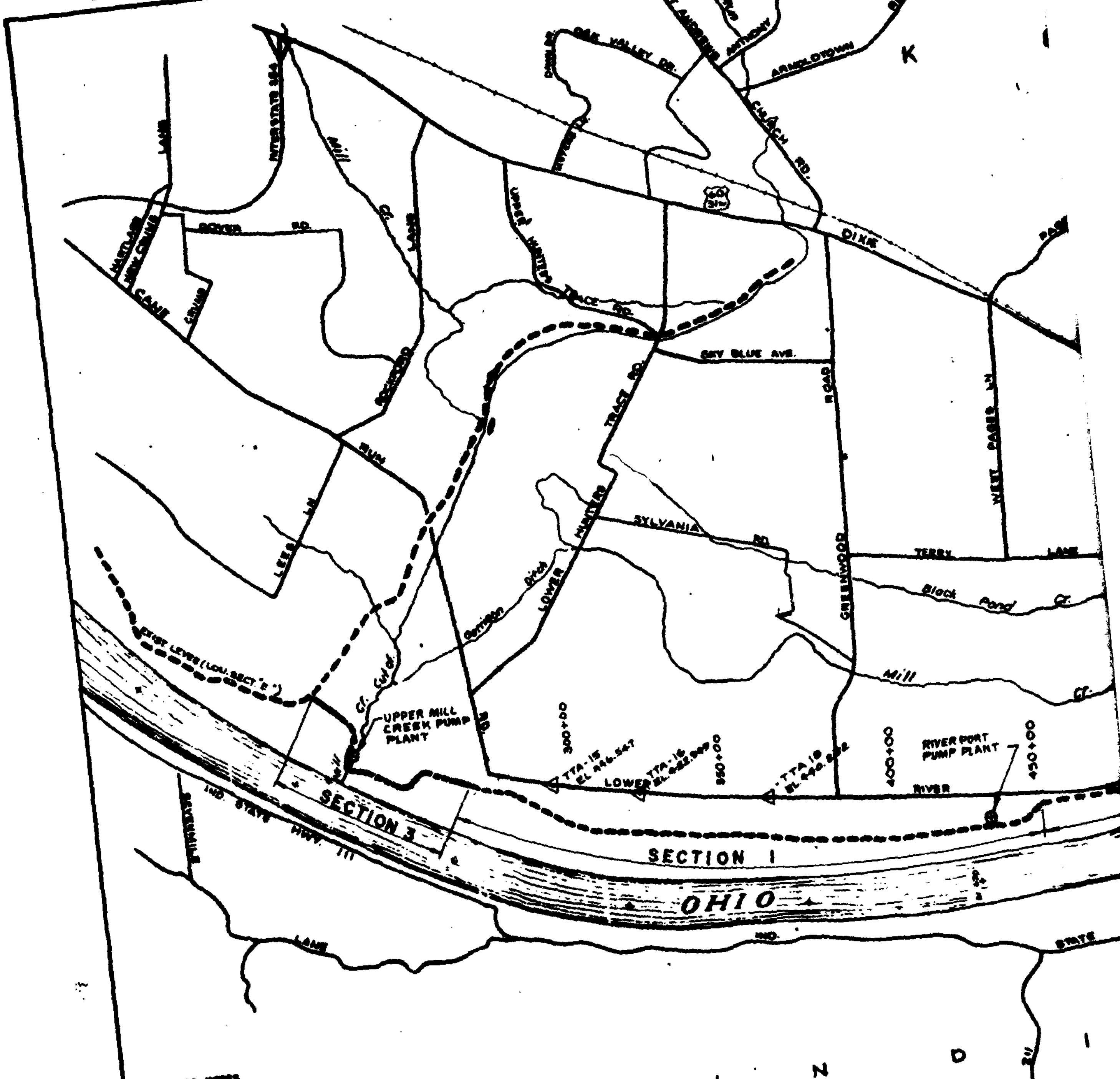
5-02 Deviations from Planned Conditions. There were no deviations from planned conditions in construction of the gatewells. Excavations were made to the planned lines and grades; suitable foundation material was encountered and construction of the gatewells proceeded.

POSSIBLE FUTURE PROBLEMS

6-01 Conditions That Could Produce Problems. There were no founding conditions encountered that are anticipated to produce future problems. The only conditions that deviated from planned conditions were discussed in paragraphs 4-02.1 and 4-04.

6-02 Recommended Observations. Observations should be made immediately after flood situations where water has been against the levee for indications of sliding.

CORPS OF ENGINEERS



GENERAL NOTES

CONSTRUCTION PRIORITIES

(1) AN INITIAL ITEM OF CONSTRUCTION SHALL BE THE BUILDING OF THE CONSTRUCTION ROAD FROM [illegible] SOUTH TO THE I.C.-GULF R.R. (ROAD "A"), AND THE CONSTRUCTION ROAD FROM THE RAILROAD TO KY HWY 44 (ROAD "B").

(2) PRIORITY SHALL BE GIVEN TO COORDINATION WITH L.G. & E. FOR GAS LINE RELOCATIONS. SEE DISCUSSION UNDER "ABANDONMENT OR RELOCATION OF UTILITIES." THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITY COMPANIES.

EXISTING UTILITIES

UTILITIES INDICATED ON THE PLANS ARE AS KNOWN. OTHER UTILITY LINES FOUND IN THE FIELD SHALL BE BROUGHT PROMPTLY TO THE ATTENTION OF THE CONTRACTING OFFICER TO DETERMINE IF TREATMENT IS REQUIRED. THE CONTRACTOR SHALL USE REASONABLE CARE IN EXECUTING OF THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING [illegible] UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON PLANS. ANY SUCH UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO COST TO THE GOVERNMENT. REASONABLE CARE TO AVOID DAMAGE TO PIPELINES SHALL INCLUDE [illegible] AND INQUIRY AS DIRECTED BY THE CONTRACTING OFFICER.

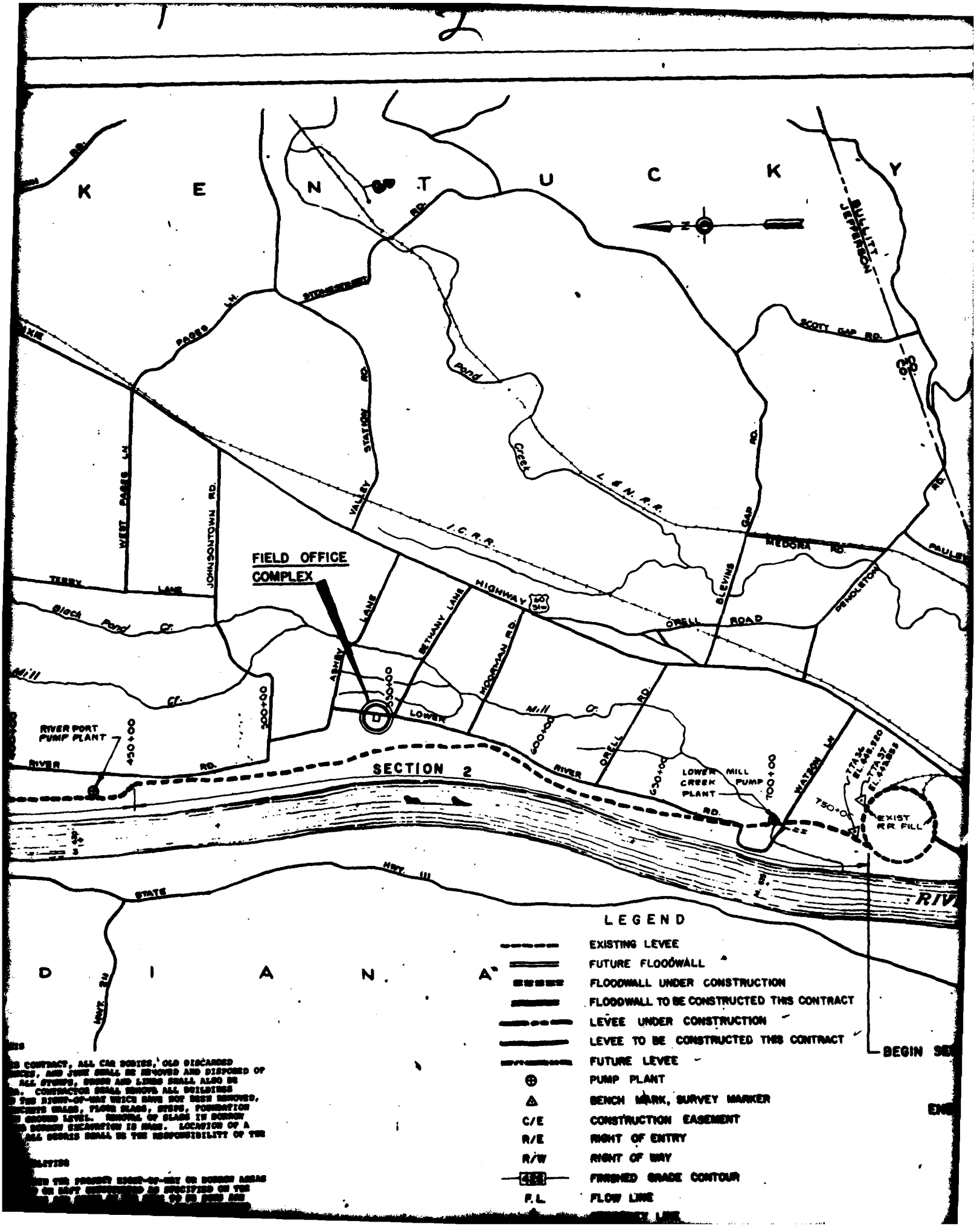
[illegible] UTILITY PERSONNEL MUST WORK WITHIN CONSTRUCTION LIMITS OF THE PROJECT, CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY COMPANY TO FACILITATE TIMELY ACCOMPLISHMENT OF THE ALTERATION. [illegible] UTILITIES CROSSING LEVEE ALIGNMENT OR LOCATED WITHIN BORROW AREAS SHALL BE TREATED AS DISCUSSED UNDER "ABANDONMENT OR RELOCATION OF UTILITIES."

REMOVAL OF STRUCTURES & DEBRIS

DURING THE LENGTH OF THIS CONTRACT, ALL CAR BODIES, OLD [illegible] APPLIANCES AND FURNITURE, FENCES, AND JUNK SHALL BE REMOVED [illegible] AWAY FROM THE PROJECT AREA. ALL STUMPS, BRUSH AND LIMBS SHALL [illegible] REMOVED FROM THE PROJECT AREA. CONTRACTOR SHALL REMOVE ALL [illegible] INDICATED ON DRAWINGS WITHIN THE RIGHT-OF-WAY WHICH HAVE NOT [illegible] AND ANY REMAINING DEBRIS, CONCRETE WALKS, FLOOR SLABS, STEPS, [illegible] WALLS OR FOOTINGS AT OR BELOW GROUND LEVEL. REMOVAL OF SLABS [illegible] AREAS IS NOT REQUIRED WHERE NO BORROW EXCAVATION IS MADE. [illegible] SUITABLE SITE FOR DISPOSAL OF ALL DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ABANDONMENT OR RELOCATION OF UTILITIES

(1) ALL EXISTING UTILITIES WITHIN THE PROJECT RIGHT-OF-WAY [illegible] ARE TO BE RELOCATED OR ABANDONED OR LEFT UNDISTURBED AS [illegible] TABLE ON SH [illegible]. THE UTILITY OWNERS AND SCOPE OF THE WORK TO [illegible] ALSO LISTED ON THIS TABLE. RELOCATION OF ANY [illegible] BY THE UTILITY OWNER. [illegible]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FIELD OFFICE COMPLEX
SECTION 2
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PUMP PLANT
BENCH MARK, SURVEY MARKER
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R/W RIGHT OF WAY
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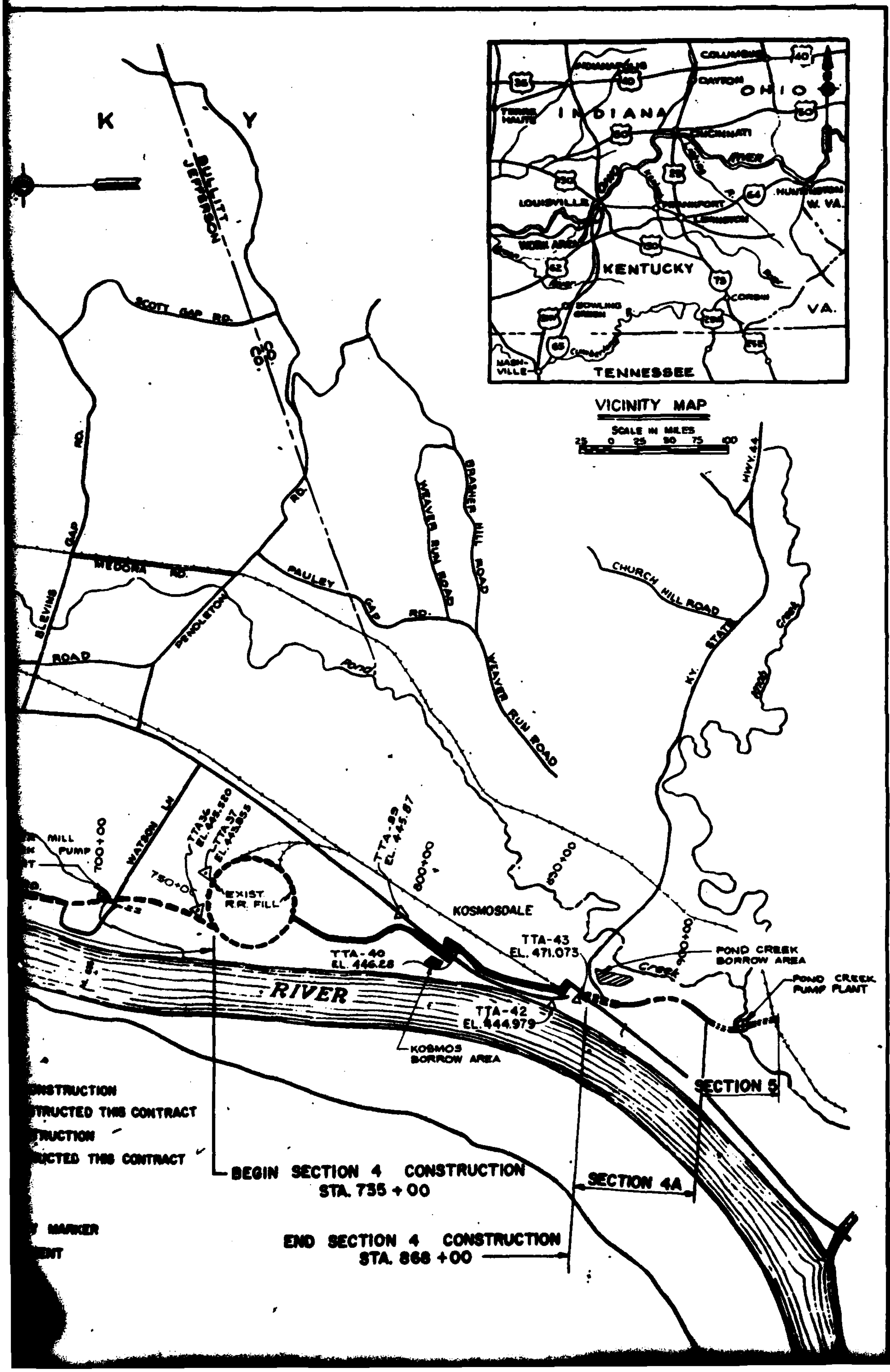
F.L. FLOW LINE

U. S. ARMY



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TERRE HAUTE
INDIANAPOLIS
FRANKFORT
LEXINGTON
BOWLING GREEN
CORBIN
NASHVILLE
WORK AREA
HWY. 44
BRASHER HILL ROAD
WEAVER RUN ROAD
CHURCH HILL ROAD
KY. STATE
MEDORA RD.
PAULEY GAP RD.
BLEVINS GAP RD.
PENDLETON RD.
ROAD
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900+00
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EXIST. R.R. FILL
TTA-39 EL. 445.87
KOSMOSDALE
TTA-40 EL. 446.28
TTA-43 EL. 471.073
TTA-42 EL. 444.979
POND CREEK BORROW AREA
POND CREEK PUMP PLANT
Creek
RIVER
KOSMOS BORROW AREA
SECTION 5
SECTION 4A
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GENERAL NOTES

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EXISTING UTILITIES

UTILITIES INDICATED ON THE PLANS ARE AS KNOWN. OTHER UTILITY LINES FOUND IN THE FIELD SHALL BE BROUGHT PROMPTLY TO THE ATTENTION OF THE CONTRACTING OFFICER TO DETERMINE IF TREATMENT IS REQUIRED. THE CONTRACTOR SHALL USE REASONABLE CARE IN EXCAVATING ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UNDERGROUND UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON PLANS. ANY KNOW UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO COST TO THE GOVERNMENT. REASONABLE CARE TO AVOID DAMAGE TO PIPELINES SHALL INCLUDE SEARCH AND INQUIRY AS DIRECTED BY THE CONTRACTING OFFICER.

WHERE UTILITY PERSONNEL MUST WORK WITHIN CONSTRUCTION LIMITS OF THE PROJECT CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY COMPANY TO FACILITATE TIMELY ACCOMPLISHMENT OF THE ALTERATION. SUBSURFACE UTILITIES CROSSING LEVEE ALIGNMENT OR LOCATED WITHIN BORROW AREAS SHALL BE TREATED AS DISCUSSED UNDER "ABANDONMENT OR RELOCATION OF UTILITIES."

QUANTITY SURVEYS

THE CONTRACTOR SHALL FURNISH ALL PERSONNEL, EQUIPMENT AND MATERIAL NECESSARY TO MAKE, IN ADDITION TO ORIGINAL AND FINAL SURVEYS, INTERMEDIATE SURVEYS AT THE END OF EACH CONSTRUCTION SEASON TO DETERMINE ALL EXCAVATION AND EMBANKMENT BID ITEMS OF WORK ACCOMPLISHED DURING THE PREVIOUS SEASON. THESE SURVEYS SHALL BE MADE AS DIRECTED BY AND USING METHODS APPROVED BY THE CONTRACTING OFFICER. THE SURVEYS SHALL INCLUDE A MINIMUM OF A CROSS SECTION AT EACH NUMBERED POST STATION WITHIN THE CURRENT WORK AREA AND SHALL SHOW THE FULL EXTENT OF THE EXCAVATION AND EMBANKMENT ACCOMPLISHED IN EACH SEASON. THESE INTERMEDIATE CROSS SECTIONS MAY BE USED AS FINAL SECTIONS UPON APPROVAL OF THE CONTRACTING OFFICER.

UTILISATION OF BORROW

EXCAVATED MATERIAL NOT SUITABLE FOR EMBANKMENT MAY BE WASTED IN PREVIOUSLY EXCAVATED BORROW AREAS AND SHALL BE SLOPED TO DRAIN AS DIRECTED BY THE CONTRACTING OFFICER.

BORROW EXCAVATION SHALL BE REMOVED IN A CONTINUOUS AND REASONABLY UNIFORM WIDTH OF CUT. CONTOURS SHOWN IN BORROW AREAS ARE THE LOWER LIMITING ELEVATIONS OF BORROW. OPERATION OF BORROW PIT SHALL BE SUCH THAT FREE DRAINAGE IS MAINTAINED AT ALL TIMES. FINISHED BACKSLOPES WITHIN BORROW AREAS SHALL BE NO STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL.

THE AREA ON THE RIVERSIDE OR LANDSIDE OF THE LEVEE SHALL BE EXCAVATED OR BLANKET FILLED AS NECESSARY TO DRAIN AWAY FROM LEVEE TOES. LEVEE GRADES SHOWN ON DRAWINGS ARE NET GRADES.

I N D I

Hwy 84

REMOVAL OF STRUCTURES & DEBRIS

DURING THE LENGTH OF THIS CONTRACT, ALL CAR BODIES, OLD DISCARDED APPLIANCES AND FURNITURE, FENCES, AND JUNK SHALL BE REMOVED AND DISPOSED AWAY FROM THE PROJECT AREA. ALL STUMPS, BRUSH AND LIMBS SHALL ALSO BE REMOVED FROM THE PROJECT AREA. CONTRACTOR SHALL REMOVE ALL BUILDINGS INDICATED ON DRAWINGS WITHIN THE RIGHT-OF-WAY WHICH HAVE NOT BEEN REMOVED AND ANY REMAINING DEBRIS, CONCRETE WALLS, FLOOR SLABS, STEPS, FOUNDATION WALLS OR FOOTINGS AT OR BELOW GROUND LEVEL. REMOVAL OF SLABS IN BORROW AREAS IS NOT REQUIRED WHERE NO BORROW EXCAVATION IS MADE. LOCATION OF SUITABLE SITE FOR DISPOSAL OF ALL DEBRIS SHALL BE THE RESPONSIBILITY OF CONTRACTOR.

ABANDONMENT OR RELOCATION OF UTILITIES

(1) ALL EXISTING UTILITIES WITHIN THE PROJECT RIGHT-OF-WAY OR BORROW AREA TO BE RELOCATED OR ABANDONED OR LEFT UNDISTURBED AS SPECIFIED ON TABLE ON SH 4. THE UTILITY OWNERS AND SCOPE OF THE WORK TO BE DONE ARE ALSO LISTED ON THIS TABLE. RELOCATION OF ANY ABOVEGROUND OR UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED BY THE UTILITY OWNER.

(2) ALL UNDERGROUND PIPES AND CABLES WITHIN THE RIGHTS-OF-WAY AND UNDER AREAS SCHEDULED TO BE ABANDONED SHALL BE REMOVED BETWEEN POINTS LOCATED PERPENDICULAR RIVERSIDE OR LANDSIDE OF THE RESPECTIVE TOES OF THE LEVEE OR RESPECTIVE WALL BASE TOES.

(3) IN THE REACH OF PROJECT BETWEEN THE I.C.-GULF R.R. AND DIXIE HWY OVERPASS, MAJOR L.G.& E. GAS TRANSMISSION RELOCATIONS ARE TO BE DONE. CONSTRUCTION OF THE LEVEE SHALL BE SCHEDULED SO THAT A SEGMENT OF LEVEE THE DIXIE HWY OVERPASS WILL BE COMPLETE TO FINAL GRADE AND CROSS SECTION INCLUDING AN OVERBUILT SECTION, TO ACCOMMODATE RELOCATION OF ONE OF THE GAS LINES. SEE SH 58. ACCORDINGLY, THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SO AS TO PERMIT THESE RELOCATIONS AS EARLY AS POSSIBLE. SPECIFIC TIME OF THE YEAR DURING WHICH THESE GAS LINE RELOCATIONS CAN BE DONE IS RESTRICTED. SEE THE SPECS. IN THIS REGARD L.G.& E. WILL NOT GUARANTEE GAS LINE RELOCATIONS DURING THE PERIOD 15 OCT THRU 15 APRIL

ACCESS

CONTRACTOR WILL BE ALLOWED ACCESS TO THE PROJECT AREA FROM DIXIE HWY AND KY HWY 44 OR SHIPLEY LANE WHERE INDICATED RIGHT-OF-WAY LINES INTERSECT THESE HIGHWAYS. HOWEVER, SELECTION OF ACCESS POINTS SHALL BE CHOSEN AT DISCRETION SO THAT ACTIVITIES OR MOVEMENT OF EQUIPMENT SHALL NOT INTERFERE WITH NORMAL TRAFFIC ON THESE HIGHWAYS NOR POSE SAFETY HAZARDS. GATES SHALL BE MAINTAINED DURING CONSTRUCTION WHENEVER ACCESS ROUTES TRAVERSE GATED FENCED AREAS OF L.G.& E. CO.

PROPERTY SURVEY DATA

SURVEY DATA NEEDED TO ESTABLISH EXISTING KY HWY RIGHTS-OF-WAY WILL BE AVAILABLE FOR CONTRACTOR'S USE PRIOR TO CONSTRUCTION. THIS AND ADDITIONAL SURVEY DATA, WHERE AVAILABLE, MAY BE OBTAINED FROM THE CONTRACTING OFFICER UPON REQUEST.

I A N A

...ACH, ALL CAR BODIES, OLD DISCARDED ... AND JUNK SHALL BE REMOVED AND DISPOSED OF ... BRUSH AND LIMBS SHALL ALSO BE ... CONTRACTOR SHALL REMOVE ALL BUILDINGS ... RIGHT-OF-WAY WHICH HAVE NOT BEEN REMOVED, ... WALLS, FLOOR SLABS, STUMPS, FOUNDATION ... TO LEVEL. REMOVAL OF SLABS IN BORROW ... AREA EXCAVATION IS DONE. LOCATIONS OF A ... DUMPS SHALL BE THE RESPONSIBILITY OF THE ...

...TIES

... THE PROJECT RIGHT-OF-WAY OR BORROW AREAS ... IS LEFT UNDISTURBED AS SPECIFIED ON THE ... AND SCOPE OF THE WORK TO BE DONE ARE ... TYPE OF ANY ABOVEGROUND OR UNDERGROUND ... THE UTILITY OWNER.

...ING WITHIN THE RIGHTS-OF-WAY AND WHICH ... BE REMOVED BETWEEN POINTS LOCATED 10 ... PERSPECTIVE TOES OF THE LEVEE OR ...

...ON THE I.C.-GULF R.R. AND DIXIE HWY ... LINE RELOCATIONS ARE TO BE DONE. ... SCHEDULED SO THAT A SEGMENT OF LEVEE AT ... GRADE TO FINAL GRADE AND CROSS SECTION, ... ACCOMMODATE RELOCATION OF ONE OF THESE ... THE CONTRACTOR SHALL SCHEDULE HIS ... RELOCATIONS AS EARLY AS POSSIBLE. THE ... WHICH THESE GAS LINE RELOCATIONS CAN BE ... IN THIS REGARD L.G.& E. WILL NOT ... DURING THE PERIOD 15 OCT THRU 15 APRIL.

...S TO THE PROJECT AREA FROM DIXIE HWY ... INDICATED RIGHT-OF-WAY LINES INTERSECT ... OF ACCESS POINTS SHALL BE CHOSEN WITH ... MOVEMENT OF EQUIPMENT SHALL NOT INTERFERE ... NOR POSE SAFETY HAZARDS. GATES SHALL ... PRESERVE ACCESS ROUTES THROUGH SECURITY ...

...EXISTING ... AT HWY RIGHTS-OF-WAY LINES ... USE PRIOR TO CONSTRUCTION. THIS AND ANY ... DATA, MAY BE OBTAINED FROM THE ...

	FUTURE FLOODWALL
	FLOODWALL UNDER CONSTRUCTION
	FLOODWALL TO BE CONSTRUCTED THIS CONTRACT
	LEVEE UNDER CONSTRUCTION
	LEVEE TO BE CONSTRUCTED THIS CONTRACT
	FUTURE LEVEE
⊕	PUMP PLANT
△	BENCH MARK, SURVEY MARKER
C/E	CONSTRUCTION EASEMENT
R/E	RIGHT OF ENTRY
R/W	RIGHT OF WAY
426	FINISHED GRADE CONTOUR
F.L.	FLOW LINE
℄	PROPERTY LINE
C.C.	CENTER TO CENTER
TYP.	TYPICAL
F.B.	FLAT BOTTOM

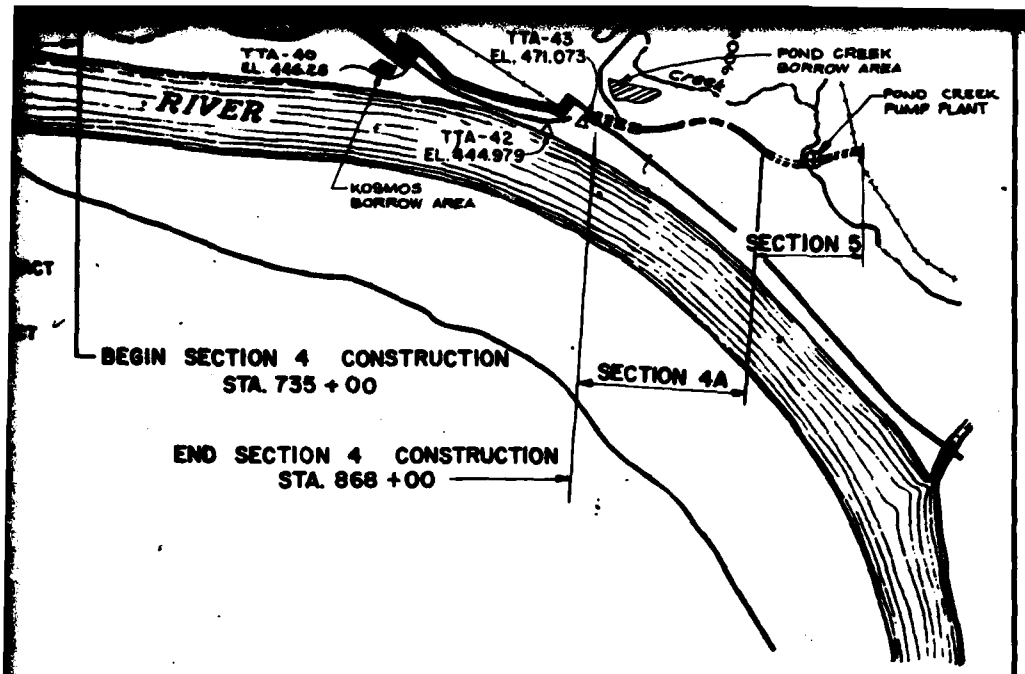
BEGIN SECTION
STA. 7

END SECT

NOTE: ALL ELEVATIONS GIVEN IN THESE PLANS ARE BASED ON LOUISVILLE CITY DATUM.

...2000 0 2000 4000 FT

1 5



DIVISION	DATE	DESCRIPTION	BY

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: S.A.M.
DRAWN: T.M.J.
CHECKED: MAP
SUBMITTED:
APPROVED: AUG 82
COL, CORPS OF ENGINEERS, DISTRICT ENGINEER

SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION 4

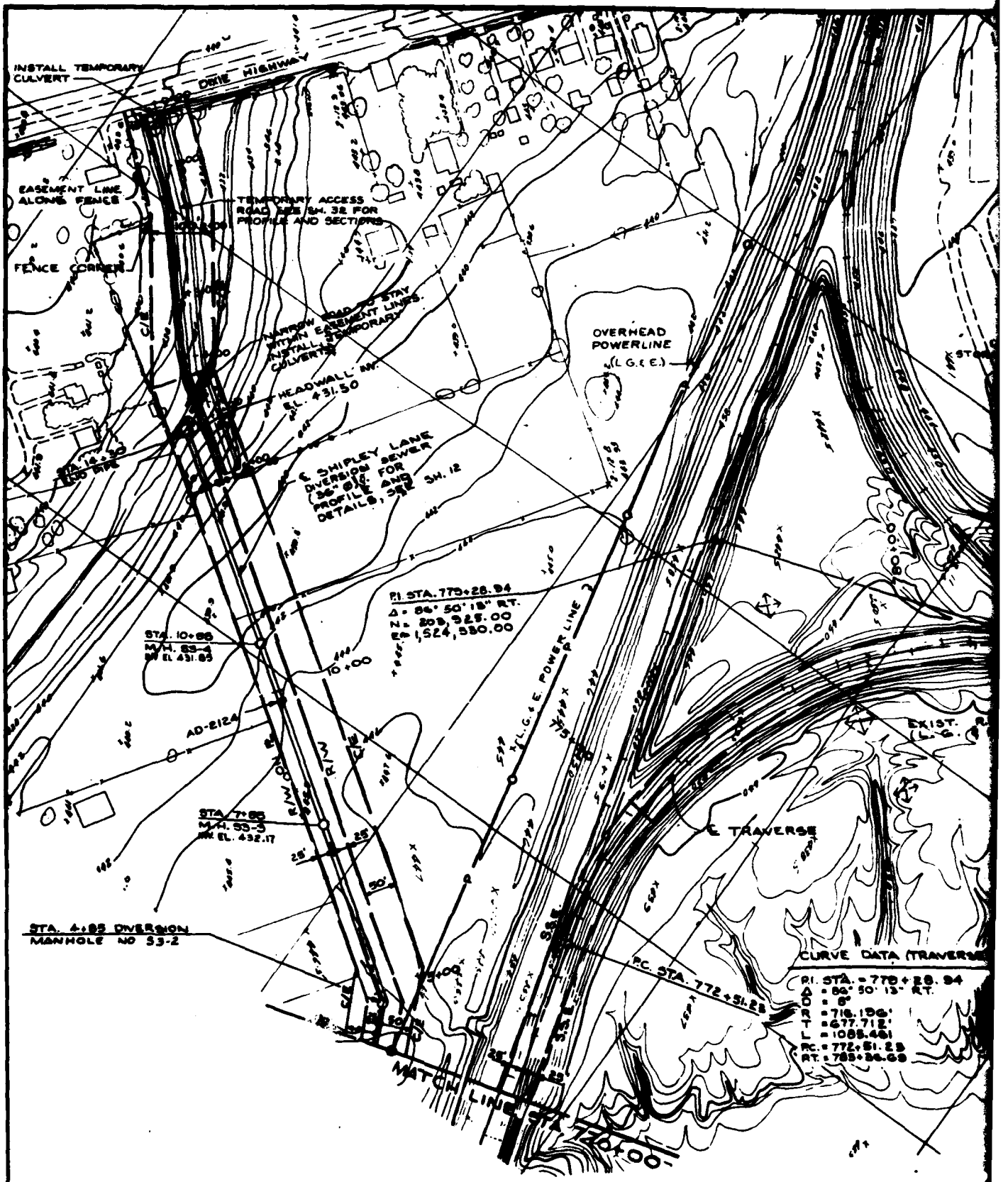
GENERAL PLAN, VICINITY MAP
AND GENERAL NOTES

SCALE: 1" = 2000'

PLATE 1

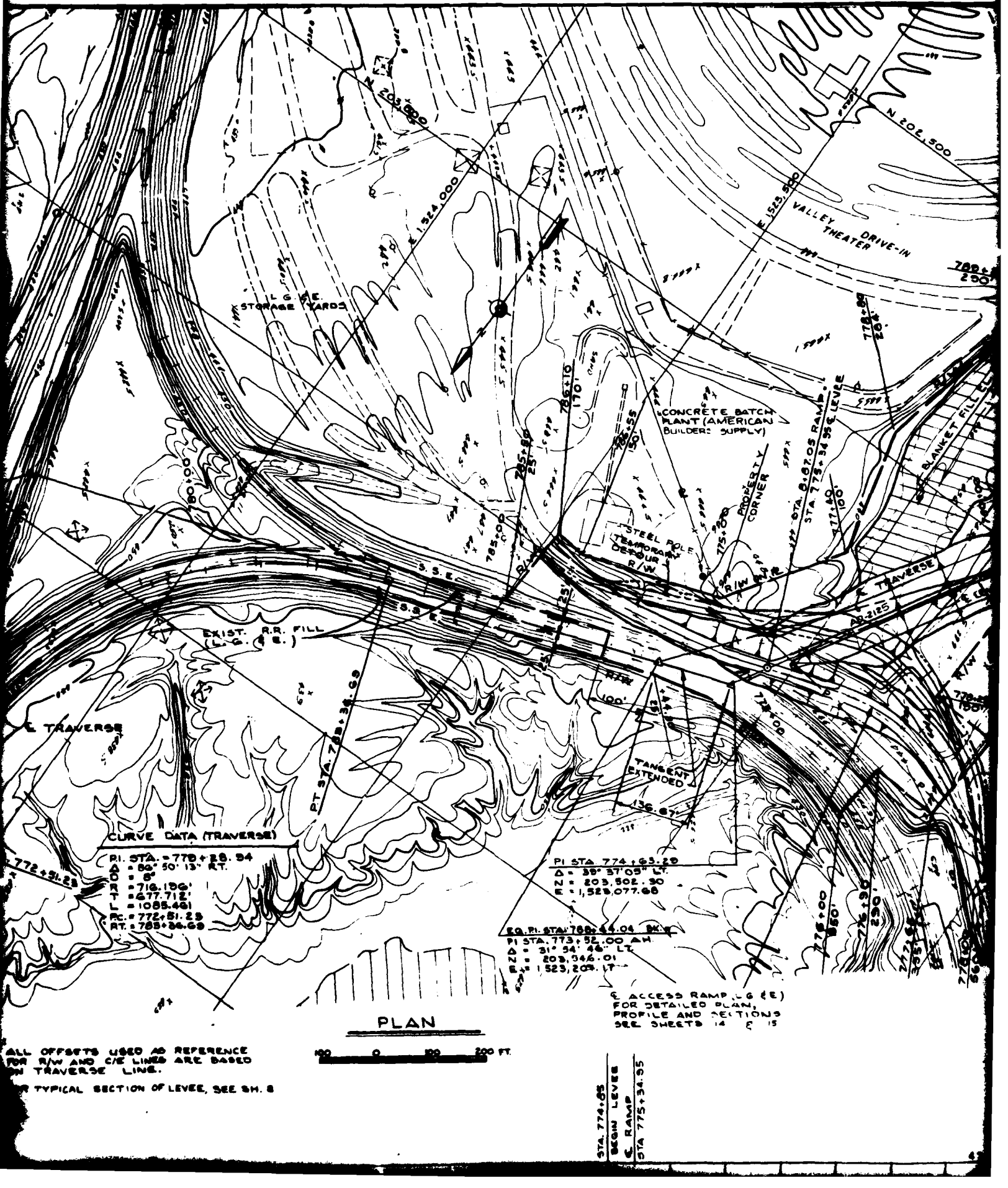
DRAWING NUMBER
616-12.10/2

CORPS OF ENGINEERS



NOTE:

1. ALL OFFSETS USED AS REFERENCE FOR R/W AND C/E LINES ARE BASED ON TRAVERSE LINE.
2. FOR TYPICAL SECTION OF LEVEE, SEE SH.

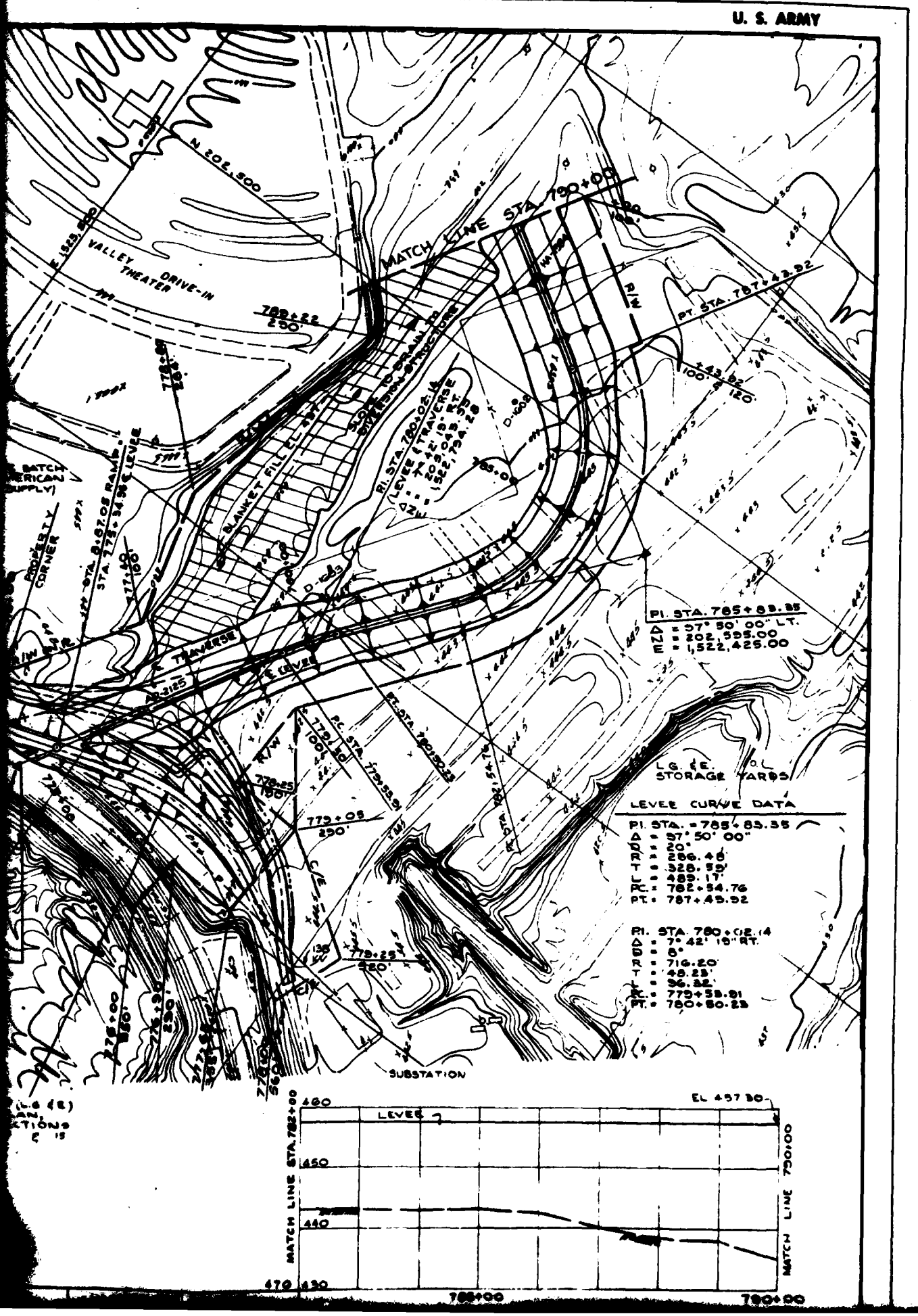


PLAN

100 0 100 200 FT.

ALL OFFSETS USED AS REFERENCE FOR R/W AND C/E LINES ARE BASED ON TRAVERSE LINE.

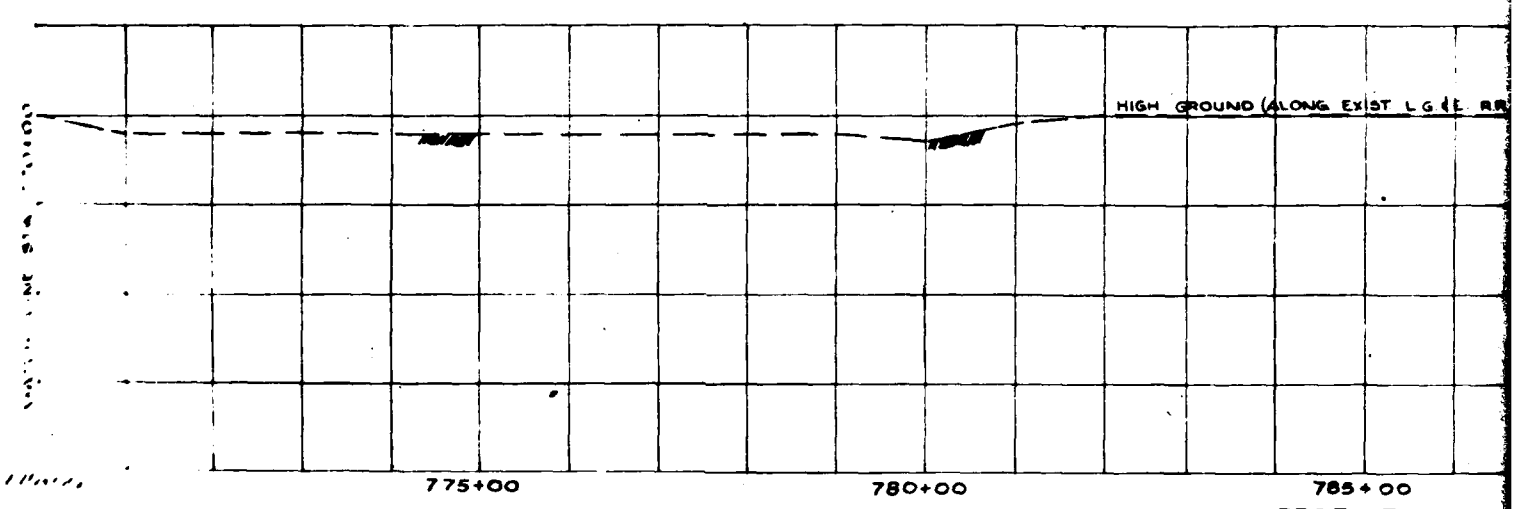
FOR TYPICAL SECTION OF LEVEE, SEE SH. 8


U. S. ARMY
MATCH LINE STA. 790+00
N 202,500
E 1523,500
VALLEY DRIVE-IN THEATER
PT. STA. 787+42.92
PI. STA. 785+83.35
Δ = 37° 50' 00" LT.
N = 202,595.00
E = 1,522,425.00
PI. STA. 780+62.14
Δ = 7° 42' 16" RT.
D = 8°
R = 716.20'
T = 48.23'
L = 96.32'
EC = 779+58.91
PT = 780+80.23
LEVEE CURVE DATA
PI. STA. = 785+83.35
Δ = 37° 50' 00"
D = 20°
R = 286.48'
T = 328.52'
L = 489.17'
EC = 782+54.76
PT = 787+43.92
L.G.E. OIL STORAGE YARDS
SUBSTATION
EL 457.30
MATCH LINE STA. 782+00
MATCH LINE 790+00
460
450
440
430
785+00
790+00

NOTE:

1. ALL OFFSETS USED AS REFERENCE FOR R/W AND C/E LINES ARE BASED ON TRAVERSE LINE.

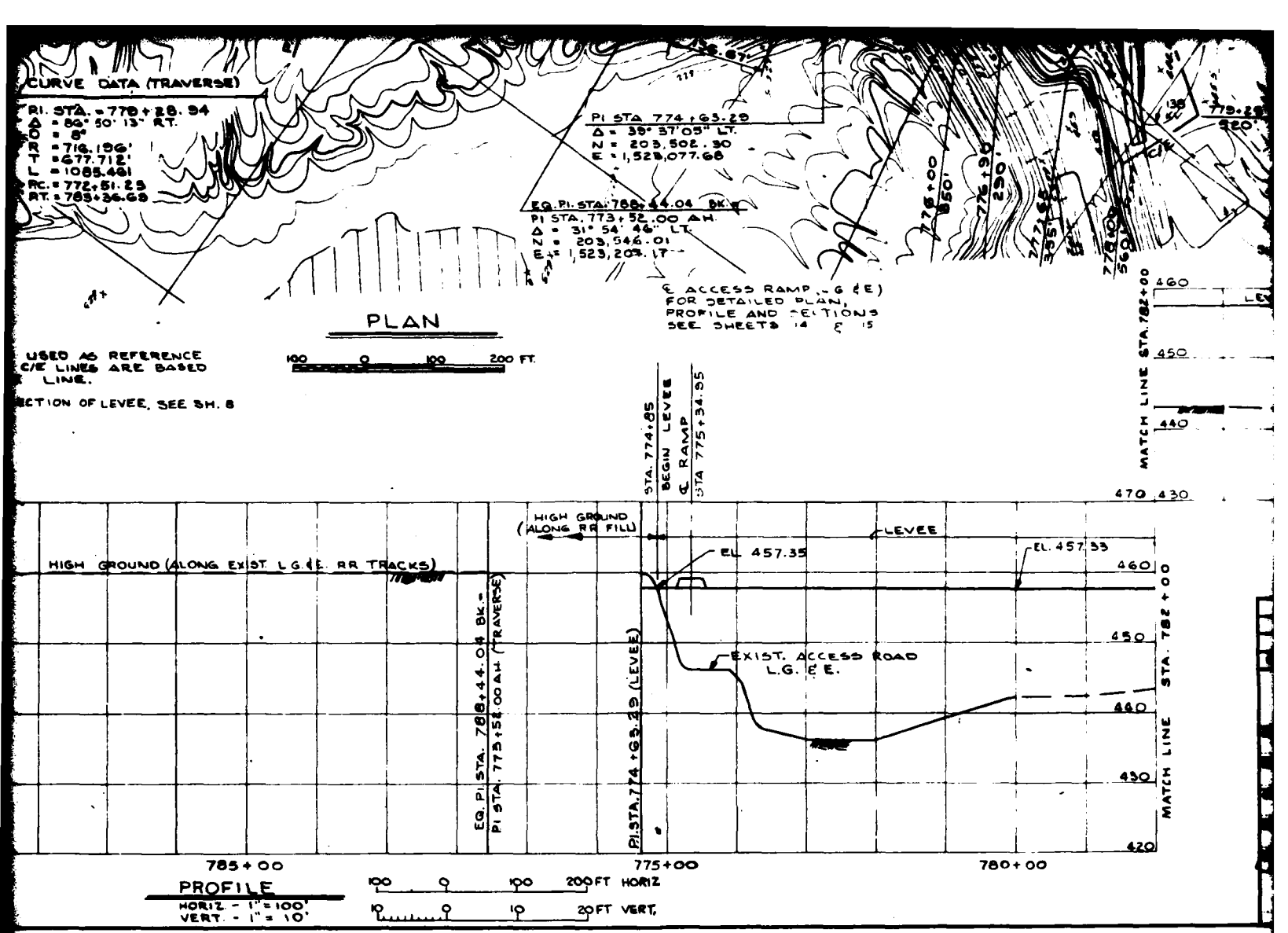
2 FOR TYPICAL SECTION OF LEVEE, SEE SH. 8



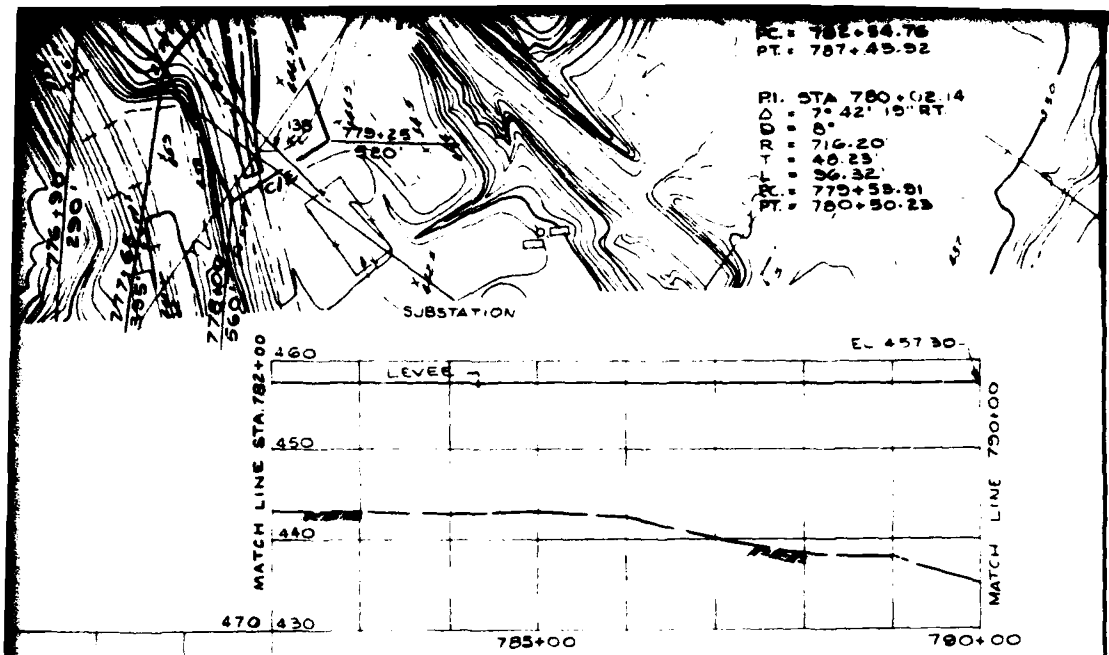
PROFILE

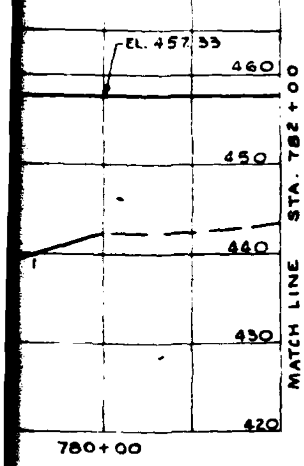
HORIZ - 1" = 100'
VERT - 1" = 10'

4


CURVE DATA (TRAVERSE)
RI. STA. = 779+28.94
Δ = 86° 50' 13" RT.
D = 8°
R = 716.196'
T = 677.712'
L = 1085.461
RC. = 772+51.25
RT. = 789+36.69
PI STA 774+63.29
Δ = 38° 37' 05" LT.
N = 203,502.30
E = 1,528,077.68
EQ. PI STA. 788+44.04 BK.
PI STA. 773+52.00 AH.
Δ = 31° 54' 46" LT.
N = 203,546.01
E = 1,523,203.17
℄ ACCESS RAMP (L G ℄ E)
FOR DETAILED PLAN, PROFILE AND SECTIONS SEE SHEETS 14 & 15
PLAN
USED AS REFERENCE C/E LINES ARE BASED LINE.
100 0 100 200 FT.
ECTION OF LEVEE, SEE SH. 8
STA. 774+85 BEGIN LEVEE
℄ RAMP STA 775+34.55
MATCH LINE STA. 782+00
HIGH GROUND (ALONG EXIST. L.G.℄E. RR TRACKS)
HIGH GROUND (ALONG RR FILL)
LEVEE
EL. 457.35
EL. 457.35
EXIST. ACCESS ROAD L.G. ℄ E.
EQ. PI STA. 788+44.04 BK. = PI STA. 773+54.00 AH. (TRAVERSE)
PI STA. 774+63.29 (LEVEE)
MATCH LINE STA. 782+00
470 430
460
450
440
430
420
785+00
775+00
780+00
PROFILE
HORIZ. - 1" = 100'
VERT. - 1" = 10'
100 0 100 200 FT HORIZ
10 0 10 20 FT VERT.

5





REVISION	DATE	DESCRIPTION	BY	APP'D.

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: Michel
DRAWN: W
TRACED: R.O.L.
CHECKED: M.A.R.
SUBMITTED: John J. Speaker

SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION - 4

PLAN AND PROFILE

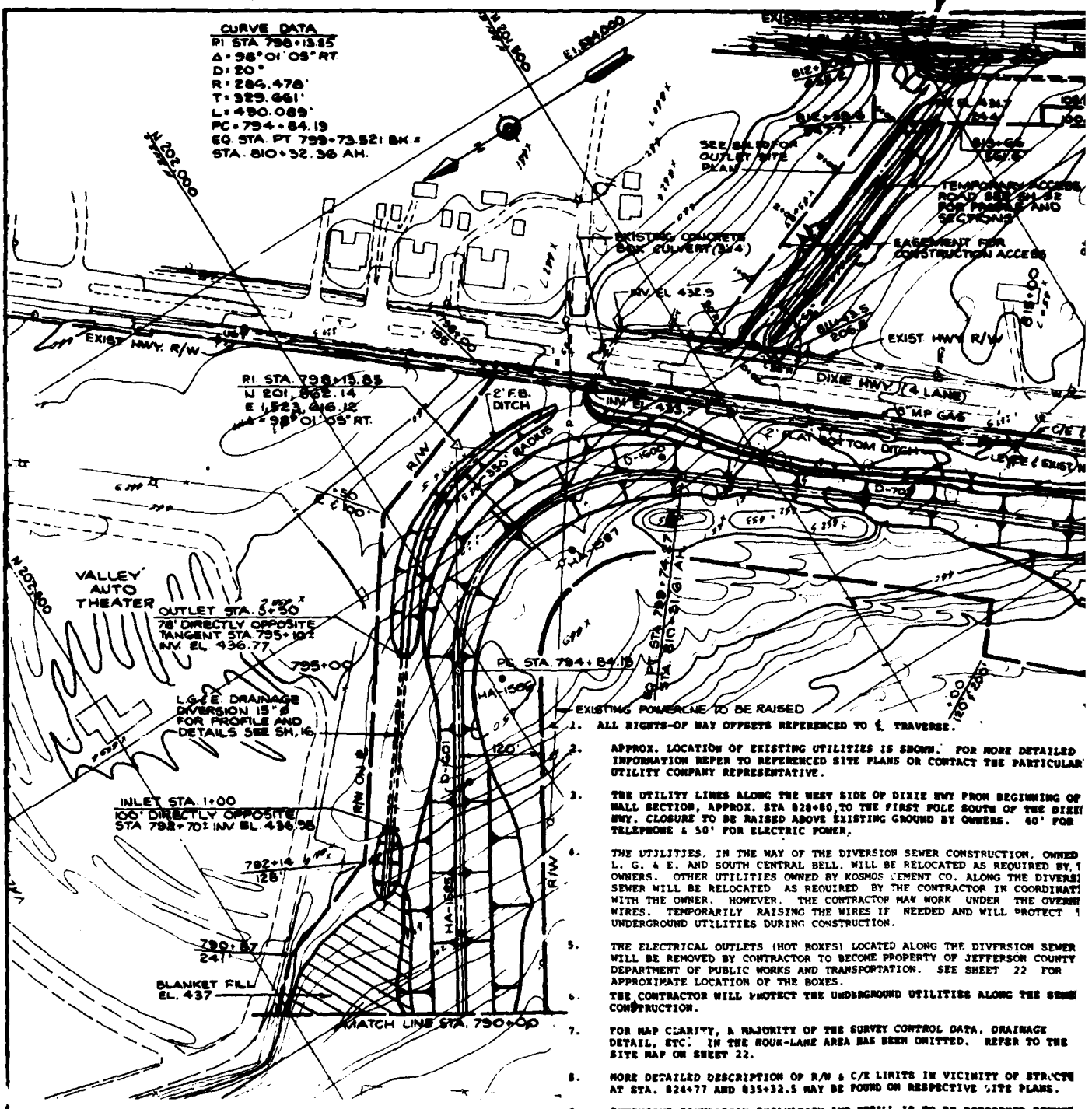
STA. 770+00 TO STA. 790+00

SCALE: AS SHOWN
DATE: AUG 82
DRAWING NUMBER: 616-12.10/6

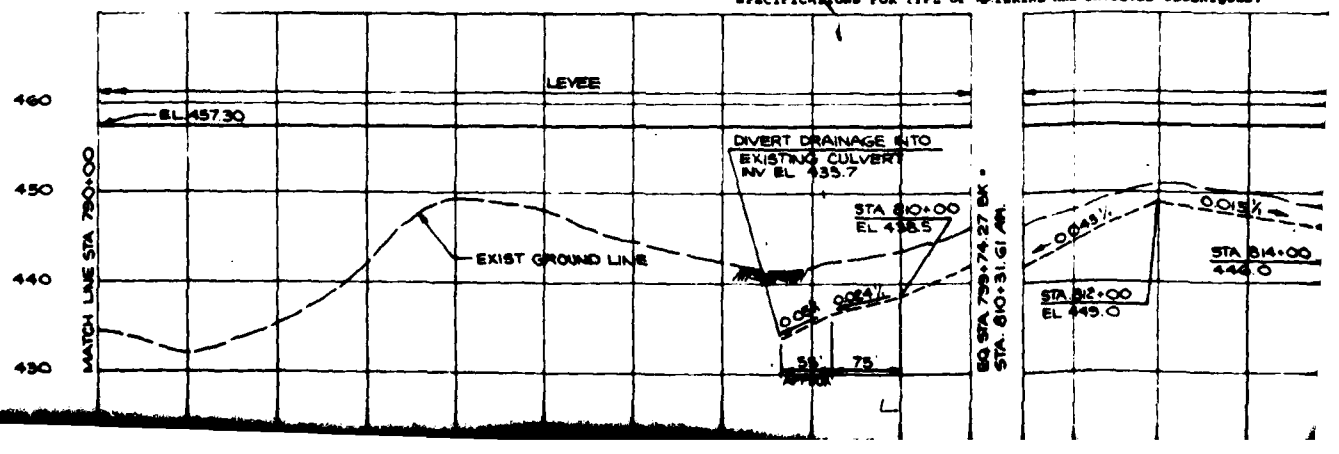
PLATE 2

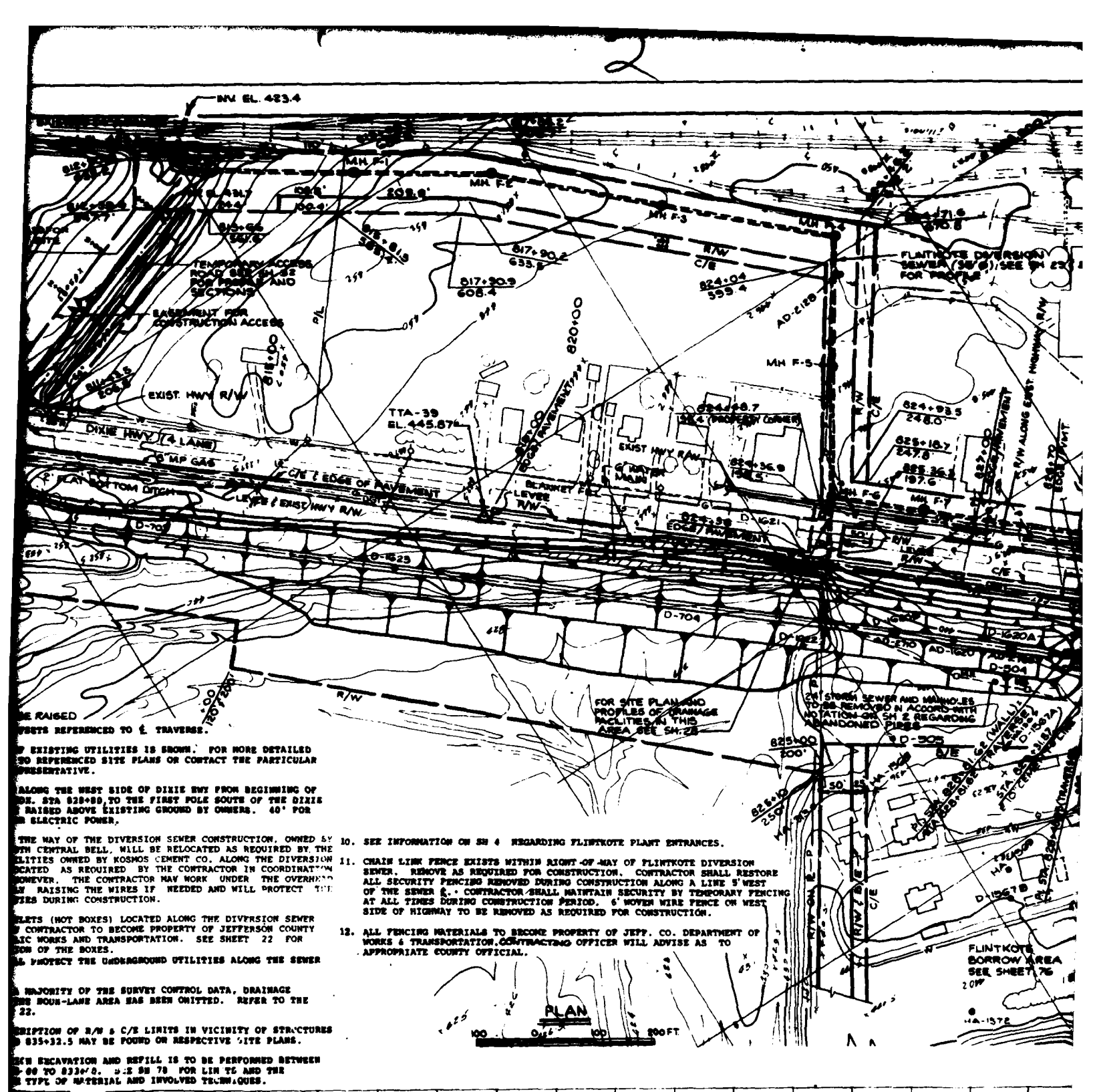
6

CORPS OF ENGINEERS



1. ALL RIGHTS-OF WAY OFFSETS REFERENCED TO ℄ TRAVERSE.
2. APPROX. LOCATION OF EXISTING UTILITIES IS SHOWN. FOR MORE DETAILED INFORMATION REFER TO REFERENCED SITE PLANS OR CONTACT THE PARTICULAR UTILITY COMPANY REPRESENTATIVE.
3. THE UTILITY LINES ALONG THE WEST SIDE OF DIXIE HWY FROM BEGINNING OF WALL SECTION, APPROX. STA 828+80, TO THE FIRST POLE SOUTH OF THE DIXIE HWY. CLOSURE TO BE RAISED ABOVE EXISTING GROUND BY OWNERS. 40' FOR TELEPHONE & 50' FOR ELECTRIC POWER.
4. THE UTILITIES IN THE WAY OF THE DIVERSION SEWER CONSTRUCTION, OWNED L. G. & E. AND SOUTH CENTRAL BELL, WILL BE RELOCATED AS REQUIRED BY THE OWNERS. OTHER UTILITIES OWNED BY KOSMOS CEMENT CO. ALONG THE DIVERSION SEWER WILL BE RELOCATED AS REQUIRED BY THE CONTRACTOR IN COORDINATION WITH THE OWNER. HOWEVER, THE CONTRACTOR MAY WORK UNDER THE OVERHEAD WIRES. TEMPORARILY RAISING THE WIRES IF NEEDED AND WILL PROTECT THE UNDERGROUND UTILITIES DURING CONSTRUCTION.
5. THE ELECTRICAL OUTLETS (HOT BOXES) LOCATED ALONG THE DIVERSION SEWER WILL BE REMOVED BY CONTRACTOR TO BECOME PROPERTY OF JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION. SEE SHEET 22 FOR APPROXIMATE LOCATION OF THE BOXES.
6. THE CONTRACTOR WILL PROTECT THE UNDERGROUND UTILITIES ALONG THE SEWER CONSTRUCTION.
7. FOR MAP CLARITY, A MAJORITY OF THE SURVEY CONTROL DATA, DRAINAGE DETAIL, ETC. IN THE HOUK-LANE AREA HAS BEEN OMITTED. REFER TO THE SITE MAP ON SHEET 22.
8. MORE DETAILED DESCRIPTION OF R/W & C/E LIMITS IN VICINITY OF STRUCTURE AT STA. 824+77 AND 835+32.5 MAY BE FOUND ON RESPECTIVE SITE PLANS.
9. EXTENSIVE FOUNDATION EXCAVATION AND REFILL IS TO BE PERFORMED BETWEEN LIMITS OF STA. 825+00 TO 833+00. SEE SH 78 FOR LIMITS AND THE SPECIFICATIONS FOR TYPE OF MATERIAL AND INVOLVED TECHNIQUES.





RAISED
SETS REFERENCED TO ℄ TRAVERSE.

F EXISTING UTILITIES IS SHOWN. FOR MORE DETAILED
ED REFERENCED SITE PLANS OR CONTACT THE PARTICULAR
PRESENTATIVE.

ALONG THE WEST SIDE OF DIXIE HWY FROM BEGINNING OF
DE. STA 828+80, TO THE FIRST POLE SOUTH OF THE DIXIE
RAISED ABOVE EXISTING GROUND BY OWNERS. 40' FOR
R ELECTRIC POWER.

THE WAY OF THE DIVERSION SEWER CONSTRUCTION, OWNED BY
TH CENTRAL BELL, WILL BE RELOCATED AS REQUIRED BY THE
LITIES OWNED BY KOSMOS CEMENT CO. ALONG THE DIVERSION
CATED AS REQUIRED BY THE CONTRACTOR IN COORDINATION
OWEVER. THE CONTRACTOR MAY WORK UNDER THE OVERHEAD
W RAISING THE WIRES IF NEEDED AND WILL PROTECT THE
IRES DURING CONSTRUCTION.

LETS (HOT BOXES) LOCATED ALONG THE DIVERSION SEWER
CONTRACTOR TO BECOME PROPERTY OF JEFFERSON COUNTY
IC WORKS AND TRANSPORTATION. SEE SHEET 22 FOR
ON OF THE BOXES.
L PROTECT THE UNDERGROUND UTILITIES ALONG THE SEWER

AJORITY OF THE SURVEY CONTROL DATA, DRAINAGE
HE HOUR-LANE AREA HAS BEEN OMITTED. REFER TO THE
22.

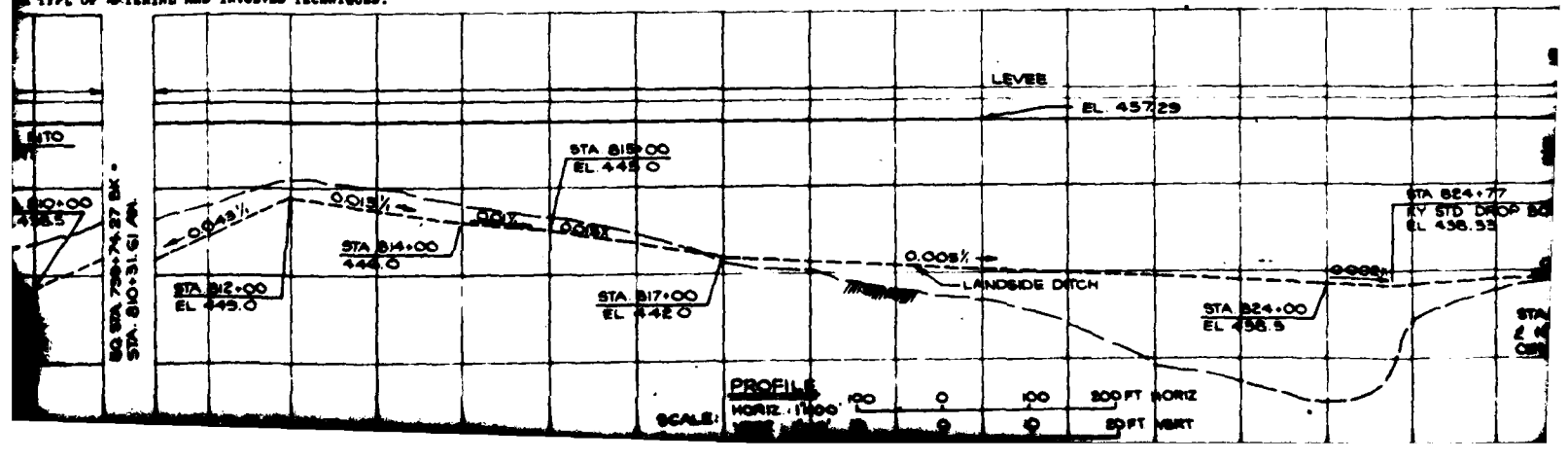
RIPTION OF R/W & C/E LINITS IN VICINITY OF STRUCTURES
835+32.5 MAY BE FOUND ON RESPECTIVE SITE PLANS.

CK EXCAVATION AND REFILL IS TO BE PERFORMED BETWEEN
00 TO 833+70. SEE SH 78 FOR LIN TL AND THE
TYPE OF MATERIAL AND INVOLVED TECHNIQUES.

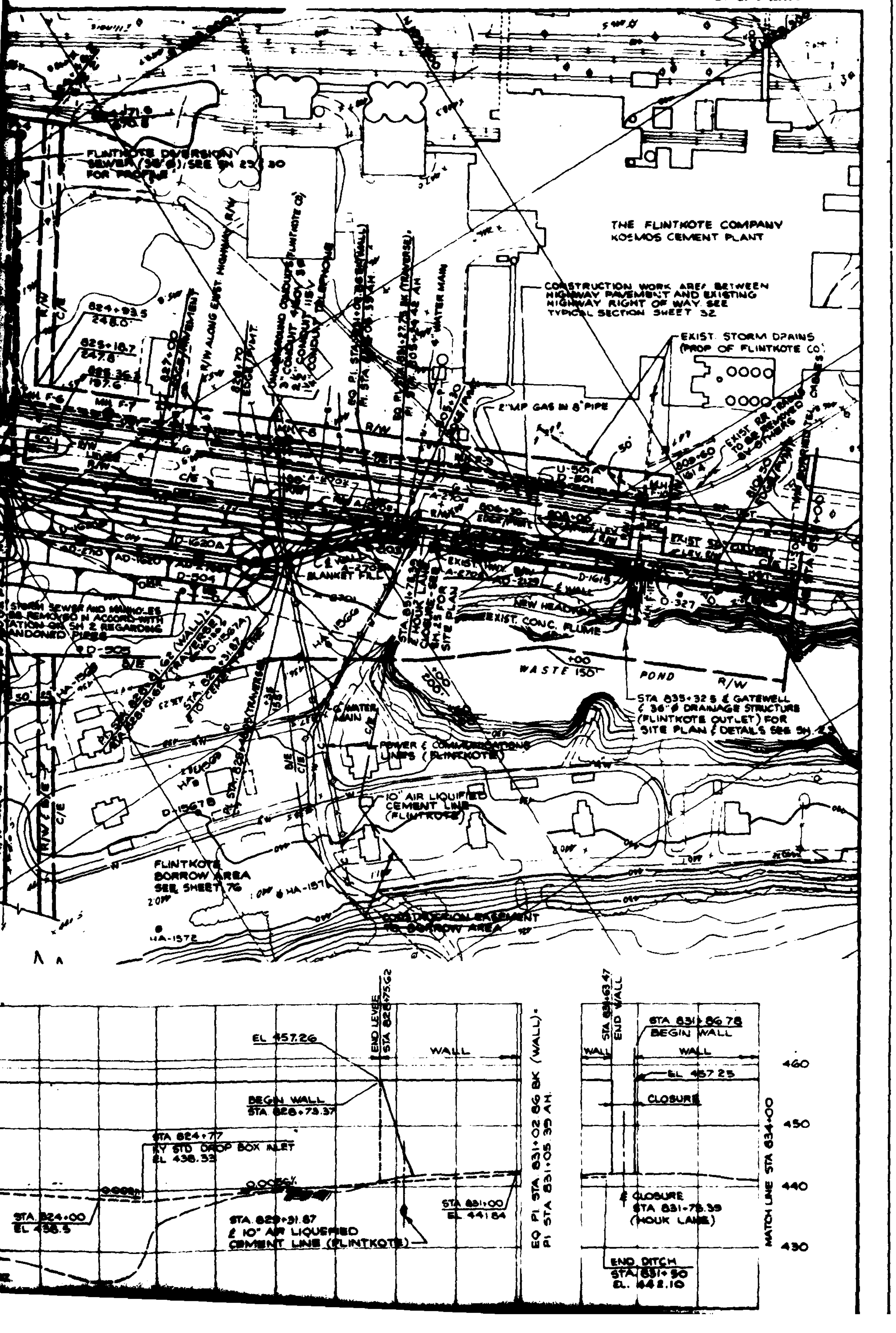
10. SEE INFORMATION ON SH 4 REGARDING FLINTKOTE PLANT ENTRANCES.

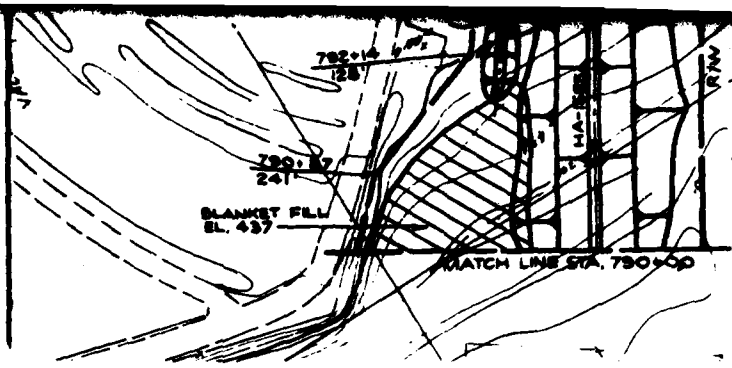
11. CHAIN LINK FENCE EXISTS WITHIN RIGHT-OF-WAY OF FLINTKOTE DIVERSION SEWER. REMOVE AS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL SECURITY FENCING REMOVED DURING CONSTRUCTION ALONG A LINE 5' WEST OF THE SEWER ℄. CONTRACTOR SHALL MAINTAIN SECURITY BY TEMPORARY FENCING AT ALL TIMES DURING CONSTRUCTION PERIOD. 6' WOVEN WIRE FENCE ON WEST SIDE OF HIGHWAY TO BE REMOVED AS REQUIRED FOR CONSTRUCTION.

12. ALL FENCING MATERIALS TO BECOME PROPERTY OF JEFF. CO. DEPARTMENT OF WORKS & TRANSPORTATION. CONTRACTING OFFICER WILL ADVISE AS TO APPROPRIATE COUNTY OFFICIAL.



U. S. ARMY


THE FLINTKOTE COMPANY
KOSMOS CEMENT PLANT
CONSTRUCTION WORK AREA BETWEEN HIGHWAY PAVEMENT AND EXISTING HIGHWAY RIGHT OF WAY. SEE TYPICAL SECTION SHEET 32
EXIST. STORM DRAINS (PROP OF FLINTKOTE CO.)
FLINTKOTE DIVERSION SEWER (96"Ø) SEE SH 23, 30 FOR PROFILE
2" H.P. GAS IN 8" PIPE
BLANKET FILL
NEW HEADWALL
EXIST. CONC. FLUME
WASTE POND
STA 835+32.5 & GATEWELL ℄ 36"Ø DRAINAGE STRUCTURE (FLINTKOTE OUTLET) FOR SITE PLAN & DETAILS SEE SH. 25
POWER & COMMUNICATIONS LINES (FLINTKOTE)
10" AIR LIQUIFIED CEMENT LINE (FLINTKOTE)
FLINTKOTE BORROW AREA SEE SHEET 76
CONSTRUCTION EASEMENT TO BORROW AREA
HA-1572
EL 457.26
WALL
BEGIN WALL
STA 828+73.37
STA 824+77
KY STD DROP BOX INLET
EL 438.33
STA 824+00
EL 436.5
STA 829+31.87
℄ 10" AIR LIQUIFIED CEMENT LINE (FLINTKOTE)
STA 831+00
EL 441.84
END LEVEE
STA 828+75.62
EQ PI STA 831+02.86 BK (WALL) = PI STA 831+05.35 AH.
STA 831+86.78
BEGIN WALL
EL 457.25
CLOSURE
℄ CLOSURE
STA 831+73.39
(HOUK LANE)
END DITCH
STA 831+50
EL 442.10
END WALL
MATCH LINE STA 834+00
460
450
440
430



4. THE UTILITIES, IN THE WAY OF THE DIVERSION SEWER CONSTRUCTION, OWNED L. G. & E. AND SOUTH CENTRAL BELL, WILL BE RELOCATED AS REQUIRED BY, T OWNERS. OTHER UTILITIES OWNED BY KOSMOS CEMENT CO. ALONG THE DIVERSI SEWER WILL BE RELOCATED AS REQUIRED BY THE CONTRACTOR IN COORDINATI WITH THE OWNER. HOWEVER, THE CONTRACTOR MAY WORK UNDER THE OVERHE WIRES. TEMPORARILY RAISING THE WIRES IF NEEDED AND WILL PROTECT T UNDERGROUND UTILITIES DURING CONSTRUCTION.

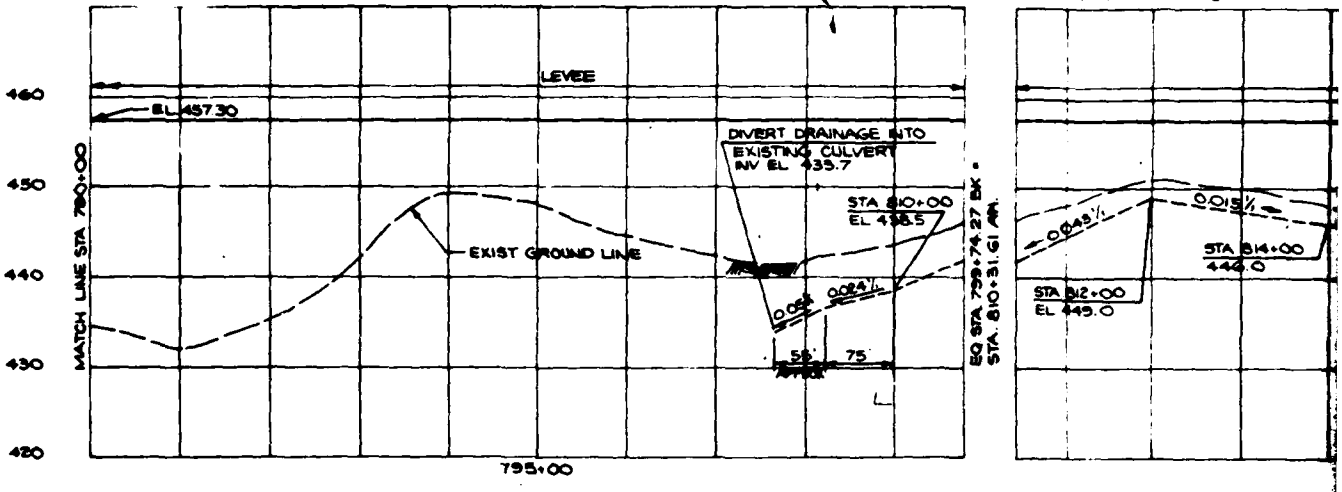
5. THE ELECTRICAL OUTLETS (HOT BOXES) LOCATED ALONG THE DIVERSION SEWER WILL BE REMOVED BY CONTRACTOR TO BECOME PROPERTY OF JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION. SEE SHEET 22 FOR APPROXIMATE LOCATION OF THE BOXES.

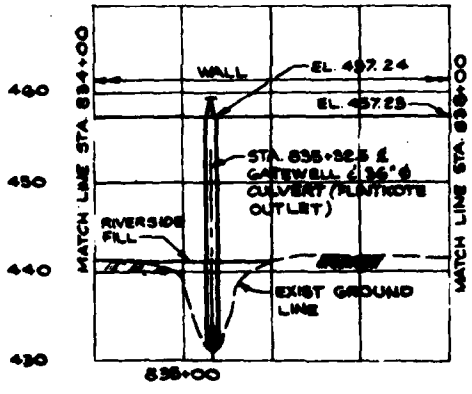
6. THE CONTRACTOR WILL PROTECT THE UNDERGROUND UTILITIES ALONG THE SEWER CONSTRUCTION.

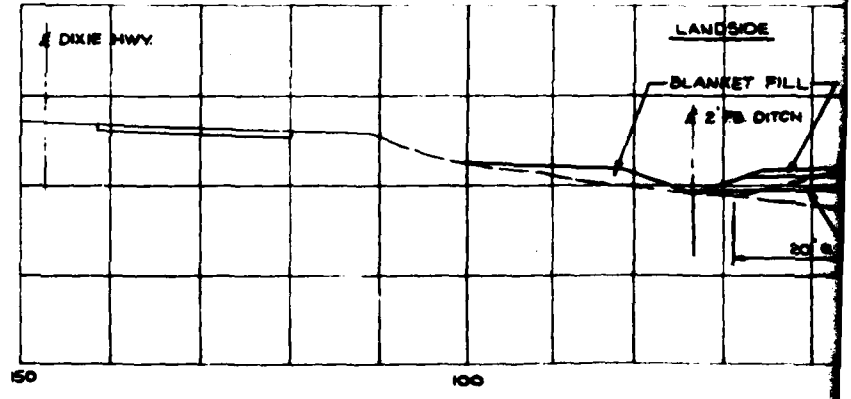
7. FOR MAP CLARITY, A MAJORITY OF THE SURVEY CONTROL DATA, DRAINAGE DETAIL, ETC. IN THE HOUR-LANE AREA HAS BEEN OMITTED. REFER TO THE SITE MAP ON SHEET 22.

8. MORE DETAILED DESCRIPTION OF R/W & C/E LIMITS IN VICINITY OF STRUCTUR AT STA. 824+77 AND 835+32.5 MAY BE FOUND ON RESPECTIVE SITE PLANS.

9. EXTENSIVE FOUNDATION EXCAVATION AND REFILL IS TO BE PERFORMED BETWEEN LIMITS OF STA. 825+00 TO 833+00. SEE SH 78 FOR LIN TC AND THE SPECIFICATIONS FOR TYPE OF MATERIAL AND INVOLVED TECHNIQUES.







4

...CONTRACTOR MAY WORK UNDER THE OVERHEAD ...THE WIRES IF NEEDED AND WILL PROTECT THE ...CONSTRUCTION.

...(PUMPS) LOCATED ALONG THE DIVERSION SEWER ... TO BECOME PROPERTY OF JEFFERSON COUNTY ...D TRANSPORTATION. SEE SHEET 22 FOR ...ES.

...NG UNDERGROUND UTILITIES ALONG THE SEWER

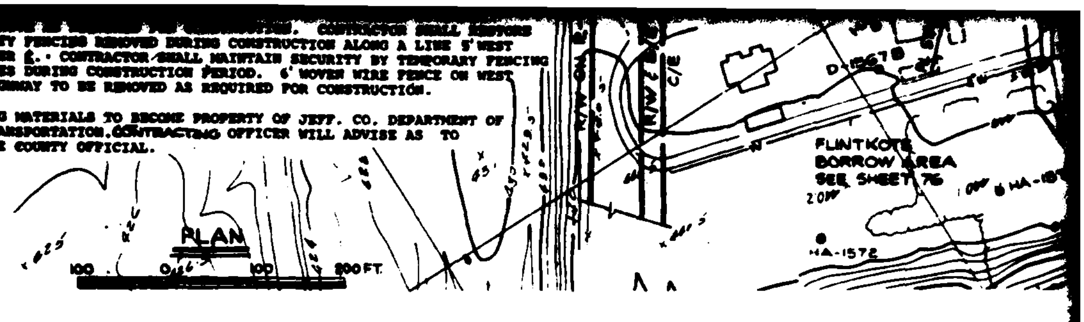
...F THE SURVEY CONTROL DATA, DRAINAGE ...E AREA HAS BEEN OMITTED. REFER TO THE

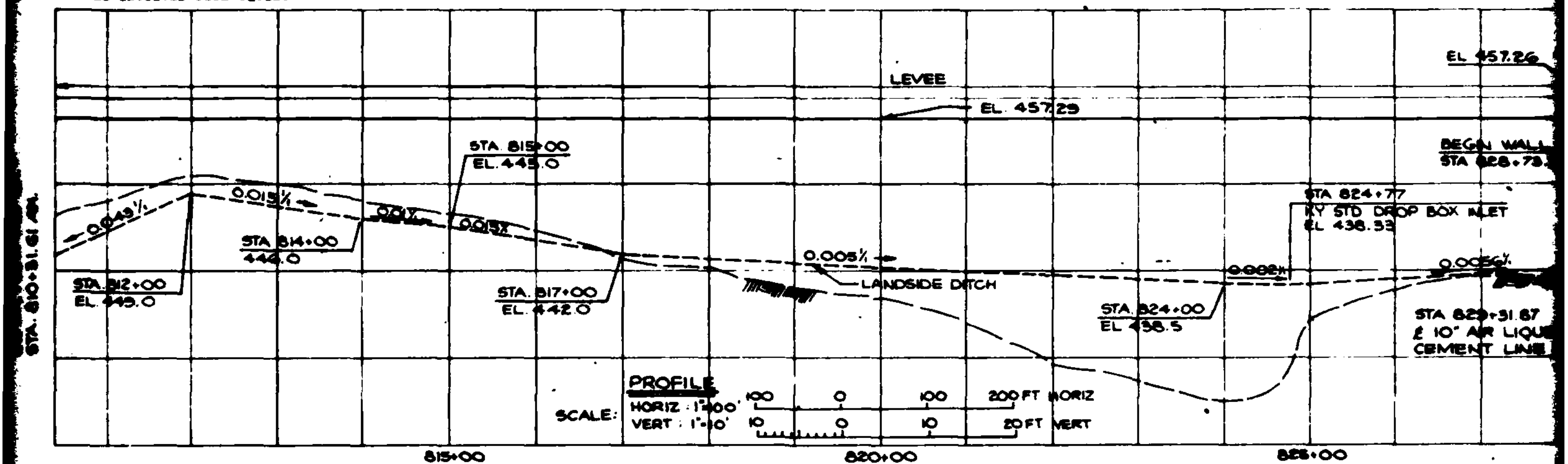
... R/W & C/E LIMITS IN VICINITY OF STRUCTURES ...AY BE FOUND ON RESPECTIVE SITE PLANS.

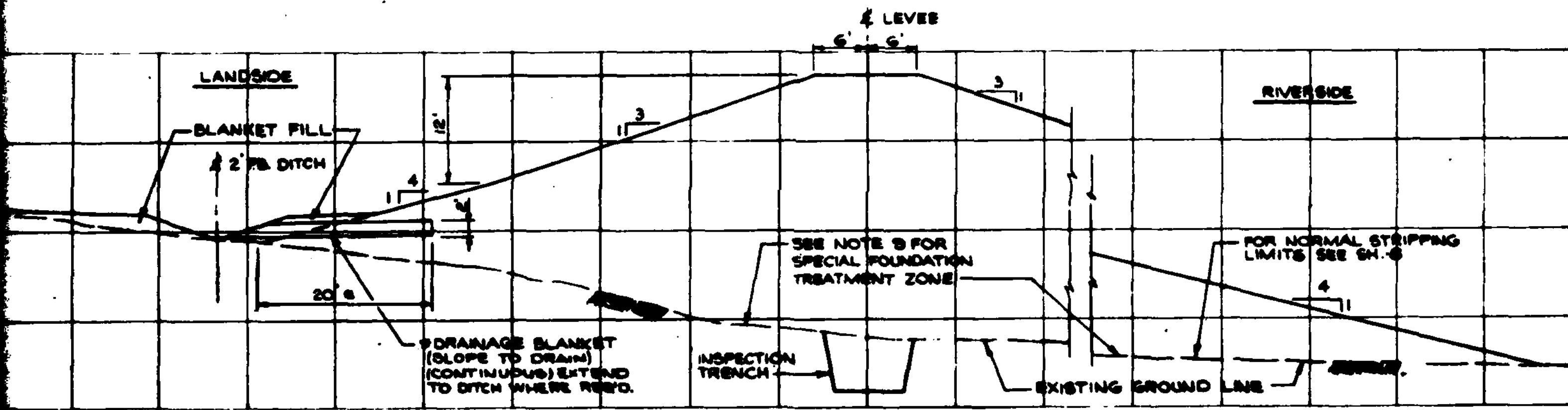
...NG AND REFILL IS TO BE PERFORMED BETWEEN ...Y8. SEE SH 78 FOR LIM TS AND THE ...TERIAL AND INVOLVED TECHNIQUES.

... CONTRACTOR SHALL RESTORE ALL SECURITY FENCING REMOVED DURING CONSTRUCTION ALONG A LINE 5' WEST OF THE SEWER ℄. CONTRACTOR SHALL MAINTAIN SECURITY BY TEMPORARY FENCING AT ALL TIMES DURING CONSTRUCTION PERIOD. 6' WOVEN WIRE FENCE ON WEST SIDE OF HIGHWAY TO BE REMOVED AS REQUIRED FOR CONSTRUCTION.

12. ALL FENCING MATERIALS TO BECOME PROPERTY OF JEFF. CO. DEPARTMENT OF WORKS & TRANSPORTATION. CONTRACTING OFFICER WILL ADVISE AS TO APPROPRIATE COUNTY OFFICIAL.





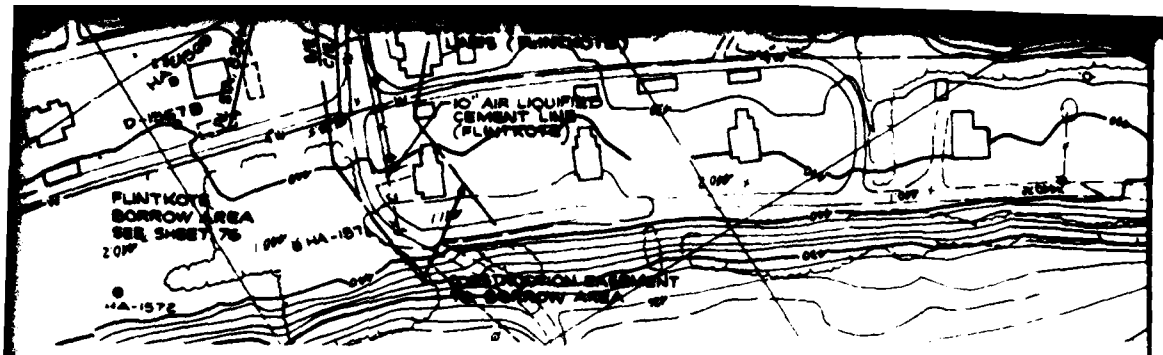


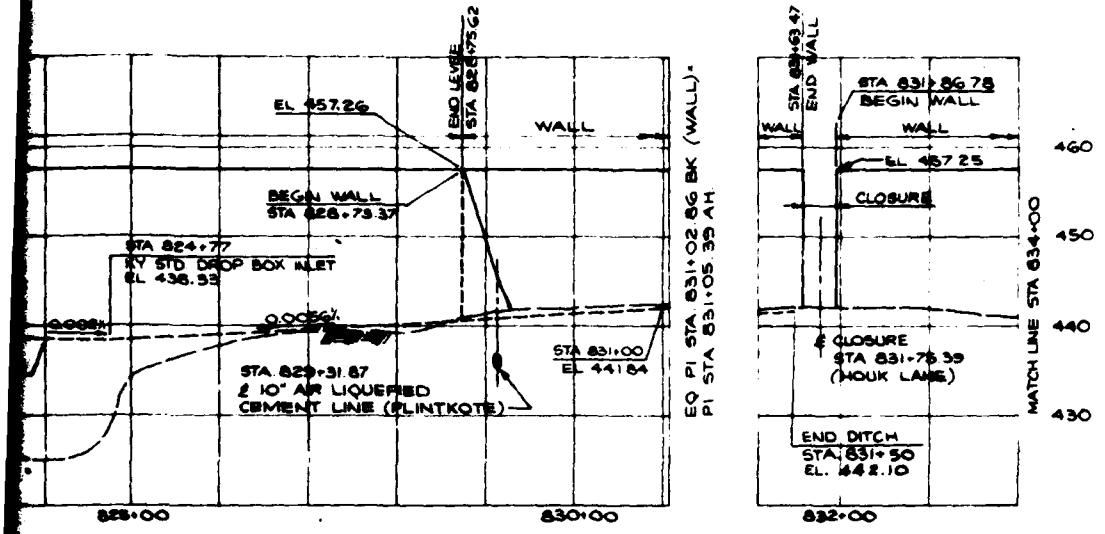
TYPICAL SECTION - STA. 822+00

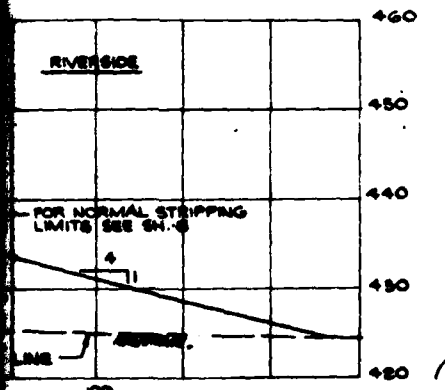
SCALE: 1"=10' HORIZ. & VERT.

10 0 10 20FT

5







REVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: mdd
DRAWN: ~ CHECKED: KLH
QUANTITIES: M.A.R
SUBMITTED: [signature]

SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION - 4

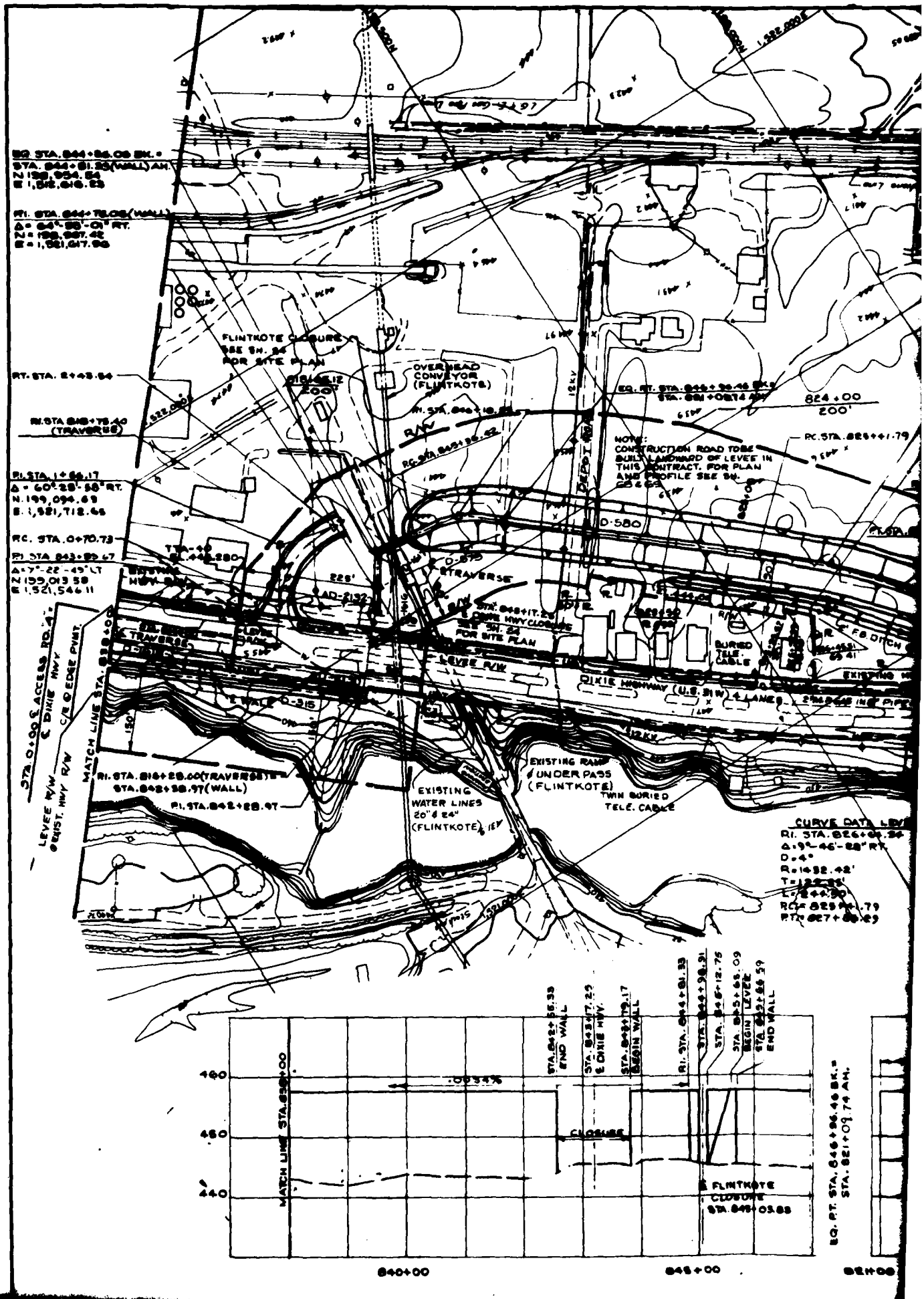
PLAN, PROFILE & TYPICAL SECTION
STA. 790+00 TO STA. 838+00

SCALE: AS SHOWN
DATE: AUG 82

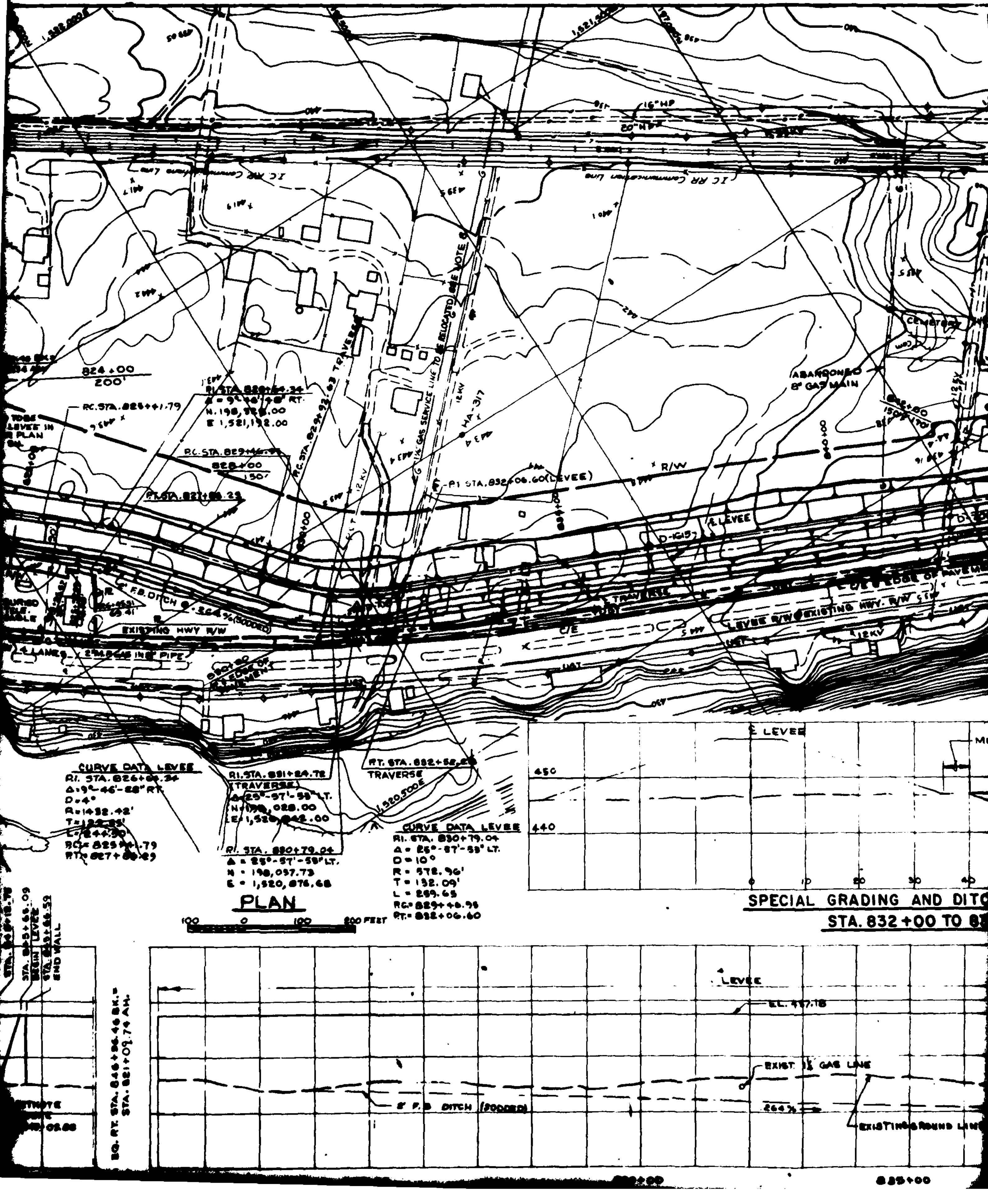
PLATE 3

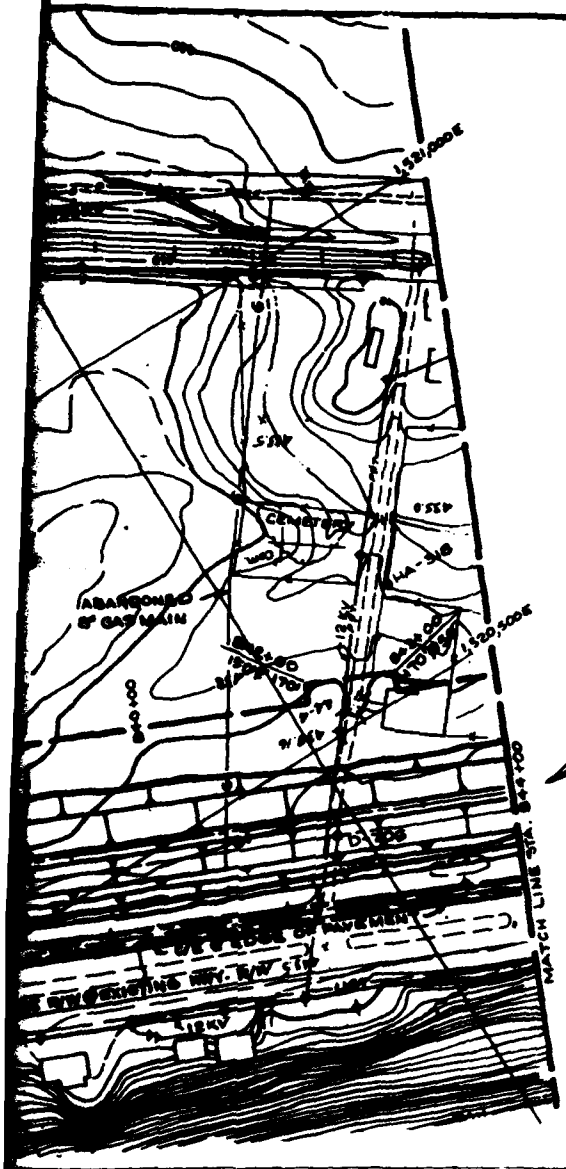
DRAWING NUMBER
616-12.10/7

CORPS OF ENGINEERS



2

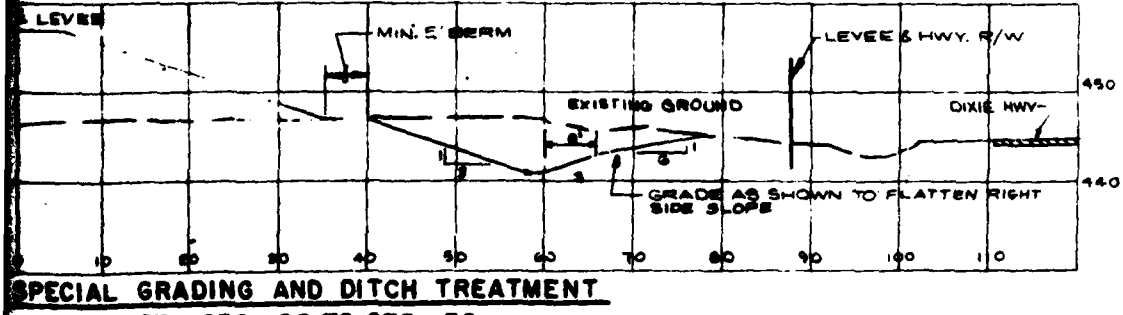

IC RR Communication Line
16" HP
20" HP
824+00
200'
PI. STA. 826+64.34
R.C. STA. 825+41.79
N. 198,978.00
E 1,521,132.00
R.C. STA. 829+46.96
828+00
150'
P.T. STA. 827+80.29
P.T. STA. 832+06.60 (LEVEE)
1/4" GAS SERVICE LINE TO BE RELOCATED SEE NOTE 6
12 KV
TRAVERSE
HA-317
R/W
ABANDONED 8" GAS MAIN
CEMETERY
Ⓛ LEVEE
D-1615
F.B. DITCH
EXISTING HWY R/W
4 LANES
2" GAS CASING PIPE
LEVEE R/W
EXISTING HWY. R/W
CURVE DATA LEVEE
RI. STA. 826+64.34
Δ=9°-46'-28" RT.
D=4°
R=1432.42'
BC=825+41.79
RT.=827+80.29
RI. STA. 831+24.72
(TRAVERSE)
Δ=25°-57'-55" LT.
PT. STA. 832+52
TRAVERSE
1,520,500E
CURVE DATA LEVEE
RI. STA. 830+79.04
Δ=25°-57'-53" LT.
D=10°
R=572.96'
T=132.09'
L=259.65
RC=829+46.96
PT.=832+06.60
RI. STA. 830+79.04
Δ=25°-57'-59" LT.
N=198,037.73
E=1,520,876.68
PLAN
100 0 100 200 FEET
Ⓛ LEVEE
450
440
0 10 20 30 40
SPECIAL GRADING AND DITC
STA. 832+00 TO 8
Ⓛ LEVEE
EL. 457.18
EXIST. 1/2" GAS LINE
8" F.B. DITCH (SODDED)
.264%
EXISTING GROUND LINE
EQ. RT. STA. 846+36.46 BK. = STA. 821+09.74 AH.
835+00



NOTES:

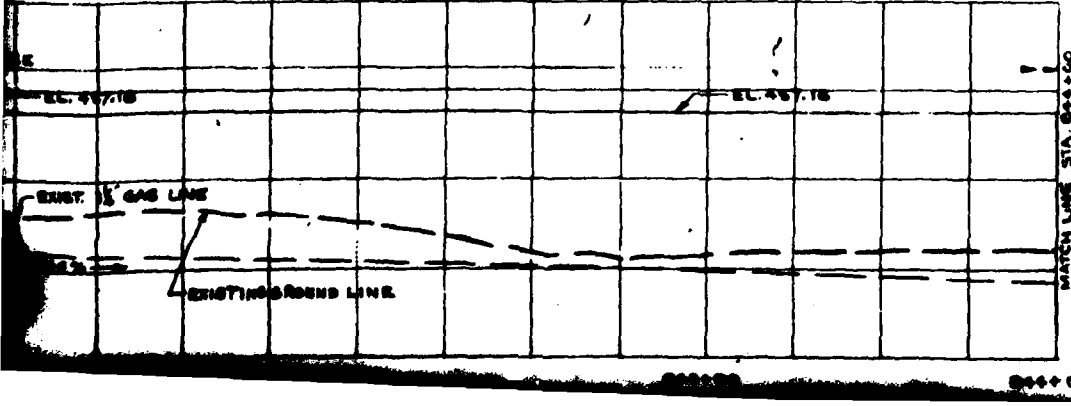
1. FOR MAP CLARITY, A MAJORITY OF THE SURVEY CONTROL DATA IN THE AREA OF THE DIXIE HWY. CLOSURE HAS BEEN OMITTED. REFER TO THE SITE PLAN ON SH. 24.
2. ALL RIGHT OF WAY OFFSETS REFERENCED TO ℄ TRAVERSE.
3. APPROX. LOCATION OF EXISTING UTILITIES IS SHOWN. FOR MORE DETAILED INFORMATION, REFER TO REFERENCED SITE PLANS OR CONTACT THE UTILITY COMPANIES.
4. CONTRACTOR SHALL MAINTAIN CONSTRUCTION ROAD AND REGULATE TRAFFIC TO PERMIT SAFE ACCESS BY AREA RESIDENTS TO THEIR PROPERTY ON AND SOUTH OF DEPOT ROAD.
5. SEE INFORMATION ON SHEET 4 REGARDING FLINTKOTE PLANT ENTRANCES.
6. EXISTING ELECTRIC & TELEPHONE LINES CROSSING LEVEE TO BE RAISED-IN-PLACE TO CLEAR CONSTRUCTION (18' FOR TEL. & 24' FOR ELEC ABOVE LEVEE CROWN)
7. ABANDONED 8" GASLINE TO BE REMOVED AS REQUIRED BY CONTRACTOR.
8. 1½" PRIVATELY OWNED GAS SERVICE LINE TO BE RELOCATED OVER LEVEE BY CONTRACTOR IN COORDINATION WITH OWNER.

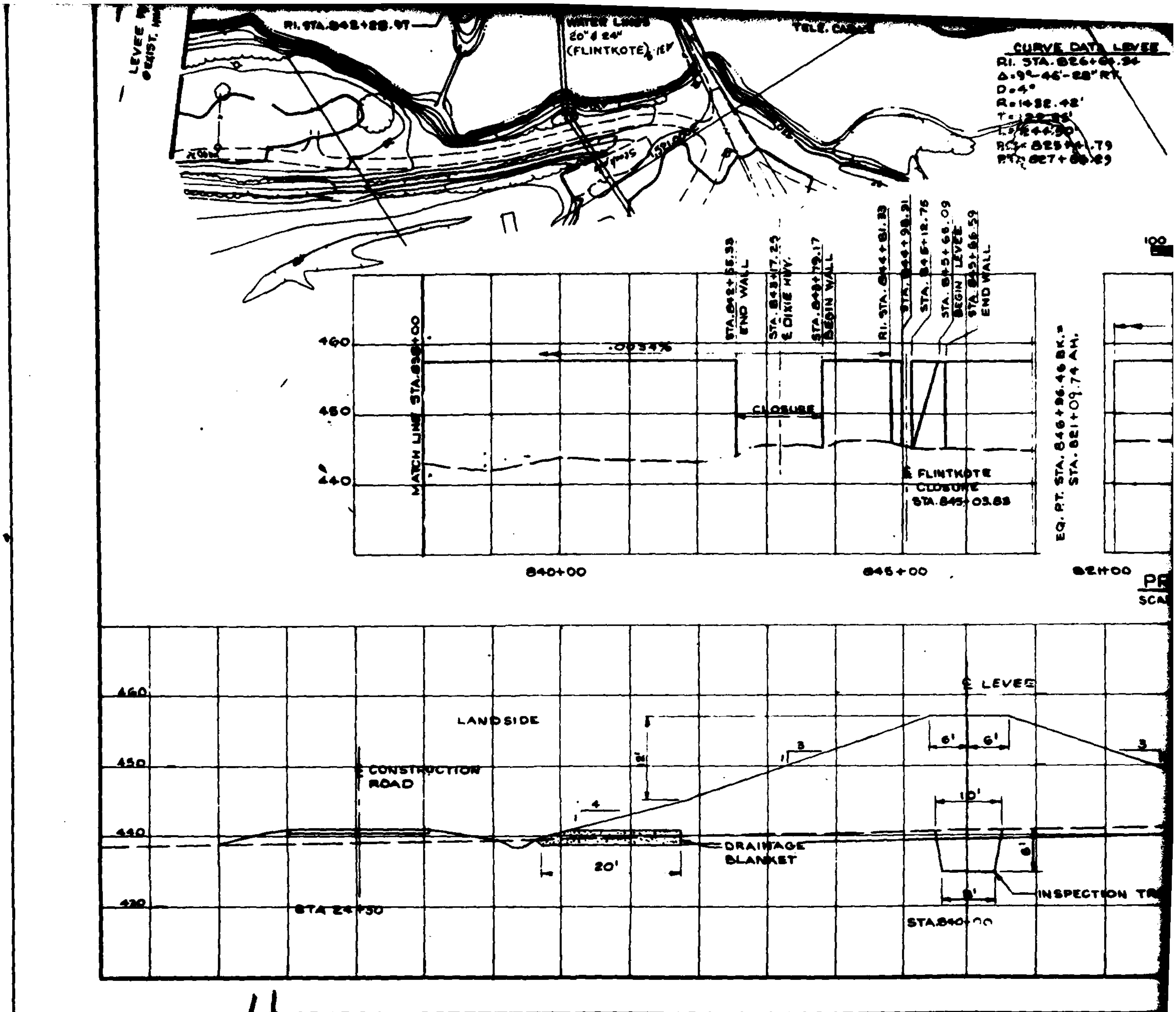
CURVE DATA TRAVERSE
P.I. STA. 851+24.72
Δ = 26°-57'-59" LT.
D = 10°
R = 572.96'
T = 132.09
L = 259.69
BC = 849+92.63
PT = 852+52.28

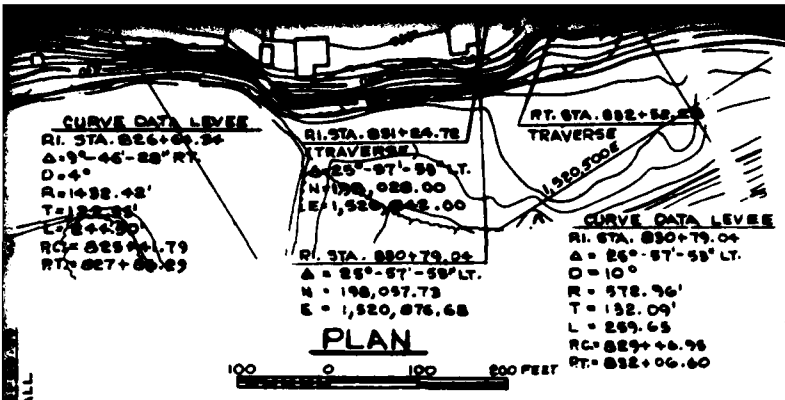


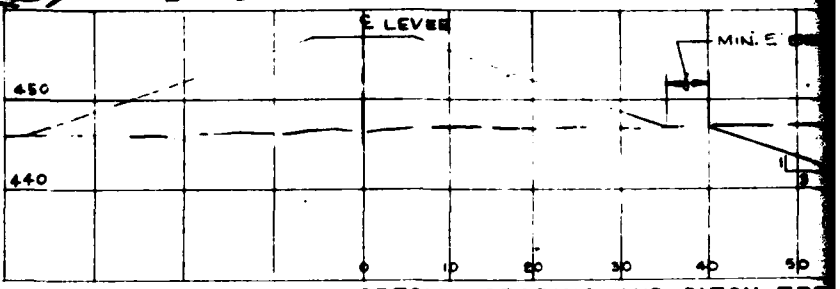
SPECIAL GRADING AND DITCH TREATMENT

STA. 832+00 TO 835+30 SCALE: HOR. 1" = 10' VERT. 1" = 10' 10 0 10 20 FT.

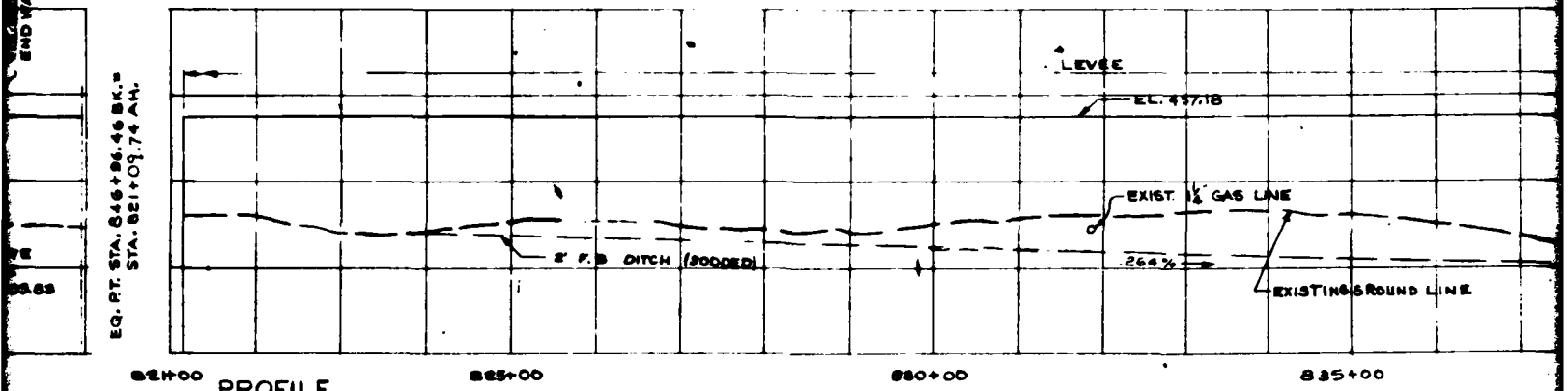



WATER LINES
20" & 24"
(FLINTKOTE)
TELE. CABLE
CURVE DATA LEVEE
MATCH LINE STA. 838+00
.0034%
END WALL
℄ DIXIE HWY.
BEGIN WALL
BEGIN LEVEE
END WALL
CLOSURE
℄ FLINTKOTE
CLOSURE
460
450
440
840+00
845+00
℄ LEVEE
LANDSIDE
℄ CONSTRUCTION
ROAD
DRAINAGE
BLANKET
20'
10'
6'
6'
INSPECTION TR
STA. 840+00

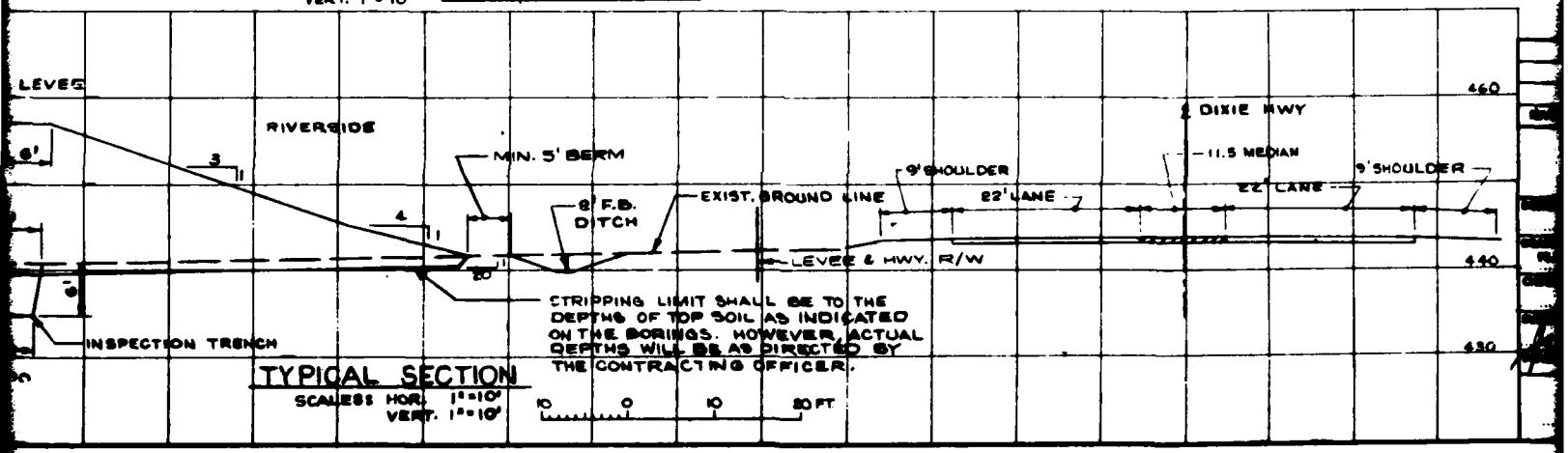




SPECIAL GRADING AND DITCH TR
STA. 832+00 TO 835+30

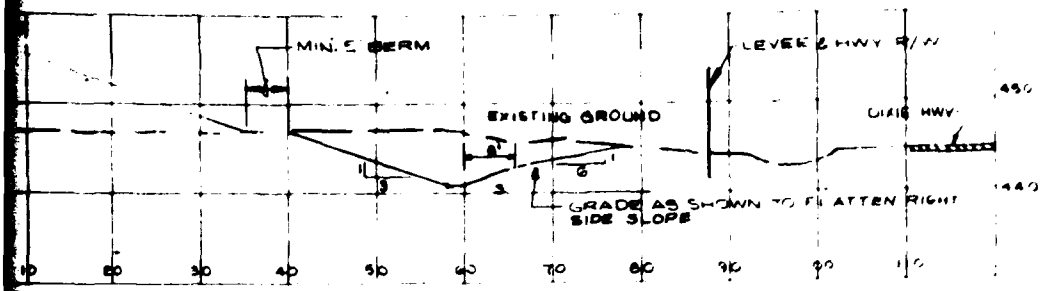


PROFILE
SCALES: HOR. 1"=10'
VERT. 1"=10'
10 0 10 20 FT



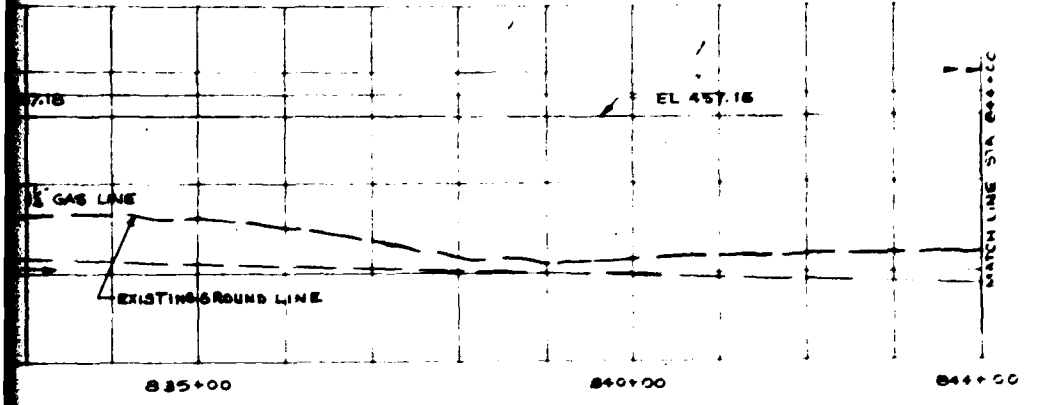
TYPICAL SECTION
SCALES: HOR. 1"=10'
VERT. 1"=10'
10 0 10 20 FT

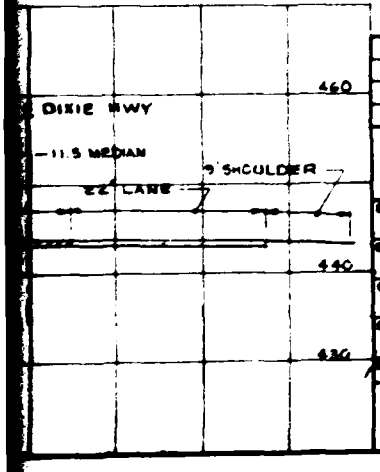
5



AL GRADING AND DITCH TREATMENT

STA. 832+00 TO 835+30 SCALE HOR. 1" = 10' VERT 1" = 10'





DIVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: Mchd
DRAWN: R.P.M
TRACED: R.P.M
CHECKED: M.A.R.
SUBMITTED:
SCALE: AS SHOWN
DATE: AUG 82

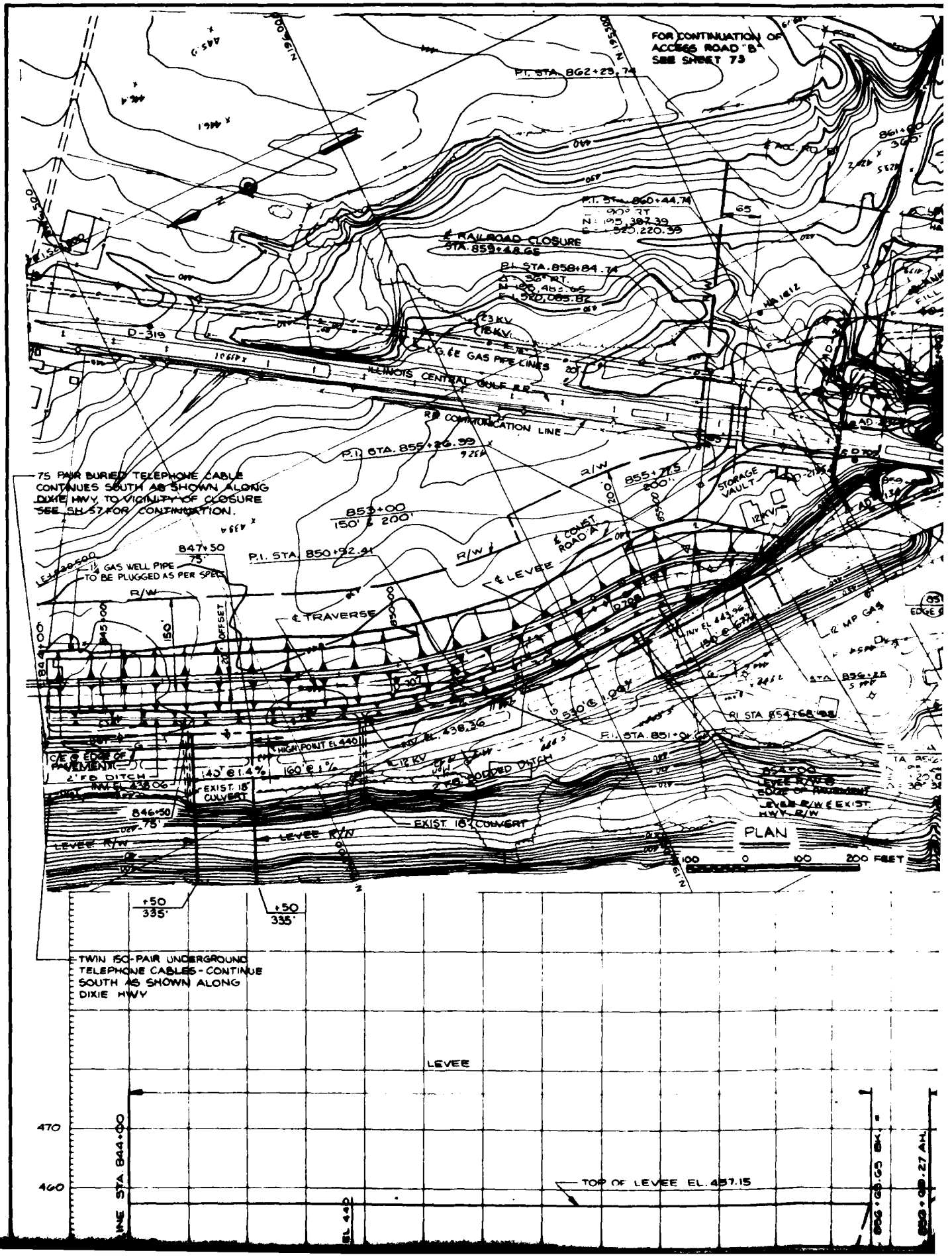
SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION - 4

PLAN, PROFILE & TYPICAL SECTION
STA. 832+00 TO STA 844+00

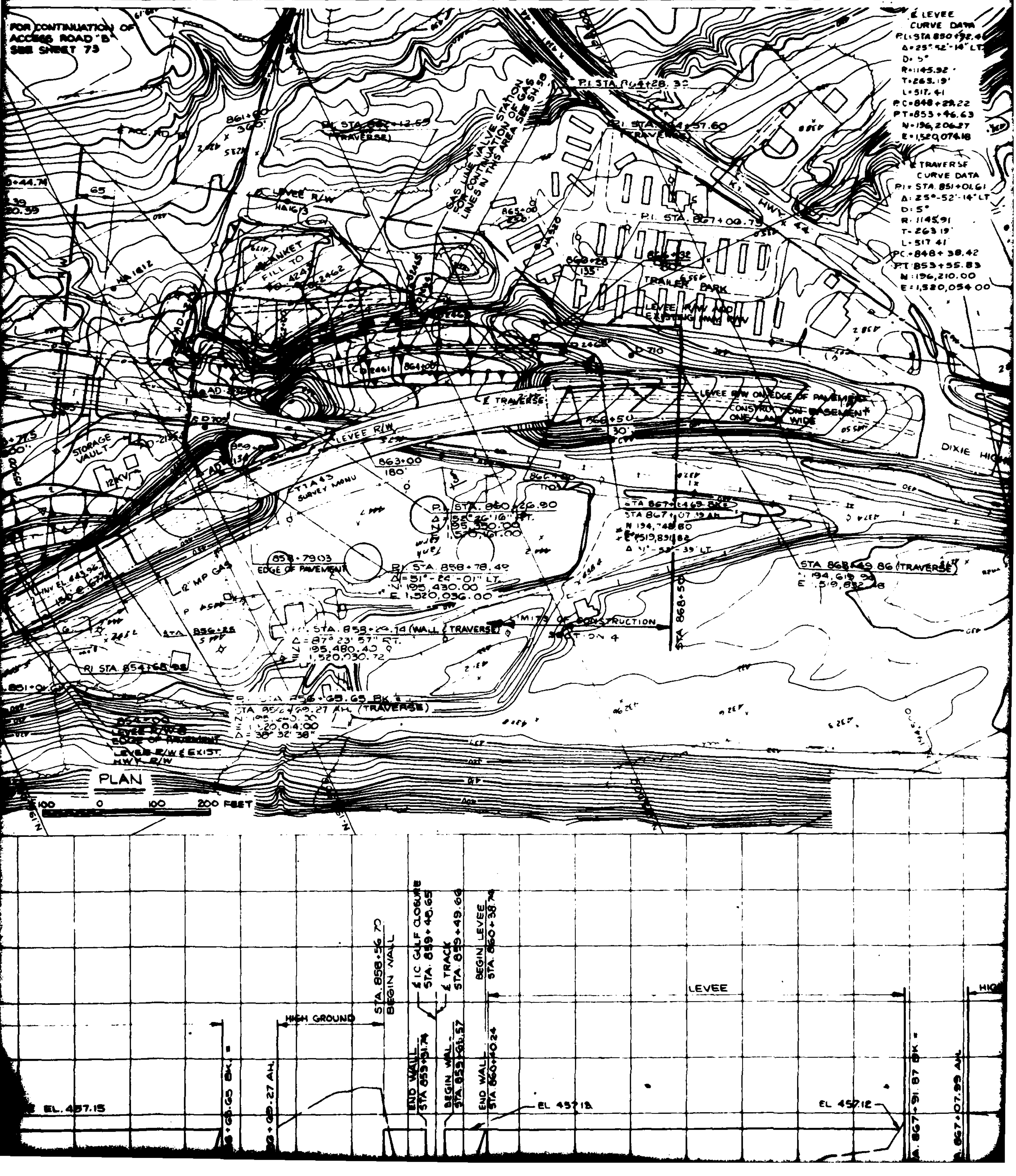
PLATE 4

DRAWING NUMBER
616-12 10/8

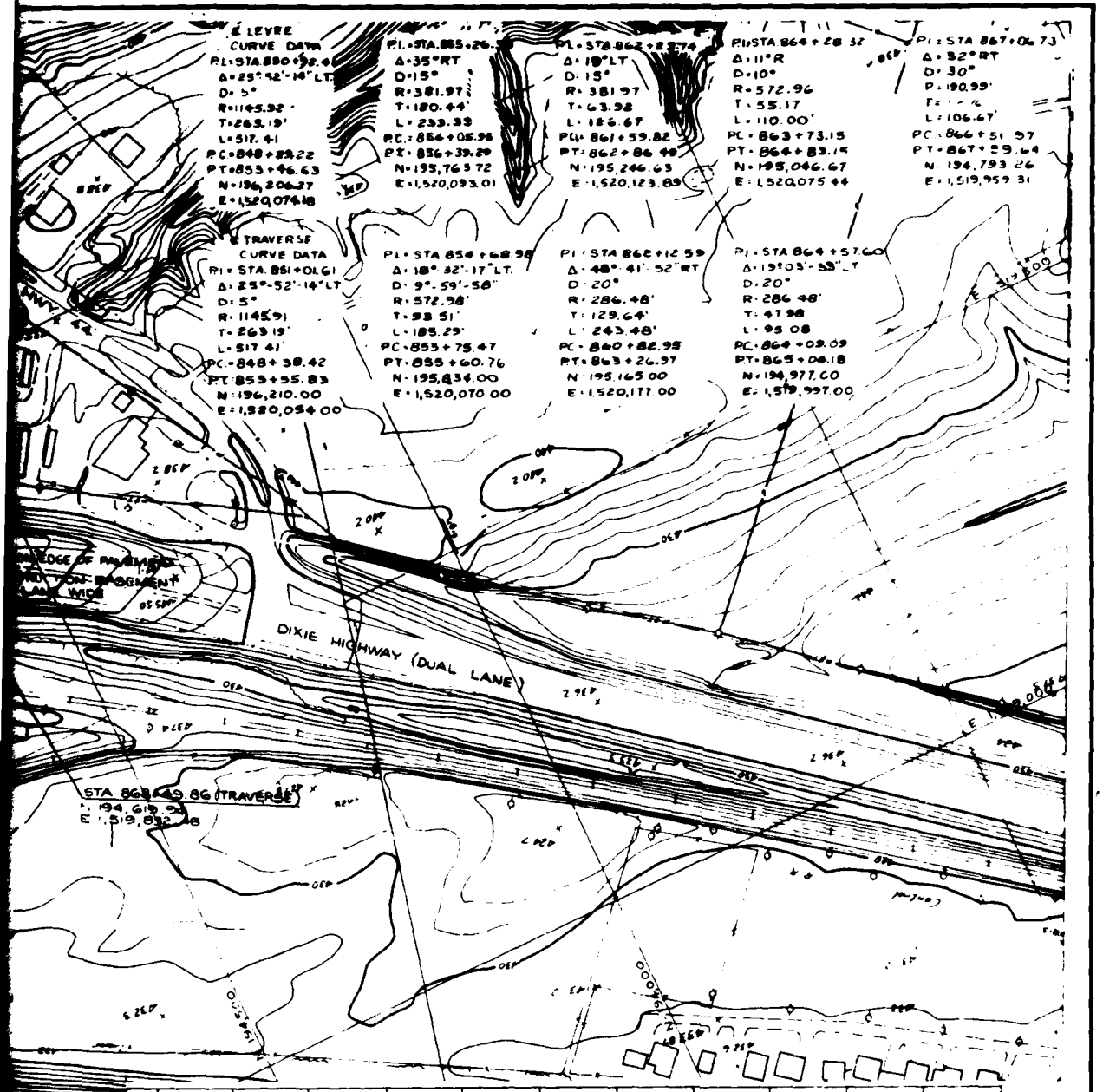
CORPS OF ENGINEERS



1 2

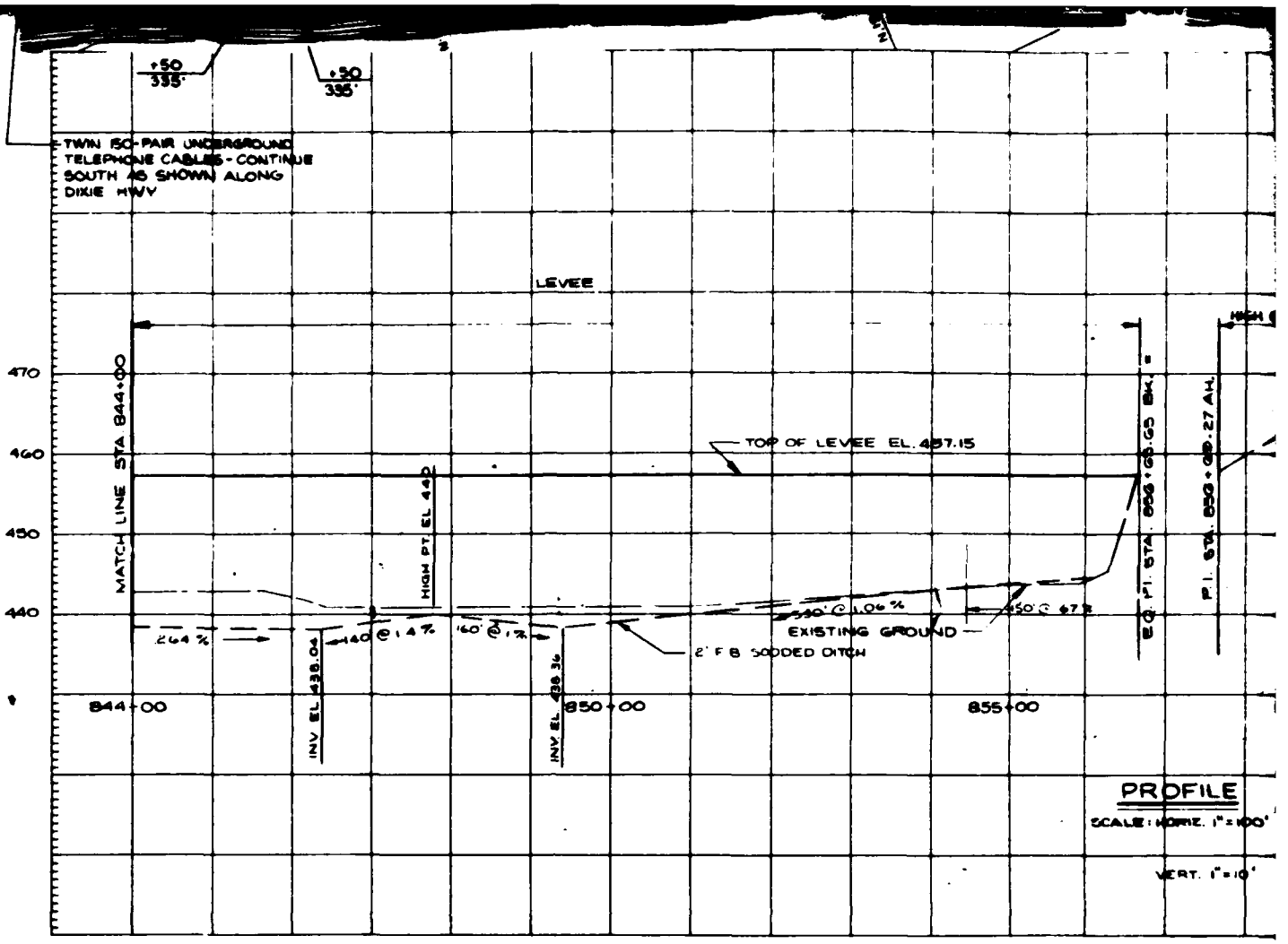

FOR CONTINUATION OF ACCESS ROAD "B" SEE SHEET 73
℄ LEVEE CURVE DATA
P.I. STA 850+92.46
Δ=25°-52'-14" LT.
D=5°
R=1145.92
T=263.19'
L=517.41
P.C=848+29.22
P.T=853+46.63
N=196,206.27
E=1,520,074.18
℄ TRAVERSE CURVE DATA
P.I.=STA. 851+01.61
Δ: 25°-52'-14" LT
D: 5°
R: 1145.91
T=263.19'
L=517.41
PC=848+38.42
PT:853+55.83
N:196,210.00
E=1,520,054.00
P.I. STA. 867+00.75
P.I. STA. 864+57.60 (TRAVERSE)
(TRAVERSE)
GAS LINE VALVE STATION FOR CONTINUATION OF GAS LINES IN THIS AREA SEE SH. 58
LEVEE R/W
TRAILER PARK
LEVEE R/W AND EXISTING HWY R/W
℄ TRAVERSE
LEVEE R/W ON EDGE OF PAVEMENT
CONSTRUCTION EASEMENT ONE LANE WIDE
STORAGE VAULT
12KV
863+00 180'
SURVEY MONU
P.I. STA. 860+26.90
EDGE OF PAVEMENT
P.I. STA. 858+78.49
Δ=51°-24'-01" LT.
N 195,430.00
E 1,520,036.00
STA. 867+07.19 AH
N 194,748.80
E 1,519,891.84
STA 868+49.86 (TRAVERSE)
12" MP GAS
STA. 856+25
P.I. STA. 858+24.14 (WALL ℄ TRAVERSE)
Δ=87° 23' 57" RT.
N 195,480.40
E 1,520,030.72
LIMITS OF CONSTRUCTION
STA 868+50
P.I. STA. 854+68.98
STA. 856+69.27 AH. (TRAVERSE)
Δ=38° 32' 38"
LEVEE R/W & EDGE OF PAVEMENT
LEVEE R/W & EXIST. HWY. R/W
DIXIE HIGHWAY
PLAN
100 0 100 200 FEET
STA. 858+56.70 BEGIN WALL
℄ I.C. GULF CLOSURE STA. 859+40.65
℄ TRACK STA. 859+49.66
BEGIN LEVEE STA. 860+38.74
HIGH GROUND
LEVEE
END WALL STA. 859+31.74
BEGIN WALL STA. 859+66.57
END WALL STA. 860+10.24
EL. 457.15
EL 457.18
EL 457.12
867+91.87 BK. =
867+07.99 AH.

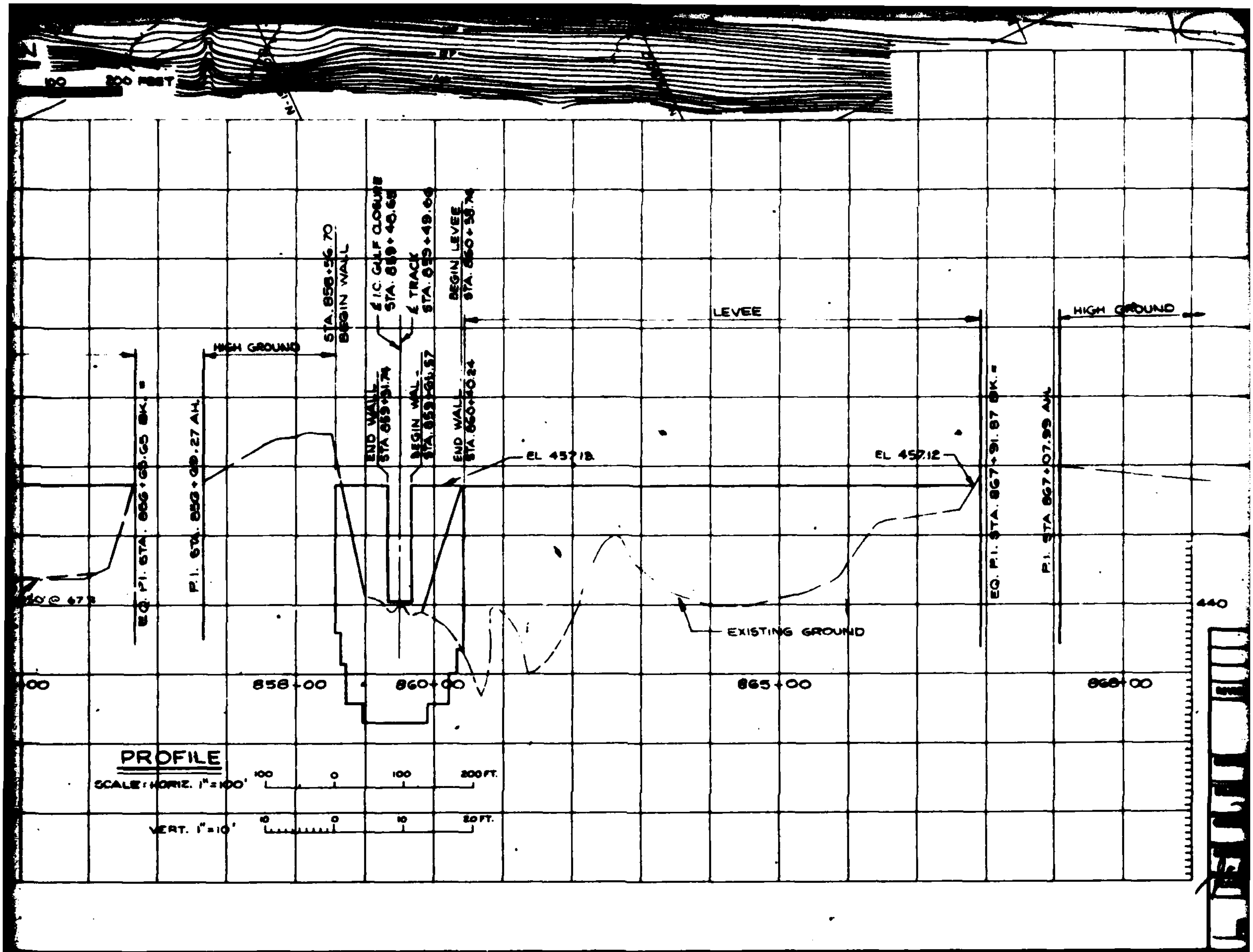
U. S. ARMY

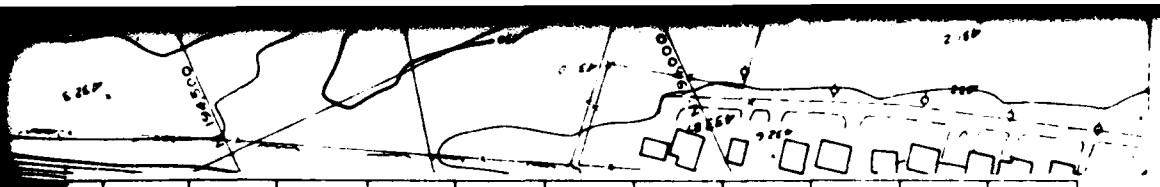


NOTES:

1. SEE SHEETS 57 AND 58 FOR SITE DEVELOPMENT AT IC+GULF R.R CLOSURE AND ADJOINING LEVEE.
2. ALL R/W & C/E OFFSETS REFERENCED TO ℄ TRAVERSE
3. CONSTRUCTION WORKING LIMITS AND R/W FOR HWY. 44 CONSTRUCTION ARE NOT INDICATED.
4. ELECTRIC POWER & TELEPHONE LINES TO BE RELOCATED BY OWNERS.


+50
335'
+50
335'
TWIN 50-PAIR UNDERGROUND TELEPHONE CABLES - CONTINUE SOUTH AS SHOWN ALONG DIXIE HWY
LEVEE
MATCH LINE STA 844+00
HIGH PT. EL 440
TOP OF LEVEE EL. 457.15
470
460
450
440
2.64 %
140' @ 1.4 %
160' @ 1 %
INV. EL 438.04
INV. EL 436.36
2' F B SODDED DITCH
EXISTING GROUND
540' @ 1.06 %
450' @ 6.7 %
844+00
850+00
855+00
PROFILE
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'


100
200 FEET
STA. 858+56.70
BEGIN WALL
℄ I.C. GULF CLOSURE
STA. 859+46.68
℄ TRACK
STA. 859+49.66
BEGIN LEVEE
STA. 860+58.74
LEVEE
HIGH GROUND
HIGH GROUND
EQ. P.I. STA. 856+65.65 BK. =
P.I. STA. 856+89.27 AH.
END WALL
STA. 859+31.74
BEGIN WALL
STA. 859+61.57
END WALL
STA. 860+40.24
EL 457.18
EL 457.12
EQ. P.I. STA. 867+91.87 BK. =
P.I. STA. 867+07.99 AH.
440
EXISTING GROUND
858+00
860+00
865+00
868+00
PROFILE
SCALE: HORIZ. 1" = 100'
100
0
100
200 FT.
VERT. 1" = 10'
10
0
10
20 FT.



NOTES:
1. SEE SHEETS 57 AND 58 FOR SITE DEVELOPMENT AT I.C. + GULF R.R. CLOSURE AND ADJOINING LEVEE.
2. ALL R/W & C/L OFFSETS REFERENCED TO ℄ TRAVERSE
3. CONSTRUCTION WORKING LIMITS AND R/W FOR HWY. 44 CONSTRUCTION ARE NOT INDICATED.
4. ELECTRIC POWER & TELEPHONE LINES TO BE RELOCATED BY OWNERS.

HIGH GROUND

EQ. P.I. STA. 867+91.87 BK. =
P.I. STA. 867+07.99 AH.

EL 457.12

470
460
450
440

868+00

REVISION	DATE	DESCRIPTION	BY

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: mcd
DRAWN: —
TRACED: C.E.P.
CHECKED: M.A.R.
SUBMITTED:
SCALE: AS SHOWN

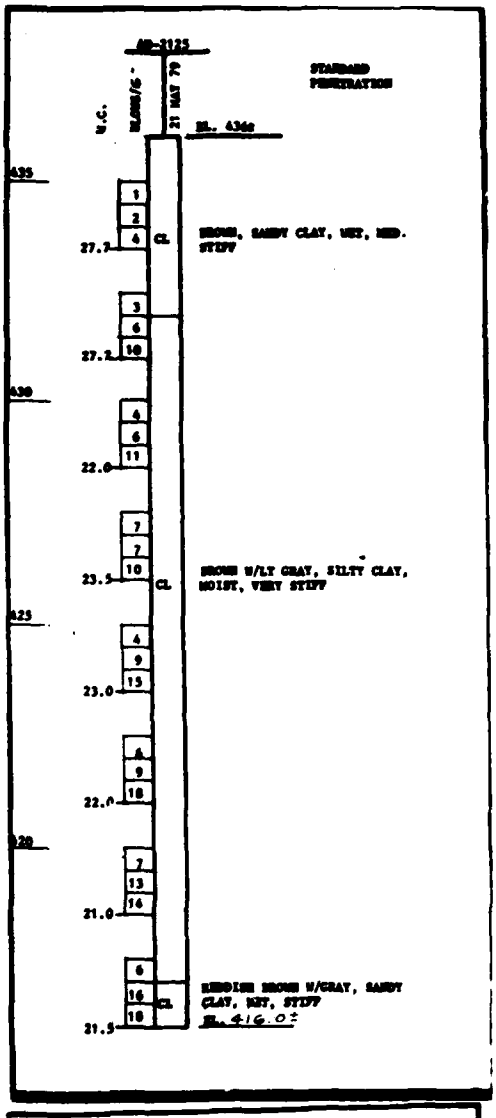
SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION-4
PLAN & PROFILE
STA. 844+00 TO STA. 867+91.87

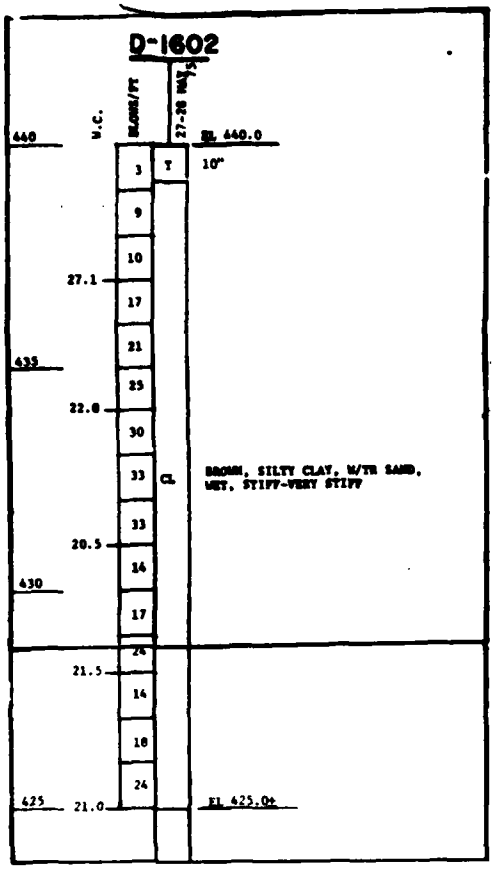
DATE: AUG. 82

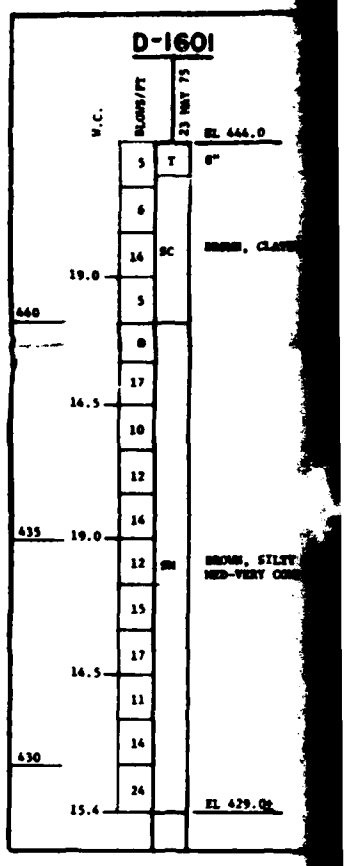
PLATE 5

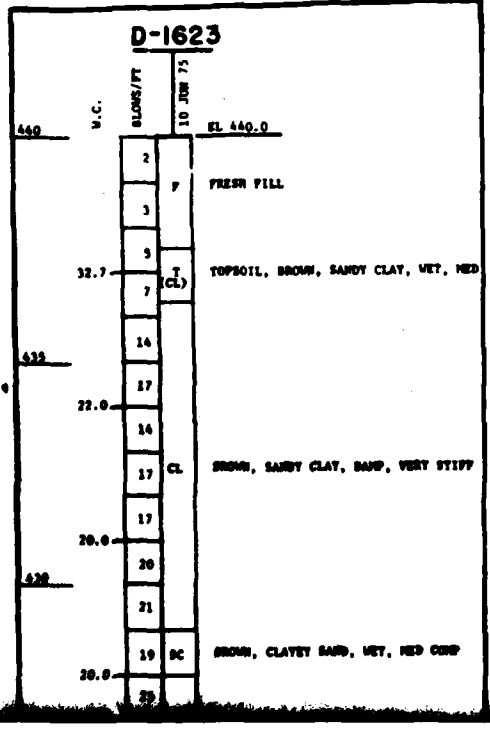
DRAWING NUMBER
616-12.10/9

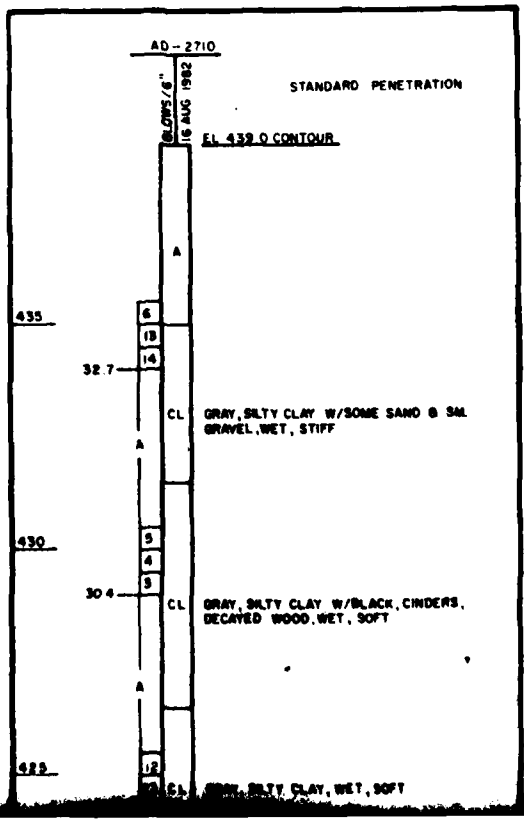
6

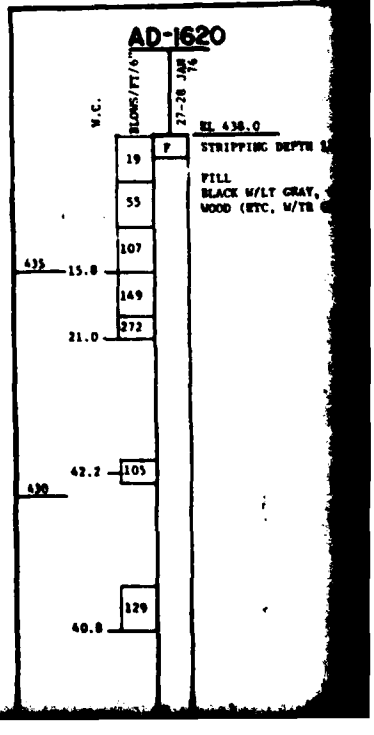

AD-2125
STANDARD PENETRATION
BLOWS/6"
21 MAY 79
EL. 436±
W.C.
435
430
425
420
27.2
27.2
22.0
23.5
23.0
22.0
21.0
31.5
CL
BROWN, SANDY CLAY, WET, MED. STIFF
BROWN W/LT GRAY, SILTY CLAY, MOIST, VERY STIFF
REDDISH BROWN W/GRAY, SANDY CLAY, WET, STIFF
EL. 416.0±

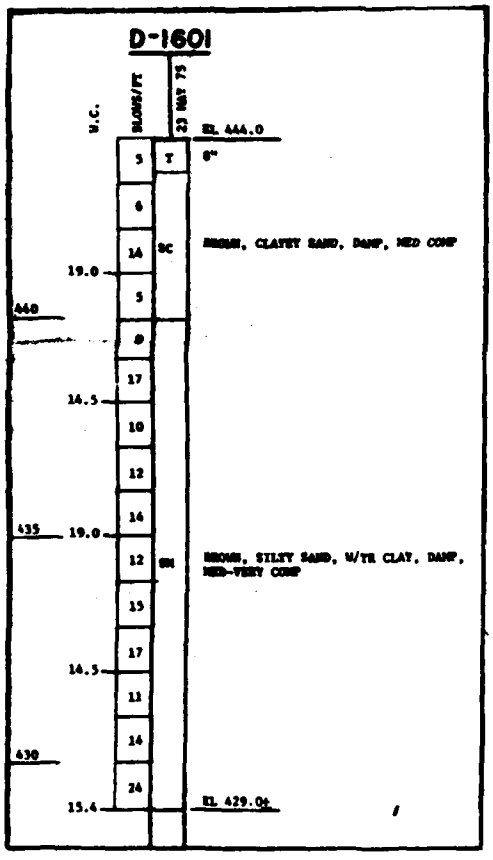

D-1602
BLOWS/FT
27-28 MAY 79
EL. 440.0
W.C.
440
435
430
425
27.1
22.8
20.5
21.5
21.0
T
CL
10"
BROWN, SILTY CLAY, W/TR SAND, WET, STIFF-VERY STIFF
EL 425.0±

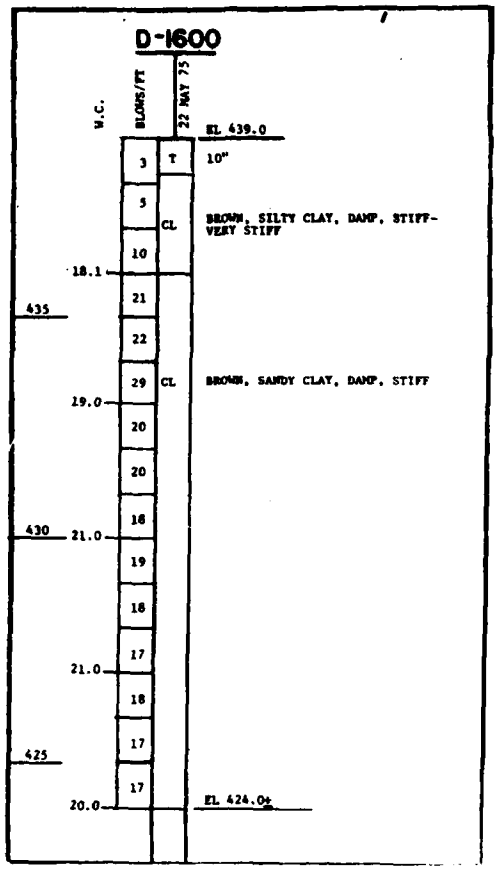

D-1601
BLOWS/FT
23 MAY 79
EL 444.0
W.C.
440
435
430
19.0
14.5
19.0
16.5
15.4
T
SC
SM
8"
BROWN, CLAYE
BROWN, SILTY
MED-VERY COM
EL 429.0±

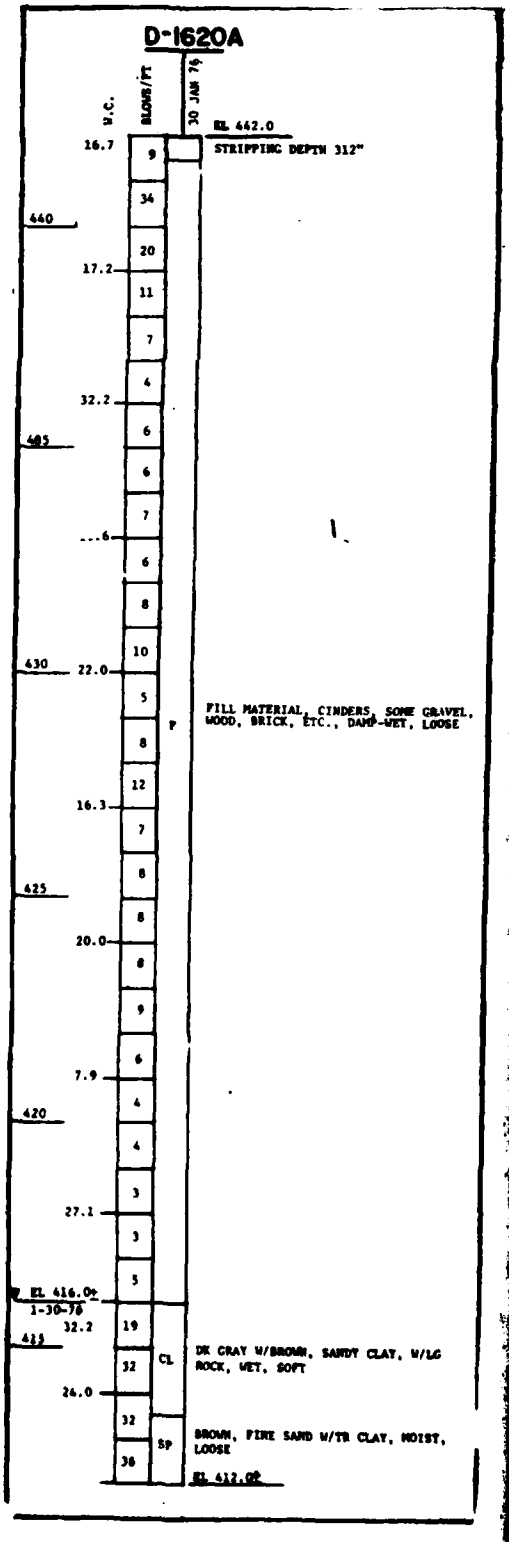

D-1623
BLOWS/FT
10 JUN 75
EL 440.0
W.C.
440
435
430
425
32.7
22.0
20.0
20.0
P
T
(CL)
CL
SC
FRESH FILL
TOPSOIL, BROWN, SANDY CLAY, WET, MED
BROWN, SANDY CLAY, SAND, VERY STIFF
BROWN, CLAYEY SAND, WET, MED DENS

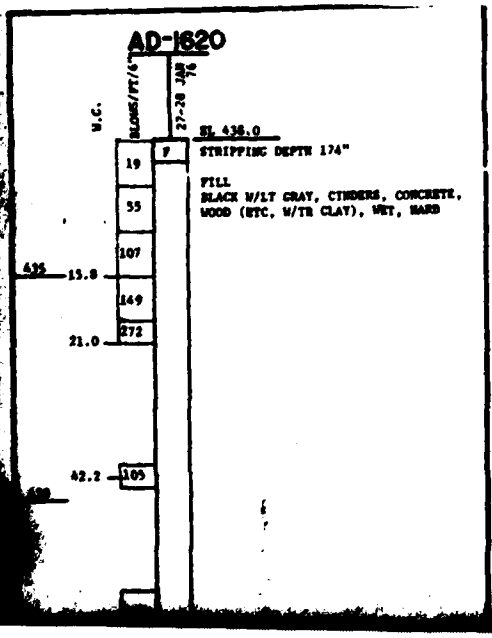

AD-2710
STANDARD PENETRATION
BLOWS/6"
16 AUG 1982
EL 439.0 CONTOUR
435
430
425
32.7
30.4
A
CL
GRAY, SILTY CLAY W/SOME SAND & SM. GRAVEL, WET, STIFF
GRAY, SILTY CLAY W/BLACK, CINDERS, DECAYED WOOD, WET, SOFT
GRAY, SILTY CLAY, WET, SOFT

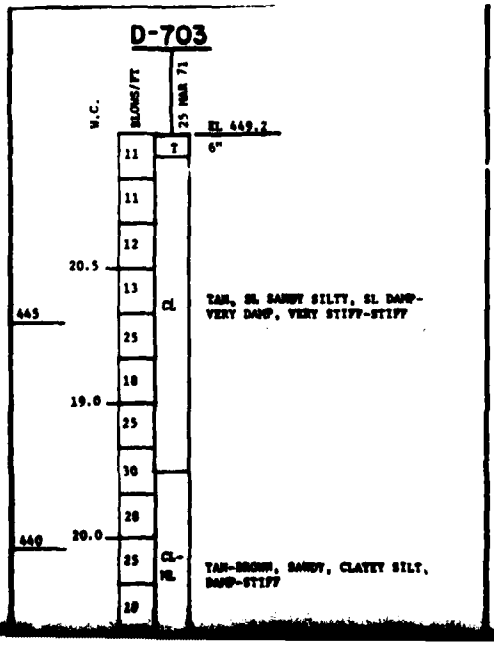

AD-1620
BLOWS/FT/6"
27-28 JAN 76
EL 438.0
W.C.
435
430
15.0
21.0
42.2
40.8
P
STRIPPING DEPTH
FILL
BLACK W/LT GRAY,
WOOD (ETC. W/TR


D-1601
W.C.
BLOWS/FT
23 MAY 75
EL 444.0
5
T
0"
6
14
SC
BROWN, CLAYEY SAND, DAMP, MED COMP
19.0
5
440
9
17
14.5
10
12
16
435
19.0
12
SM
BROWN, SILTY SAND, W/TR CLAY, DAMP, MED-VERY COMP
15
17
14.5
11
14
630
24
EL 429.0+
15.4


D-1600
W.C.
BLOWS/FT
22 MAY 75
EL 439.0
3
T
10"
5
CL
BROWN, SILTY CLAY, DAMP, STIFF-VERY STIFF
10
18.1
21
435
22
29
CL
BROWN, SANDY CLAY, DAMP, STIFF
19.0
20
20
16
430
21.0
19
18
17
21.0
18
17
425
17
EL 424.0+
20.0


D-1620A
W.C.
BLOWS/FT
30 JAN 76
EL 442.0
16.7
9
STRIPPING DEPTH 312"
34
440
20
17.2
11
7
4
32.2
6
485
6
7
...6
6
8
10
430
22.0
5
FILL MATERIAL, CINDERS, SOME GRAVEL, WOOD, BRICK, ETC., DAMP-WET, LOOSE
P
8
12
16.3
7
8
425
8
20.0
8
9
6
7.9
4
420
4
3
27.1
3
5
EL 416.0+
1-30-76
19
32.2
415
32
CL
DK GRAY W/BROWN, SANDY CLAY, W/LG ROCK, WET, SOFT
26.0
32
SP
BROWN, FINE SAND W/TR CLAY, MOIST, LOOSE
36
EL 412.0+


AD-1620
W.C.
BLOWS/FT/6"
27-28 JAN 76
EL 436.0
19
F
STRIPPING DEPTH 174"
FILL
BLACK W/LT GRAY, CINDERS, CONCRETE, WOOD (ETC, W/TR CLAY), WET, HARD
55
435
15.8
107
149
272
21.0
42.2
105


D-703
W.C.
BLOWS/FT
25 MAR 71
EL 449.2
11
T
6"
11
12
20.5
13
CL
TAN, SL SANDY SILTY, SL DAMP-VERY DAMP, VERY STIFF-STIFF
445
25
18
19.0
25
30
28
20.0
440
25
CL-ML
TAN-BROWN, SANDY, CLAYEY SILT, DAMP-STIFF
20

Symbol	

3

2 1

D C B

EL 439.0

10"

BROWN, SILTY CLAY, DAMP, STIFF-VERY STIFF

BROWN, SANDY CLAY, DAMP, STIFF

EL 424.0+

EL 449.2

, SL SANDY SILTY, SL DAMP- DAMP, VERY STIFF-STIFF

, SANDY, CLAYEY SILT,

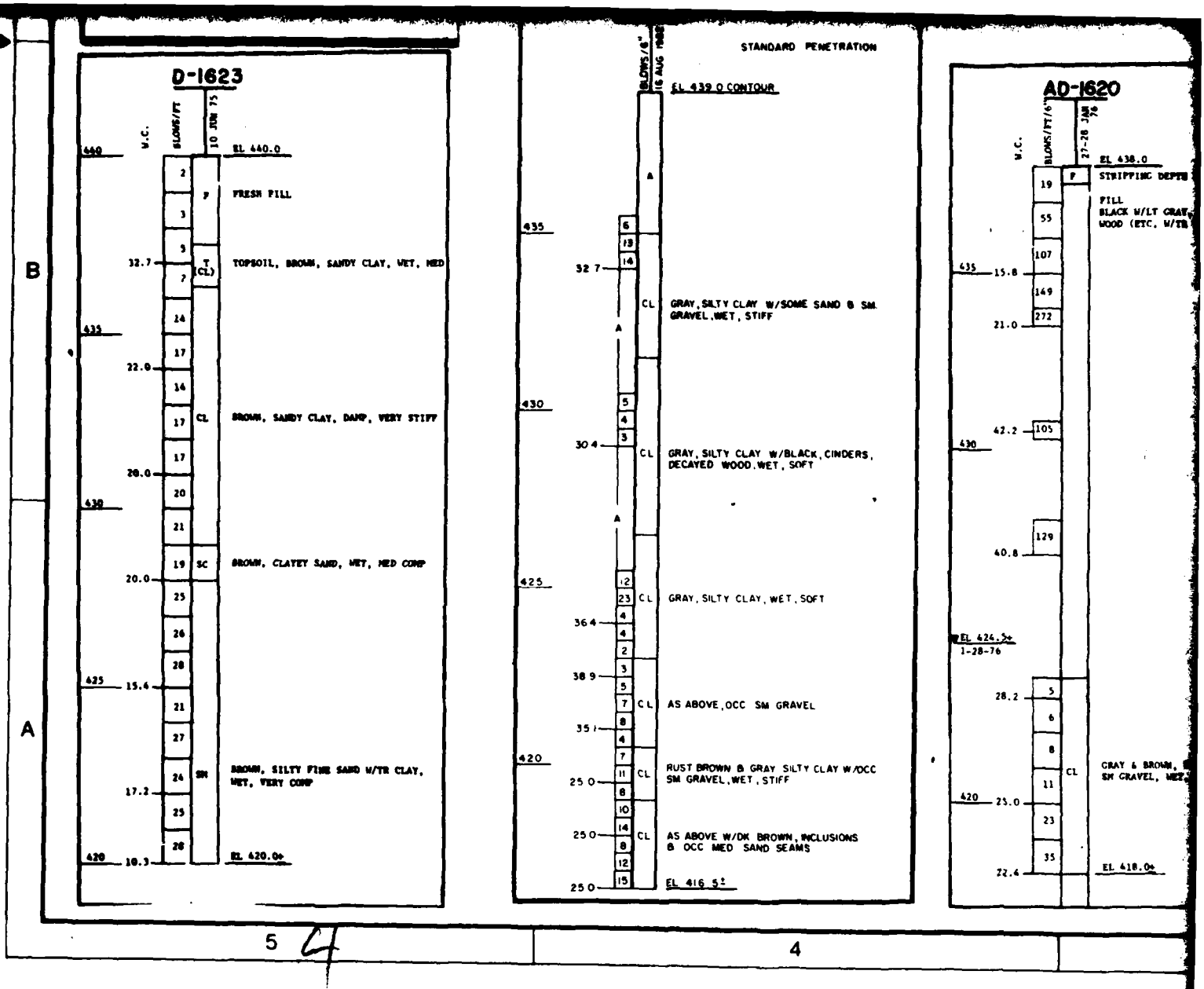
D-1620A

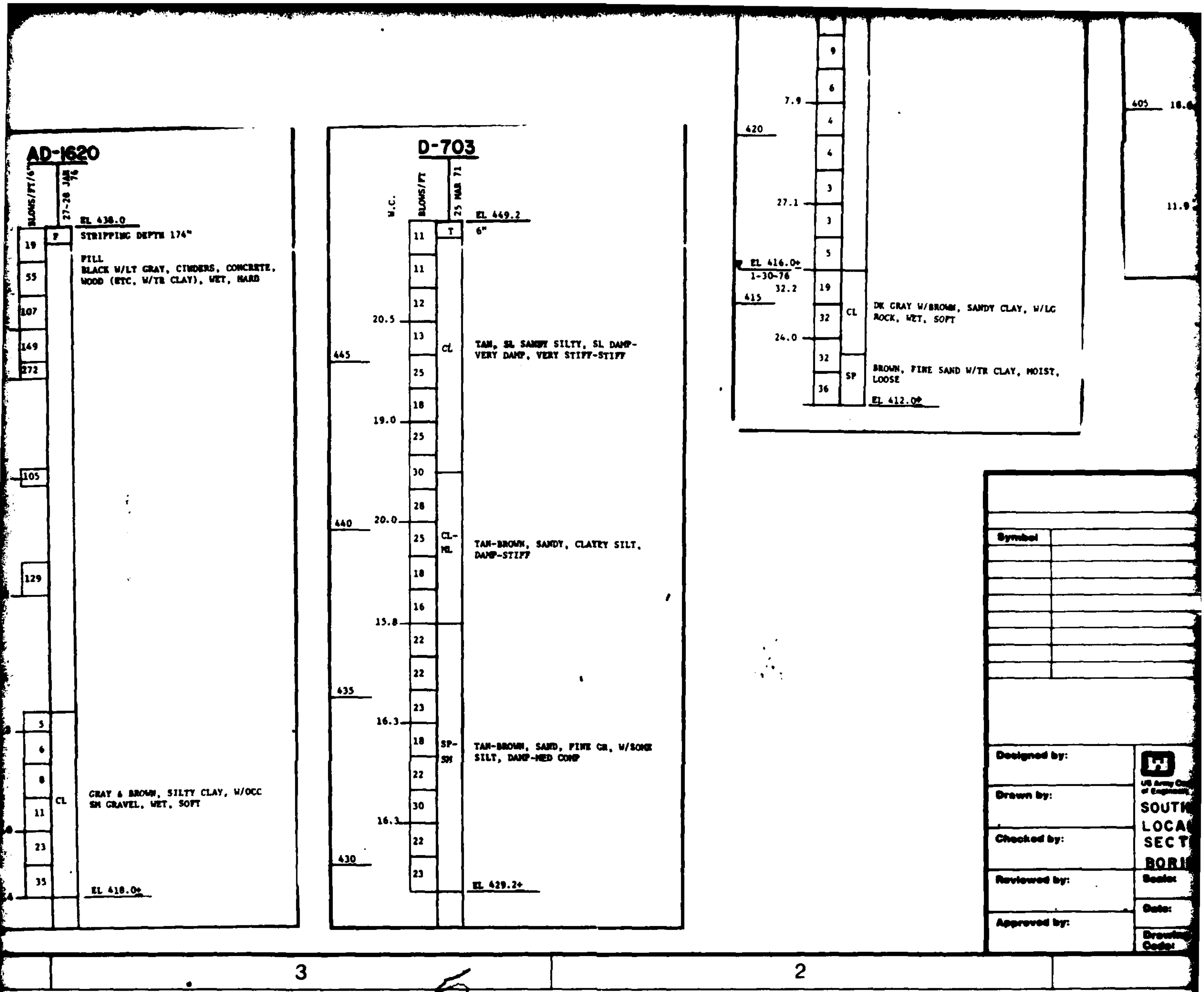
W.C.	BLOWS/FT	30 JAN 76		
			EL 442.0	STRIPPING DEPTH 312"
16.7	9			
	34			
440	20			
27.2	11			
	7			
	4			
32.2	6			
435	6			
	7			
...6	6			
	8			
	10			
430 22.0	5		F	FILL MATERIAL, CINDERS, SOME GRAVEL, WOOD, BRICK, ETC., DAMP-WET, LOOSE
	8			
	12			
16.3	7			
	8			
425	8			
20.0	8			
	9			
	6			
7.9	4			
420	4			
	3			
27.1	3			
	5			
▽ EL 416.0+ 1-30-76				
32.2	19		CL	DK GRAY W/BROWN, SANDY CLAY, W/LG ROCK, WET, SOFT
415	32			
24.0				
	32		SP	BROWN, FINE SAND W/TR CLAY, MOIST, LOOSE
	36			EL 412.0±

D-704

W.C.	BLOWS/FT	29 MAR 71		
			EL 426.1	
	4	T		6"
425	5		CL	BLACKISH GRAY, SL ORGANIC, SANDY SILTY CLAY, DAMP, MED
	7			
35.1	8			
	8		CL	MOTTLED GRAYISH TAN, SANDY SILTY CLAY W/TR IRONOXIDE, SL WET, MED
	8			
420 25.5	12			
	18		CL	GRAY TAN, SILTY SANDY CLAY, VERY DAMP, STIFF
	21			
23.5	26			
▽ EL 416.1+ 3-29-71				
	20		CL-SC	REDDISH TAN, SILTY CLAY & SAND W/TR IRONOXIDE, DAMP-MOIST, MED-COMP
415	28			
21.0				
	35			
	28		CL	DK TAN BROWN, SILTY SANDY CLAY W/TR IRONOXIDE PELLETS, DAMP, STIFF
	30			
23.0				
	25			
410	52		CL-ML	TAN BROWN, SANDY CLAYEY SILT, WET, SOFT
	55			
29.9				
	45			
	40		SP CL-ML	BROWN STRATIFIED SAND & CLAYEY SILT, WET, MED-MED COMP
	25			
405 18.6				
	55			
	60			
	45		SP-SM	BROWN STRATIFIED SAND & SILTY SAND, DAMP, COMP
11.9				
	40			EL 401.1+

Revisions			
Symbol	Description	Date	Approved


D-1623
10 JUN 75
W.C.
BLOWS/FT
440
EL 440.0
FRESH FILL
TOPSOIL, BROWN, SANDY CLAY, WET, MED
435
BROWN, SANDY CLAY, DAMP, VERY STIFF
430
BROWN, CLAYEY SAND, WET, MED COMP
425
BROWN, SILTY FINE SAND W/TR CLAY, WET, VERY COMP
420
EL 420.0±
STANDARD PENETRATION
BLOWS/6"
16 AUG 1968
EL 439.0 CONTOUR
GRAY, SILTY CLAY W/SOME SAND & SM. GRAVEL, WET, STIFF
GRAY, SILTY CLAY W/BLACK, CINDERS, DECAYED WOOD, WET, SOFT
GRAY, SILTY CLAY, WET, SOFT
AS ABOVE, OCC SM GRAVEL
RUST BROWN & GRAY SILTY CLAY W/OCC SM GRAVEL, WET, STIFF
AS ABOVE W/DK BROWN, INCLUSIONS & OCC MED SAND SEAMS
EL 416.5±
AD-1620
BLOWS/FT/6"
27-28 JAN 76
EL 438.0
STRIPPING DEPTH
FILL
BLACK W/LT GRAY
WOOD (ETC. W/TR
EL 424.5±
1-28-76
GRAY & BROWN,
SM GRAVEL, WET,
EL 418.0±
B
A
5
4



AD-1620
BLOWS/FT/6"
27-28 JAN 76
EL 438.0
STRIPPING DEPTH 174"
FILL
BLACK W/LT GRAY, CINDERS, CONCRETE, WOOD (ETC. W/TR CLAY), WET, HARD
19
55
107
149
272
105
129
5
6
8
11
23
35
CL
GRAY & BROWN, SILTY CLAY, W/OCC SM GRAVEL, WET, SOFT
EL 418.0±
D-703
W.C.
BLOWS/FT
25 MAR 71
EL 449.2
6"
20.5
19.0
20.0
15.8
16.3
16.3
445
440
435
430
CL
TAN, SL SANDY SILTY, SL DAMP-VERY DAMP, VERY STIFF-STIFF
CL-ML
TAN-BROWN, SANDY, CLAYEY SILT, DAMP-STIFF
SP-SM
TAN-BROWN, SAND, FINE GR, W/SOME SILT, DAMP-MED COMP
EL 429.2±
7.9
27.1
420
EL 416.0±
1-30-76
32.2
415
24.0
CL
DK GRAY W/BROWN, SANDY CLAY, W/LG ROCK, WET, SOFT
SP
BROWN, FINE SAND W/TR CLAY, MOIST, LOOSE
EL 412.0±
405
11.9
Symbol
Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:
US Army Corps of Engineers
Scale:
Date:
3
2

	8		
0	8		
	9		
	6		
9	4		
	4		
	3		
1	3		
	5		
	19	CL	DK GRAY W/BROWN, SANDY CLAY, W/LG ROCK, WET, SOFT
2	32		
0	32	SP	BROWN, FINE SAND W/TR CLAY, MOIST, LOOSE
	36		EL 412.0+

	52	ML	
	55		
29.9	45	SP CL-ML	BROWN STRATIFIED SAND & CLAYEY SILT, WET, MED-MED COMP
	40		
	25		
405 18.6	55		
	60		
	45	SP-SM	BROWN STRATIFIED SAND & SILTY SAND, DAMP, COMP
11.9	40		
			EL 401.1+

B

Revisions

Symbol	Descriptions	Date	Approved

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE KENTUCKY

Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:

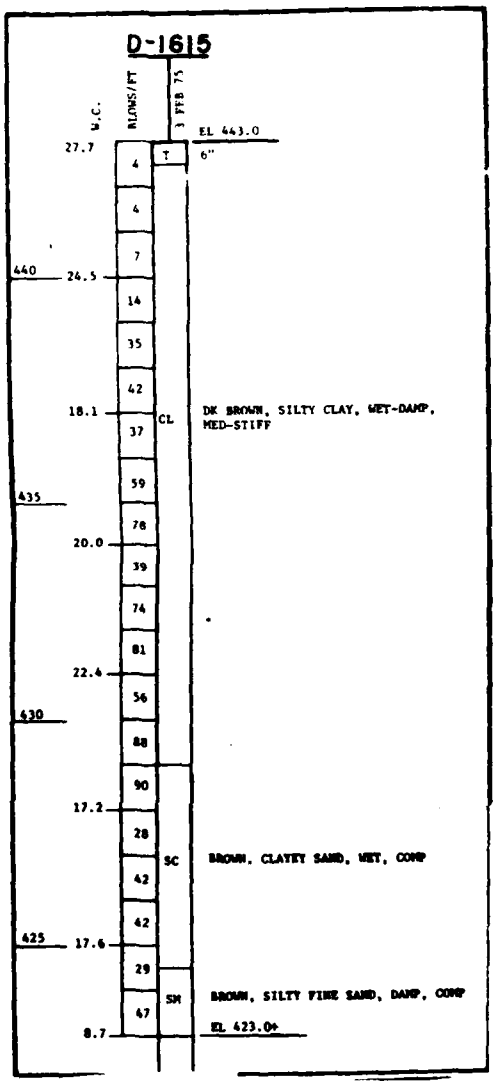
US Army Corps of Engineers

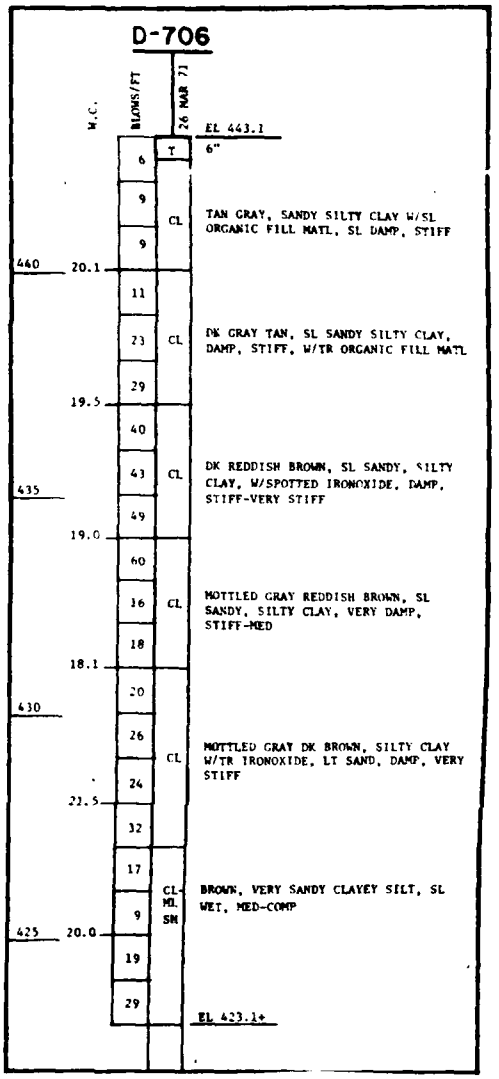
SOUTHWEST JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION 4
BORING LOGS

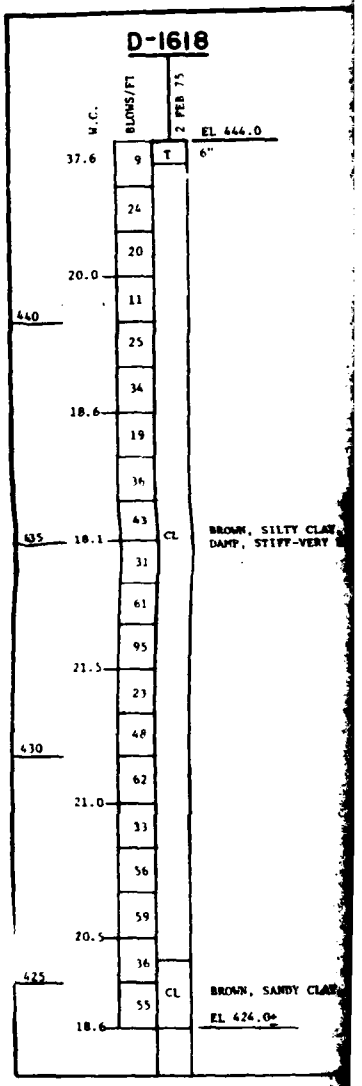
Scale:
Date:
Drawing Code: PLATE 6
Sheet reference number:
Sheet _ _ of _

A

2 1


D-1615
W.C.
BLOWS/FT
3 FEB 75
EL 443.0
6"
DK BROWN, SILTY CLAY, WET-DAMP, MED-STIFF
CL
BROWN, CLAYEY SAND, WET, COMP
SC
BROWN, SILTY FINE SAND, DAMP, COMP
SM
EL 423.0+
27.7
24.5
18.1
20.0
22.4
17.2
17.6
8.7
440
435
430
425
4 4 7 14 35 42 37 59 78 39 74 81 56 88 90 28 42 42 29 47


D-706
W.C.
BLOWS/FT
26 MAR 71
EL 443.1
6"
TAN GRAY, SANDY SILTY CLAY W/SL ORGANIC FILL MATL, SL DAMP, STIFF
CL
DK GRAY TAN, SL SANDY SILTY CLAY, DAMP, STIFF, W/TR ORGANIC FILL MATL
CL
DK REDDISH BROWN, SL SANDY, SILTY CLAY, W/SPOTTED IRONOXIDE, DAMP, STIFF-VERY STIFF
CL
MOTTLED GRAY REDDISH BROWN, SL SANDY, SILTY CLAY, VERY DAMP, STIFF-MED
CL
MOTTLED GRAY DK BROWN, SILTY CLAY W/TR IRONOXIDE, LT SAND, DAMP, VERY STIFF
CL
BROWN, VERY SANDY CLAYEY SILT, SL WET, MED-COMP
CL-ML SM
EL 423.1+
20.1
19.5
19.0
18.1
22.5
20.0
440
435
430
425
6 9 9 11 23 29 40 43 49 60 16 18 20 26 24 32 17 9 19 29


D-1618
W.C.
BLOWS/FT
2 FEB 75
EL 444.0
6"
BROWN, SILTY CLAY, DAMP, STIFF-VERY
CL
BROWN, SANDY CLAY
CL
EL 424.0+
37.6
20.0
18.6
18.1
21.5
21.0
20.5
18.6
440
435
430
425
9 24 20 11 25 34 19 36 43 31 61 95 23 48 62 33 56 59 36 55

D-1618

W.C. | BLOWS/FT | 2 FEB 75

EL. 444.0

BLOWS/FT		
9	T	6"
24		
20		
11		
25		
34		
19		
36		
43	CL	BROWN, SILTY CLAY, W/FINE SAND, DAMP, STIFF-VERY STIFF
31		
61		
95		
23		
48		
62		
33		
56		
59		
36	CL	BROWN, SANDY CLAY, DAMP, VERY STIFF
55		EL 424.0+

D-708

W.C. | BLOWS/FT | 30 JUL 71

USED 2½" x 5' SAMPLER

EL. 444.1

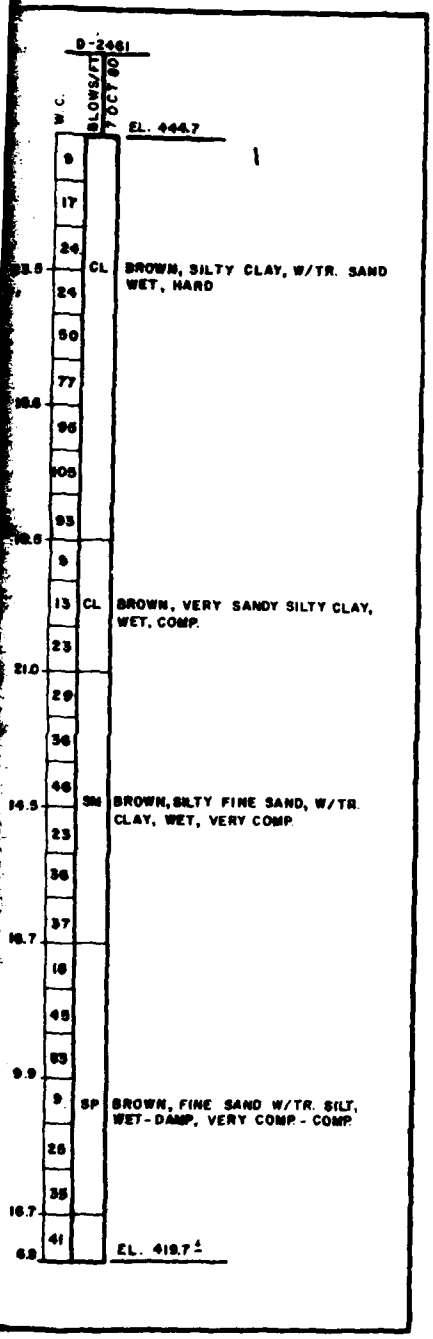
	BLOWS/FT		
	7	T	12"
	8		
20.0	21		
440	41		
	49	CL	REDDISH BROWN & GRAY, MOTTLED, CLAY, SL SILTY, SL DAMP, FIRM
19.5	61		
	13		
	24		
	22		
435 21.2	19	CL	BROWN, LEAN CLAY W/TR SAND, SL DAMP, FIRM
	24		
	29		
21.2	35		
	36	CL	BROWN, SANDY SILTY CLAY, SL DAMP, HARD
430	38		
21.5	33		
	34		
	35		
15.8	38	SP	BROWN, FINE SILTY SAND W/TR CLAY, DAMP, HARD
425	40		EL 424.1+

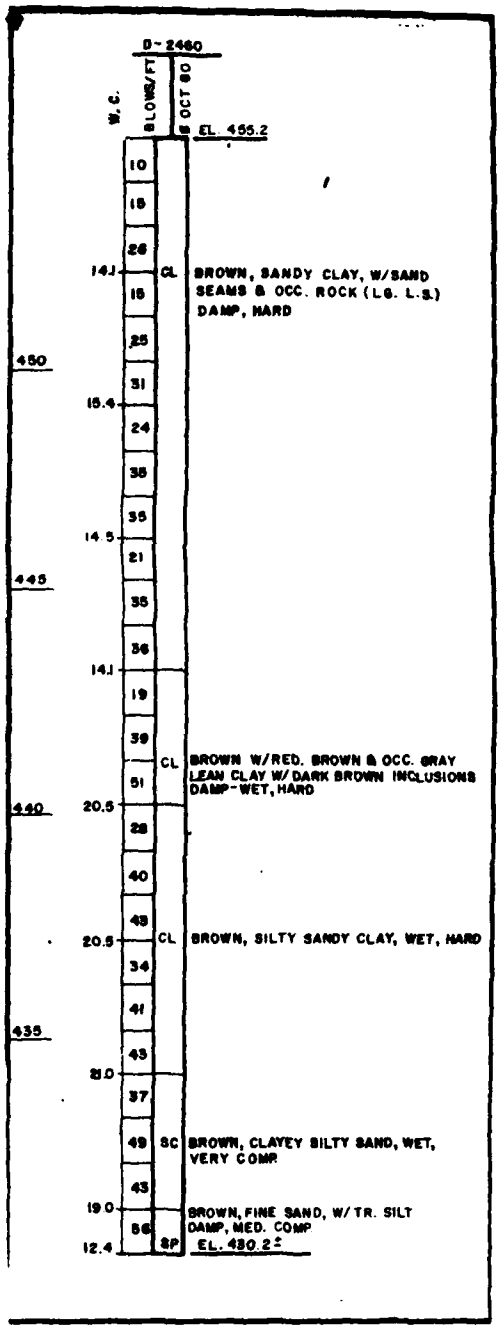
D-2461

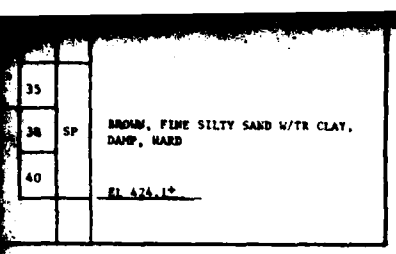
W.C. | BLOWS/FT | 7 OCT 80

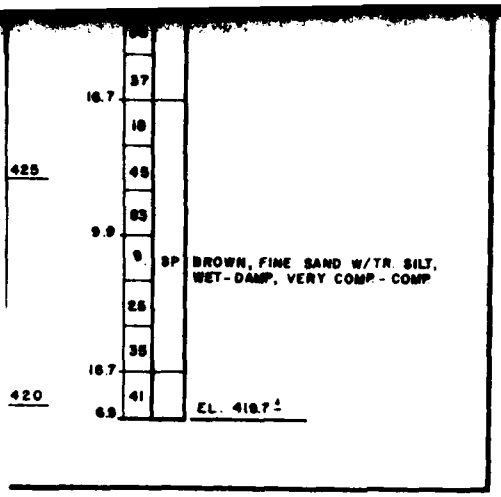
EL. 444.7

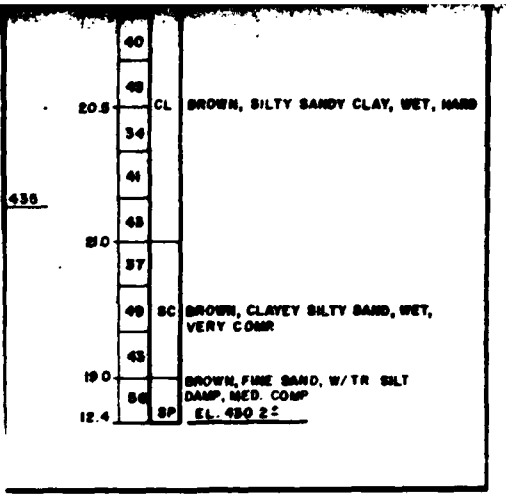
	BLOWS/FT		
	9		
	17		
	24		
23.5	24	CL	BROWN, SILTY CLAY, W/TR SAND WET, HARD
440	50		
	77		
18.6	95		
	105		
	93		
19.5	9		
435	13	CL	BROWN, VERY SANDY SILTY CLAY, WET, COMP.
	23		
21.0	29		
	36		
	46		
430 14.5	23	SM	BROWN, SILTY FINE SAND, W/TR CLAY, WET, VERY COMP
	36		
	37		
16.7	18		
	45		
425	83		
9.9	9	SP	BROWN, FINE SAND W/TR SILT, WET-DAMP, VERY COMP - COMP
	28		
	35		
16.7	41		
420 6.8			EL. 419.7±


B-2461
W.C.
BLOWS/FT
7 OCT 80
EL. 444.7
9
17
24
23.8
CL
BROWN, SILTY CLAY, W/TR. SAND WET, HARD
24
50
77
18.6
96
105
93
12.6
9
13
CL
BROWN, VERY SANDY SILTY CLAY, WET, COMP.
23
21.0
29
36
46
14.5
SM
BROWN, SILTY FINE SAND, W/TR. CLAY, WET, VERY COMP.
23
36
37
16.7
18
45
53
9.9
9
SP
BROWN, FINE SAND W/TR. SILT, WET-DAMP, VERY COMP.-COMP.
25
35
16.7
41
6.9
EL. 419.7±


B-2460
W.C.
BLOWS/FT
8 OCT 80
EL. 455.2
10
18
26
14.1
CL
BROWN, SANDY CLAY, W/SAND SEAMS & OCC. ROCK (L.S. L.S.) DAMP, HARD
450
25
31
15.4
24
35
35
14.5
21
445
35
36
14.1
19
39
CL
BROWN W/RED. BROWN & OCC. GRAY LEAN CLAY W/ DARK BROWN INCLUSIONS DAMP-WET, HARD
51
440
20.5
28
40
49
CL
BROWN, SILTY SANDY CLAY, WET, HARD
20.5
34
41
435
45
20.0
37
49
SC
BROWN, CLAYEY SILTY SAND, WET, VERY COMP.
43
19.0
56
SP
BROWN, FINE SAND, W/TR. SILT DAMP, MED. COMP.
12.4
EL. 430.2±







REVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

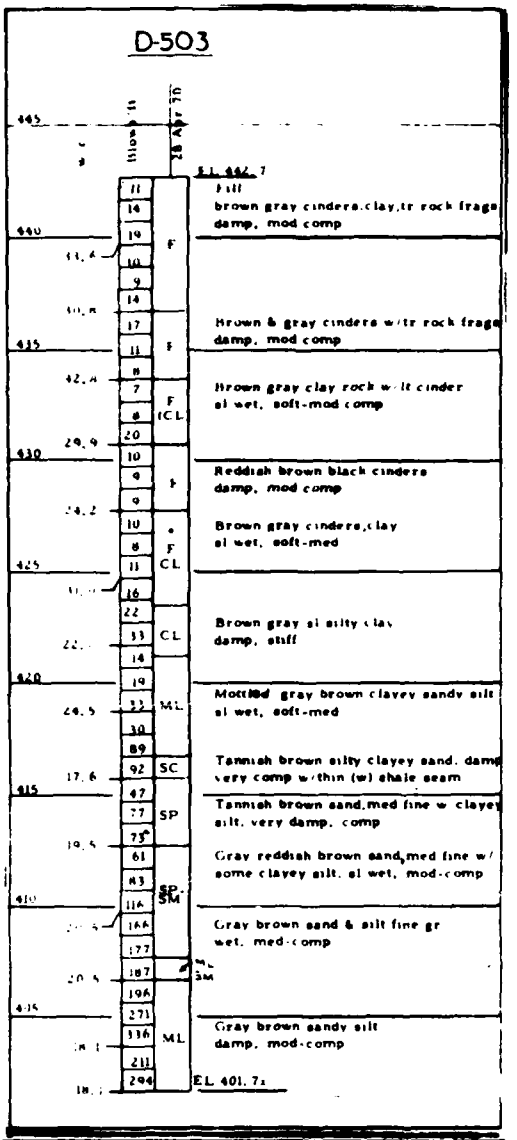
DESIGNED:
DRAWN: TRACED:
CHECKED:
SUBMITTED:

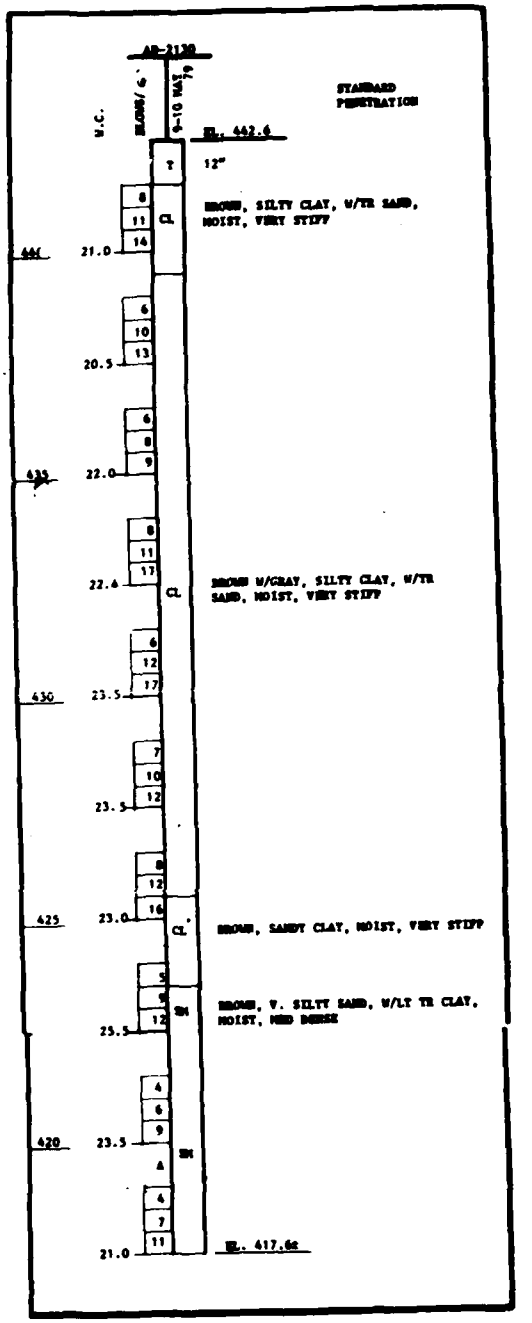
SOUTHWEST JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION 4
BORING LOGS

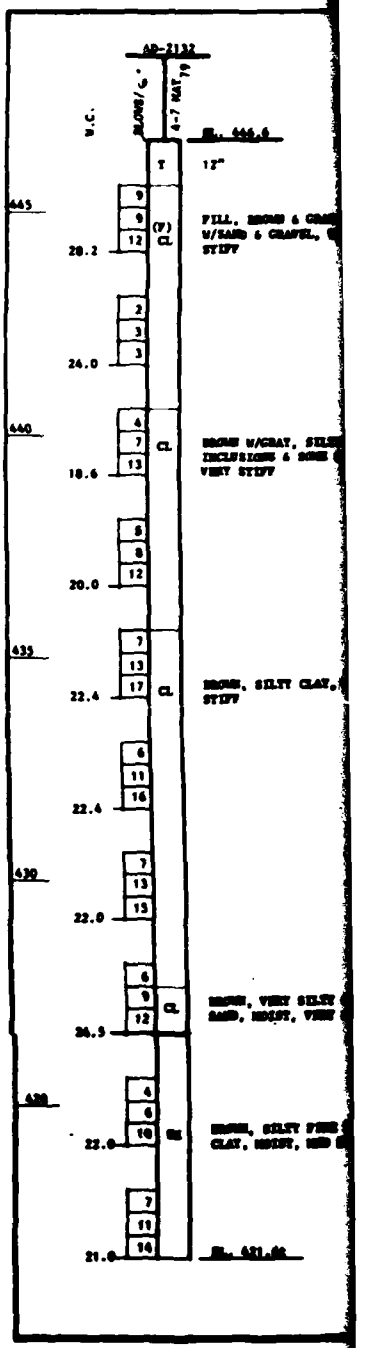
SCALE: DATE:

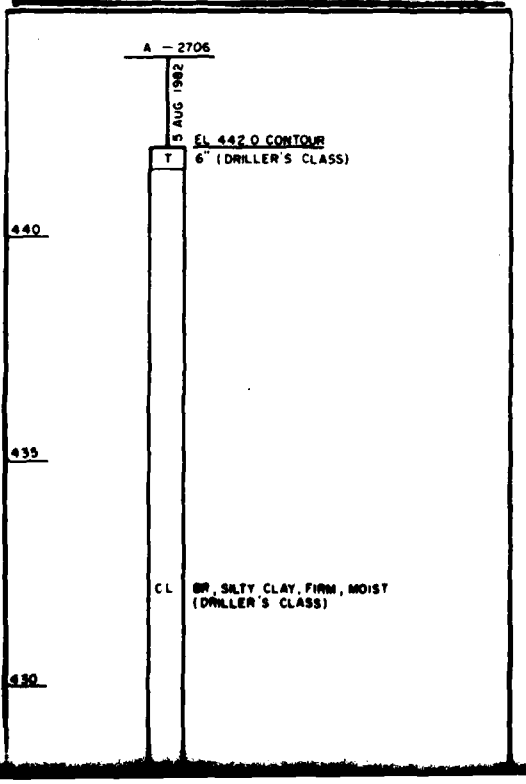
DRAWING NUMBER
PLATE 8

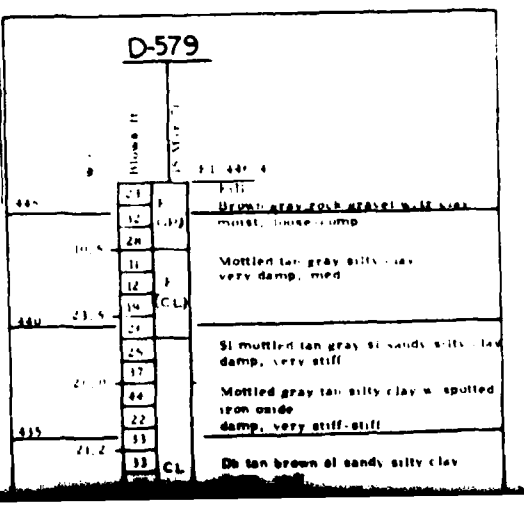
4

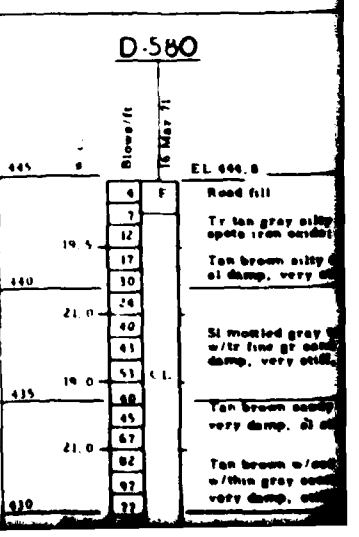

D-503
28 Apr 78
EL 442.7
Fill
brown gray cinders,clay,tr rock frags
damp, mod comp
Brown & gray cinders w/tr rock frags
damp, mod comp
Brown gray clay rock w/lt cinders
sl wet, soft-mod comp
Reddish brown black cinders
damp, mod comp
Brown gray cinders,clay
sl wet, soft-med
Brown gray sl silty clay
damp, stiff
Mottled gray brown clayey sandy silt
sl wet, soft-med
Tannish brown silty clayey sand, damp
very comp w/thin (w) shale seam
Tannish brown sand,med fine w clayey
silt, very damp, comp
Gray reddish brown sand,med fine w/
some clayey silt, sl wet, mod-comp
Gray brown sand & silt fine gr
wet, med-comp
Gray brown sandy silt
damp, mod-comp
EL 401.7±
445
440
435
430
425
420
415
410

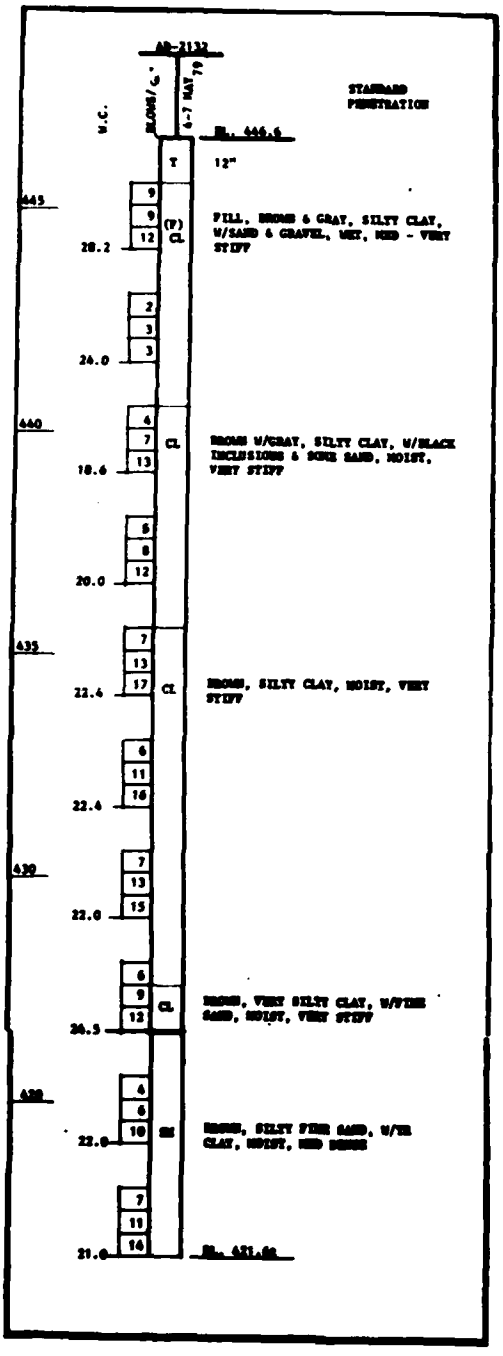

AD-2130
9-10 MAY 79
STANDARD PENETRATION
EL. 442.6
12"
BROWN, SILTY CLAY, W/TR SAND,
MOIST, VERY STIFF
BROWN W/GRAY, SILTY CLAY, W/TR
SAND, MOIST, VERY STIFF
BROWN, SANDY CLAY, MOIST, VERY STIFF
BROWN, V. SILTY SAND, W/LT TR CLAY,
MOIST, MED DENSE
EL. 417.6±
445
440
435
430
425
420

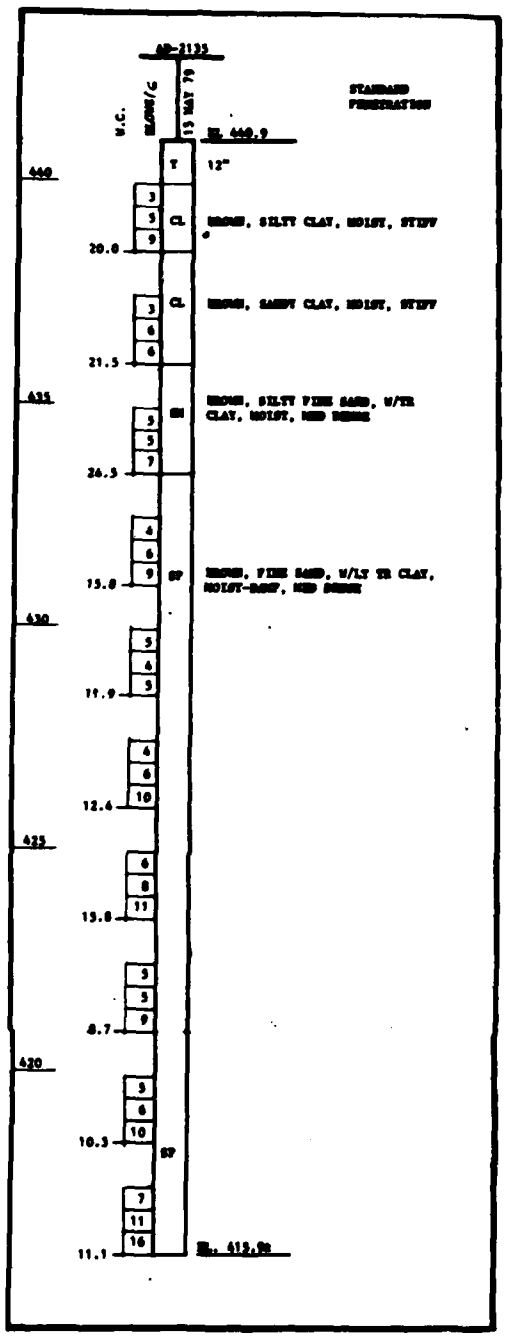

AD-2132
4-7 MAY 79
EL. 446.6
12"
FILL, BROWN & GRAY
W/SAND & GRAVEL,
STIFF
BROWN W/GRAY, SILTY
INCLUSIONS & SEAMS
VERY STIFF
BROWN, SILTY CLAY,
STIFF
BROWN, VERY SILTY
SAND, MOIST, VERY
BROWN, SILTY FINE
CLAY, MOIST, MED
EL. 421.6±
445
440
435
430

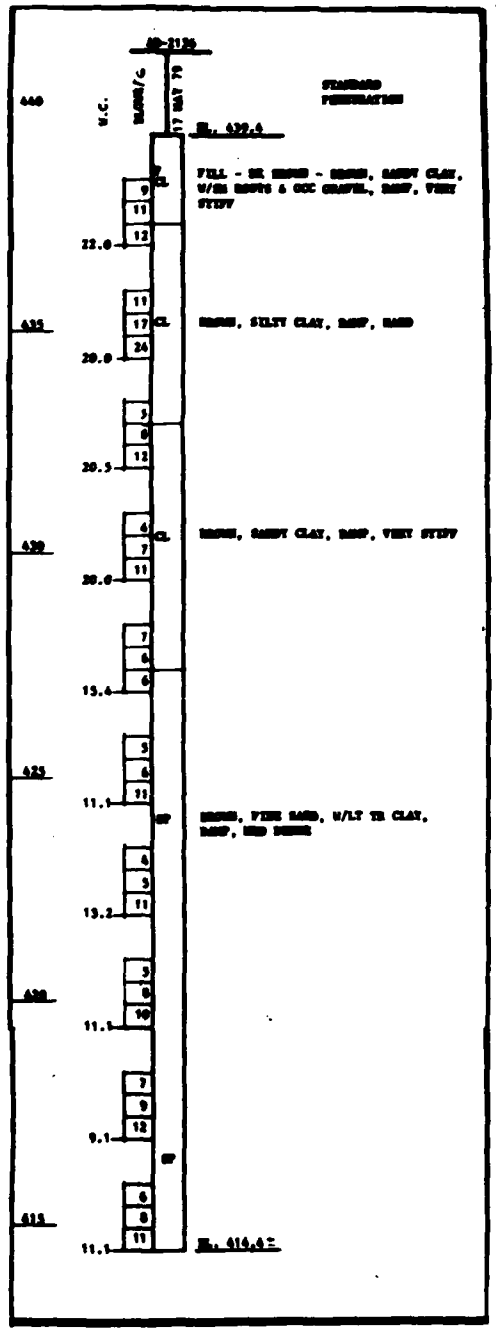

A - 2706
5 AUG 1982
EL 442.0 CONTOUR
6" (DRILLER'S CLASS)
BR, SILTY CLAY, FIRM, MOIST
(DRILLER'S CLASS)
440
435
430

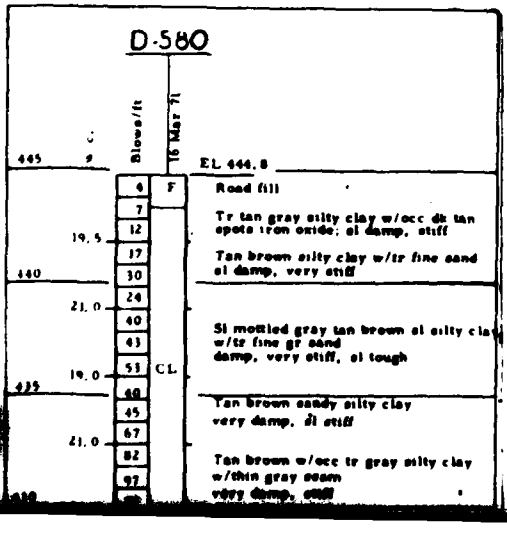

D-579
Brown gray rock gravel w/lt silt
moist, loose-comp
Mottled tan gray silty clay
very damp, med
Sl mottled tan gray sl sandy silty clay
damp, very stiff
Mottled gray tan silty clay w/ spotted
iron oxide
damp, very stiff-stiff
Dk tan brown sl sandy silty clay
CL
445
440
435

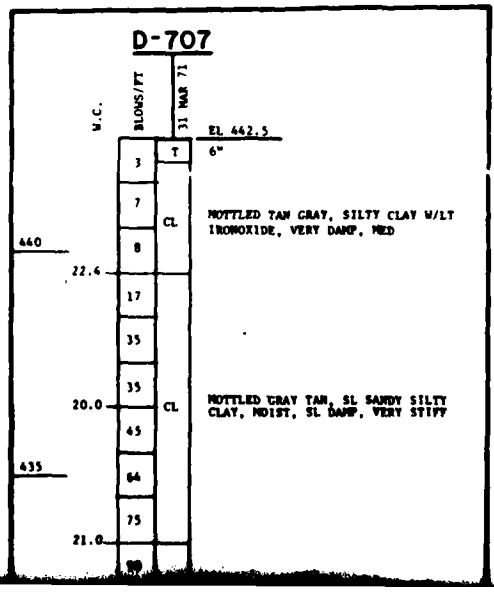

D-580
16 Mar 79
EL 444.8
Road fill
Tr tan gray silty
spots iron oxide
Tan brown silty
sl damp, very
Sl mottled gray
w/tr fine gr sand
damp, very stiff
Tan brown sandy
very damp, sl
Tan brown w/coal
w/thin gray sand
very damp, very
CL
445
440
435
430


AD-2132
W.C.
BLOWS/6"
4-7 MAY 79
STANDARD PENETRATION
El. 446.6
12"
FILL, BROWN & GRAY, SILTY CLAY, W/SAND & GRAVEL, WET, MED - VERY STIFF
BROWN W/GRAY, SILTY CLAY, W/BLACK INCLUSIONS & SOME SAND, MOIST, VERY STIFF
BROWN, SILTY CLAY, MOIST, VERY STIFF
BROWN, VERY SILTY CLAY, W/FINE SAND, MOIST, VERY STIFF
BROWN, SILTY FINE SAND, W/TR CLAY, MOIST, MED DENSE
El. 421.6

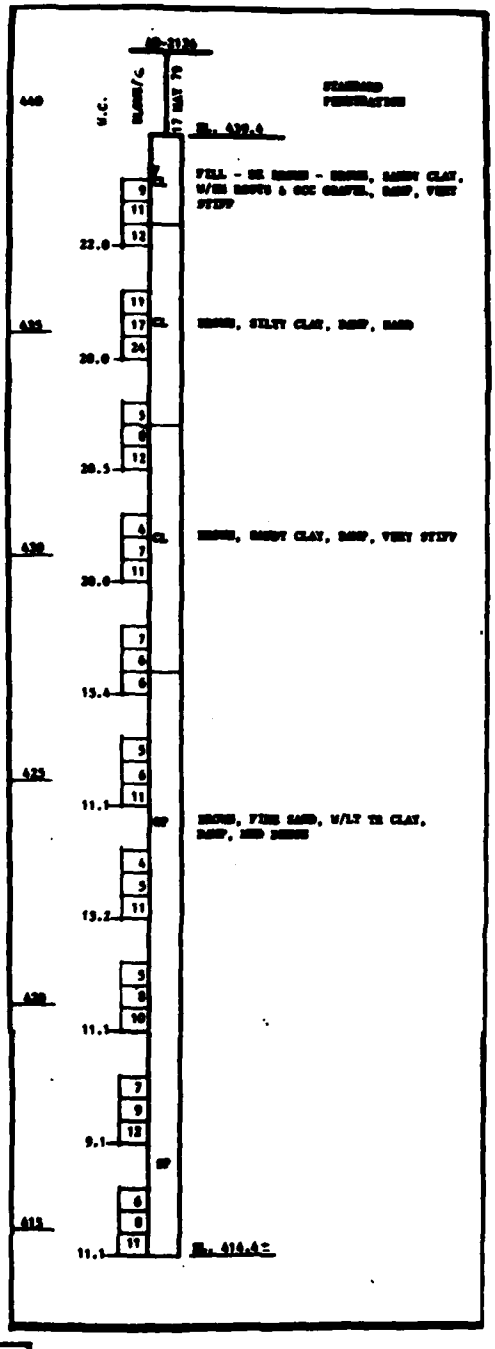

AD-2133
W.C.
BLOWS/6"
15 MAY 79
STANDARD PENETRATION
El. 440.9
12"
BROWN, SILTY CLAY, MOIST, STIFF
BROWN, SANDY CLAY, MOIST, STIFF
BROWN, SILTY FINE SAND, W/TR CLAY, MOIST, MED DENSE
BROWN, FINE SAND, W/LT TR CLAY, MOIST-DAMP, MED DENSE
El. 413.9

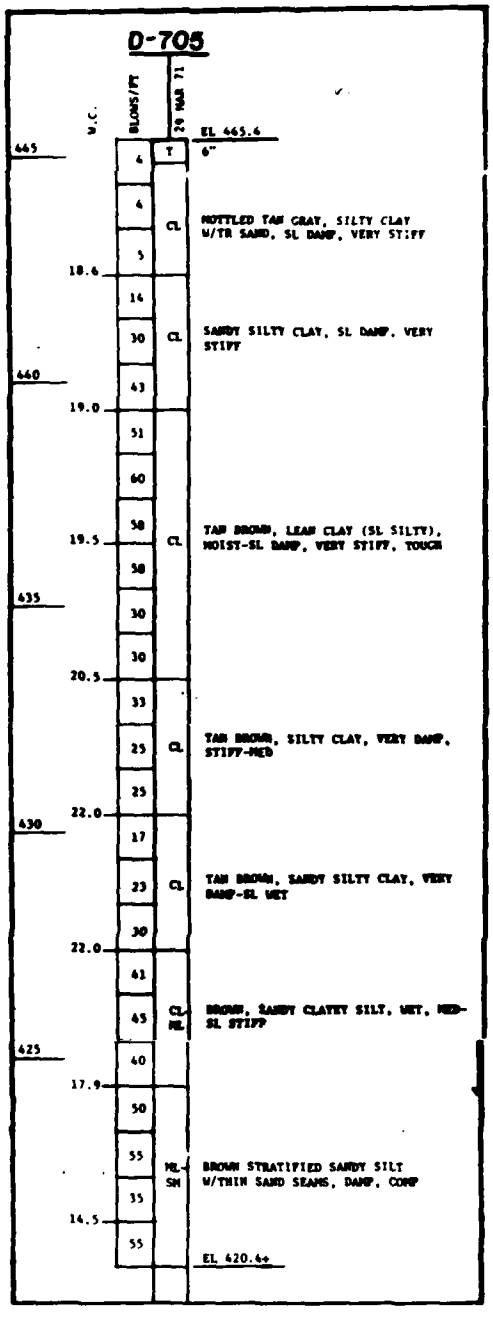

AD-2130
W.C.
BLOWS/6"
17 MAY 79
STANDARD PENETRATION
El. 439.4
FILL - SM BROWN - BROWN, SANDY CLAY, W/SM BOUND & OCC GRAVEL, DAMP, VERY STIFF
BROWN, SILTY CLAY, DAMP, HARD
BROWN, SANDY CLAY, DAMP, VERY STIFF
BROWN, FINE SAND, W/LT TR CLAY, DAMP, MED DENSE
El. 414.6±


D-580
W.C.
Blows/ft
16 Mar 71
El. 444.8
Road fill
Tr tan gray silty clay w/occ dk tan spots iron oxide; sl damp, stiff
Tan brown silty clay w/tr fine sand sl damp, very stiff
Sl mottled gray tan brown sl silty clay w/tr fine gr sand damp, very stiff, sl tough
Tan brown sandy silty clay very damp, sl stiff
Tan brown w/occ tr gray silty clay w/thin gray seam very damp, stiff


D-707
W.C.
BLOWS/FT
31 MAR 71
El. 442.5
6"
MOTTLED TAN GRAY, SILTY CLAY W/LT IRONOXIDE, VERY DAMP, MED
MOTTLED GRAY TAN, SL SANDY SILTY CLAY, MOIST, SL DAMP, VERY STIFF

Symbol	

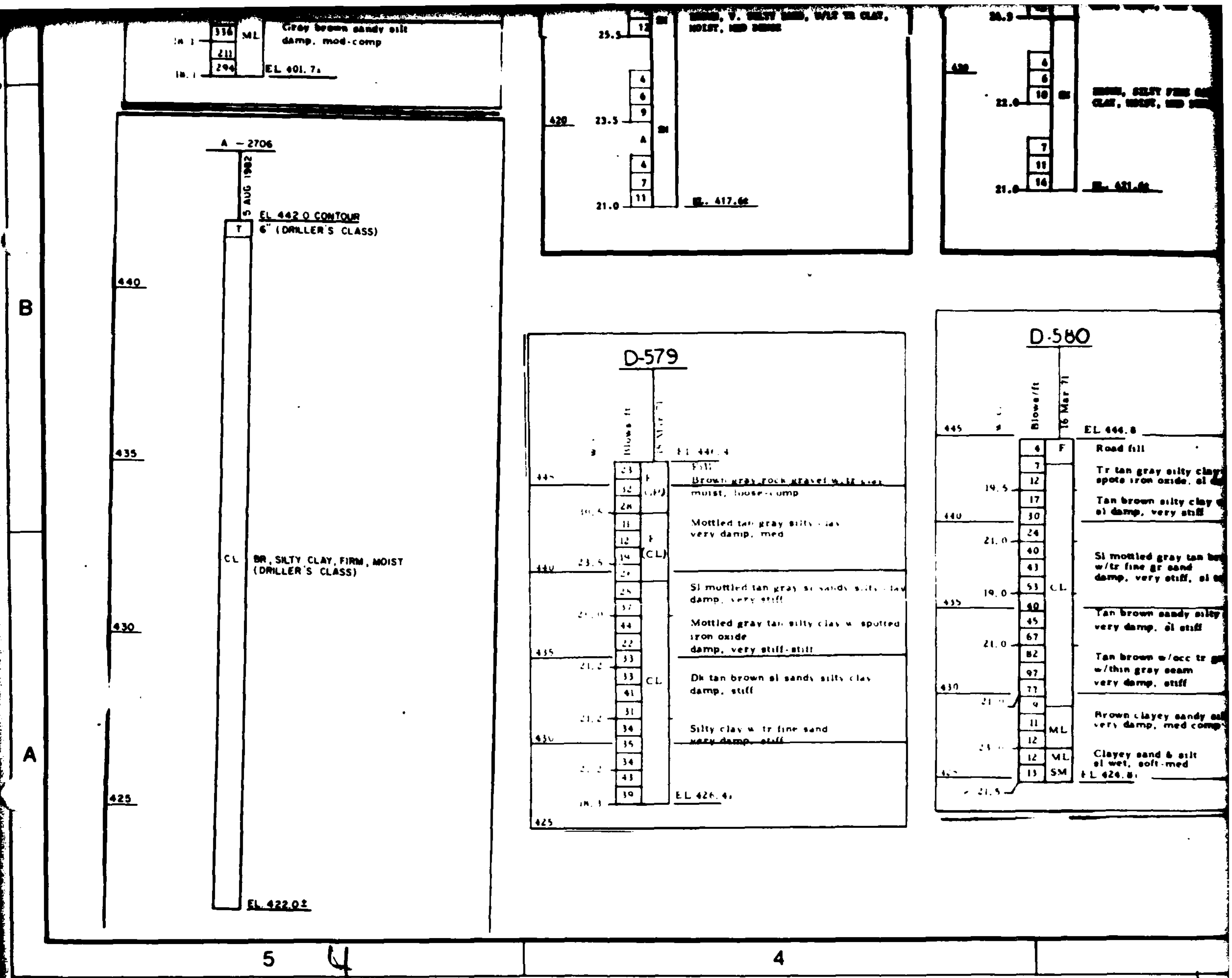


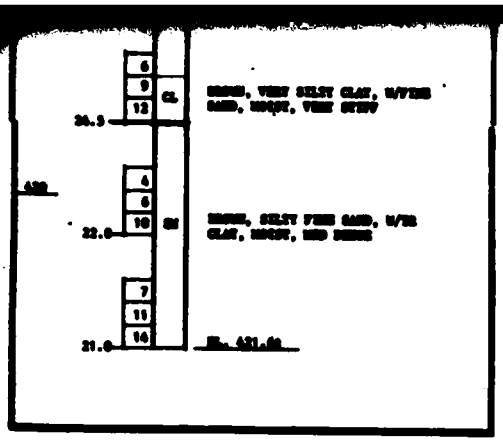


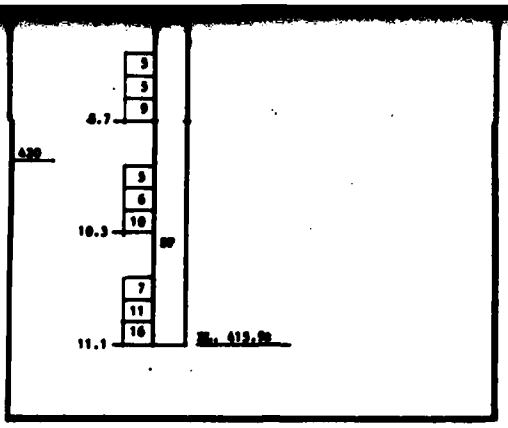
D C B

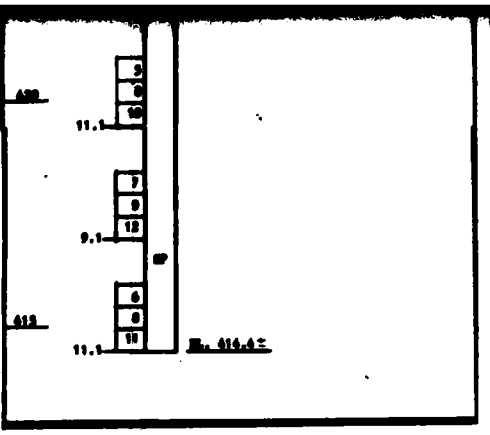
Revisions			
Symbol	Descriptions	Date	Approved

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE KENTUCKY

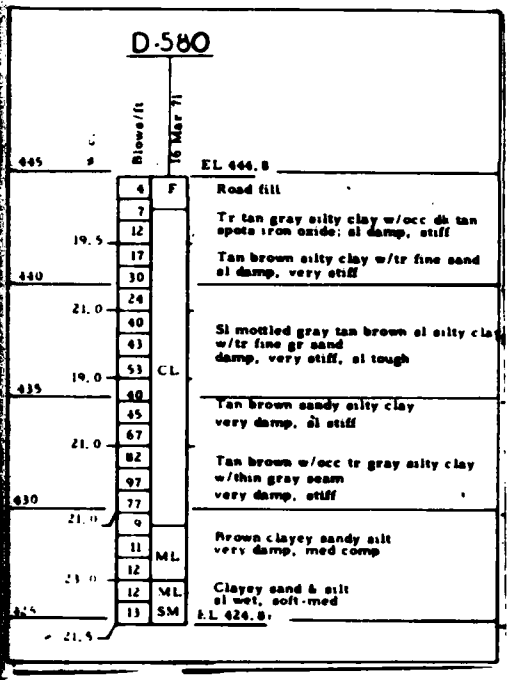

Gray brown sandy silt
damp, mod-comp
EL 401.7±
A - 2706
5 AUG 1982
EL 442.0 CONTOUR
6" (DRILLER'S CLASS)
BR, SILTY CLAY, FIRM, MOIST
(DRILLER'S CLASS)
EL 422.0±
D-579
Mottled tan gray silty clay
very damp, med
Mottled gray tan silty clay w/ spotted
iron oxide
damp, very stiff-stiff
Dk tan brown sl sandy silty clay
damp, stiff
Silty clay w/ tr fine sand
EL 426.4±
D-580
16 Mar 71
EL 444.8
Road fill
very damp, sl stiff
very damp, stiff
Clayey sand & silt
sl wet, soft-med
EL 424.8±
B
A
5
4



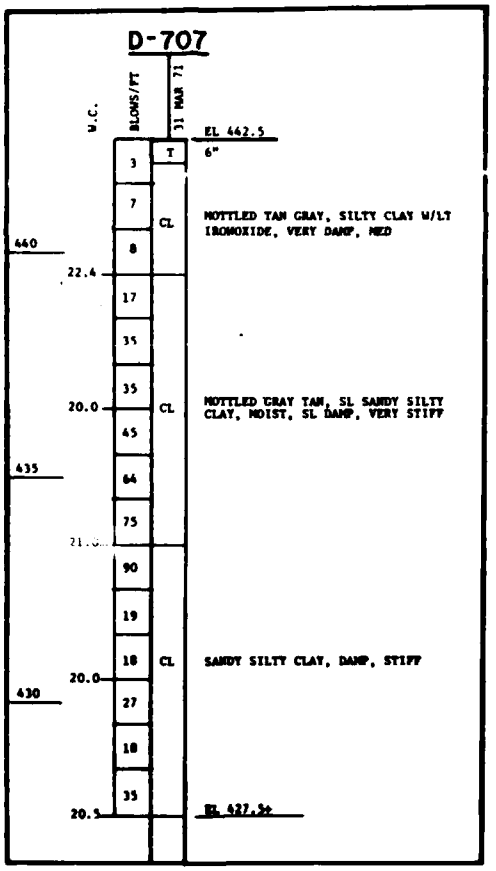




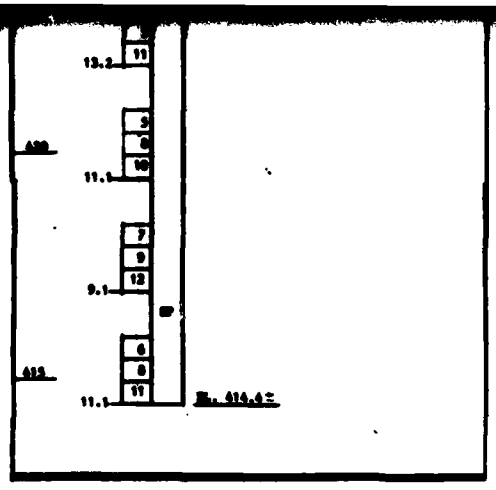
D-580

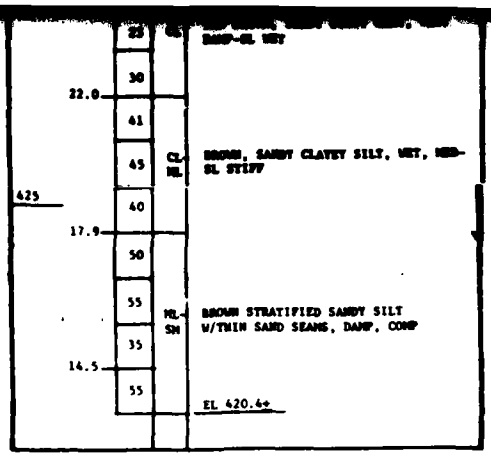


D-707



Symbol	
Designed by:	
Drawn by:	
Checked by:	
Reviewed by:	
Approved by:	





B

A

Revisions			
Symbol	Descriptions	Date	Approved

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE KENTUCKY

Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:

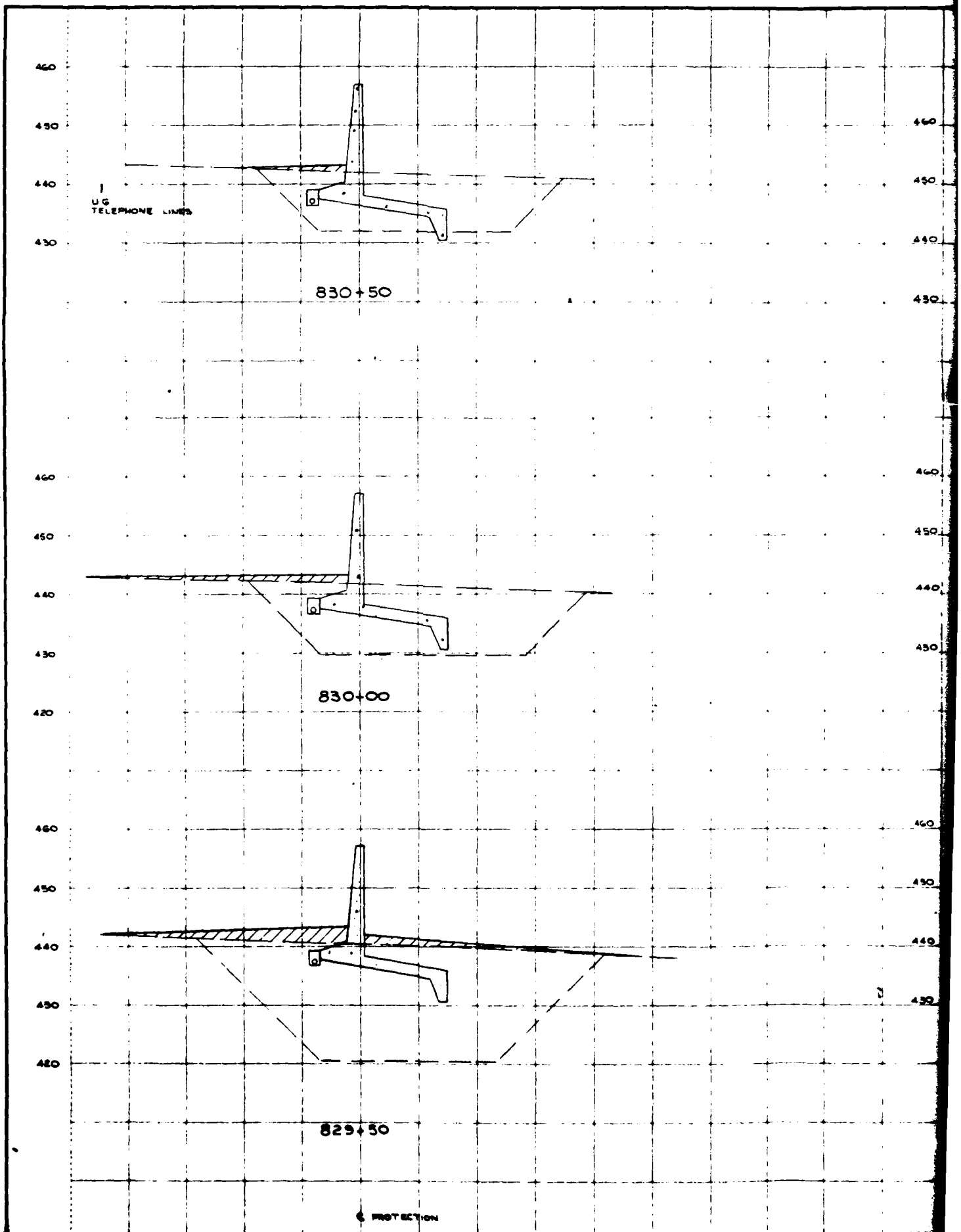
US Army Corps of Engineers

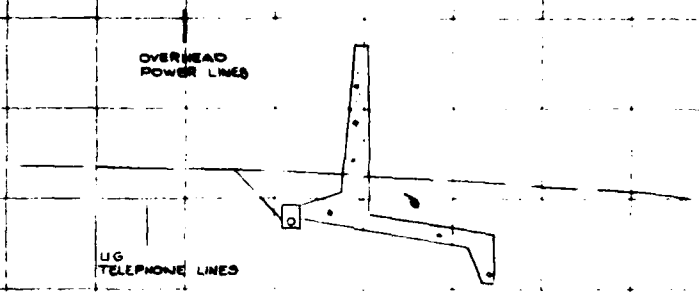
SOUTHWEST JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION 4
BORING LOGS

Scale:
Date:
Drawing Code: PLATE 7
Sheet reference number:
Sheet _ of _

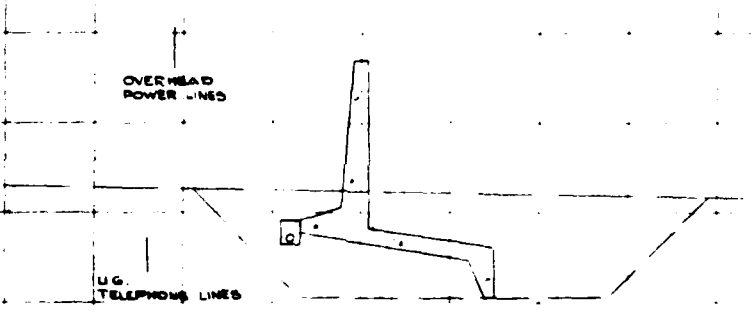
2 1

CORPS OF ENGINEERS

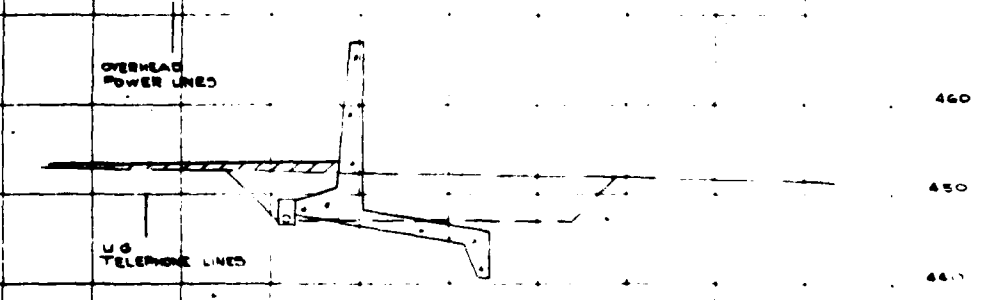




832 + 00

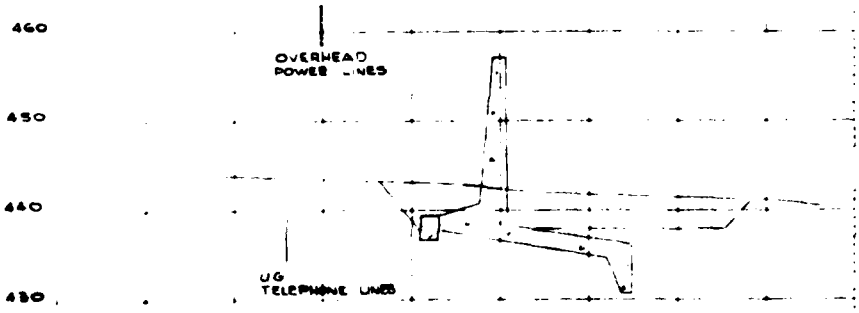


831 + 50

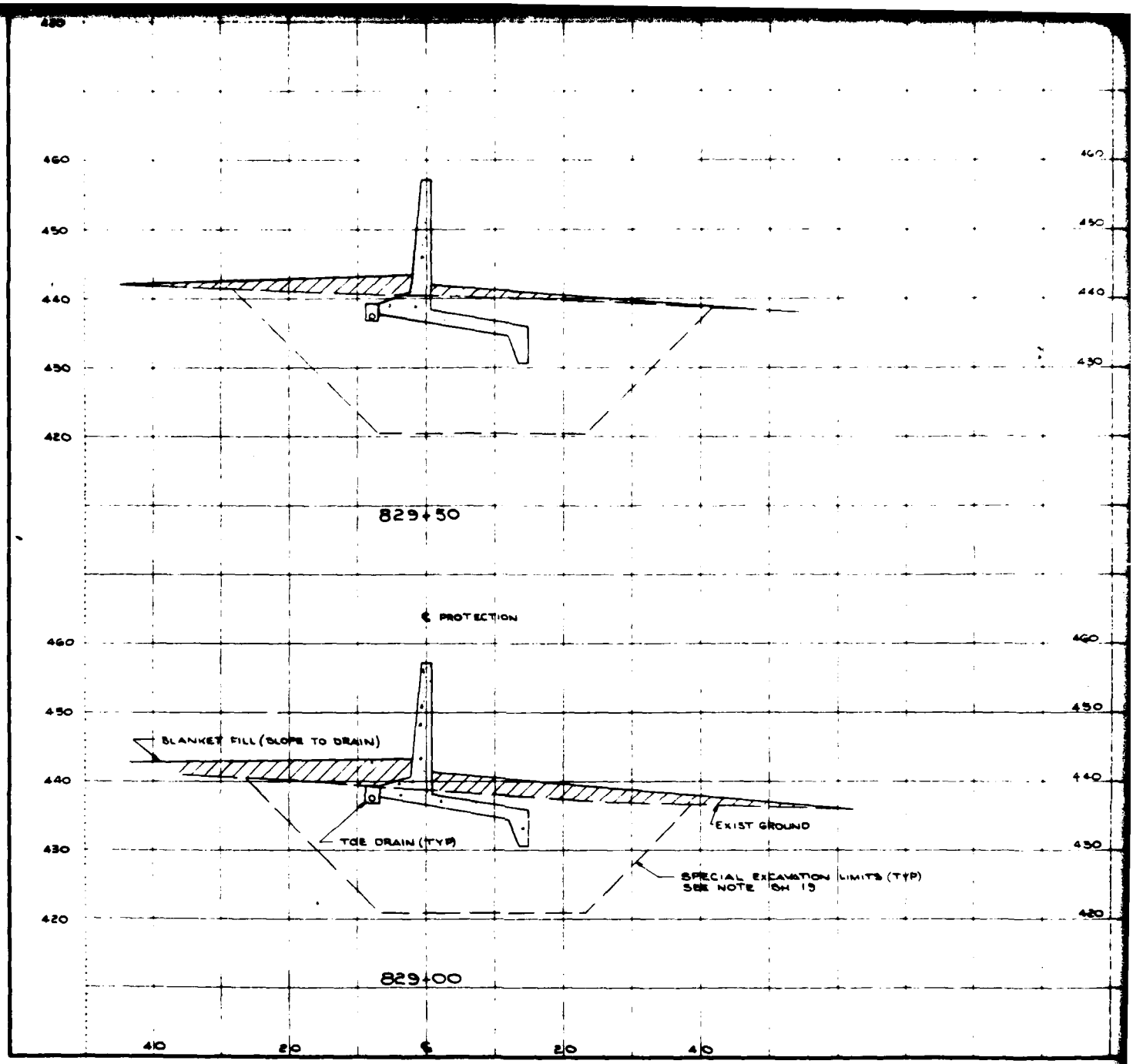


831 + 10

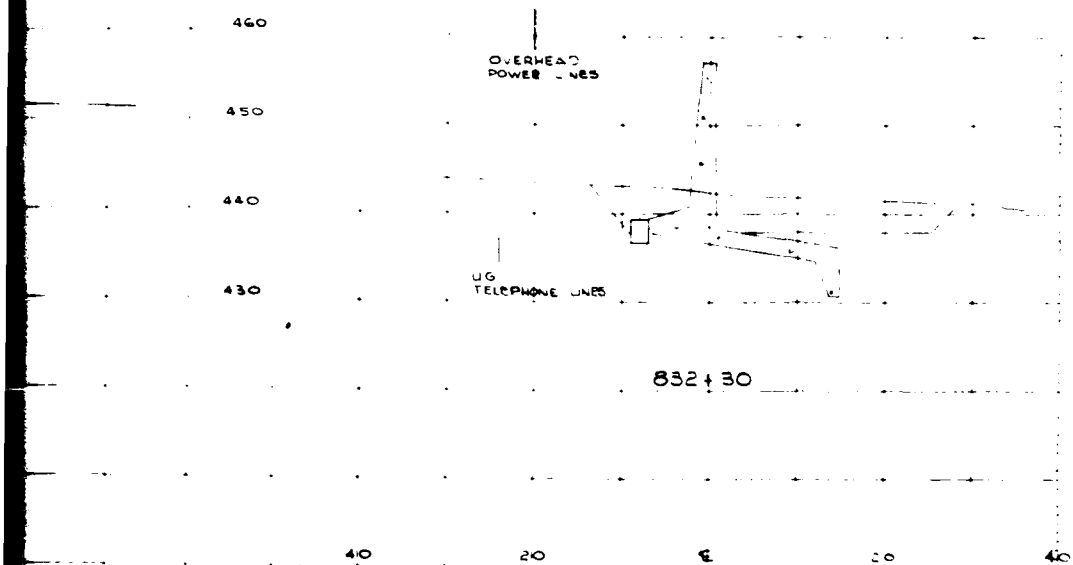
U. S. ARMY



852 / 30


460
450
440
430
420
829+50
℄ PROTECTION
460
450
440
430
420
BLANKET FILL (SLOPE TO DRAIN)
TOE DRAIN (TYP)
EXIST GROUND
SPECIAL EXCAVATION LIMITS (TYP)
SEE NOTE 6H 19
829+00
40
20
℄
20
40

460
450
440
430
OVERHEAD
POWER LINES
U G
TELEPHONE LINES
831 + 10
460
450
440
430
OVERHEAD
POWER LINES
U G
TELEPHONE LINES
830+70
40
20
0
20
40
REVISIONS
DESIGNED
DRAWN
CHECKED
SUBMITTED
SCALE



10 0 10 20 FT.
1" = 10 HORZ & VERT

REVISION	DATE	DESCRIPTION	BY

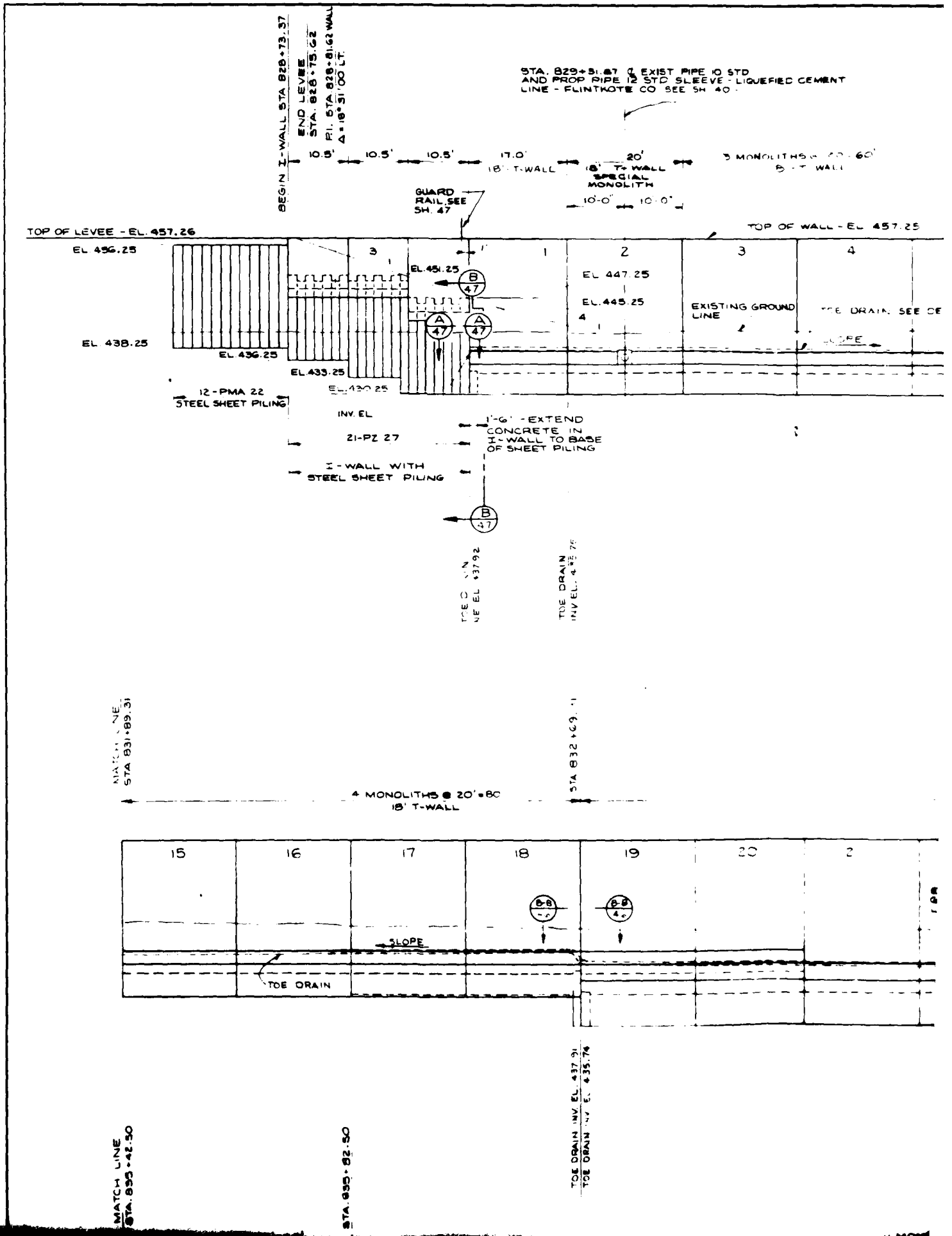
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE KENTUCKY

DESIGNED VCR
DRAWN | TRACED Loehr
CHECKED Ringenberg
SUBMITTED [signature]
SCALE 1" = 10'

SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION-4
WALL SECTIONS
SHEET 1 OF 3

DATE AUG 82
DRAWING NUMBER
616-12.10/18A

PLATE 9


BEGIN I-WALL STA 828+73.37
END LEVEE STA. 828+75.62
PI. STA 828+81.62 WALL Δ = 18°31'00" LT.
STA. 829+31.87 ℄ EXIST PIPE 10 STD AND PROP PIPE 12 STD SLEEVE - LIQUEFIED CEMENT LINE - FLINTKOTE CO SEE SH 40
10.5'
10.5'
10.5'
17.0'
18' T-WALL
20'
18' T-WALL SPECIAL MONOLITH
10'-0"
10'-0"
3 MONOLITHS @ 20' = 60'
18' T-WALL
GUARD RAIL SEE SH. 47
TOP OF LEVEE - EL. 457.26
TOP OF WALL - EL 457.25
EL 456.25
EL 438.25
EL 436.25
EL 433.25
EL 430.25
EL. 451.25
EL 447.25
EL. 445.25
EXISTING GROUND LINE
TOE DRAIN SEE CE
SLOPE
12 - PMA 22 STEEL SHEET PILING
INV. EL
21-PZ 27
I-WALL WITH STEEL SHEET PILING
1'-6" EXTEND CONCRETE IN I-WALL TO BASE OF SHEET PILING
B 47
A 47
A 47
B 47
TOE DRAIN INV EL 437.92
TOE DRAIN INV EL. 435.75
MATCH LINE STA 831+89.31
STA 832+69.31
4 MONOLITHS @ 20' = 80'
18' T-WALL
15
16
17
18
19
20
B-B
B-B
SLOPE
TOE DRAIN
TOE DRAIN INV. EL. 437.91
TOE DRAIN INV. EL. 435.74
MATCH LINE STA. 835+42.50
STA. 835+82.50

PE 10 STD
SLEEVE - LIQUEFIED CEMENT
(SH. 40)

STA 830+01.87

EQ STA 831+02.86 BK.
(WALL) = PI STA. 831+
05.39 AH.
Δ = 8° 58' 13" R

3 MONOLITHS @ 20' = 60'
18' - T WALL

4 MONOLITHS @ 20' = 80'
18' - T-WALL

5
18' T-WALL

22.07'
18' T-WALL
SPECIAL
MONOLITH
16.08'

TOP OF WALL - EL. 457.25

3	4	5	6	7	8	9	10	11

EXISTING GROUND LINE

TOE DRAIN SEE DETAIL, SH. 45

SLOPE

SLOPE

EE +6

EE 46

MANHOLE T-1

TOE DRAIN INV. EL. 437.43

TOE DRAIN INV. EL. 436.58

12 MONOLITHS @ 20' = 240'
20' T-WALL

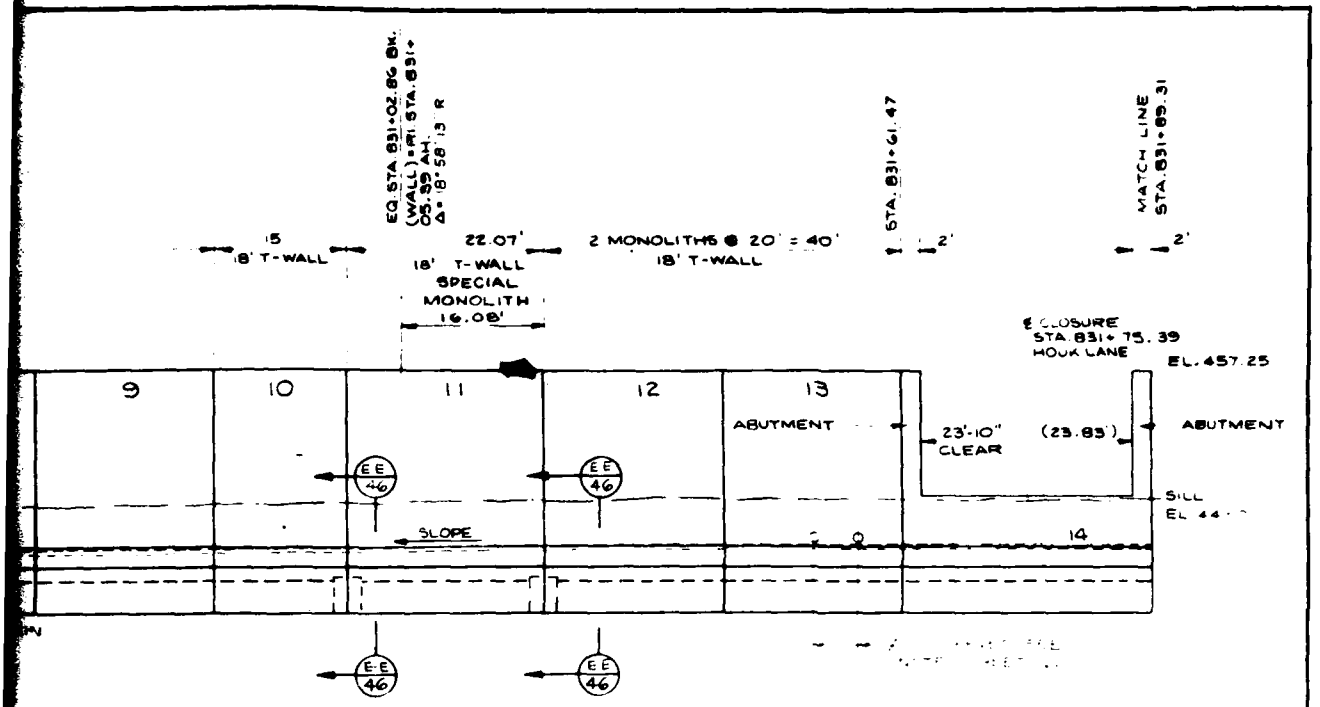
20	21	22	23	24	25	26	27	28

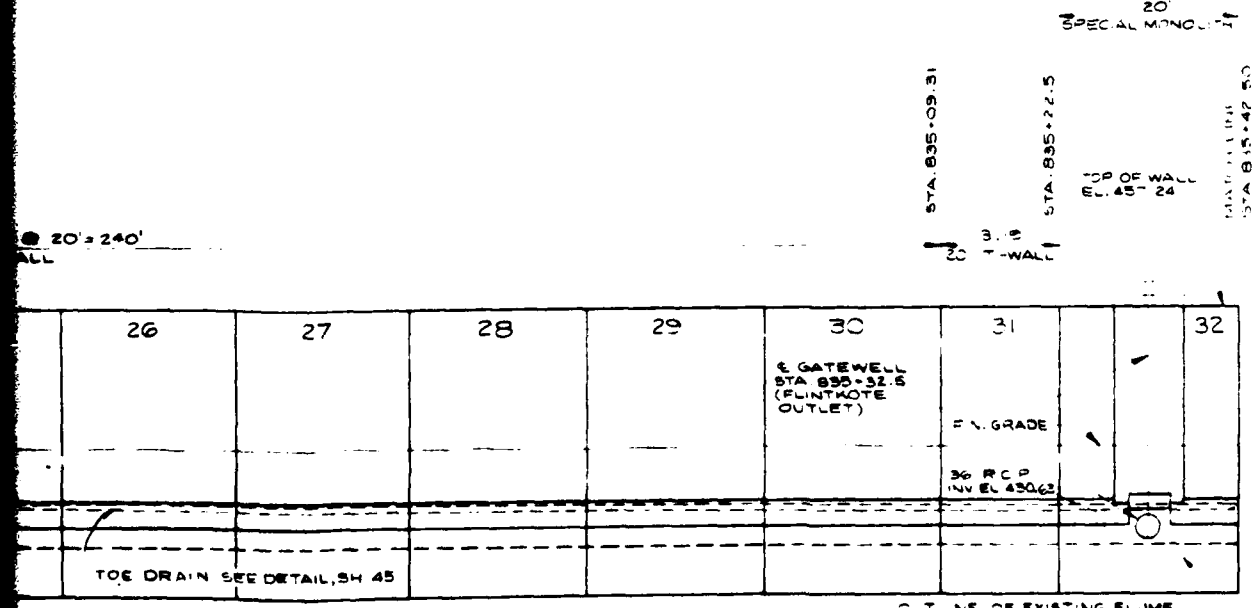
EXISTING GROUND LINE

SLOPE

TOE DRAIN SEE DETAIL, SH 45

MATCH LINE
STA. 838+02.50

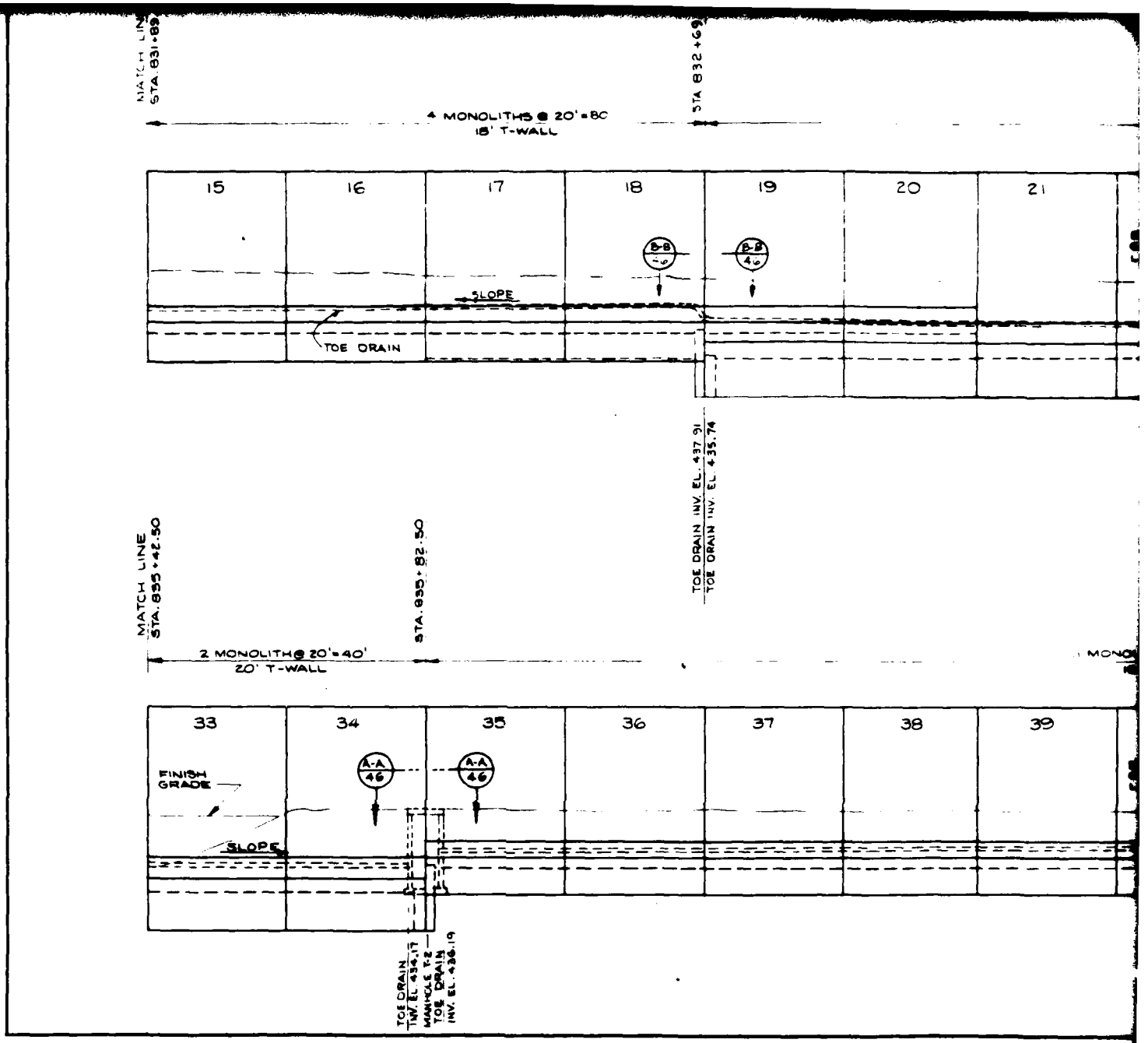




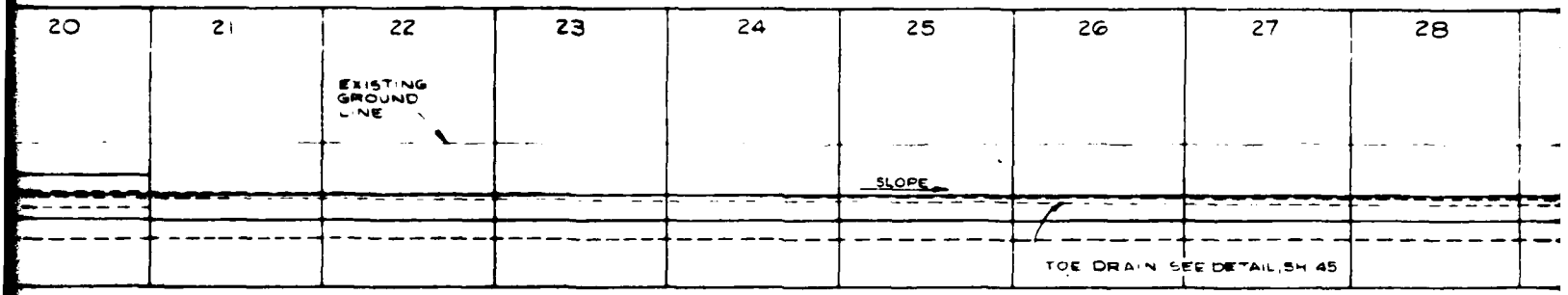
NOTES

1. SEE PLAN OF LEVEE AND WALL FOR CLARIFICATION OF HORIZONTAL CONTROL. WALL MONOLITH STATIONING IS BASED ON WALL SURVEY EXCEPT AS SHOWN OTHERWISE.
2. FOR SITE PLAN OF HOUK LANE CLOSURE, SEE SH 22
3. FOR SITE PLANS OF VALVEWELL AND GATEWELL AT STA. 835+1.5 SEE SHEET 23
4. ALL MANHOLES FOR TOE DRAINS (T-1, T-2, T-3 & T-4) SHALL BE KY. STD TYPE "B" MANHOLES, MODIFIED TO PROVIDE A 3'-0" DEEP SUMP PUMP WELL, 3'-0" BELOW THE LOWER PIPE INVERT. MANHOLE FRAMES & LIDS SHALL BE TYPE 2.
5. SLOPE ALL TOE DRAINS .0080 FT. TO MANHOLES, EXCEPT WHERE SHOWN OTHERWISE AT I-WALLS.

MATCH LINE STA. 838+02.50


MATCH LINE
STA. 831+89
STA 832+69
4 MONOLITHS @ 20'=80'
18' T-WALL
15
16
17
18
19
20
21
B-B
46
SLOPE
TOE DRAIN
TOE DRAIN INV. EL. 437.91
TOE DRAIN INV. EL. 435.74
MATCH LINE
STA. 835+42.50
STA. 835+82.50
2 MONOLITH @ 20'=40'
20' T-WALL
33
34
35
36
37
38
39
A-A
46
FINISH GRADE
SLOPE
TOE DRAIN
TW EL. 434.17
MANHOLE T-2
TOE DRAIN
INV. EL. 436.19

12 MONOLITHS @ 20' = 240'
20' T-WALL

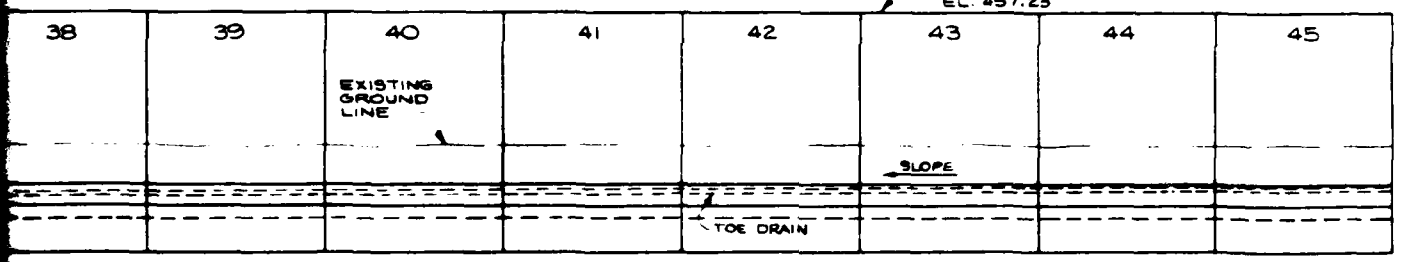


NOT
1.
2.
3.
4.
5.
6.

MATCH LINE STA. 838+02.50

11 MONOLITHS @ 20' = 220'
18' T-WALL

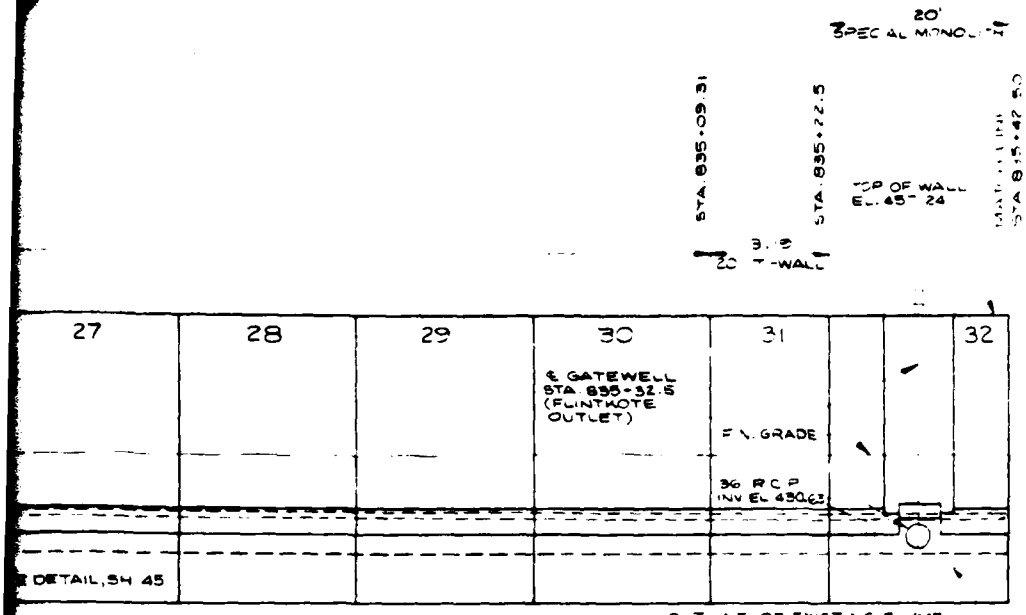
TOP OF WALL EL. 457.23



PROFILE
(RIVERSIDE)

10 0 10 20 FT.

1 5



NOTES

1. SEE PLAN OF LEVEE AND WALL FOR CLARIFICATION OF HORIZONTAL CONTROL. WALL MONOLITH STATIONING IS BASED ON WALL SURVEY EXCEPT AS SHOWN OTHERWISE.
2. FOR SITE PLAN OF HOUK LANE CLOSURE, SEE SH. 22
3. FOR SITE PLANS OF VALVEWELL AND GATEWELL AT STA. 835+32.5 SEE SHEET 23.
4. ALL MANHOLES FOR TOE DRAINS (T-1, T-2, T-3 & T-4) SHALL BE KY. STD. TYPE "B" MANHOLES, MODIFIED TO PROVIDE A 3'-0" DEEP SUMP PUMP WELL, 3'-0" BELOW THE LOWER PIPE INVERT. MANHOLE FRAMES & LIDS SHALL BE TYPE 2.
5. SLOPE ALL TOE DRAINS .0050 ft/ft TO MANHOLES, EXCEPT WHERE SHOWN OTHERWISE AT I-WALLS.
6. AFTER CONSTRUCTION OF WALL FINISH GRADE ADJACENT TO THE WALL SHALL BE BROUGHT TO THE ORIGINAL GROUND LEVEL EXCEPT WHERE SHOWN OTHERWISE ON THIS SHEET OR ON TYPICAL SECTIONS

MATCH LINE
STA. 838+02.50

45

REVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

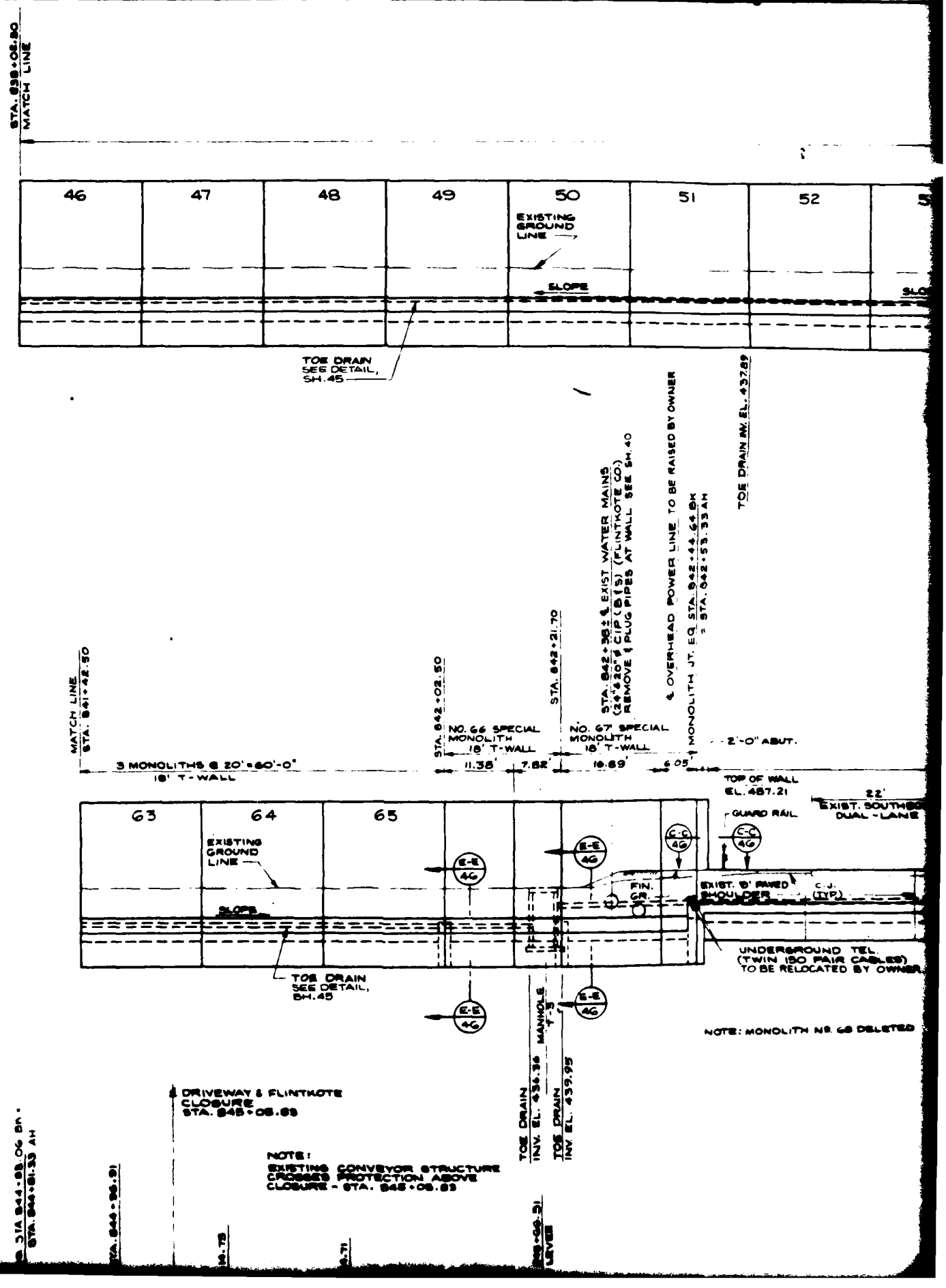
DESIGNED: J.M.E.
DRAWN: C.E.R. TRACED:
CHECKED: M.A.R.
SUBMITTED:
SCALE: AS SHOWN

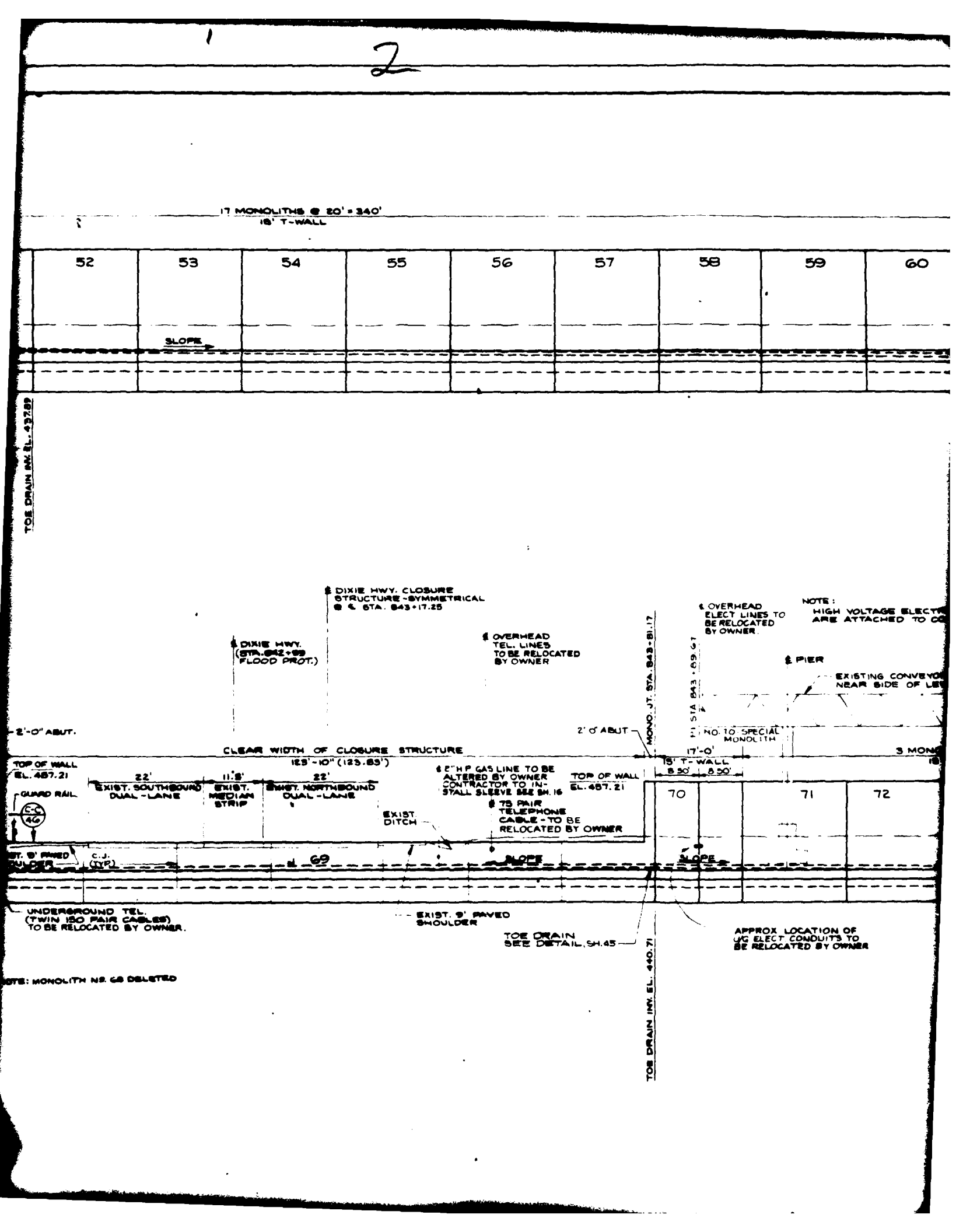
SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION - 4
RIVERSIDE ELEVATIONS
WALL MONOLITHS
SHEET 1 OF 2

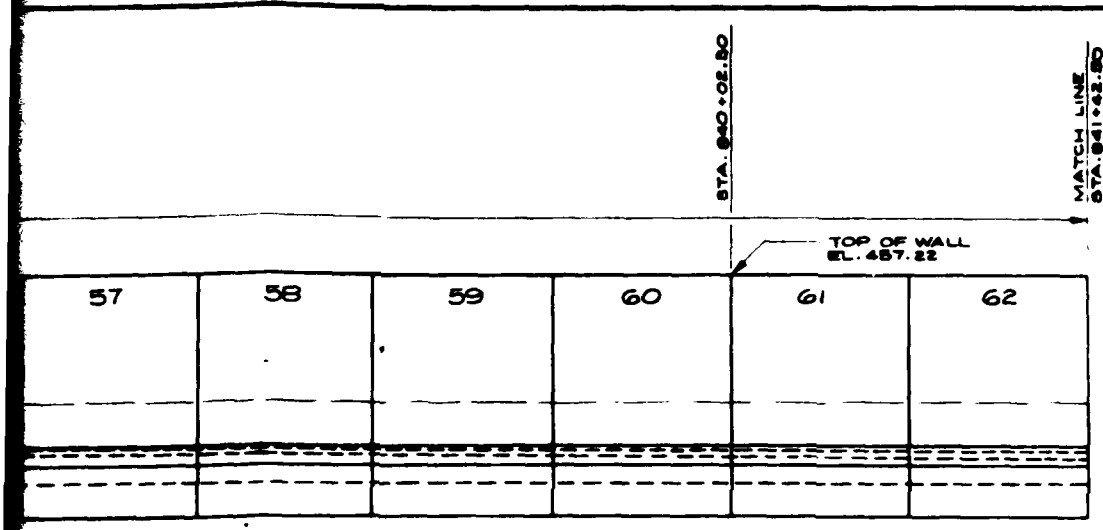
DATE: AUG 82

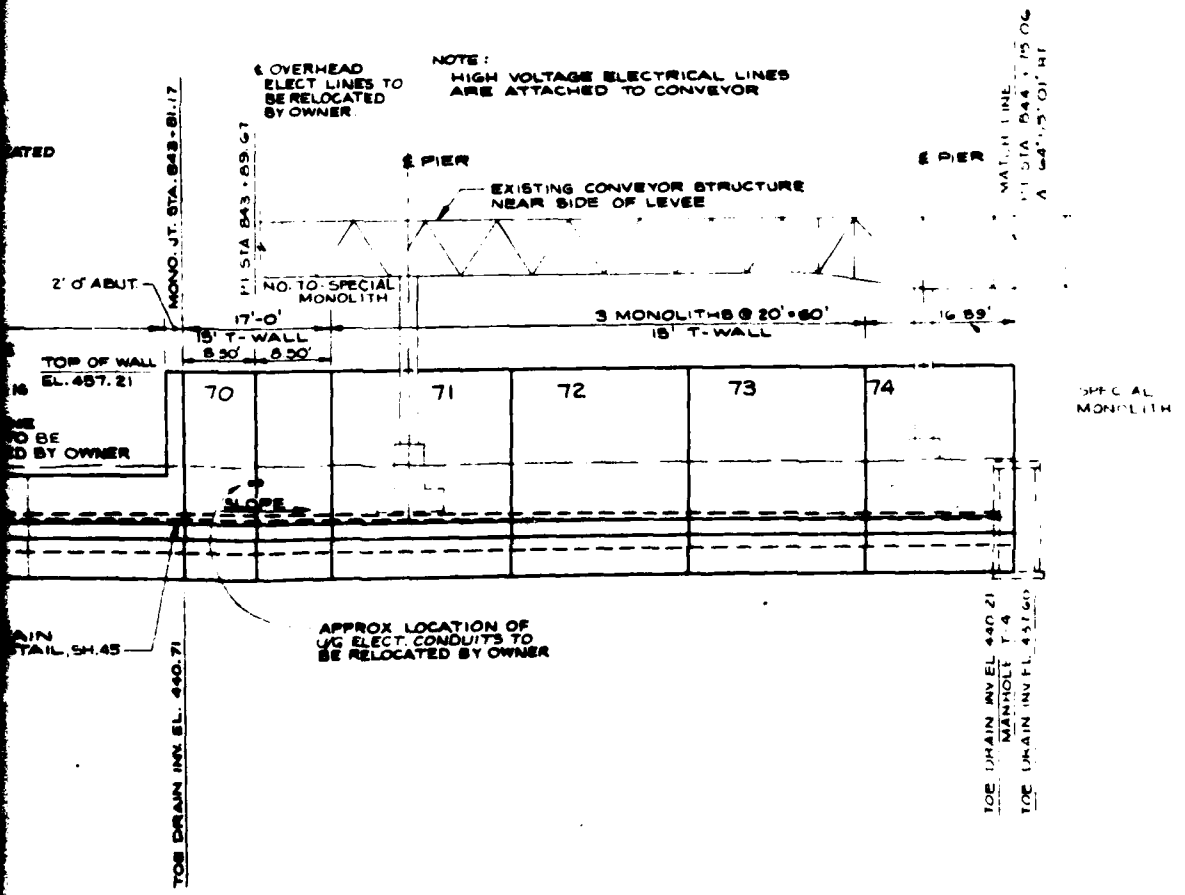
PLATE 10

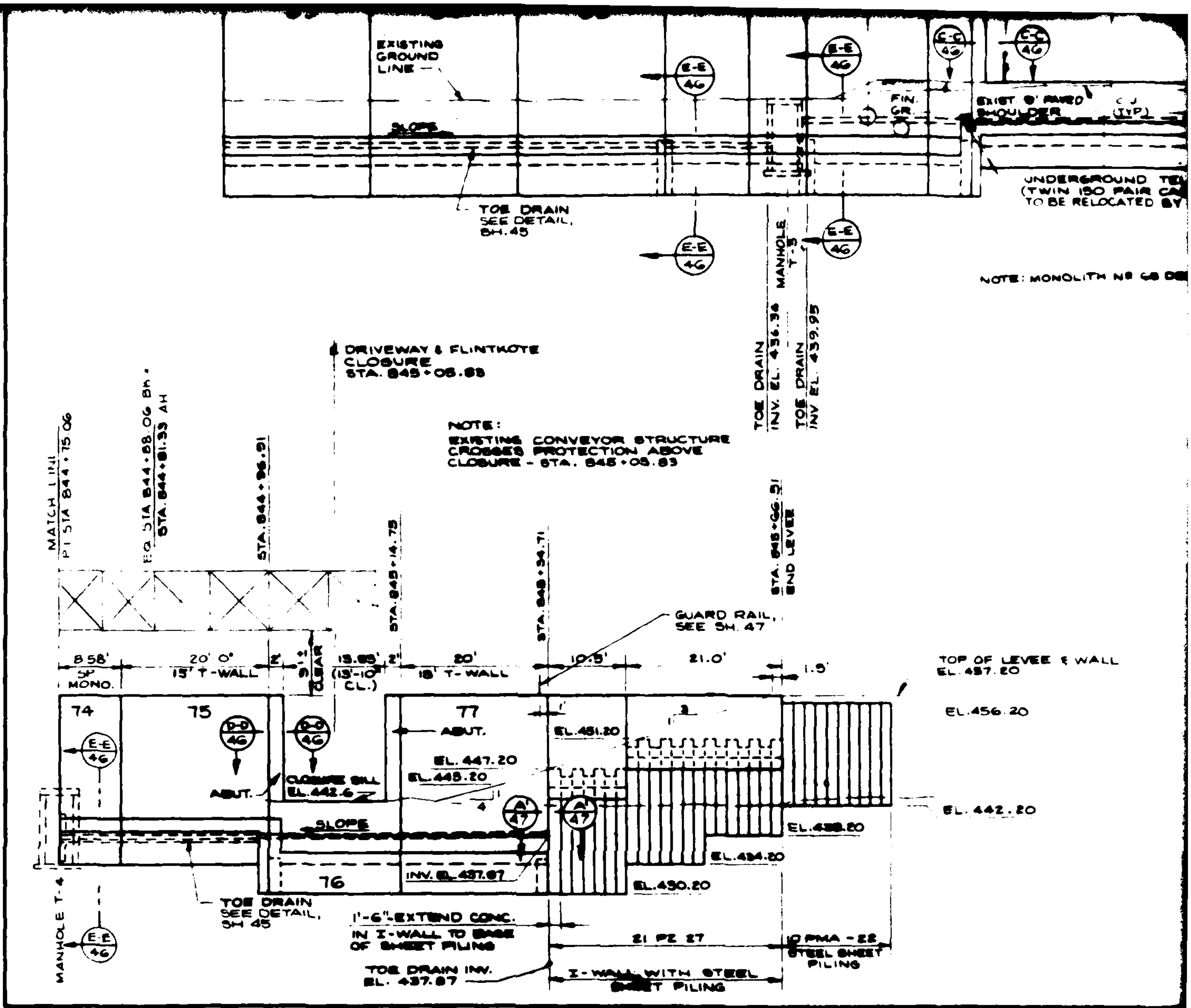
DRAWING NUMBER
616-12.10/17


STA. 838+08.80
MATCH LINE
46
47
48
49
50
51
52
EXISTING GROUND LINE
SLOPE
TOE DRAIN SEE DETAIL, SH. 45
TOE DRAIN INV. EL. 437.89
STA. 842+38± ℄ EXIST WATER MAINS (24"ø & 20"ø CIP (B1S) (FLINTKOTE CO.) REMOVE & PLUG PIPES AT WALL SEE SH. 40
℄ OVERHEAD POWER LINE TO BE RAISED BY OWNER
MONOLITH JT. EQ. STA. 842+44.64 BK = STA. 842+53.33 AH
MATCH LINE STA. 841+42.50
STA. 842+02.50
STA. 842+21.70
NO. 66 SPECIAL MONOLITH 18' T-WALL
NO. 67 SPECIAL MONOLITH 18' T-WALL
2'-0" ABUT.
3 MONOLITHS @ 20'-60'-0" 18' T-WALL
11.38'
7.82'
19.69'
6.05'
TOP OF WALL EL. 487.21
22' EXIST. SOUTHBD DUAL-LANE
GUARD RAIL
63
64
65
EXISTING GROUND LINE
SLOPE
E-E 4G
C-C 4G
FIN. GR.
EXIST. 8' PAVED SHOULDER
C.J. (TYP.)
UNDERGROUND TEL (TWIN 150 PAIR CABLES) TO BE RELOCATED BY OWNER
TOE DRAIN SEE DETAIL, SH. 45
NOTE: MONOLITH NO. 68 DELETED
TOE DRAIN INV. EL. 436.36
MANHOLE T-3
TOE DRAIN INV. EL. 439.95
DRIVEWAY & FLINTKOTE CLOSURE STA. 845+08.83
NOTE: EXISTING CONVEYOR STRUCTURE CROSSES PROTECTION ABOVE CLOSURE - STA. 845+08.83
MATCH LINE STA 844+75.06
STA. 844+88.06 BK
STA. 844+81.33 AH
STA. 844+99.21
16.75
9.71
STA. 845+99.21 LEVEE

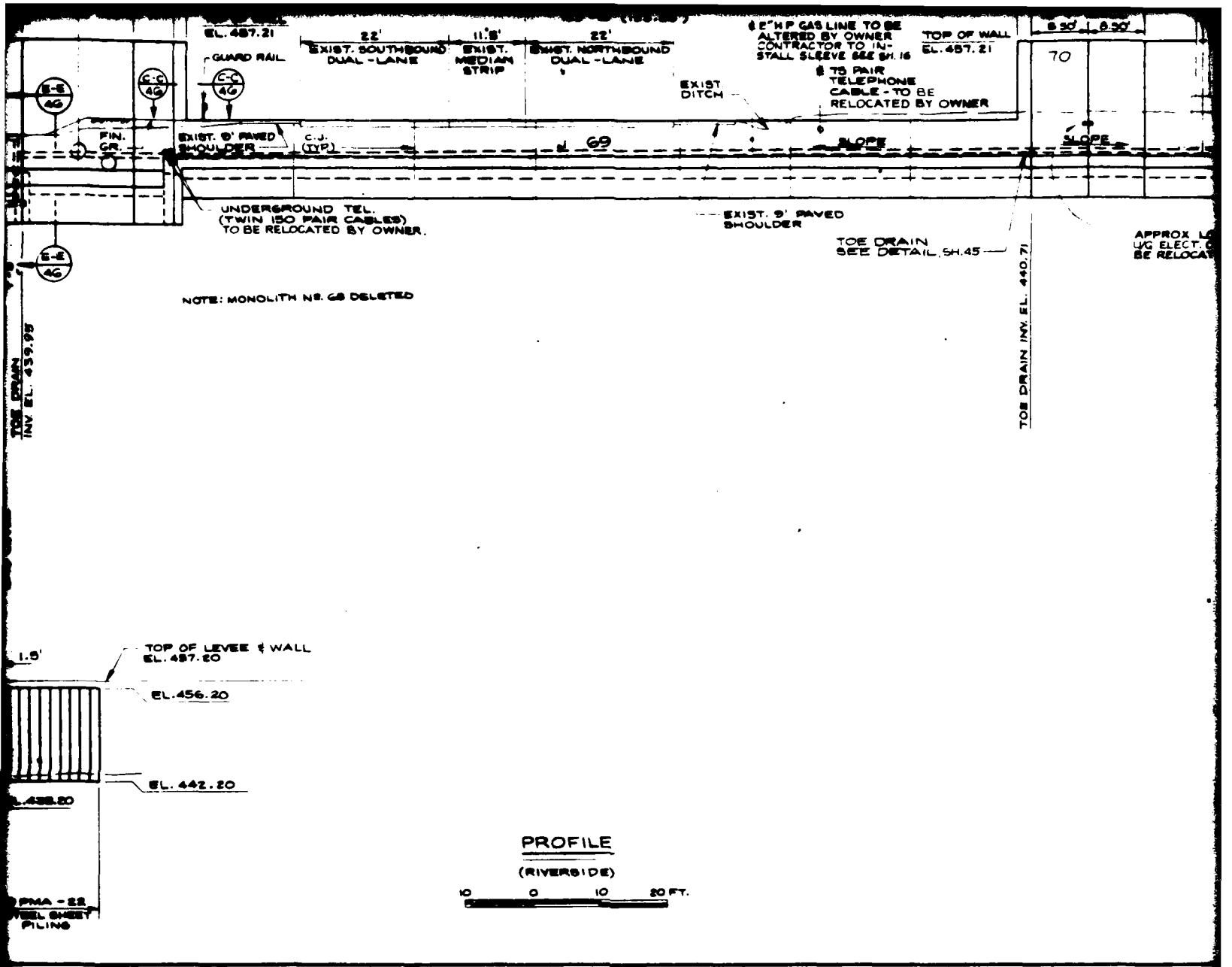

17 MONOLITHS @ 20' = 340'
18' T-WALL
52
53
54
55
56
57
58
59
60
SLOPE
TOE DRAIN INV. EL. 432.89
℄ DIXIE HWY. CLOSURE STRUCTURE - SYMMETRICAL @ ℄ STA. 843+17.25
℄ DIXIE HWY. (STA. 842+29 FLOOD PROT.)
℄ OVERHEAD TEL. LINES TO BE RELOCATED BY OWNER
℄ OVERHEAD ELECT LINES TO BE RELOCATED BY OWNER.
NOTE: HIGH VOLTAGE ELECTR ARE ATTACHED TO CO
℄ PIER
EXISTING CONVEYOR NEAR SIDE OF LE
MONO. JT. STA. 843+81.17
P.I. STA 843+89.41
NO. 70 SPECIAL MONOLITH
2'-0" ABUT.
2'-0" ABUT
CLEAR WIDTH OF CLOSURE STRUCTURE
123'-10" (123.83')
17'-0"
3 MONO
TOP OF WALL EL. 457.21
22'
EXIST. SOUTHBOUND DUAL-LANE
11.8'
EXIST. MEDIAN STRIP
22'
EXIST. NORTHBOUND DUAL-LANE
℄ 8" H P GAS LINE TO BE ALTERED BY OWNER CONTRACTOR TO IN-STALL SLEEVE SEE SH. 16
TOP OF WALL EL. 457.21
18' T-WALL
8.50'
8.50'
70
71
72
GUARD RAIL
C-C 46
EXIST. DITCH
℄ 75 PAIR TELEPHONE CABLE - TO BE RELOCATED BY OWNER
ST. 9' PAVED OULDER
C.J. (TYP.)
℄ 69
SLOPE
SLOPE
UNDERGROUND TEL. (TWIN 150 PAIR CABLES) TO BE RELOCATED BY OWNER.
EXIST. 9' PAVED SHOULDER
TOE DRAIN SEE DETAIL, SH. 45
TOE DRAIN INV. EL. 440.71
APPROX LOCATION OF UG ELECT CONDUITS TO BE RELOCATED BY OWNER
OTE: MONOLITH NO. 68 DELETED


STA. 840+02.50
MATCH LINE
STA. 841+42.50
TOP OF WALL
EL. 457.22
57
58
59
60
61
62


NOTE:
HIGH VOLTAGE ELECTRICAL LINES ARE ATTACHED TO CONVEYOR
℄ OVERHEAD ELECT LINES TO BE RELOCATED BY OWNER
℄ PIER
℄ PIER
EXISTING CONVEYOR STRUCTURE NEAR SIDE OF LEVEE
MONO. JT. STA. 843+81.17
PI STA 843+89.67
2' ∅ ABUT.
NO. 70 SPECIAL MONOLITH
17'-0"
15' T-WALL
8.50'
8.50'
3 MONOLITHS @ 20'-0"
15' T-WALL
16.89'
TOP OF WALL
EL. 457.21
70
71
72
73
74
SLOPE
APPROX LOCATION OF U/G ELECT. CONDUITS TO BE RELOCATED BY OWNER
TOE DRAIN INV EL. 440.71
TOE DRAIN INV EL 440.21
MANHOLE T-4
TOE DRAIN INV EL. 437.60



EXISTING GROUND LINE
SLOPE
TOE DRAIN SEE DETAIL, SH.45
E-E 46
C-C 46
FIN. GR.
EXIST 8' PAVED SHOULDER
C J (TYP)
UNDERGROUND TE (TWIN 150 PAIR CA TO BE RELOCATED BY
MANHOLE T-5
NOTE: MONOLITH NO 68 DE
TOE DRAIN INV. EL. 436.34
TOE DRAIN INV EL. 439.95
DRIVEWAY & FLINTKOTE CLOSURE STA. 845+05.83
NOTE: EXISTING CONVEYOR STRUCTURE CROSSES PROTECTION ABOVE CLOSURE - STA. 845+05.83
MATCH LINE PT STA 844+75.06
EQ STA 844+88.06 BK STA 844+81.33 AH
STA. 844+96.91
STA. 845+14.75
STA. 845+34.71
STA. 845+66.91 END LEVEE
GUARD RAIL, SEE SH. 47
TOP OF LEVEE & WALL EL. 457.20
8.58' SP MONO.
20' 0" 15' T-WALL
2'
CLEAR
13.85' (13'-10" CL.)
20' 15' T-WALL
10.5'
21.0'
1.5'
74
75
76
77
D-D 46
ABUT.
CLOSURE SILL EL. 442.6
EL. 447.20
EL. 445.20
EL. 451.20
EL. 456.20
EL. 442.20
EL. 438.20
EL. 434.20
EL. 430.20
A' 47
INV. EL. 437.87
MANHOLE T-4
TOE DRAIN SEE DETAIL, SH 45
1'-6" EXTEND CONC. IN I-WALL TO BASE OF SHEET PILING
TOE DRAIN INV. EL. 437.87
21 PZ 27
10 PMA-22 STEEL SHEET PILING
I-WALL WITH STEEL SHEET PILING

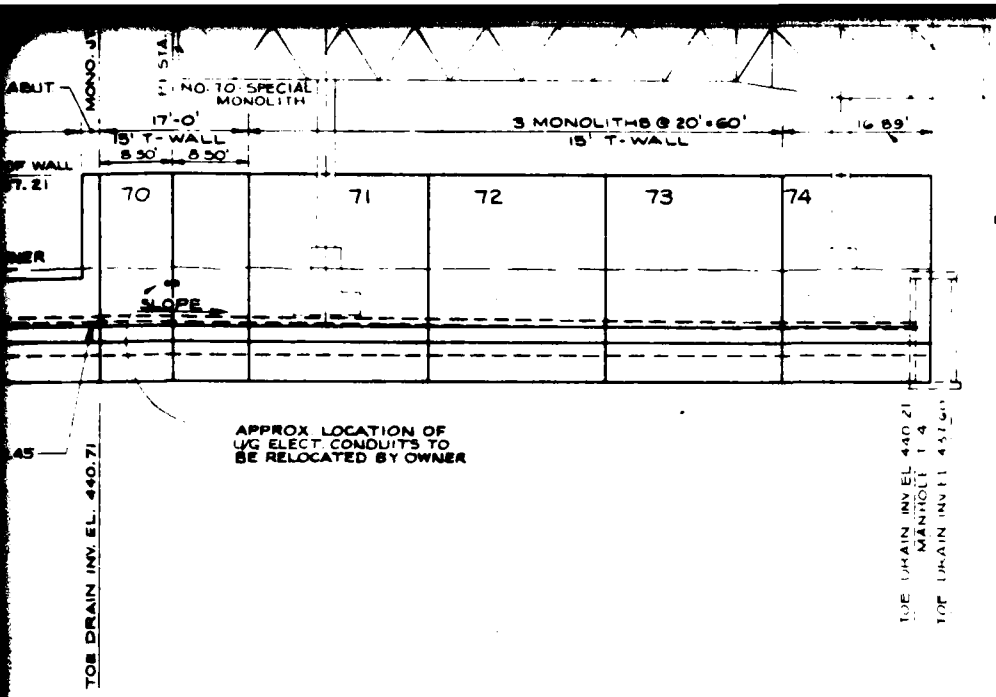


PROFILE

(RIVERSIDE)

10 0 10 20 FT.

1 5



REVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: J.M.B.
DRAWN: C.E.R. TRACED:
CHECKED: M.A.R.
SUBMITTED: John J. Baker
SCALE: AS SHOWN

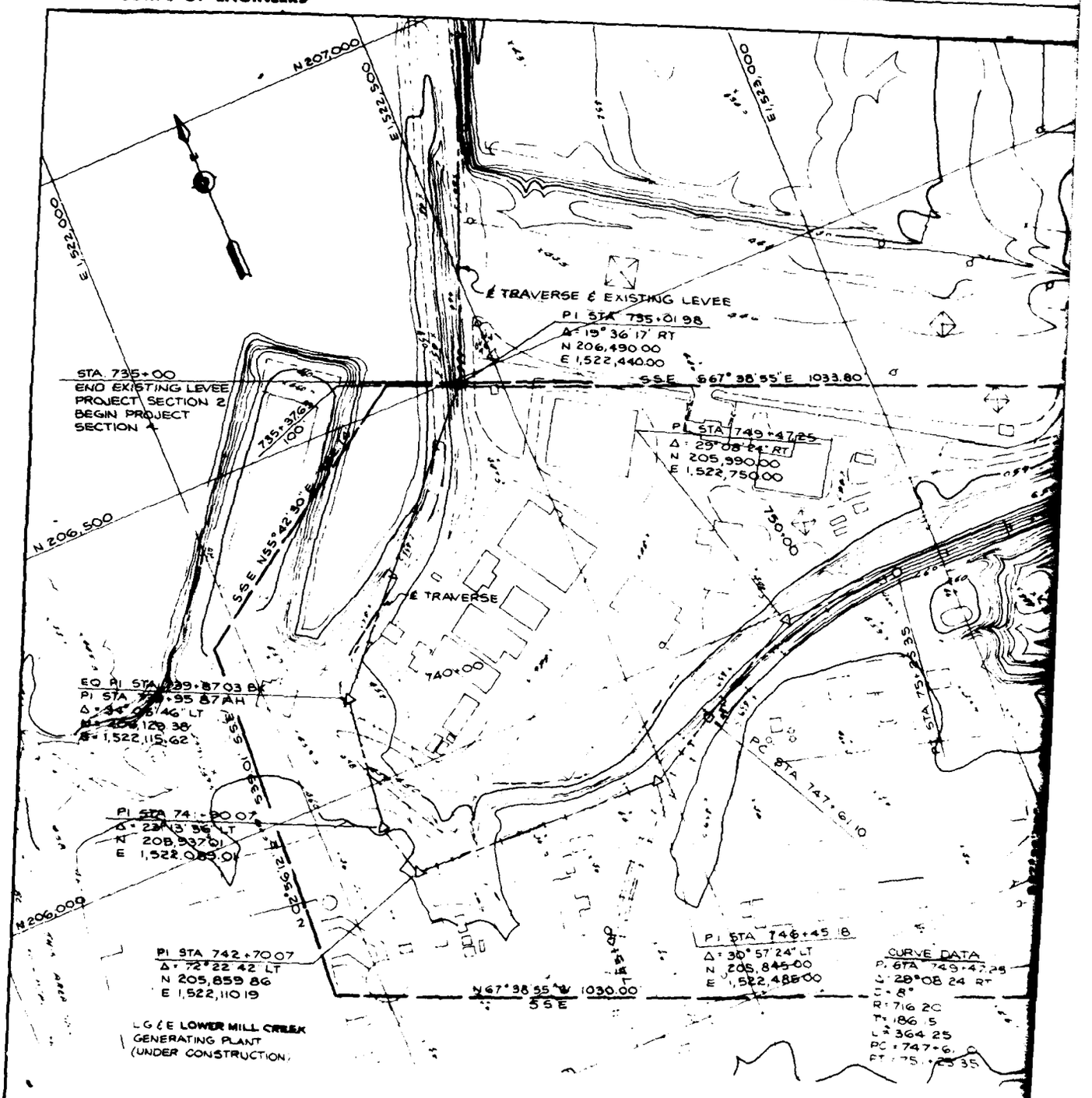
SOUTHWESTERN JEFFERSON COUNTY, KY.
LOCAL FLOOD PROTECTION
SECTION-4
RIVERSIDE ELEVATIONS
WALL MONOLITHS
SHEET 2 OF 2

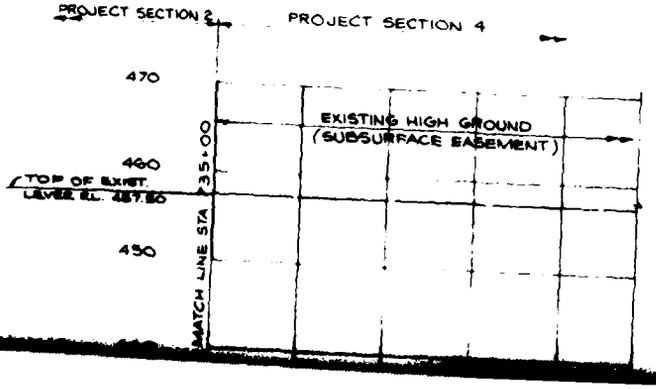
DATE: AUG. 82

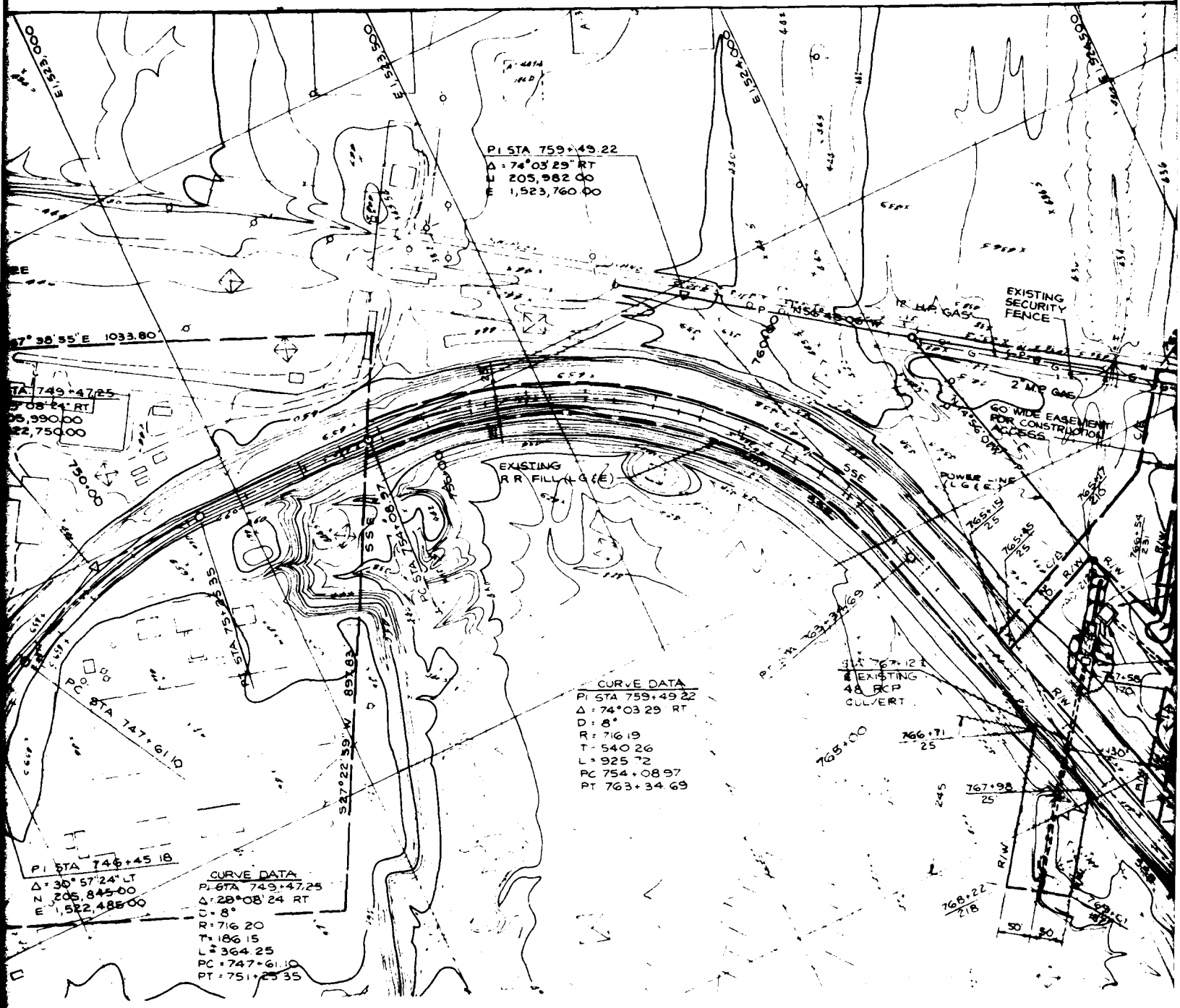
PLATE 11

DRAWING NUMBER
616-12.10/18

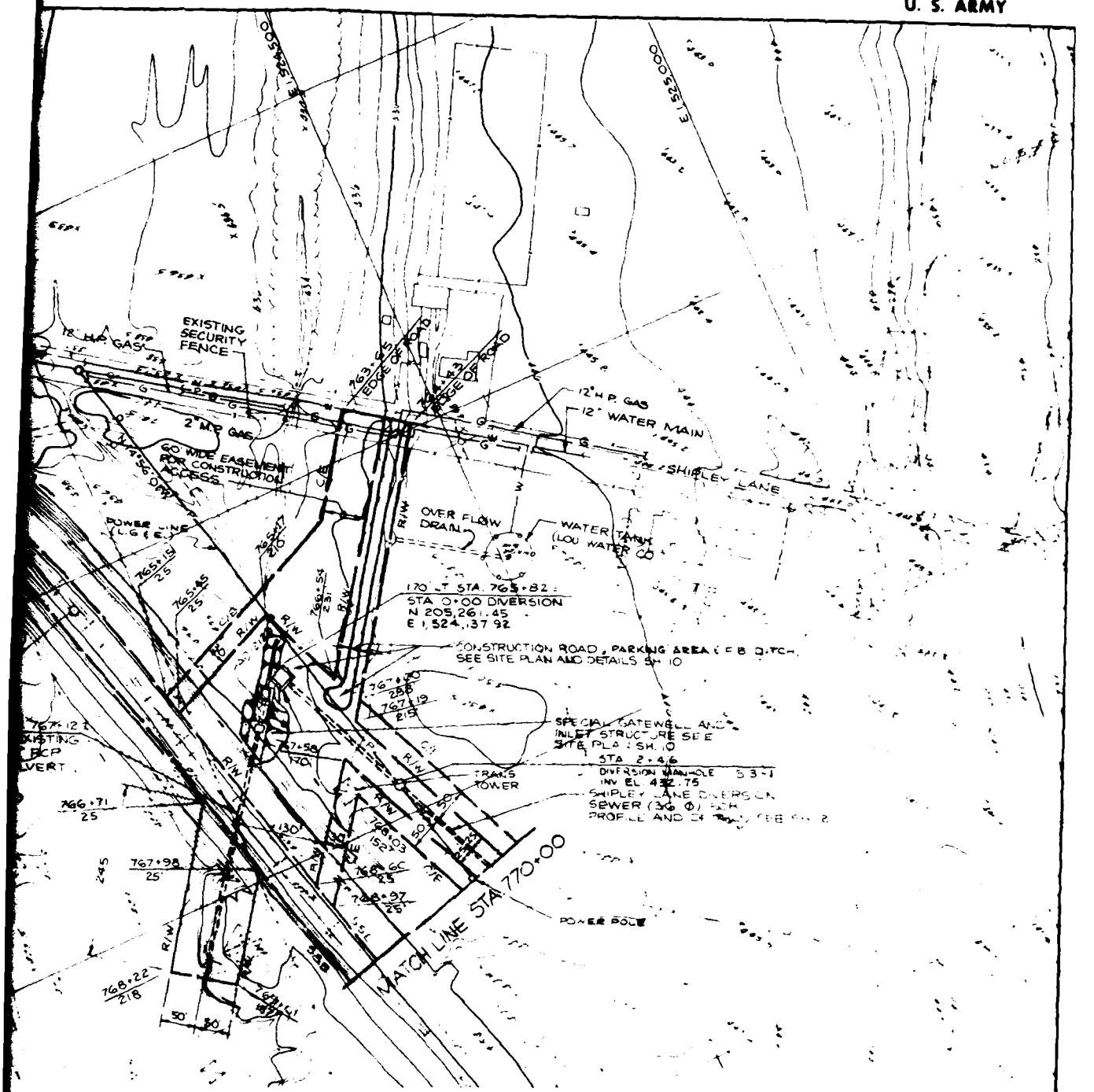
CORPS OF ENGINEERS






PI STA 759+49.22
Δ = 74°03'29" RT
N 205,982.00
E 1,523,760.00
EXISTING SECURITY FENCE
18 IN. GAS
2 IN. GAS
60' WIDE EASEMENT FOR CONSTRUCTION ACCESS
EXISTING R R FILL (LG&E)
POWER LG&E LINE
EXISTING 48" RCP CULVERT
CURVE DATA
PI STA 759+49.22
Δ = 74°03'29" RT
D = 8°
R = 716.19
T = 540.26
L = 925.72
PC 754+08.97
PT 763+34.69
PI STA 746+45.18
Δ = 30°57'24" LT
N 205,845.00
E 1,522,485.00
CURVE DATA
PI STA 749+47.25
Δ = 28°08'24" RT
D = 8°
R = 716.20
T = 186.15
L = 364.25
PC = 747+61.10
PT = 751+25.35
PC STA 747+61.10
PT STA 751+25.35
S22°22'39"W 897.83
S 55 E
1523,000
1524,000
1525,000
N 76,000
N 75,000
S 38°55'E 1033.80'
750.00
765+00
766+71
25
767+98
25
768+22
2.18
765+19
25
765+85
25
766+54
25
767+58
120
PLAN
100 0 100 200 FT
EXISTING HIGH GROUND (SUBSURFACE EASEMENT)
EXISTING 48 RCP

U. S. ARMY



NOTES

1. SURVEY AND SUBSURFACE EASEMENT DATA PROVIDED ON THIS DRAWING ARE FOR INFORMATION AND RECORD. CONTRACT WORK ILLUSTRATED ON THIS SHEET IS THE EXTENSION OF THE EXISTING DRAINAGE STRUCTURE AT STATION 767+12 CONSTRUCTION OF A GATEWELL AND SHIPLEY LANE DIVERSION SEWER WITH APPURTENANCES. THIS CONTRACT ALSO INCLUDES CONSTRUCTION OF AN ACCESS ROAD FROM SHIPLEY LANE WHERE SHOWN.

2. CONTRACTOR SHALL RESTORE ALL SECURITY FENCING REMOVED DURING CONSTRUCTION AND MAINTAIN SECURITY BY TEMPORARY FENCING AT ALL TIMES TO ADJACENT L G & E PROPERTY DURING CONSTRUCTION PERIOD.

N206,000

PI STA 742+70.07
Δ = 72°22 42 LT
N 205,859 86
E 1,522,110 19

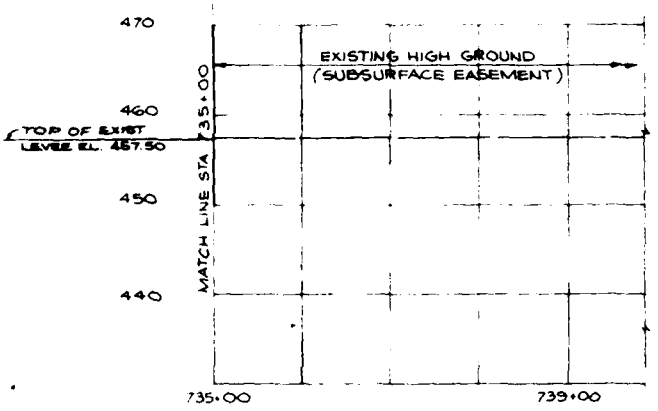
L G & E LOWER MILL CREEK
GENERATING PLANT
UNDER CONSTRUCTION

N67°38 55"W 1030.00
S S E

PI
Δ = 30° 57' 24" LT
N 205,845 00
E 1,522,485 00

CURVE DATA
PI STA 749+47.25
Δ = 28°08 24 RT
D = 8°
R = 716 20
T = 186 15
L = 364 25
PC = 747+61.10
PT = 751+25 35

PROJECT SECTION 3 — PROJECT SECTION 4



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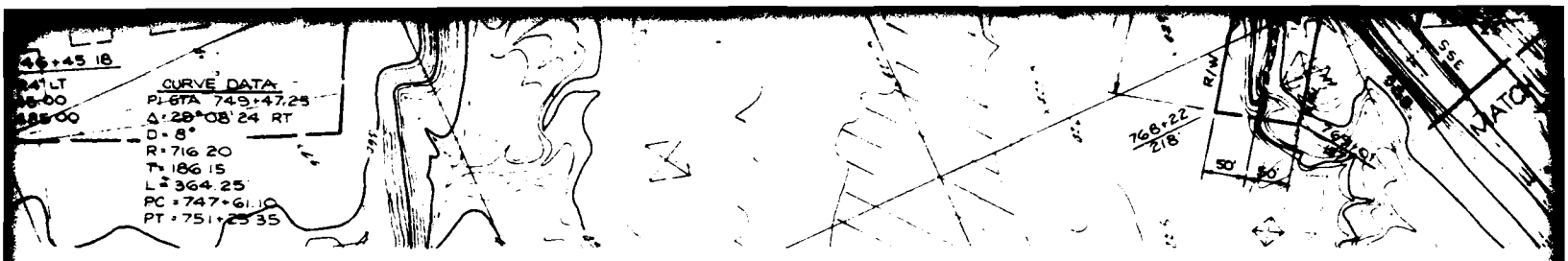
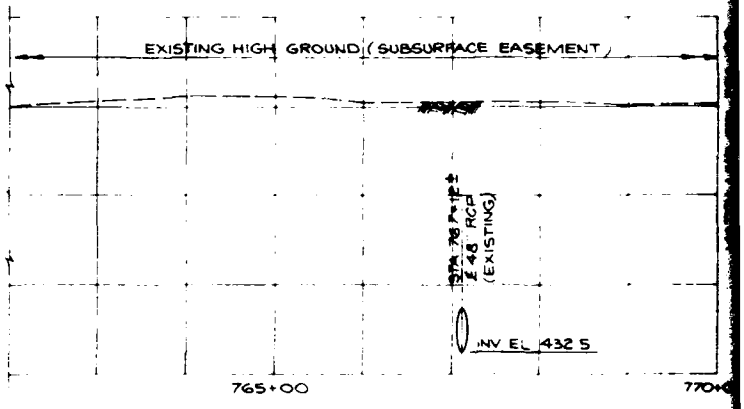


PLAN

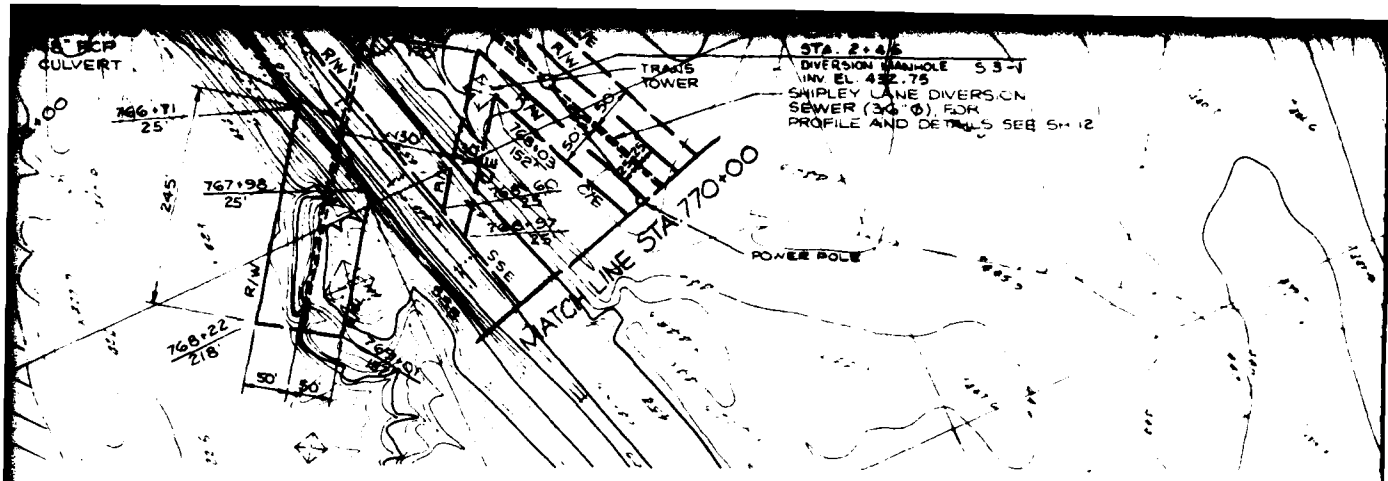
100 0 100 200 FT

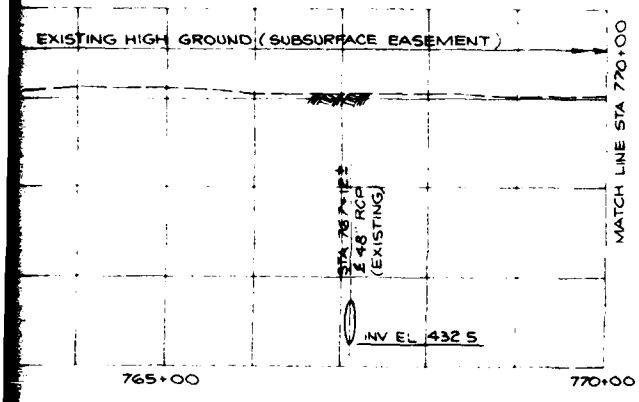


PROFILE

SCALE : HORIZ 1" = 100' 100 0 100 200 FT

VERTICAL 1" = 10' 10 0 10 20 FT





1" = 100' 100 0 100 200 FT

1" = 10' 10 0 10 20 FT

NOTES:

1. SURVEY AND SUBSURFACE EASEMENT DATA PROVIDED ON THIS DRAWING ARE FOR INFORMATION AND RECORD. CONTRACT WORK ILLUSTRATED ON THIS SHEET IS THE EXTENSION OF THE EXISTING DRAINAGE STRUCTURE AT STATION 767+12±, CONSTRUCTION OF A GATEWELL, AND SHIPLEY LANE DIVERSION SEWER WITH APPURTENANCES. THIS CONTRACT ALSO INCLUDES CONSTRUCTION OF AN ACCESS ROAD FROM SHIPLEY LANE WHERE SHOWN.
2. CONTRACTOR SHALL RESTORE ALL SECURITY FENCING REMOVED DURING CONSTRUCTION AND MAINTAIN SECURITY BY TEMPORARY FENCING AT ALL TIMES TO ADJACENT L G & E. PROPERTY DURING CONSTRUCTION PERIOD.

REVISION	DATE	DESCRIPTION	BY	APP'D

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

DESIGNED: Michel
DRAWN: KLH
TRACED: KLH
CHECKED: MAR
SUBMITTED:
SCALE: AS SHOWN
DATE: AUG 82

SOUTHWESTERN JEFFERSON COUNTY, KY. LOCAL FLOOD PROTECTION

SECTION-4

PLAN & PROFILE

STA 735+00 TO STA. 770+00

PLATE 12

DRAWING NUMBER
616-12.10/5

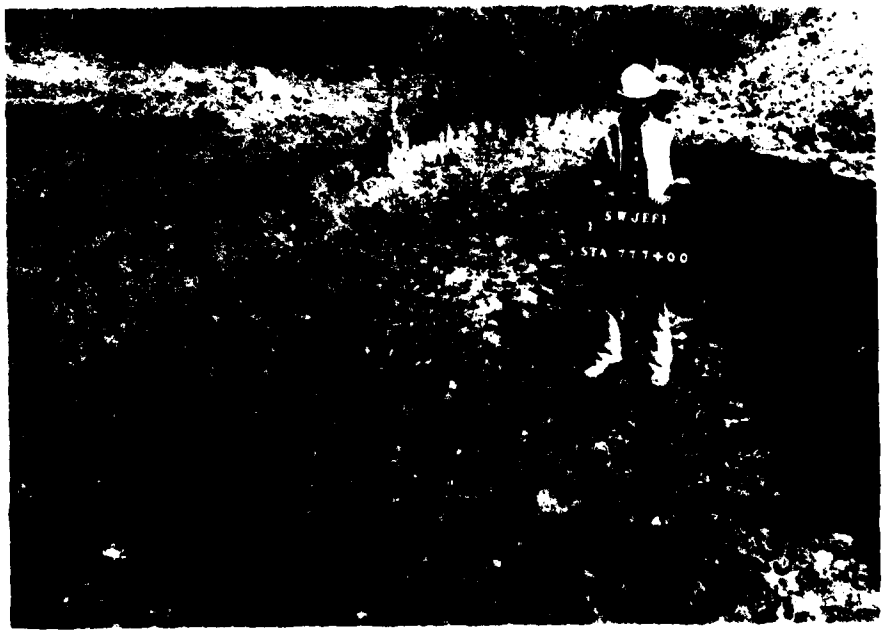
STA 775+50 ±

STA 776+00 ±

STA 777+00

STA 777+00 ±

STA 777+00 ±

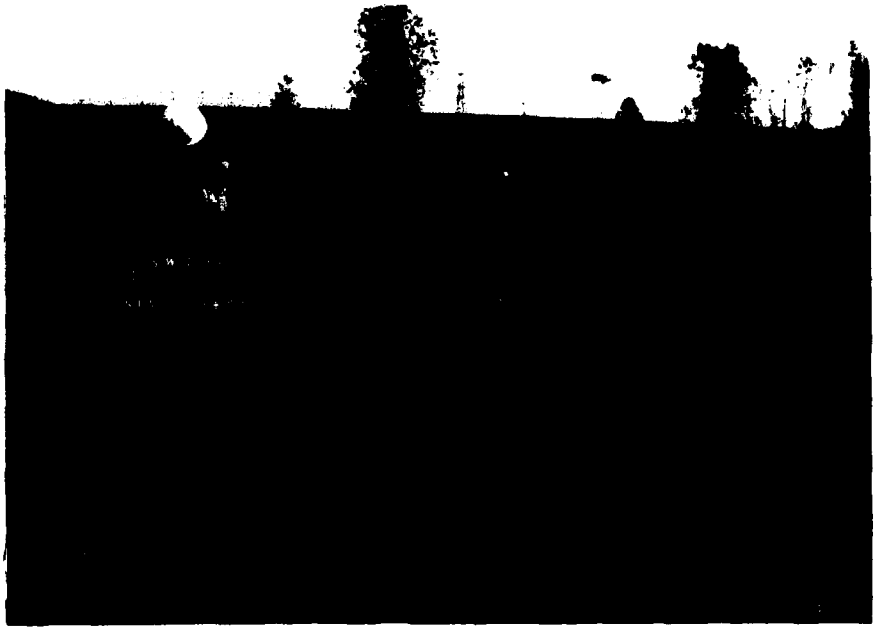


STA 777+00

STA 777+00

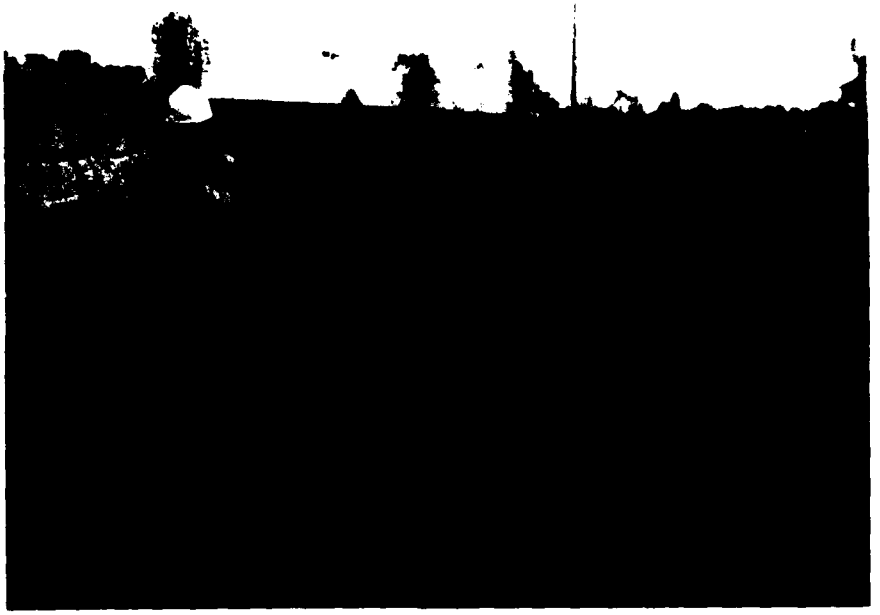
STA 778+00

STA 778+00

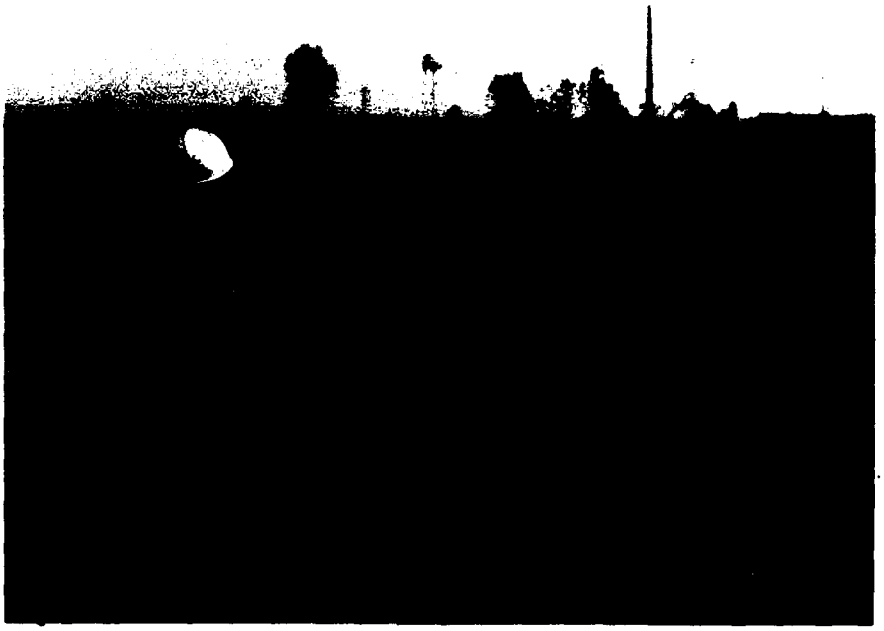


STA 779+00

STA 780+00

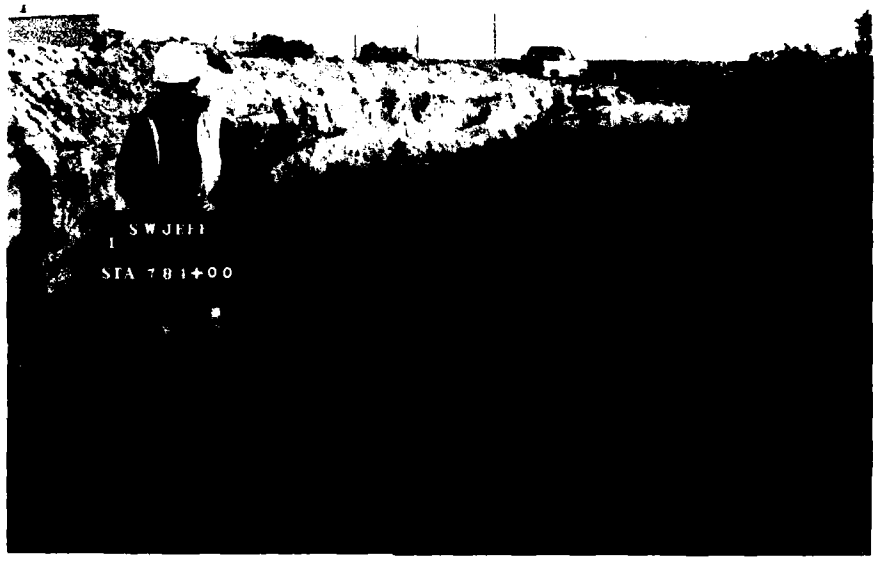


STA 781+00

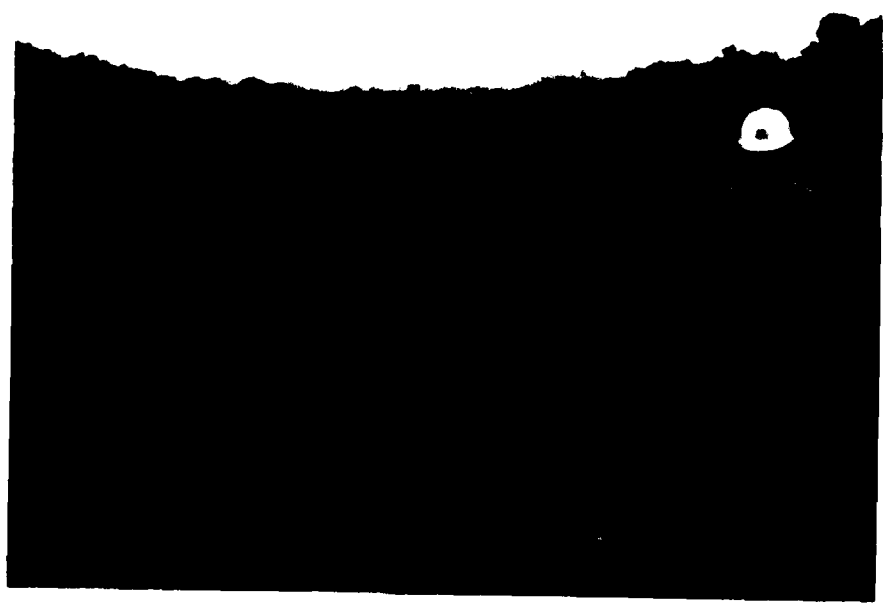


STA 782+00

STA 783+00



STA 784+00



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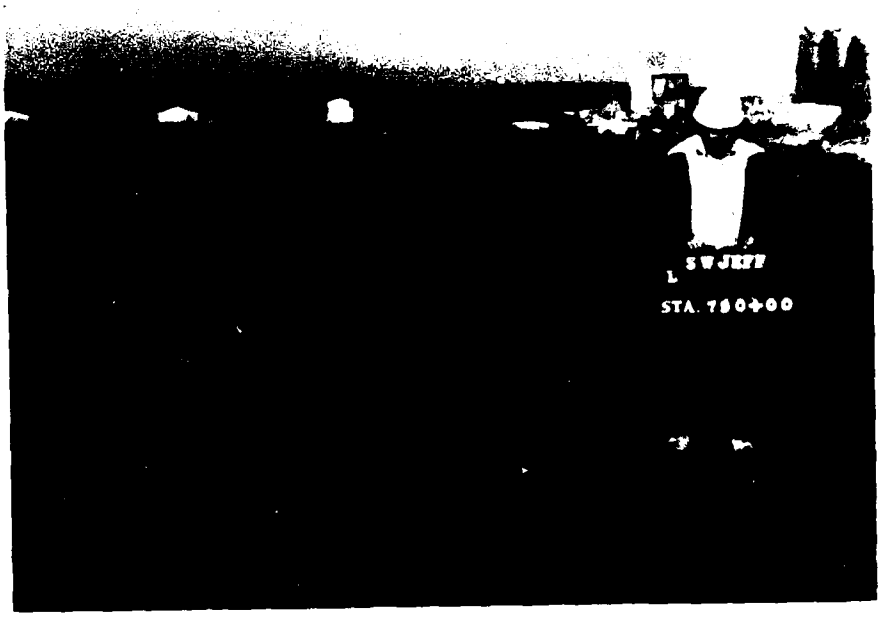
STA 786+00

STA 787+00

STA 788+00

STA 789+00

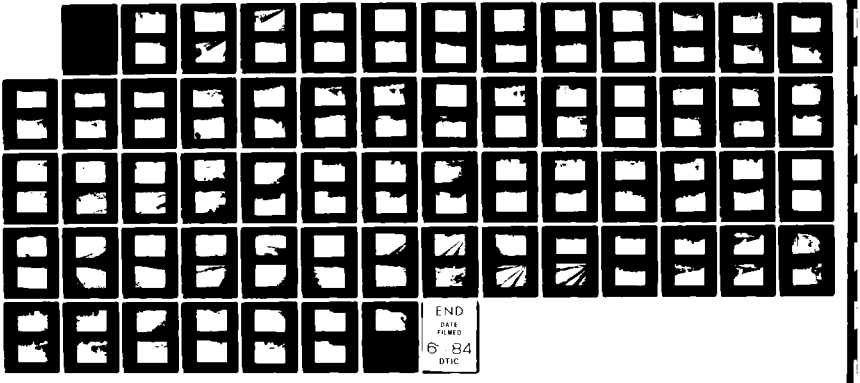


STA 790+00

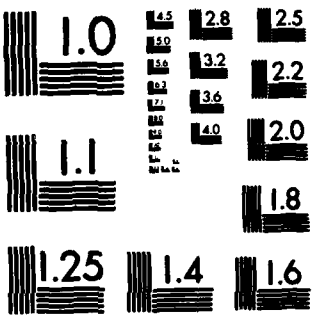
STA 790+00

AD-A140 388 FLOOD PROTECTION SECTION 4 OHIO RIVER SOUTHWEST JEFFERSON COUNTY KENTUCKY..(U) ARMY ENGINEER DISTRICT LOUISVILLE KY G FITZGERALD APR 84 ORLCD-1-84 2/2

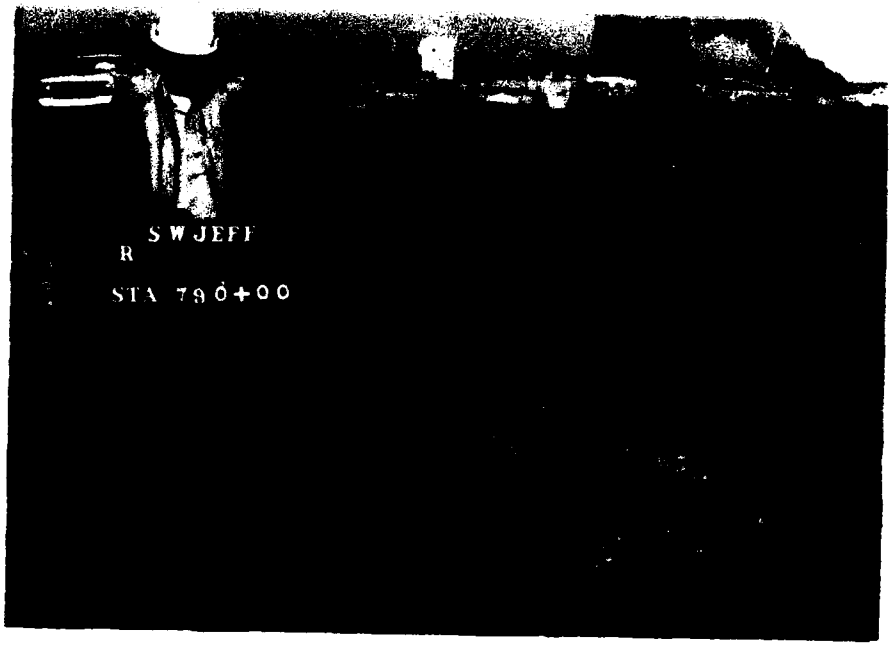
UNCLASSIFIED F/G 13/2 NL



END
DATE FILMED
6 84
DTIC

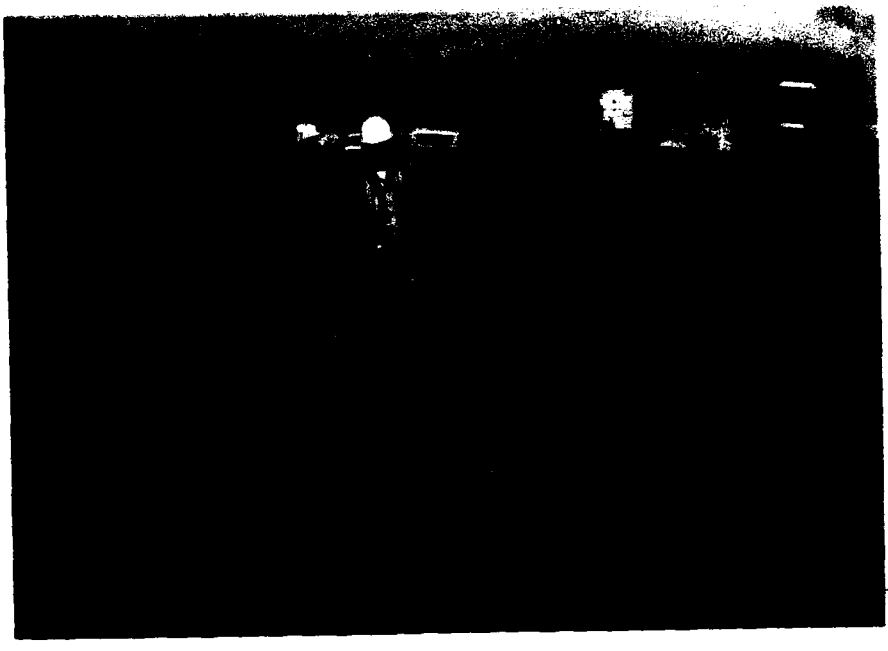


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



STA 790+00

STA 791+00



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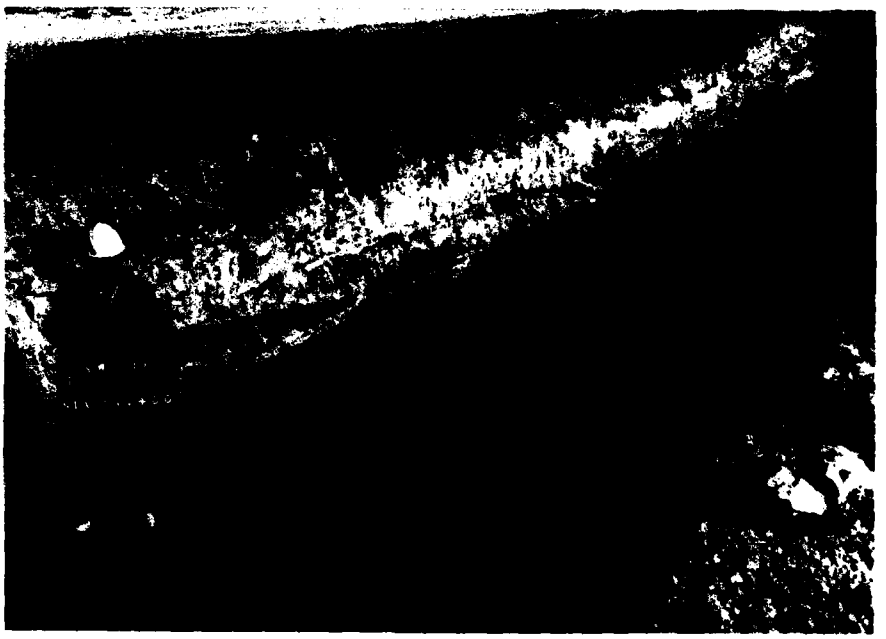

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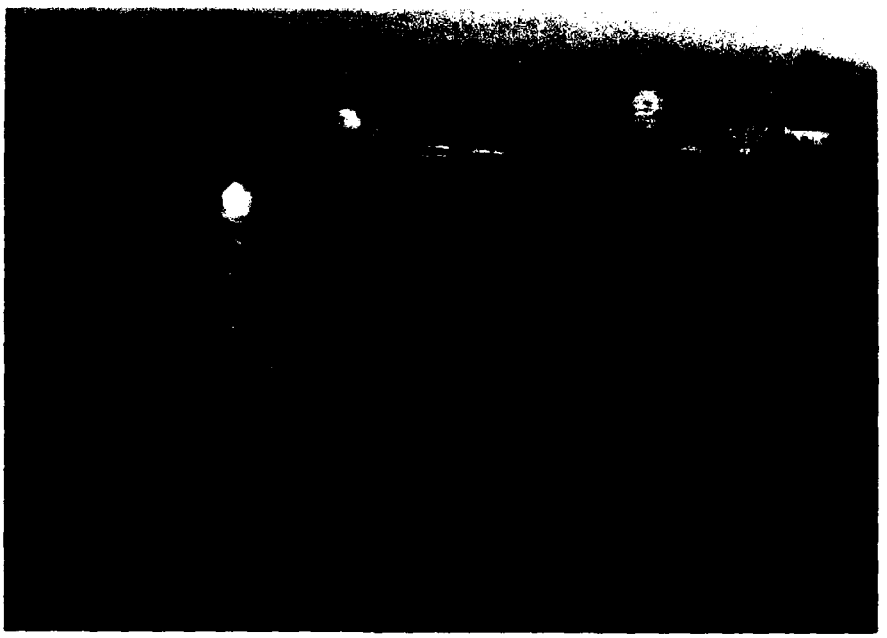

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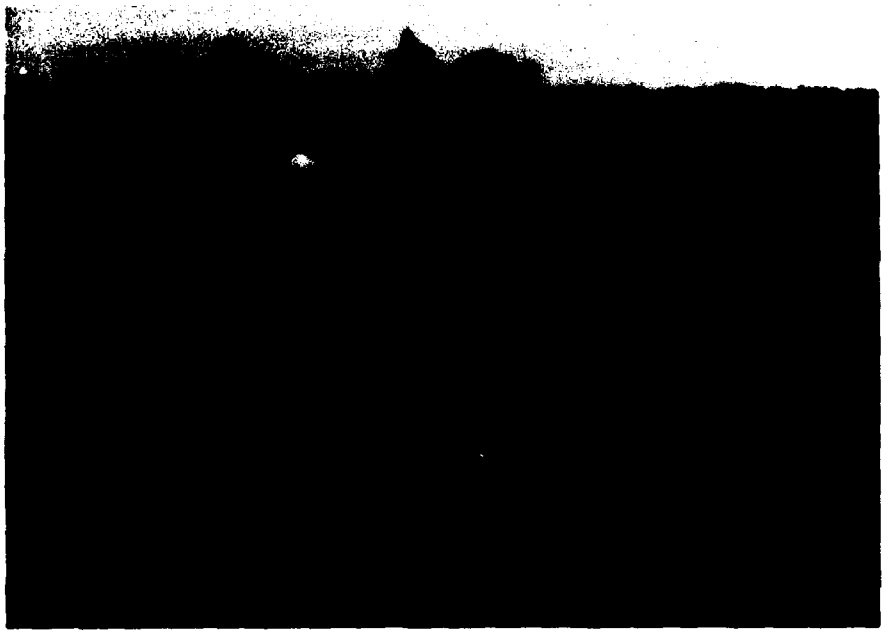
STA 794+00



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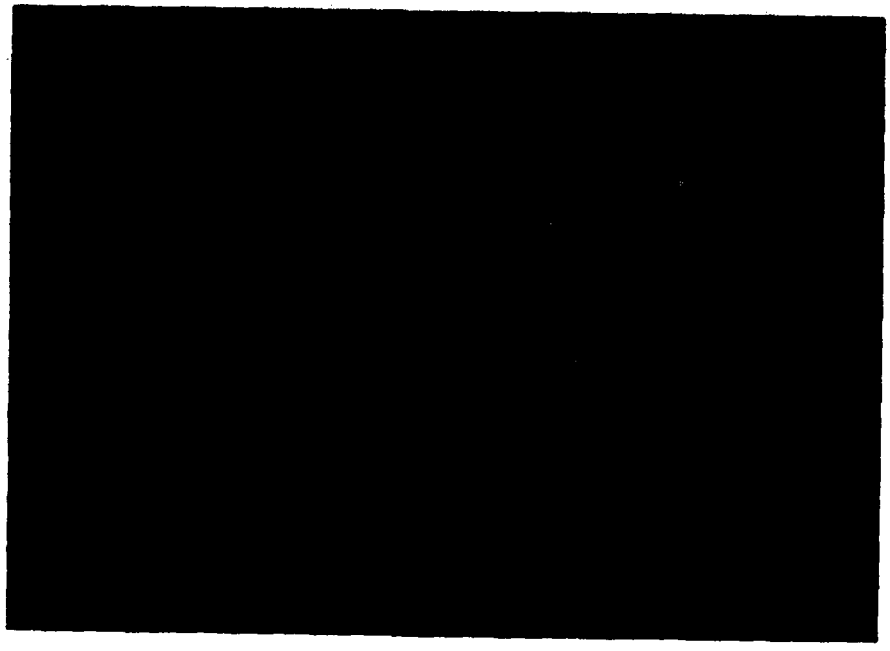
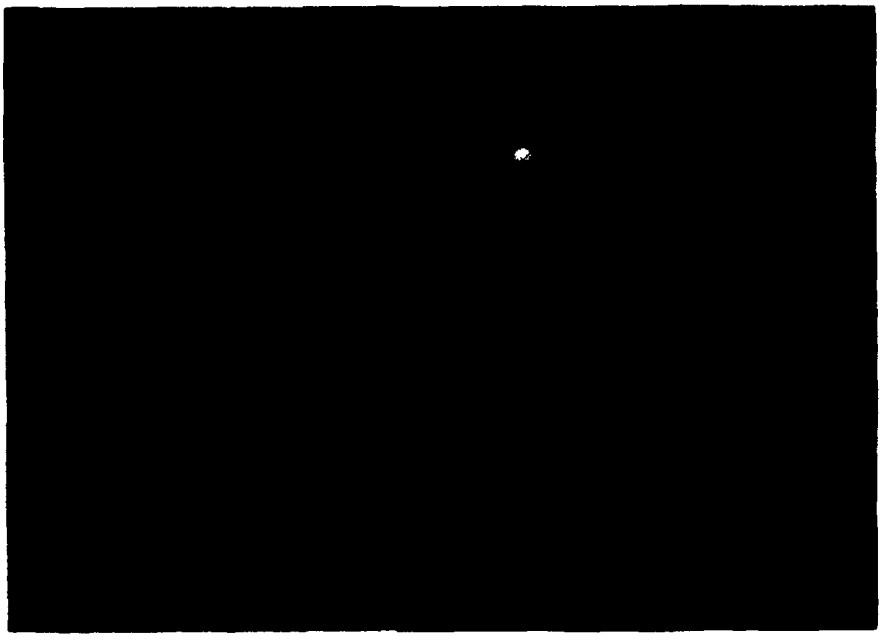


STA 795+00

STA 795+00



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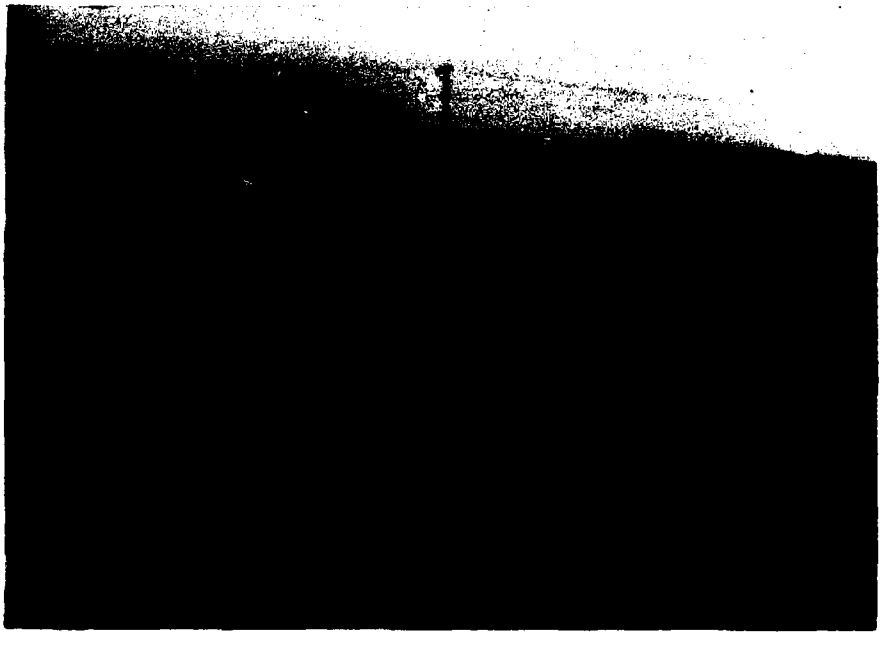
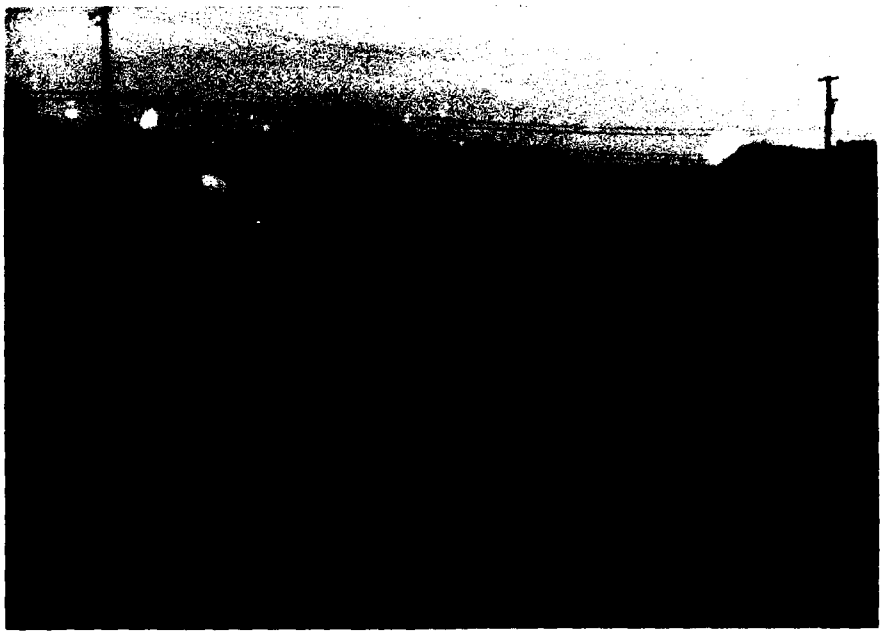


STA 796+00

STA 797+00



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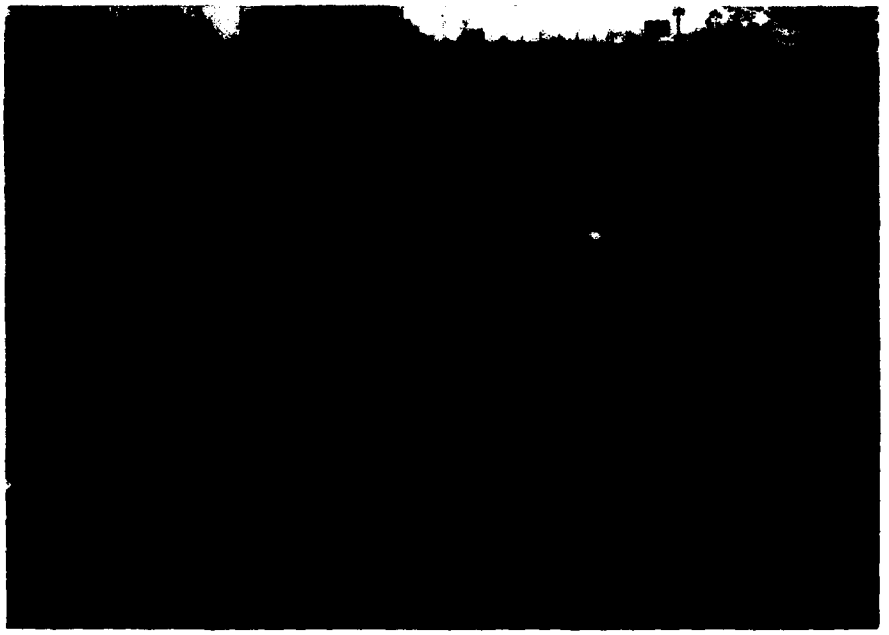
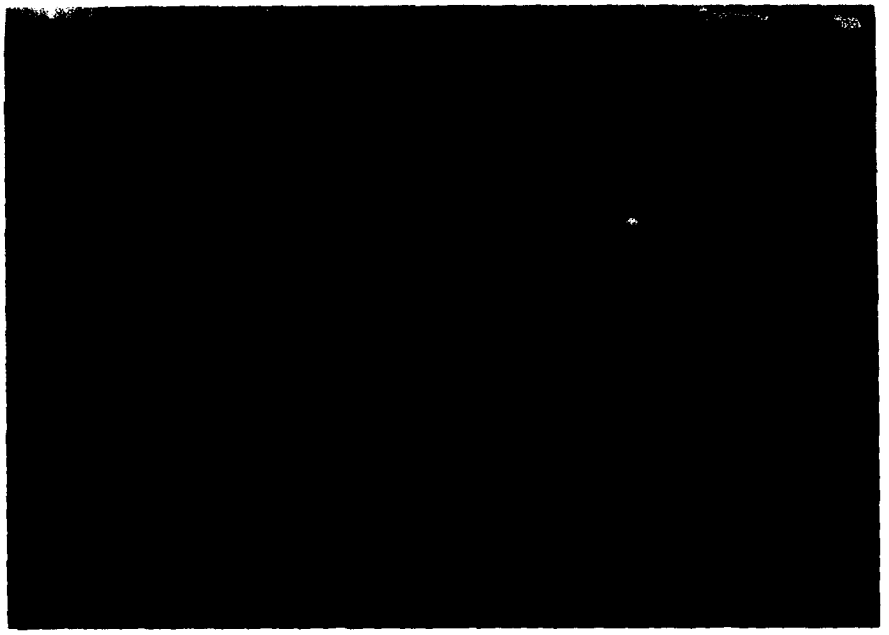


STA 798+00

STA 798+00

STA 799+00



STA 810+00

STA 811+00

STA 811+00

STA 811+50

STA 812+00

STA 812+00

STA 813+00

STA 813+00

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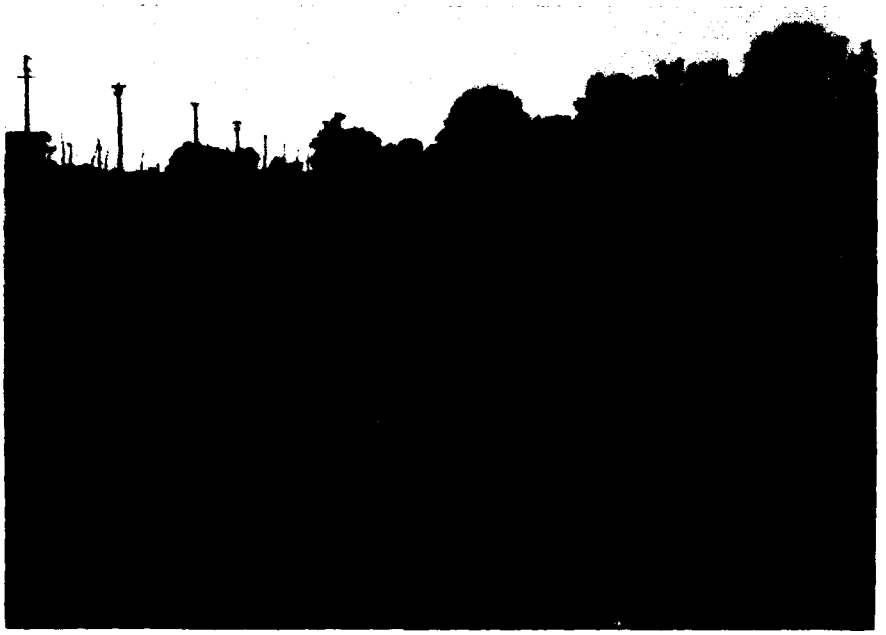
STA 815+00

STA 810+00

STA 816+00

STA 817+00



STA 817+00 ±

STA 817+00

STA 818+00

STA 818+00

STA 819+00

STA 819+00

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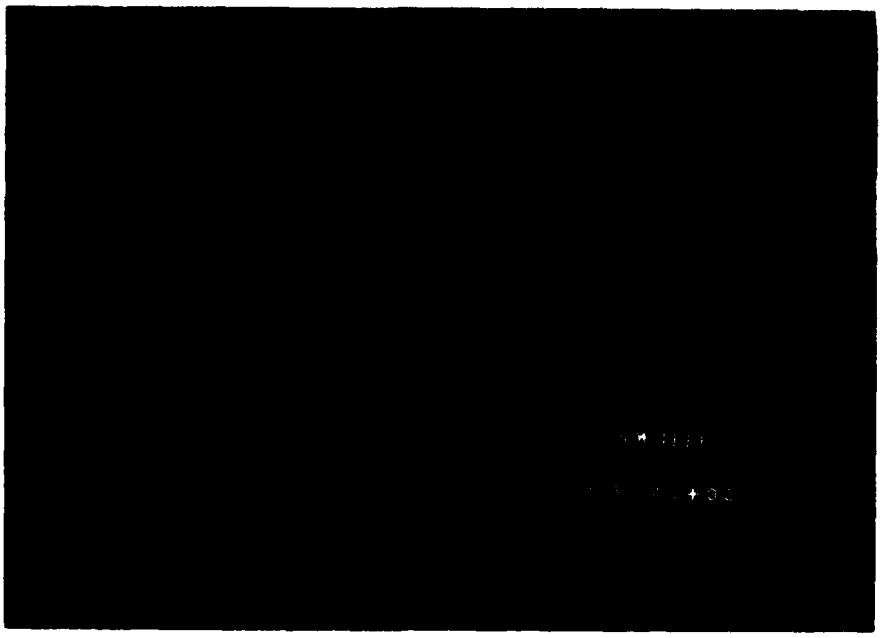
STA 820+00

STA 820+00

STA 820+00

STA 821+00

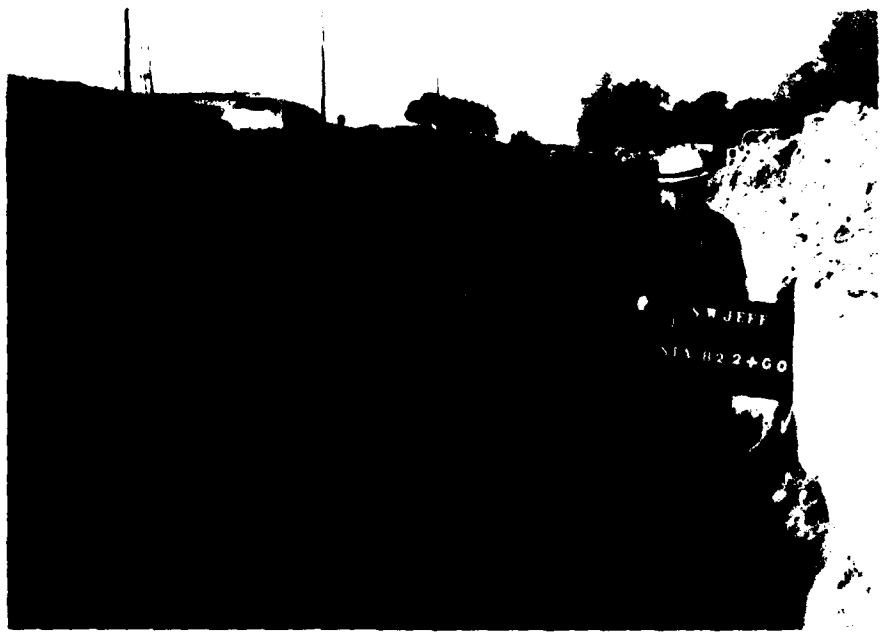
STA 821+00



STA 821+00

STA 822+00

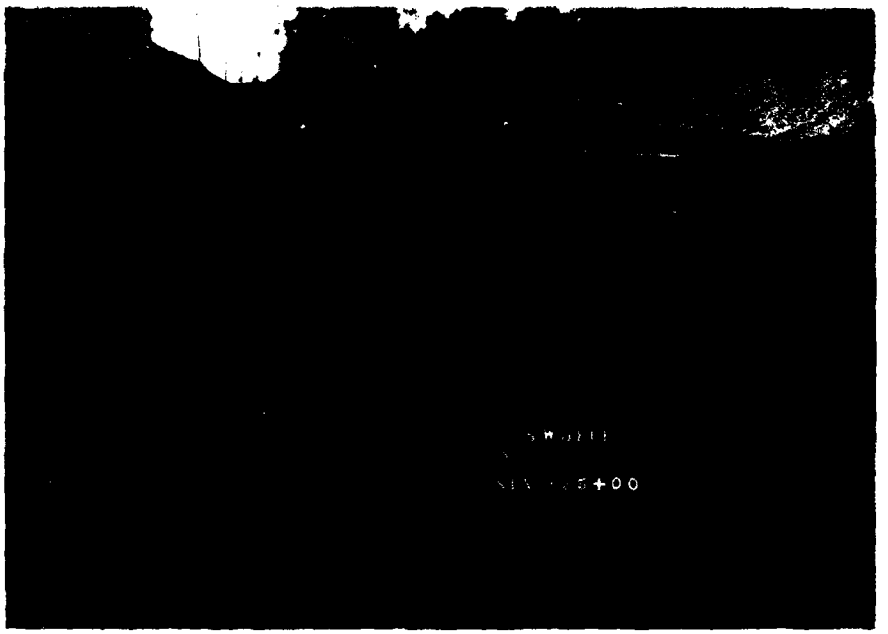
STA 822+00



STA 822+00

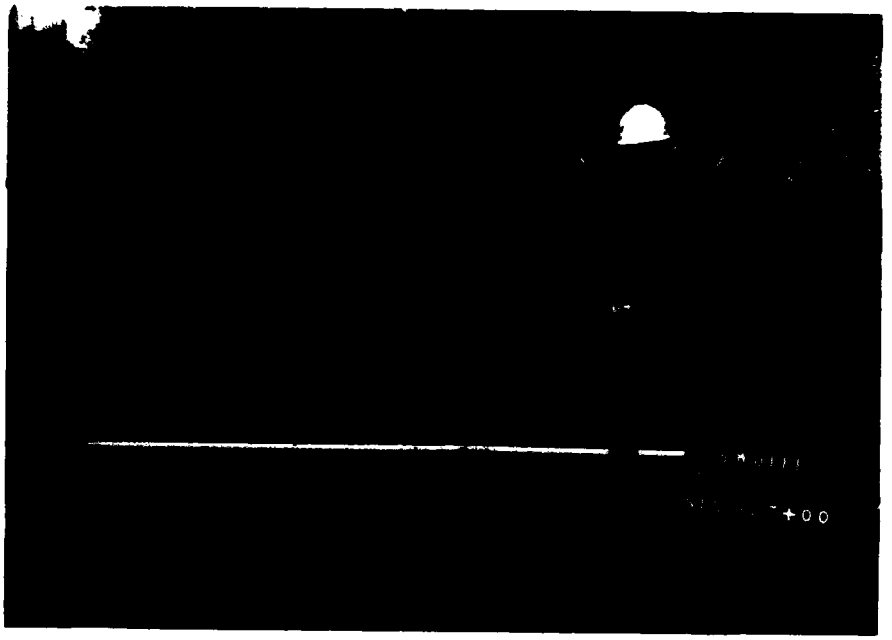
STA 823+00

STA 823+00

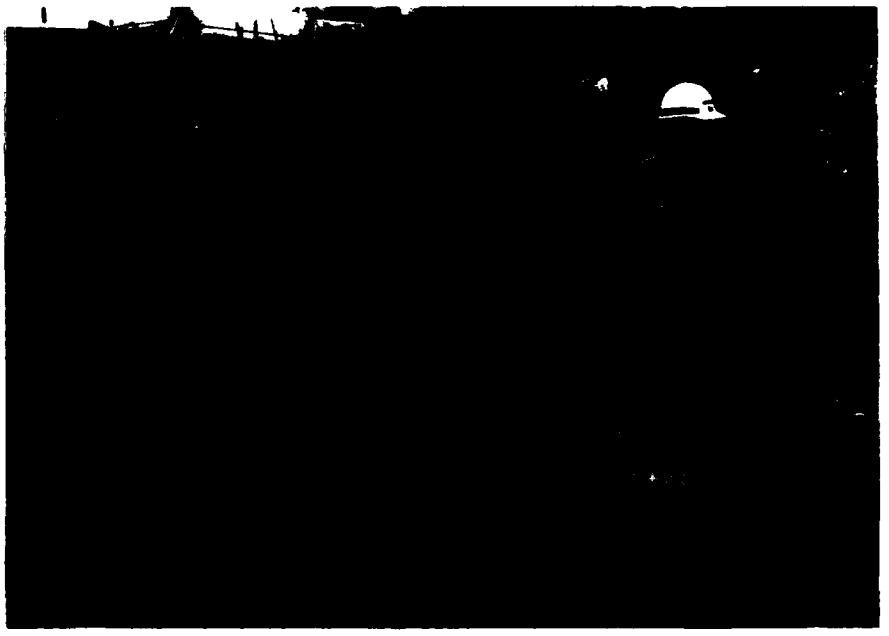


STA 825+00

STA 826+00



STA 827+00



STA 828+00

STA 829+00

BACKFILL AT T-50

UNSUITABLE MATERIAL
TO BE REMOVED (T-50)

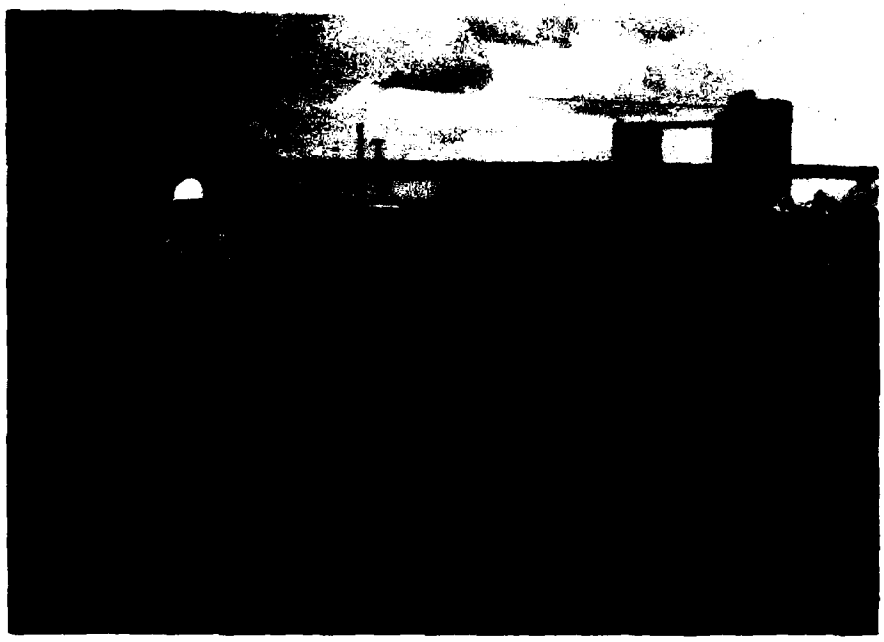
UNSUITABLE MATERIAL
TO BE REMOVED (T-50)

EXCAVATION FOR WALL
(T-50)

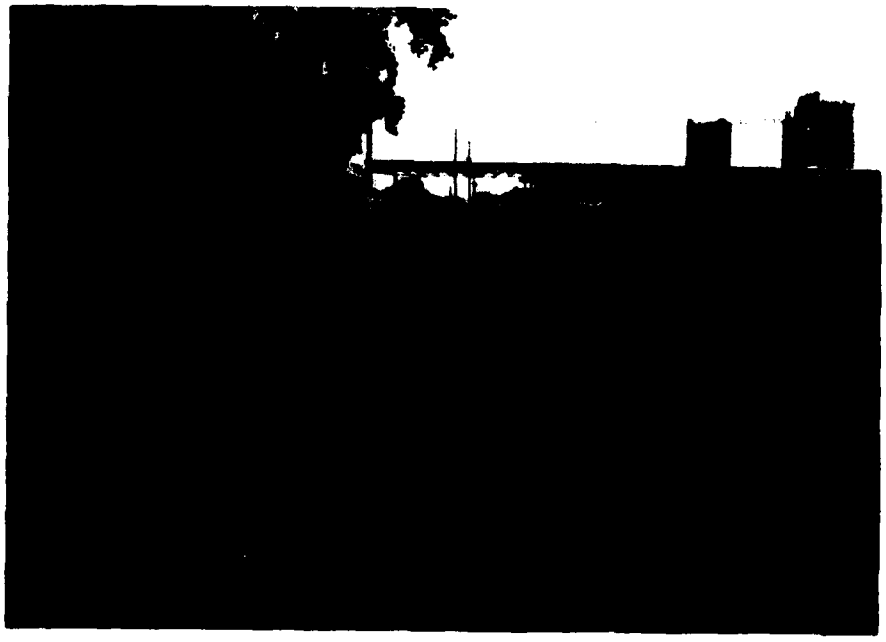
EXCAVATION FOR WALL
(T-50)

STA 823+00

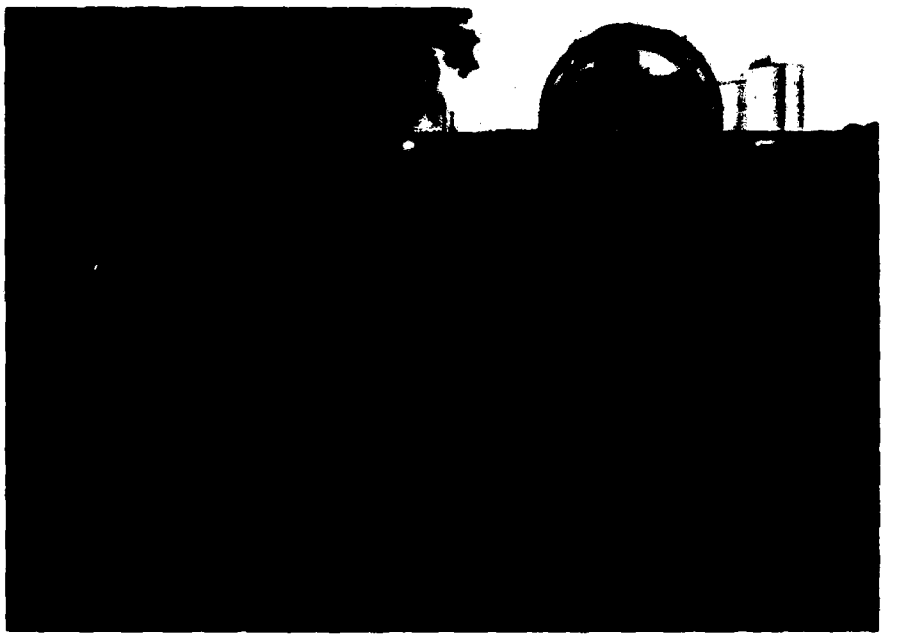
STA 824+00



STA 825+00

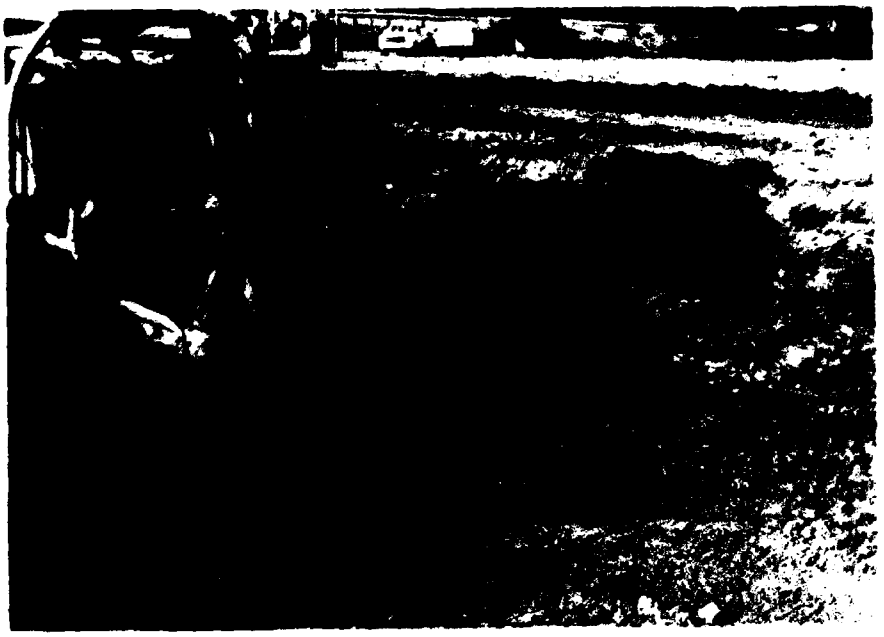


STA 826+00

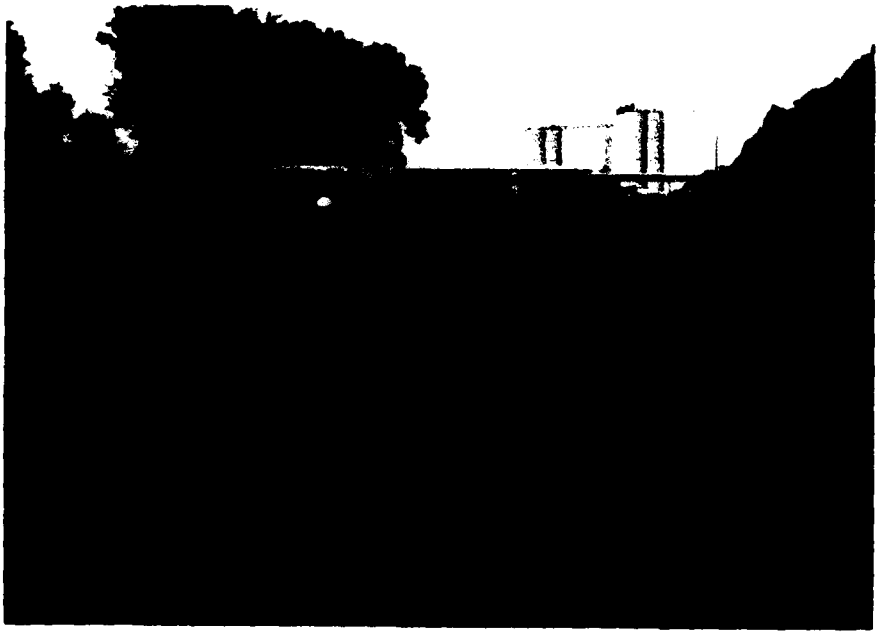


STA 827+00

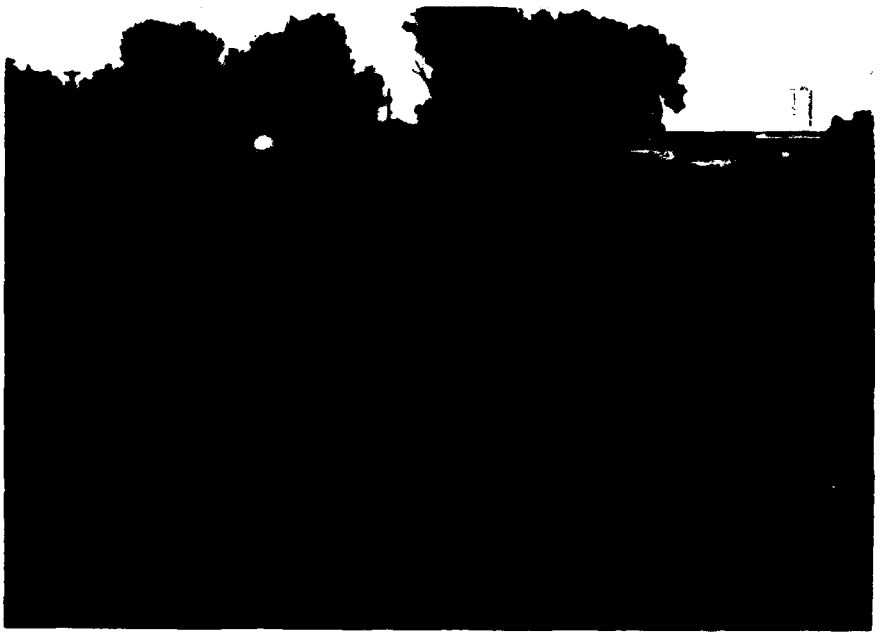
STA 828+00



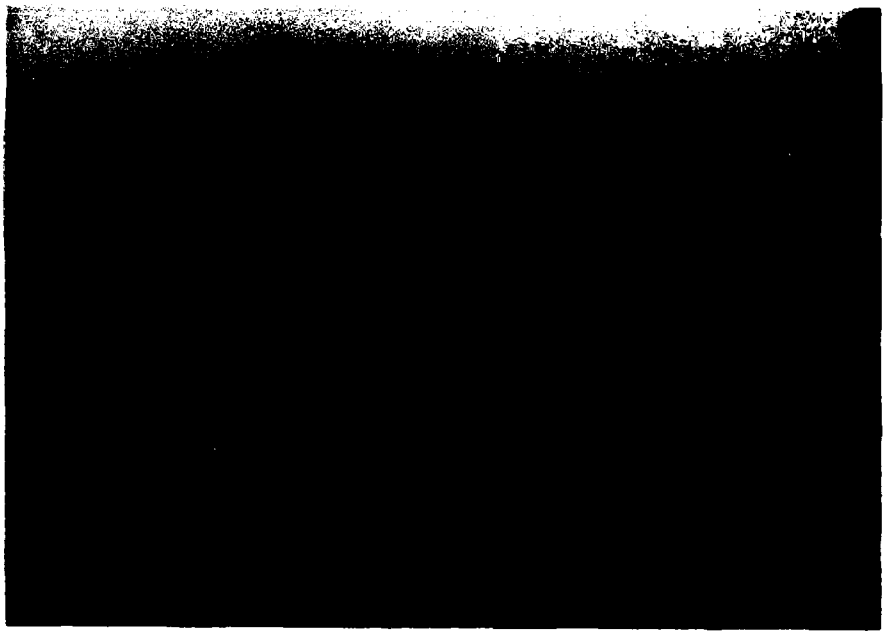
UNSUITABLE MATERIAL
STA 828+50



STA 829+00



STA 830+00

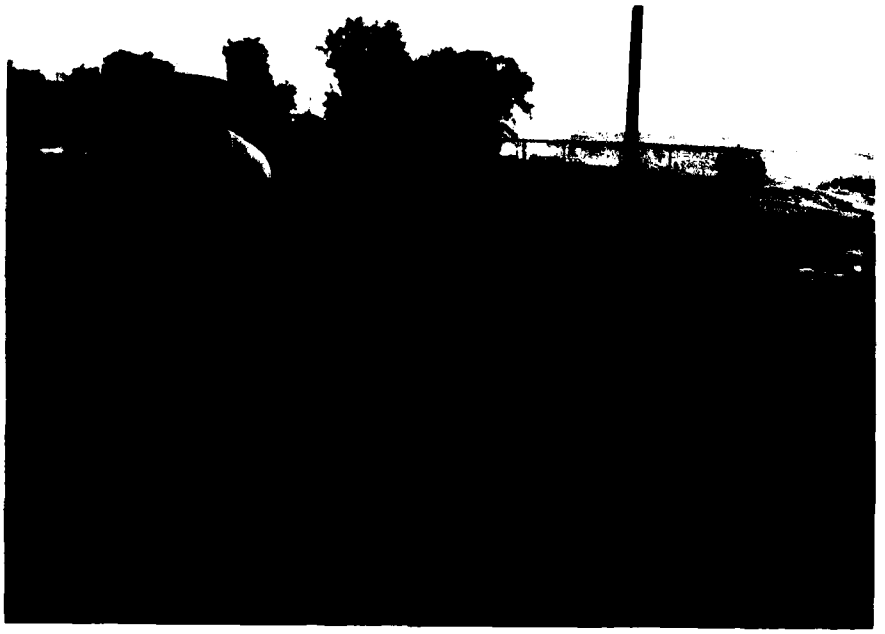


STA 830+00

STA 831+00

STA 831+00

STA 832+00



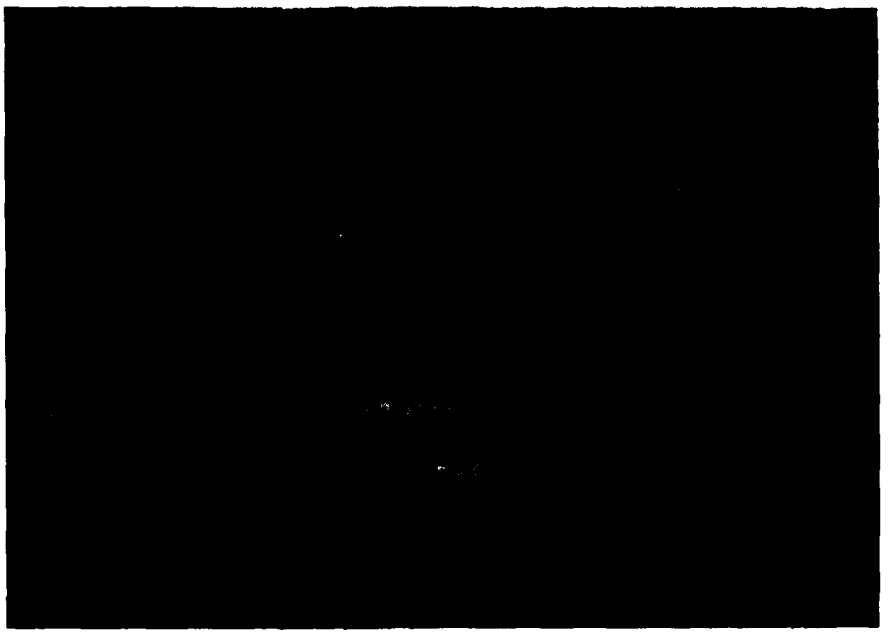
STA 832+00

STA 832+00

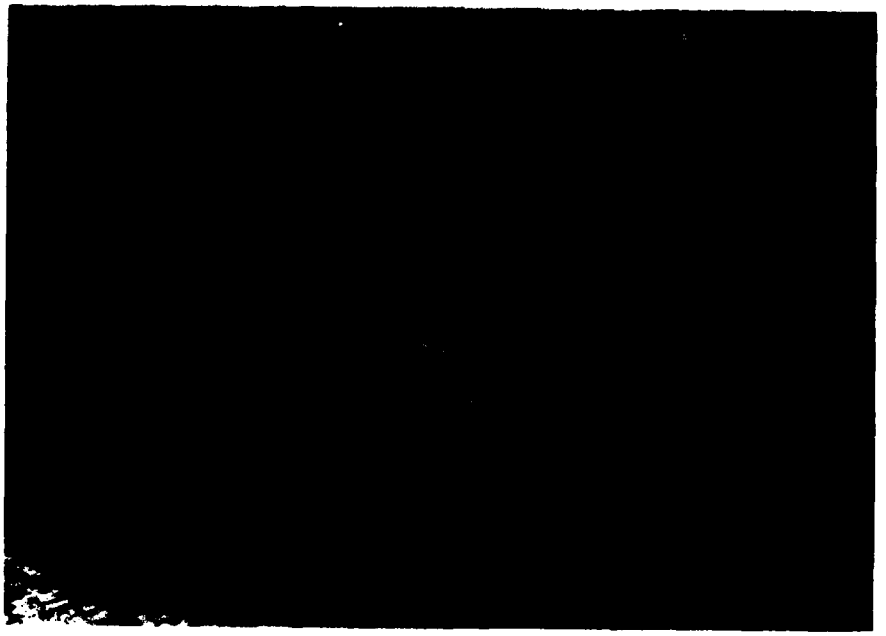
STA 833+00

STA 833+00

STA 833+00



STA 834+00



STA 835+00

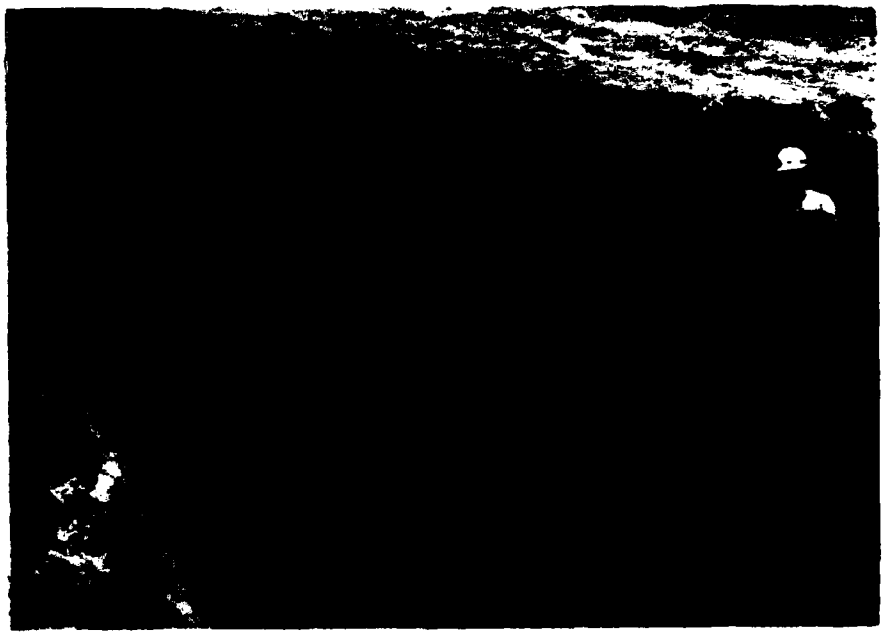
STA 835+00

STA 836+00

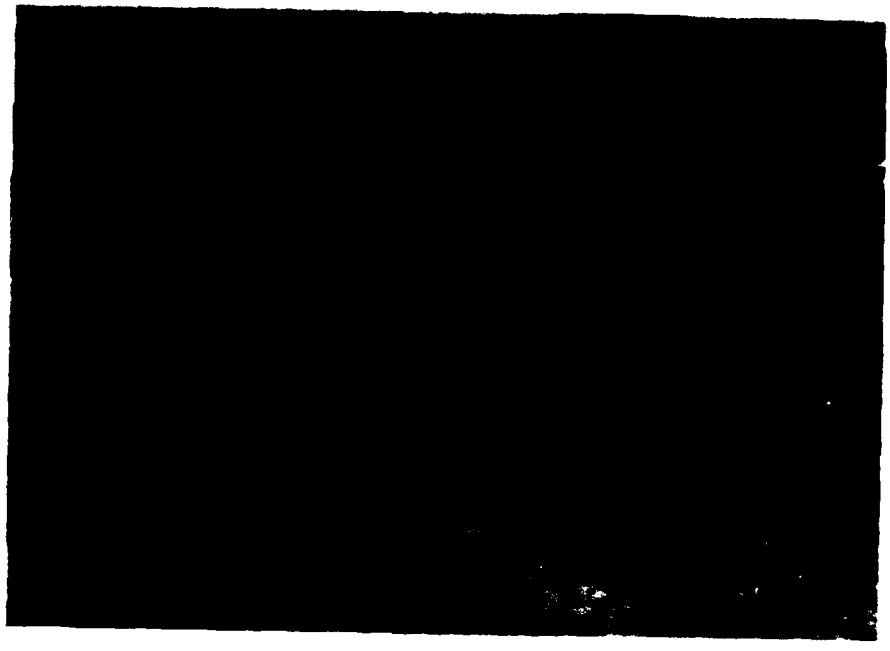
STA 836+00

STA 837+00

STA 837+00



STA 838+00



STA 838+00

STA 839+00

STA 840+00

STA 841+00

STA 841+00

STA 842+00

STA 842+00

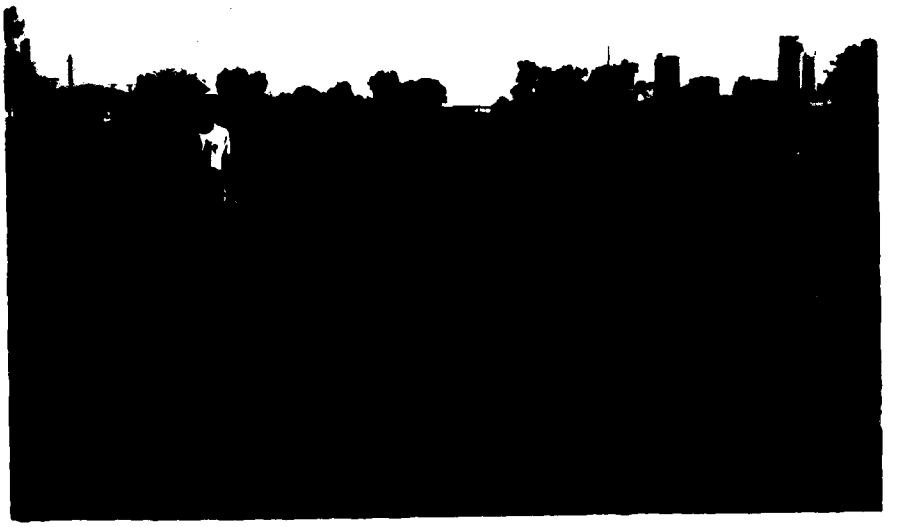
STA 843+00

STA 844+00

DRAIN TILE
STA 841+62 RT

STA 845+00

STA 847+00



STA 848+00

STA 848+00

STA 848+00

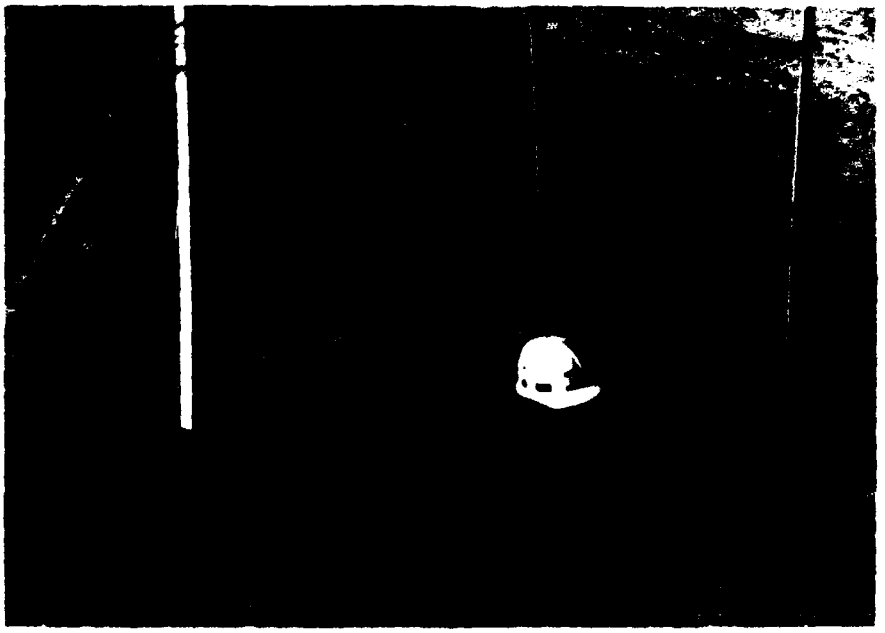
STA 849+00

STA 849+00

STA 850+00

STA 851+00

STA 852+00

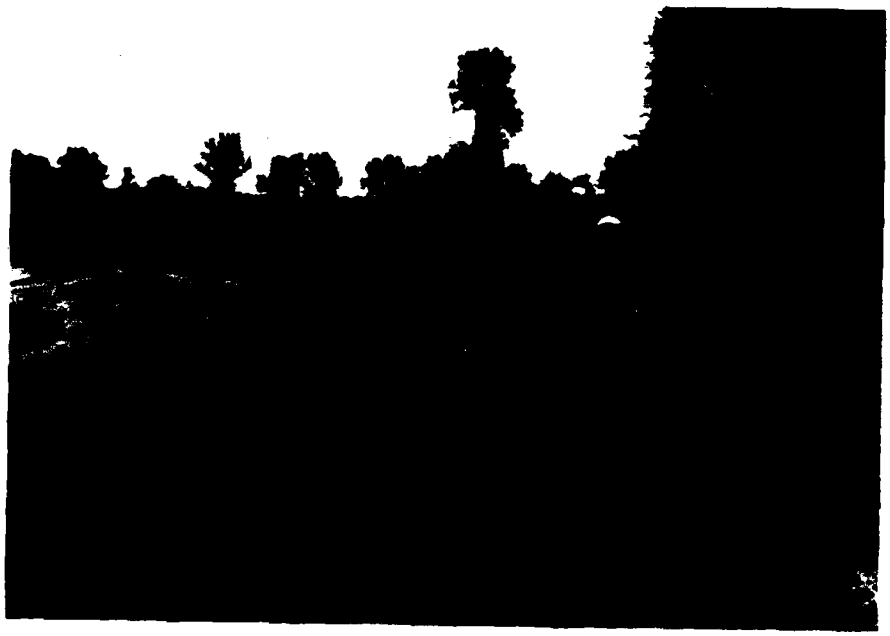


STA 852+84
ROAD "A"

STA 853+00

STA 853+00

STA 854+00



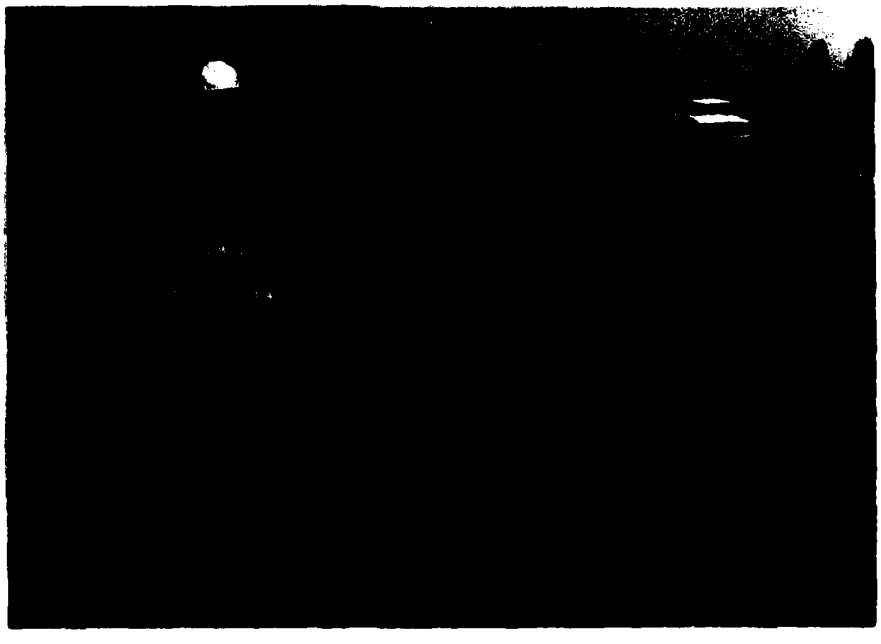
STA 854+00

STA 855+00

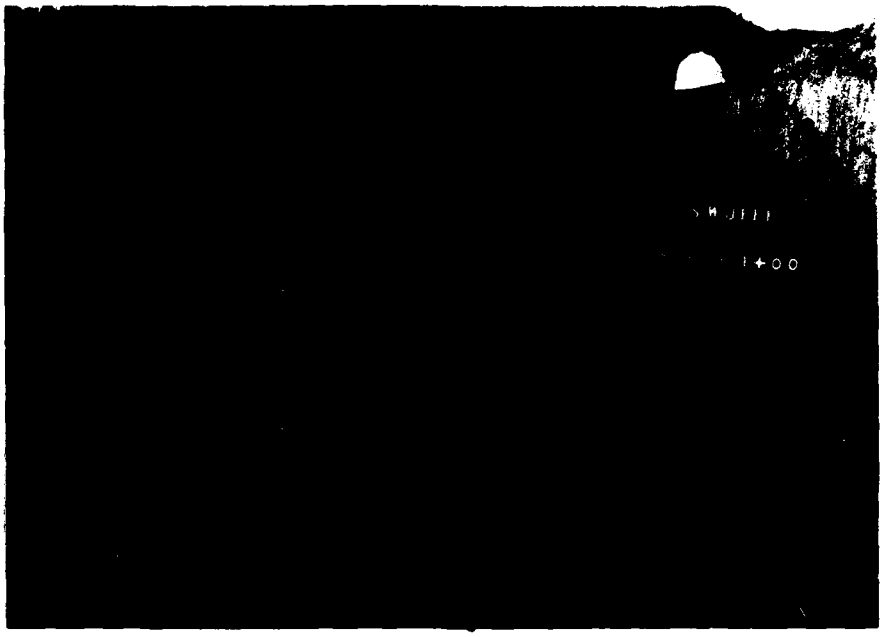
STA 856+00

STA 863+00

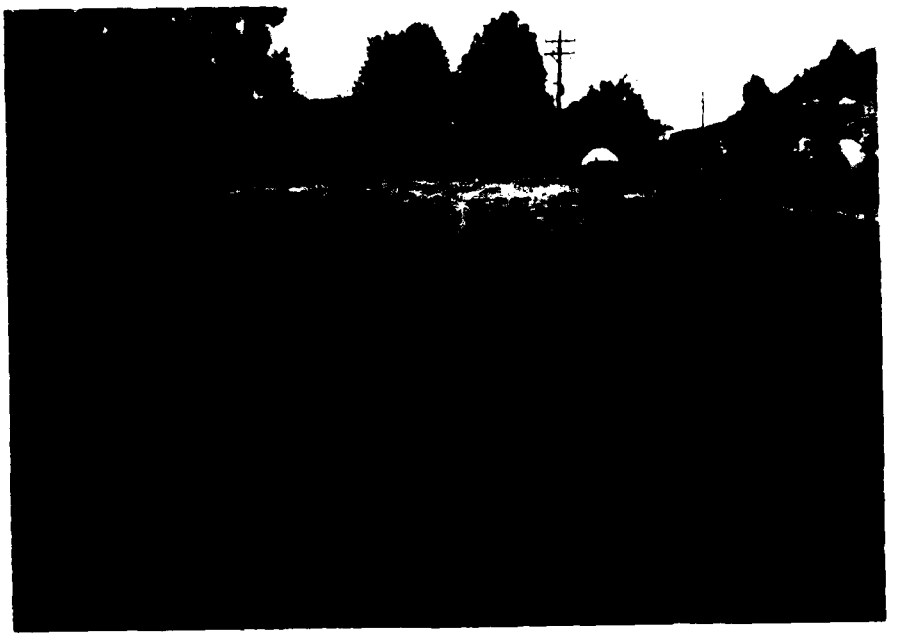
STA 863+00



STA 864+00



STA 864+00

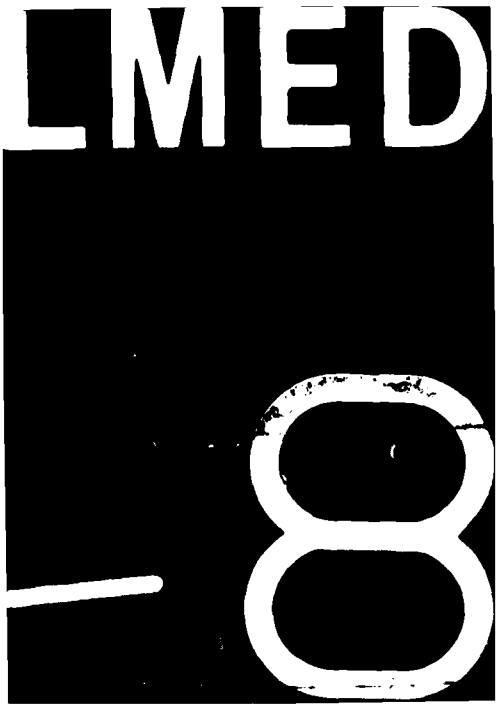


STA 865+00

STA 865+00

STA 866+00

STA 867+00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8