

File on eDOCs Yes No
Site Name Sinclair Refining
Site No. 902003
County Allegheny
Town Wellsville
Foitable Yes
File Name Documents / Reports
Scanned & eDOC

Report. HW902003. 1991-12. RA - Genesee -
Partial Channelization - Vol 7.

ARCO

**Remedial Action Report
Genesee River Partial Channelization
Sinclair Refinery Site
Wellsville, New York**

December 1991

Prepared by

EBASCO

An ENSERCH Engineering and Construction Company*

VOLUME 7 OF 7

APPENDIX G

AS-BUILT DRAWINGS GENESEE RIVER PARTIAL CHANNELIZATION

- C-01 LOCATION MAP, VICINITY MAP AND DRAWING INDEX
- C-02 CLEARING, GRUBBING AND KEY PLAN
- C-03 BOREHOLE LOCATION AND GENERAL SITE PLAN
- C-04 NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 1 OF 3
- C-05 NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 2 OF 3
- C-06 NEW DIKE AND EAST BANK PROTECTION PLAN, SHEET 3 OF 3
- C-07 DIKE SECTIONS AND DETAILS, SHEET 1 OF 2
- C-08 DIKE SECTIONS AND DETAILS, SHEET 2 OF 2
- C-09 DIKE PROFILE AND DRAINAGE DETAILS
- C-10 SOIL STRATIGRAPHY ALONG WEST DIKE
- C-11 EAST BANK DIKE PLAN, SECTIONS AND DETAILS

WEST BANK DIKE EXTENSION & SLA REMEDIATION

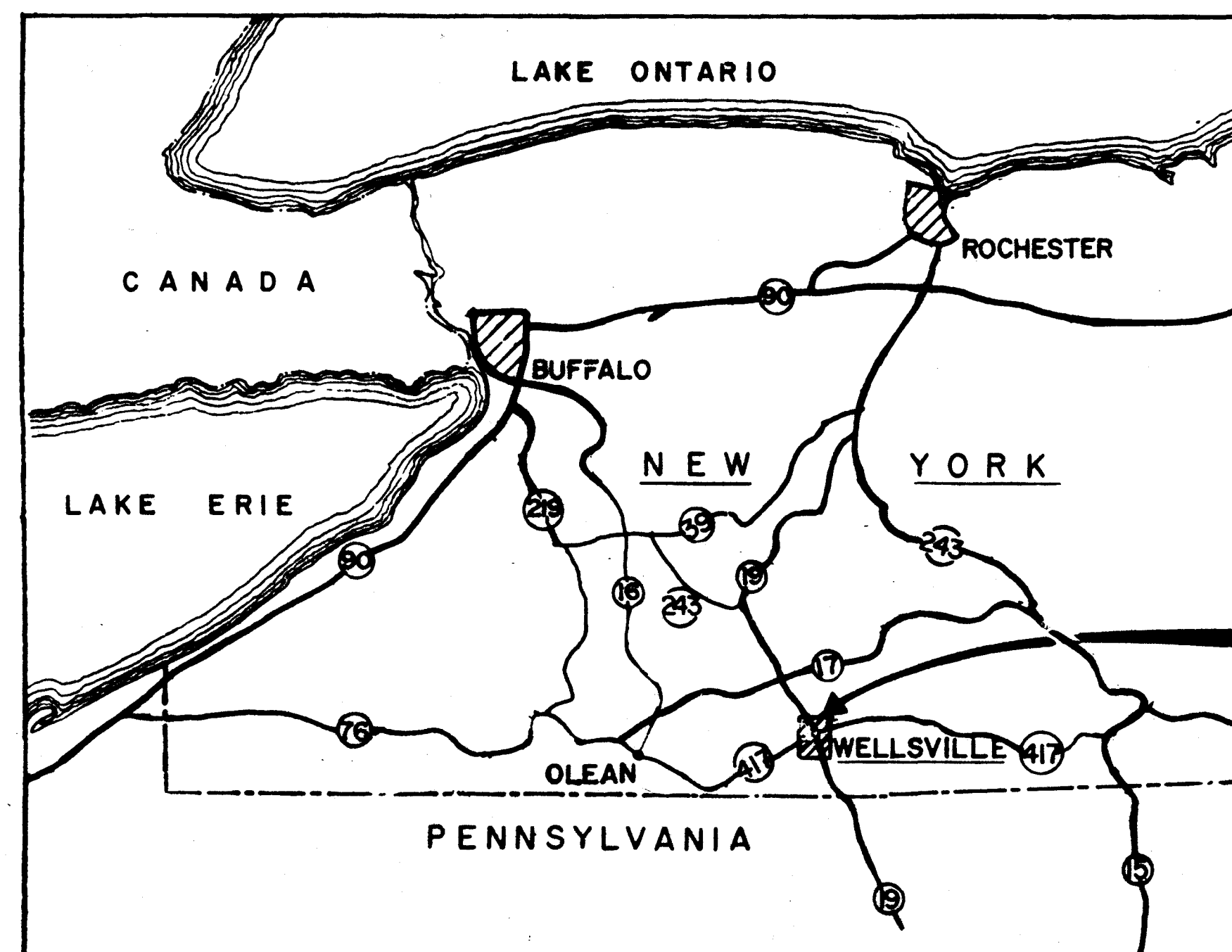
- AR-1 LOCATION MAP, VICINITY MAP AND DRAWING INDEX
- AR-2 CLEARING SLA REMEDIATION AND DIKE EXTENSION
GRUBBING DIKE FOUNDATION
- AR-3 SLA RESTORATION PLAN, DIKE EXTENSION PLAN
AND SOIL BORING PROFILE
- AR-4 DIKE EXTENSION PROFILE SECTIONS AND DETAILS
- AR-5 SLA EXCAVATION PLAN AND SECTIONS
- AR-6 TEST FILL AND ACCESS ROAD PLAN, SECTIONS & DETAILS

NORTH END DIKE EXTENSION

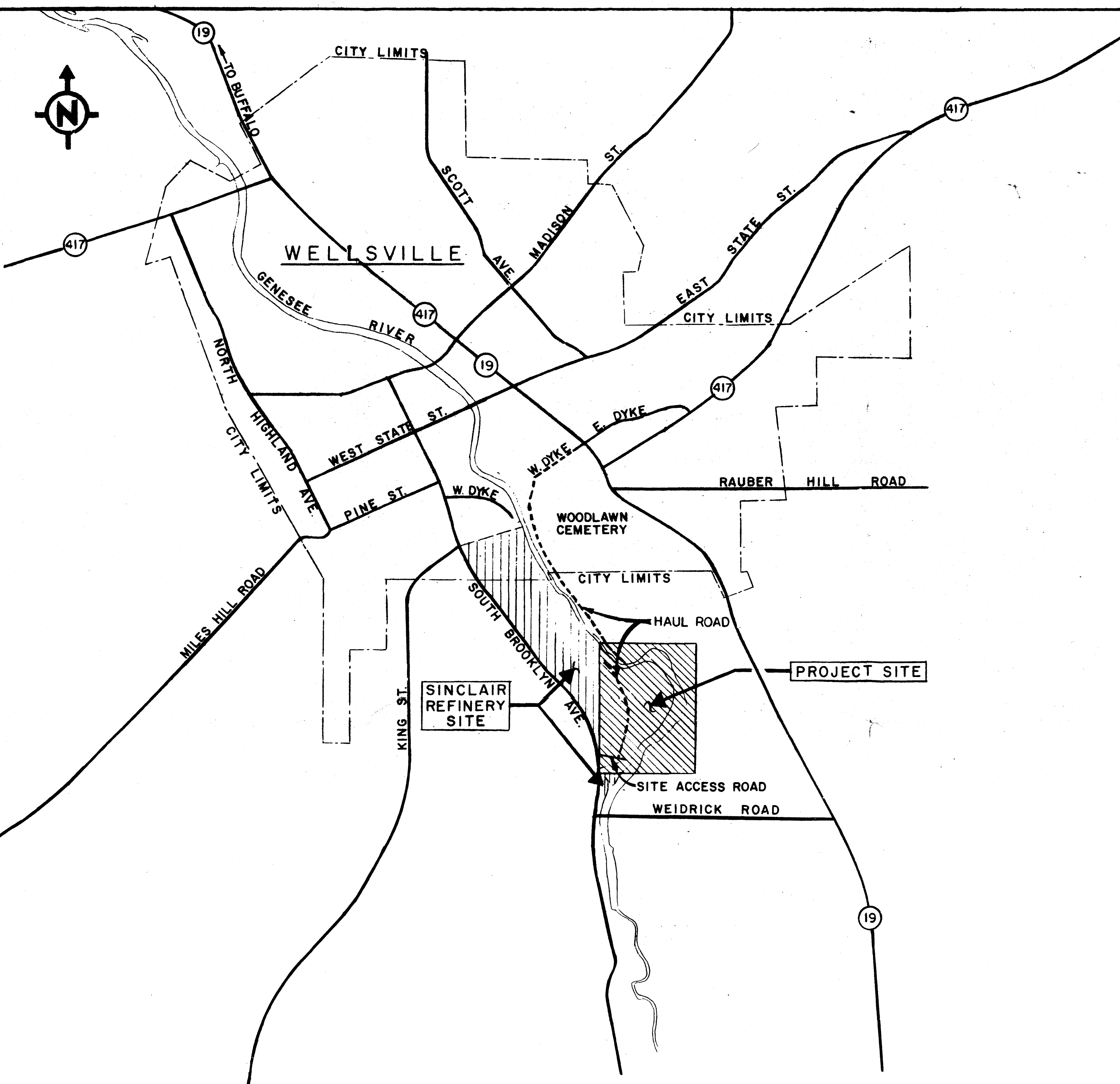
- AR-7 NORTH END DIKE EXTENSION PLAN SECTIONS AND DETAILS
- AR-8 NORTH END DIKE EXTENSION WORK LIMITS

SCALING RULES

SIZE E



LOCATION MAP
NOT TO SCALE



VICINITY MAP
1" = 1000'

GRAPHIC SCALE
1000' 0 1000' 2000'

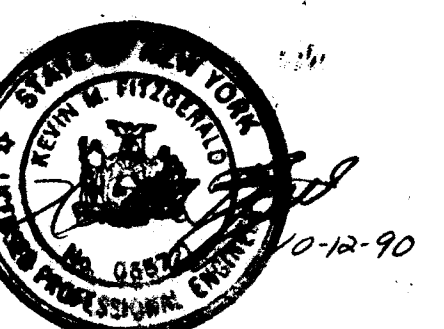
DRAWING INDEX		
DWG. NO.	REV.	DRAWING TITLE
AR-1	(2)	LOCATION MAP, VICINITY MAP AND DRAWING INDEX
AR-2	(2)	CLEARING SLA REMEDIATION & DIKE EXTENSION, GRUBBING DIKE EXTENSION
AR-3	(3)	SLA RESTORATION PLAN, DIKE EXTENSION PLAN, AND SOIL BORING PROFILE
AR-4	(2)	DIKE EXTENSION PROFILE, SECTIONS AND DETAILS
AR-5	(2)	SLA EXCAVATION PLAN AND SECTIONS
AR-6	(2)	TEST FILL AND ACCESS ROAD PLAN SECTION AND DETAILS

ABBREVIATIONS

AB--- AUGER BORINGS
 CELA--- CENTRAL ELEVATED LANDFILL AREA
 DET--- DETAIL
 EL--- ELEVATION
 S--- SLOPE
 SLA--- SOUTH LANDFILL AREA
 STA--- STATION
 TOB--- TOP OF BANK
 TOD--- TOP OF DIKE
 TP--- TEST TRENCH
 TYP--- TYPICAL
 W.E--- WATER ELEVATION
 PVC--- POLYVINYLCHLORIDE

SYMBOLS

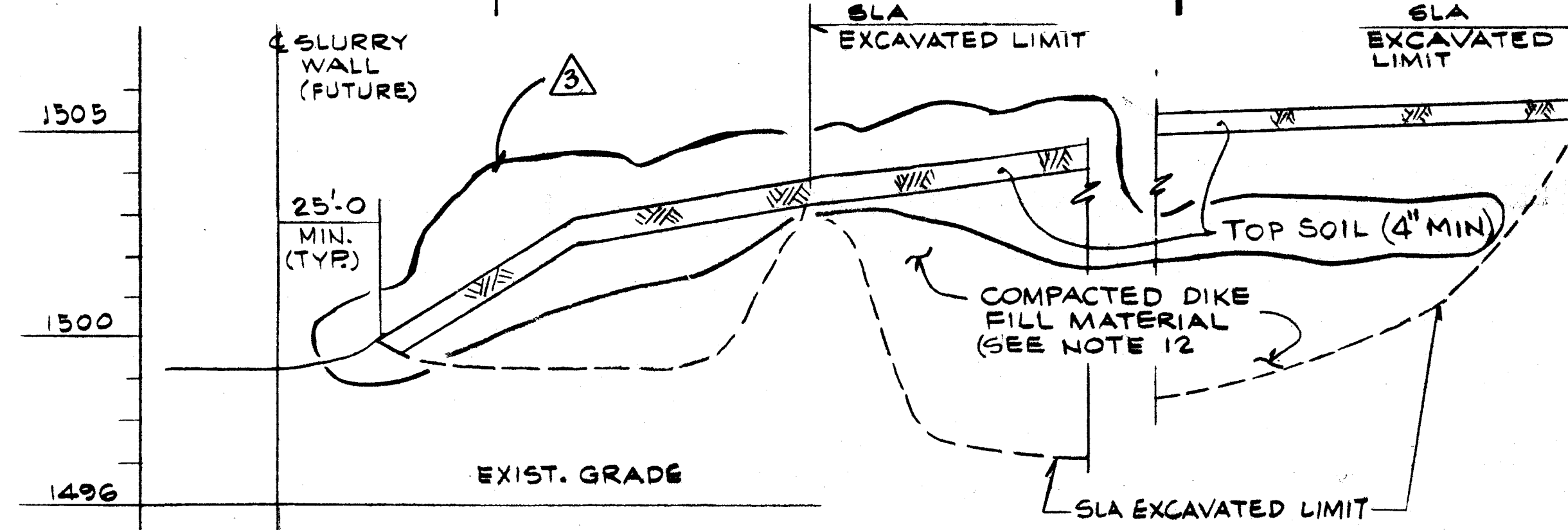
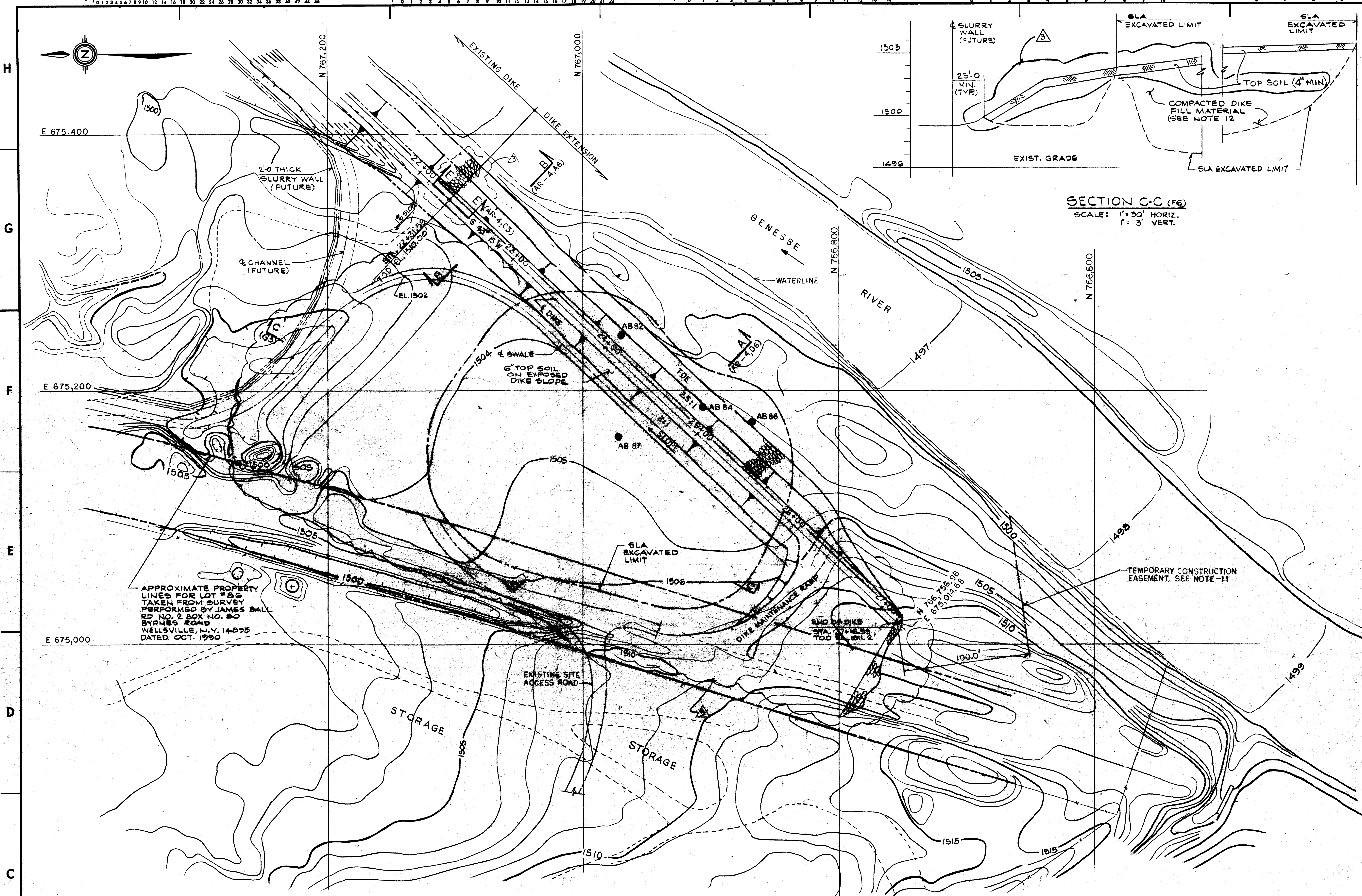
EXISTING GAS LINE
 EXISTING POWER LINE
 EXISTING FENCE
 SIDE SLOPE
 BOREHOLE LOCATION
 REFERENCE POINT
 EXISTING CONTOUR
 DIKE
 CENTERLINE OF DIKE
 RIPRAP
 BEDDING
 LANDFILL AREA
 GRAVEL
 GEOTEXTILE
 EXISTING ROAD
 CULVERT
 FLOW LINE
 POINT OF INTERSECTION



ARCO SINCLAIR REFINERY LANDFILL	
LOCATION MAP VICINITY MAP AND DRAWING INDEX	
EBASCO SERVICES INCORPORATED	
SCALE AS NOTED	APPROVED
DATE 10-12-90	DATE 10-12-90
NO. DATE	REVISION
BY CH	APPROVED
DR. E. J.	AR-1

SCALING RULES

SIZE E

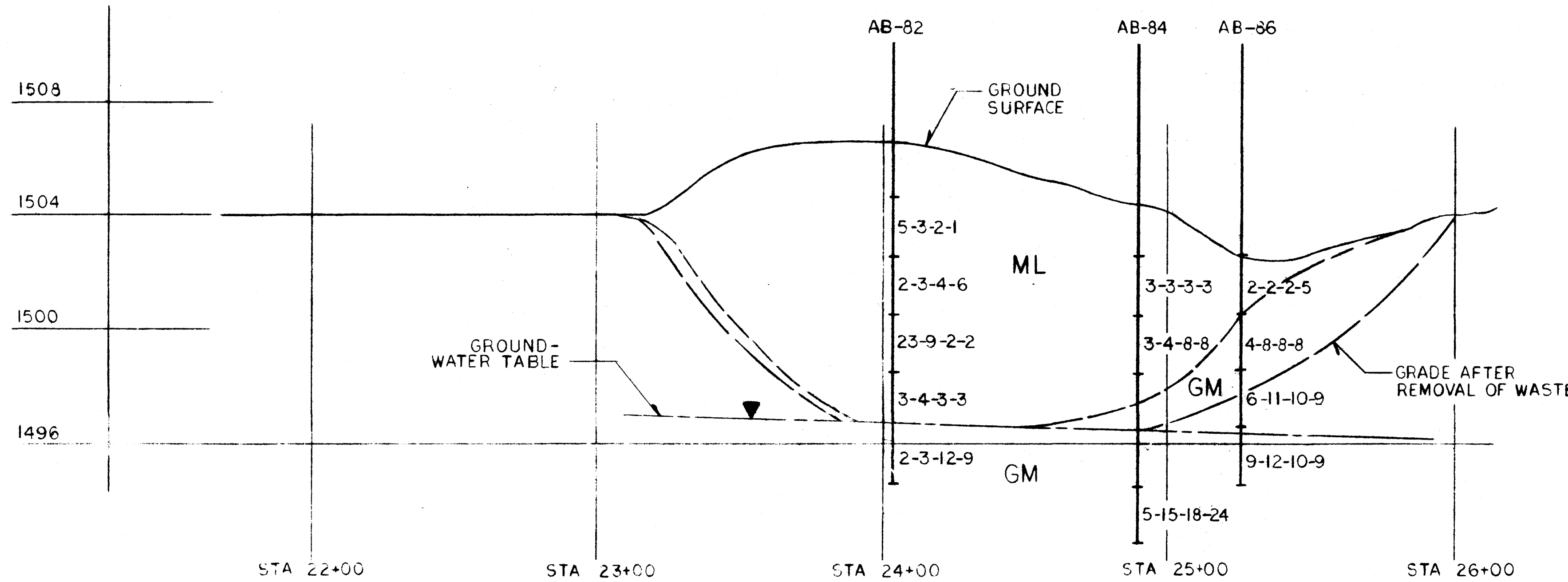


SECTION C-C (F6)
SCALE: 1" = 30' HORIZ.
1" = 3' VERT.

NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED ALONG THE RIVER SIDE BY CONTRACTOR AS SPECIFIED IN SECTION 02485 OF THE CONTRACT SPECIFICATIONS.
2. FOR DIKE EXTENSION PROFILE AND DETAILS SEE DRAWING ARC-4.
3. STRIP 6 INCHES OF TOPSOIL UNDER THE WEST DIKE FOUNDATION AS SHOWN ON PROFILE OR DWG. ARC-4.
4. CONTRACTOR SHALL VERIFY LOCATION AND TYPE OF UNDERGROUND UTILITIES AND STRUCTURES IN THE FIELD, OR BY CONTACTING THE FOLLOWING COMPANIES:
 - NIAGARA-MOHAWK POWER CORPORATION
 535 WASHINGTON STREET
 BUFFALO, NEW YORK (716) 857-4238
 - MARY STOUT
 WELLSVILLE UTILITY COORDINATOR
 (716) 593-1780
 - BOB ALLIARD
 NATIONAL FUEL COMPANY
 ENGINEERING DEPARTMENT
 10 LAUREL STREET
 BUFFALO, NEW YORK (716) 857-7060
5. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY LOCATION SERVICE PRIOR TO START OF CONSTRUCTION - THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR DAMAGE TO UNDERGROUND UTILITIES.
6. COMMON FILL BEHIND THE DIKE SHALL BE COMPACTED TO 85 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
7. GROUND AREA UNDER DIKE FOUNDATION FROM STA. 22 + 31.59 TO STA. 23 + 20 AND FROM STA. 26 + 00 TO 22 + 14.88 ONLY.
8. WATERLINE SHOWN ON THE Dwg IS BASED ON TOPOGRAPHIC DATA AND FIGURES 3-5 OF PHASE I SURVEY INVESTIGATION, SINCLEAR REFINERY SITE, WELLSVILLE, NEW YORK BY SMC HARTIN INC., MARCH 1988.
9. COORDINATES SHOWN ARE BASED ON NEW YORK STATE COORDINATE SYSTEM.
10. ELEVATIONS SHOWN WERE PREPARED BY TOPOGRAPHIC DATA CONSULTANTS INC. FROM AERIAL PHOTOGRAPHS.
11. ELEVATIONS SHOWN ARE BASED ON 1989 MEAN SEA LEVEL DATUM.
12. THE CONTRACTOR SHALL MAINTAIN ALL ACTIVITIES WITHIN THE TEMPORARY CONSTRUCTION EASEMENT DETERMINED FOR THIS PROJECT.
13. CONSTRUCTION SHALL BE LIMITED TO A PERMEABILITY OF EQUAL TO OR LESS THAN 1×10^{-5} CM/SEC.

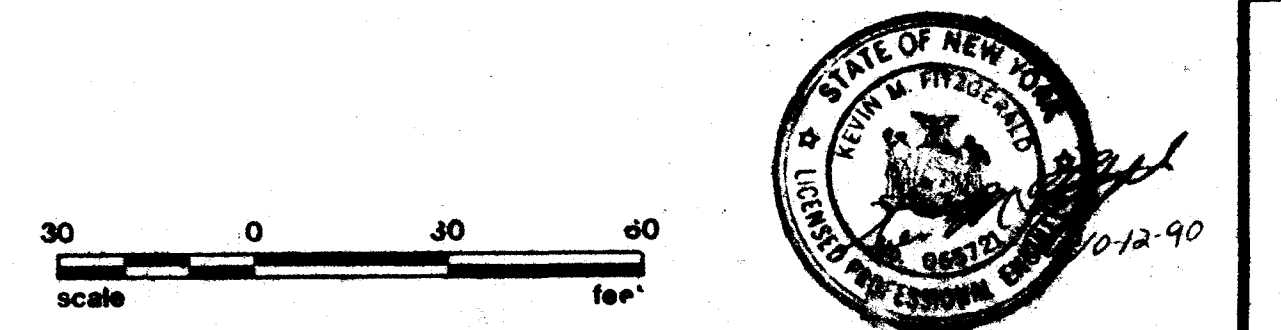
APPROXIMATE PROPERTY LINES FOR LOT #66 TAKEN FROM SURVEY PERFORMED BY JAMES BALL RD NO. 2 BOX NO. 80 BYRNES ROAD WELLSVILLE, N.Y. 14895 DATED OCT. 1990



SOIL BORING PROFILE
SCALE: 1" = 30' HORIZ.
1" = 3' VERT

LEGEND

- TEMPORARY CONSTRUCTION EASEMENT
- x- LIMIT OF SOUTH LANDFILL AREA
- o- BOTTOM OF KEY TRENCH
- [Hatched] BEDDING
- [Dotted] RIPRAP
- [Cross-hatched] GRAVEL
- [Wavy lines] GEOTEXTILE
- [Solid line] TOP
- [Dashed line] SIDE SLOPE
- [Dotted line] BOTTOM
- - - - - LIMIT OF SLA
- - - - - LIMIT OF CLEARING
- AB BORING
- WATER LINE
- ML SILT-DARK BROWN, SILT, MOIST
- GM GRAVEL-TAN TO GRAY, SAND AND GRAVEL MOIST TO SATURATED
- A - BORING LOCATION AND NUMBER
- B - LOCATION OF SOIL SAMPLE
- C - HAMMER BLOWS PER 6" OF PENETRATION UNLESS OTHERWISE STATED.

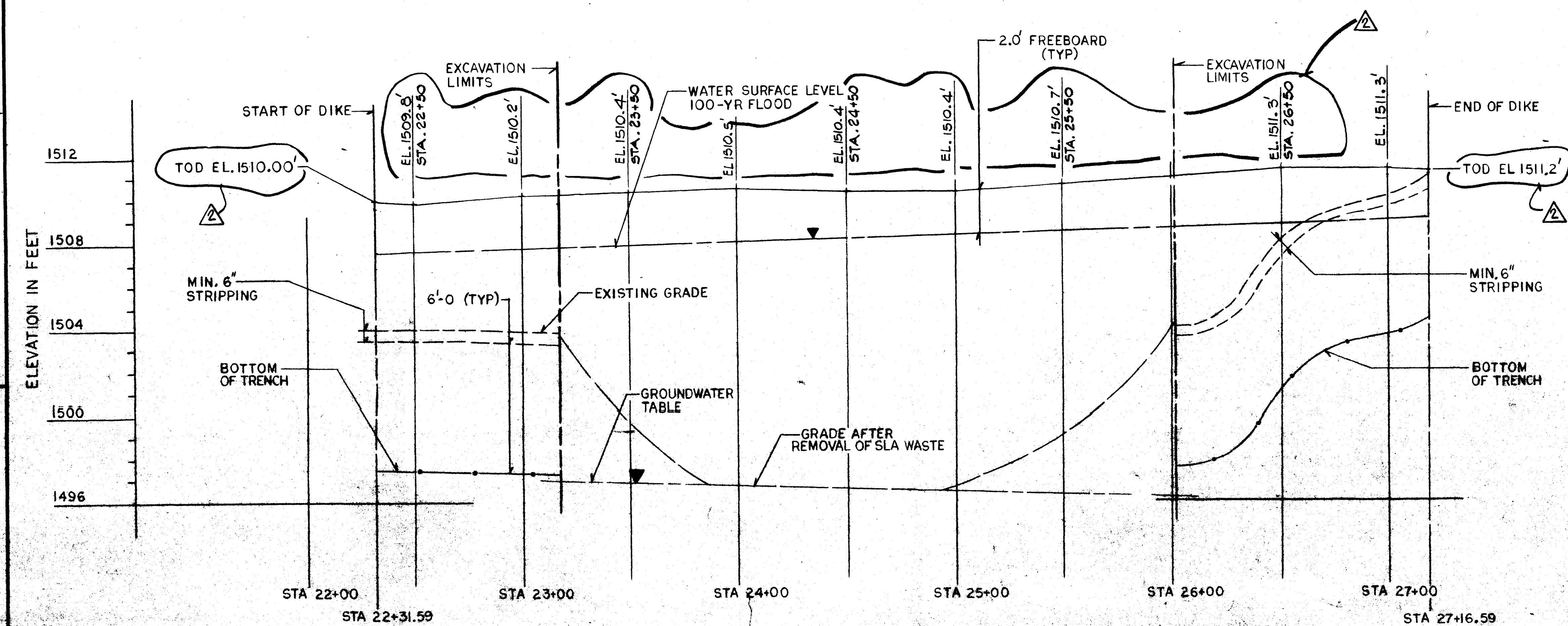


NO	DATE	REVISION	BY	CH	APPROVED
1	11-2-90	REV. TOP ELEV. (50) CO-ORDINATES (E&N) NOTES (55) (60)	EK	RL	VP
2	6-26-91	GENERAL REVISION M.S. VERIFICATION	EK	DS	VP
3	12-2-91	AS-BUILT REV. (F5 TO F7) FINISHED GRADING CONTOURS (H5) SECT. C-C K.W. HITEGARD, N.Y. P.E. NO. 065721	EK	DS	VP

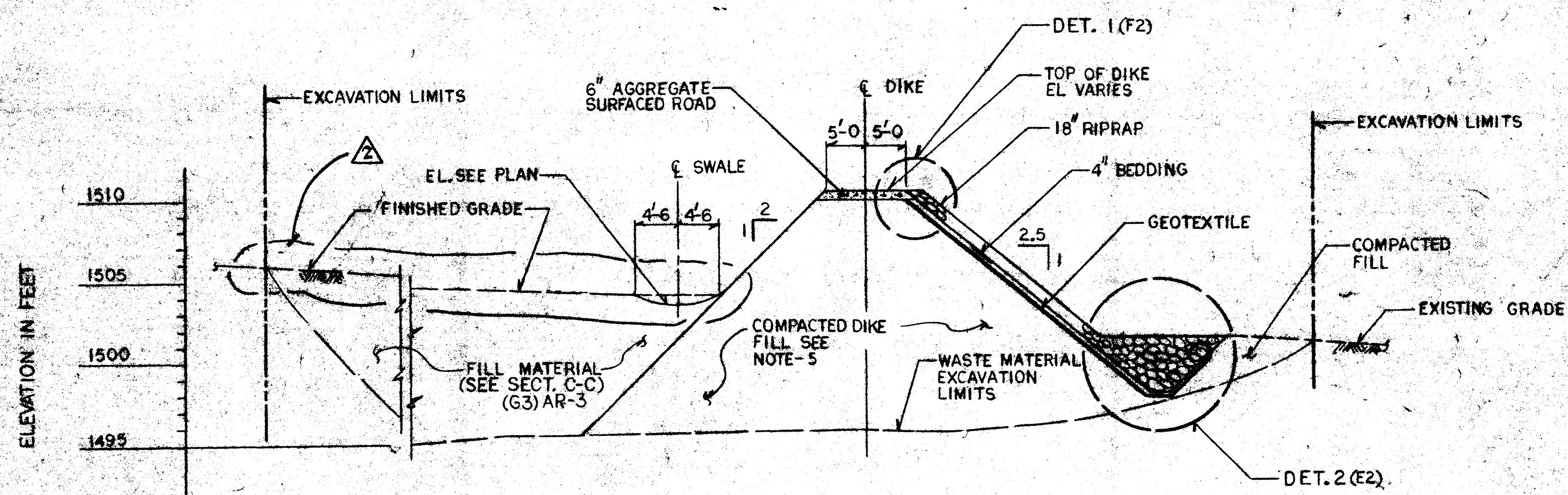
ARCO		
SINCLAIR REFINERY LANDFILL		
SLA RESTORATION PLAN DIKE EXTENSION PLAN AND SOIL BORING PROFILE		
EBASCO SERVICES INCORPORATED		
SCALE AS NOTED	APPROVED	DATE 10-16-90
DR. CIVIL		AR-3
CH. E.L.		

36x44 "E" SIZE

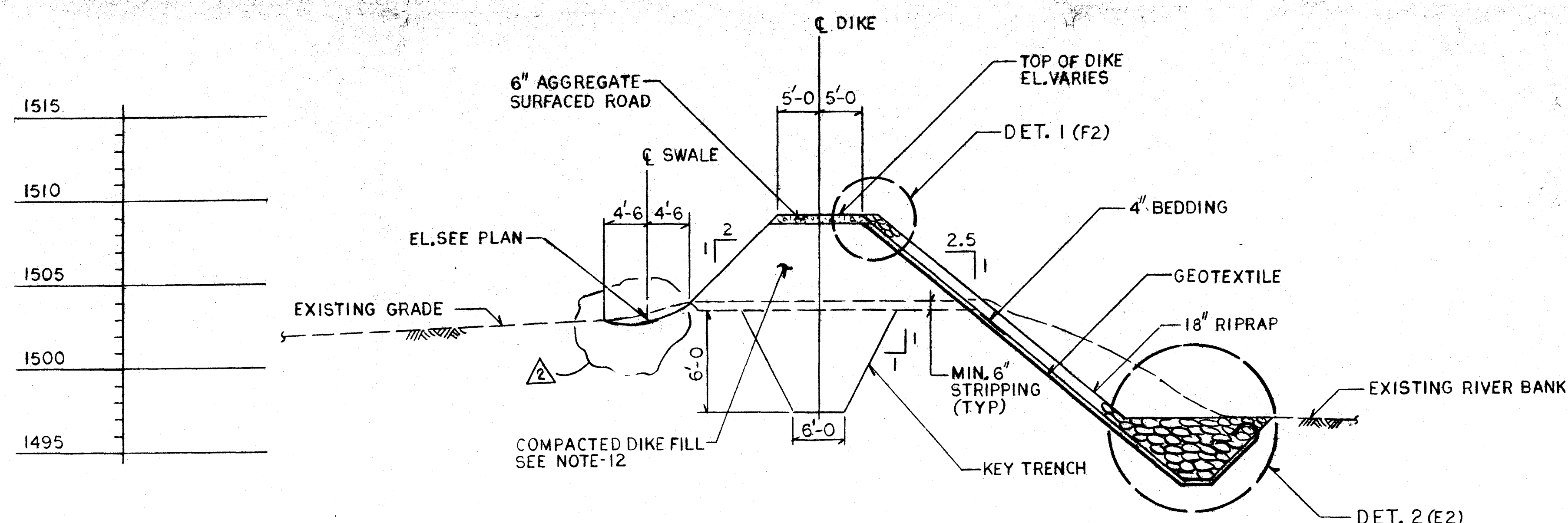
NOTES
FOR GENERAL NOTES SEE DRAWING ARC-3



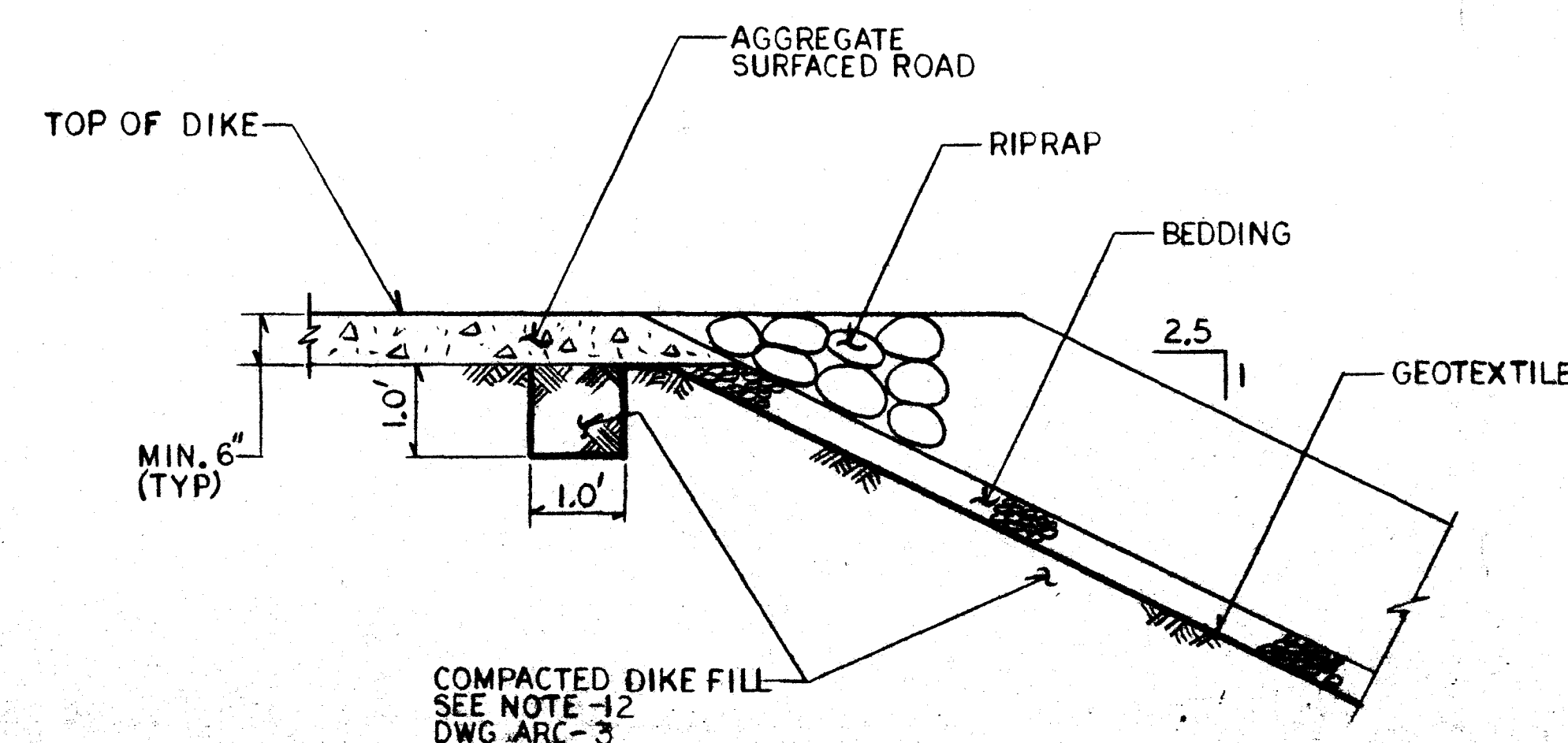
DIKE EXTENSION PROFILE
(FOR PLAN SEE DRAWING AR-3)
SCALE: 1"=30' HORIZ.
1"=3' VERT.



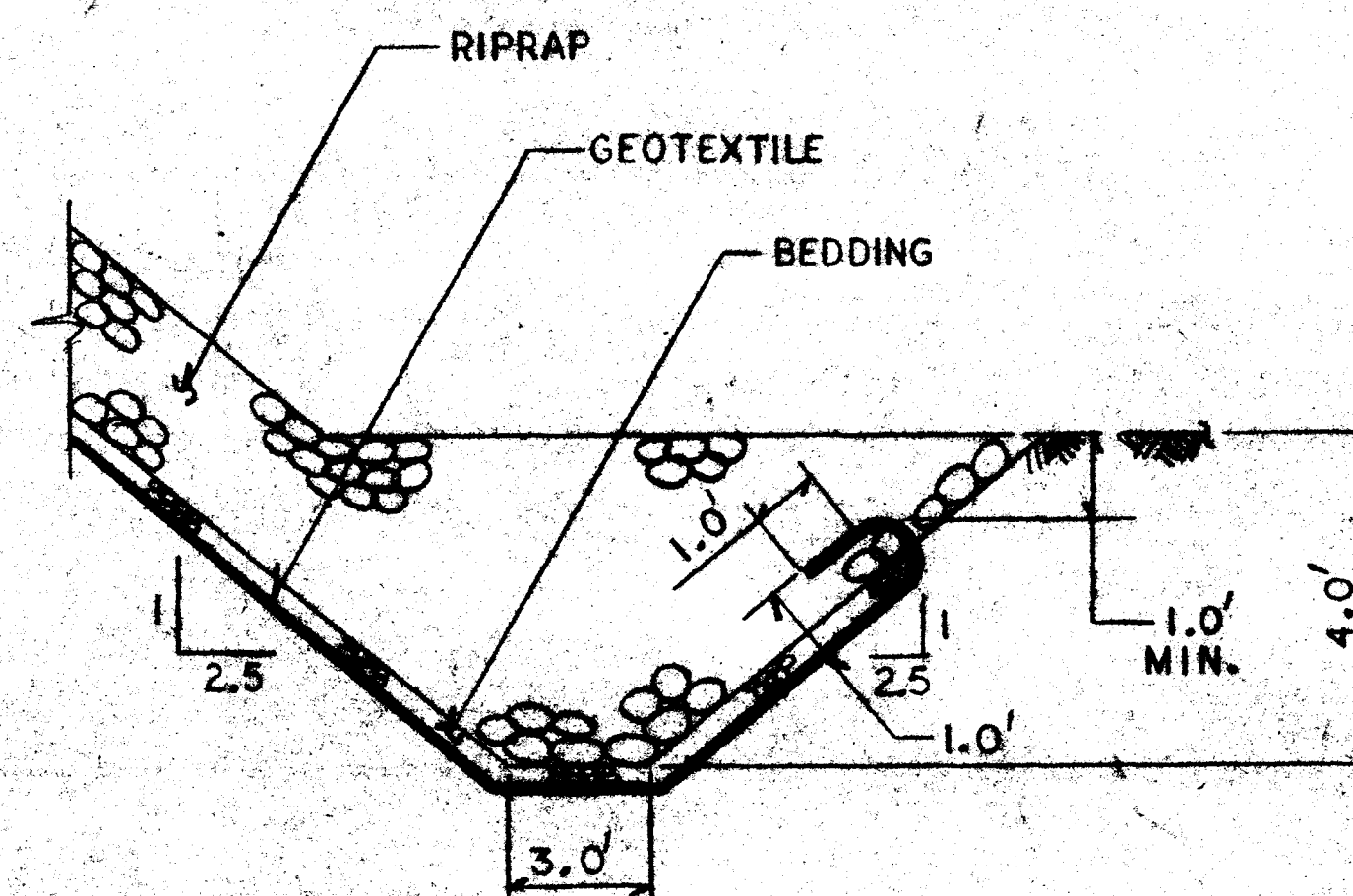
SECTION A-A (AR-3, F5)
SCALE: 1"=10' HORIZ.
1"=5' VERT.



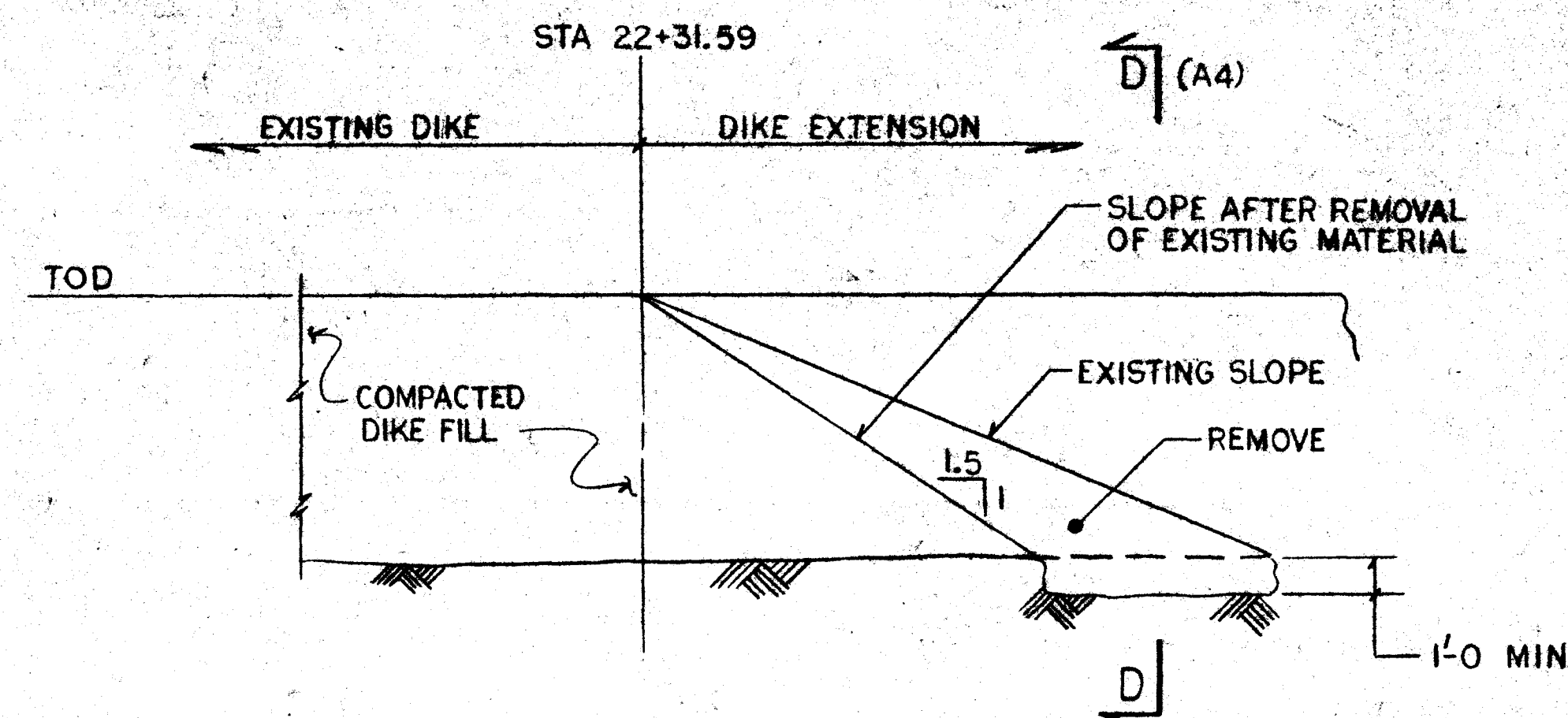
SECTION B-B (AR-3, G6)
SCALE: 1"=10' HORIZ.
1"=5' VERT.
TYPICAL FOR DIKE STA 22+31.59 TO 23+20.00
STA 26+00.00 TO 27+16.59



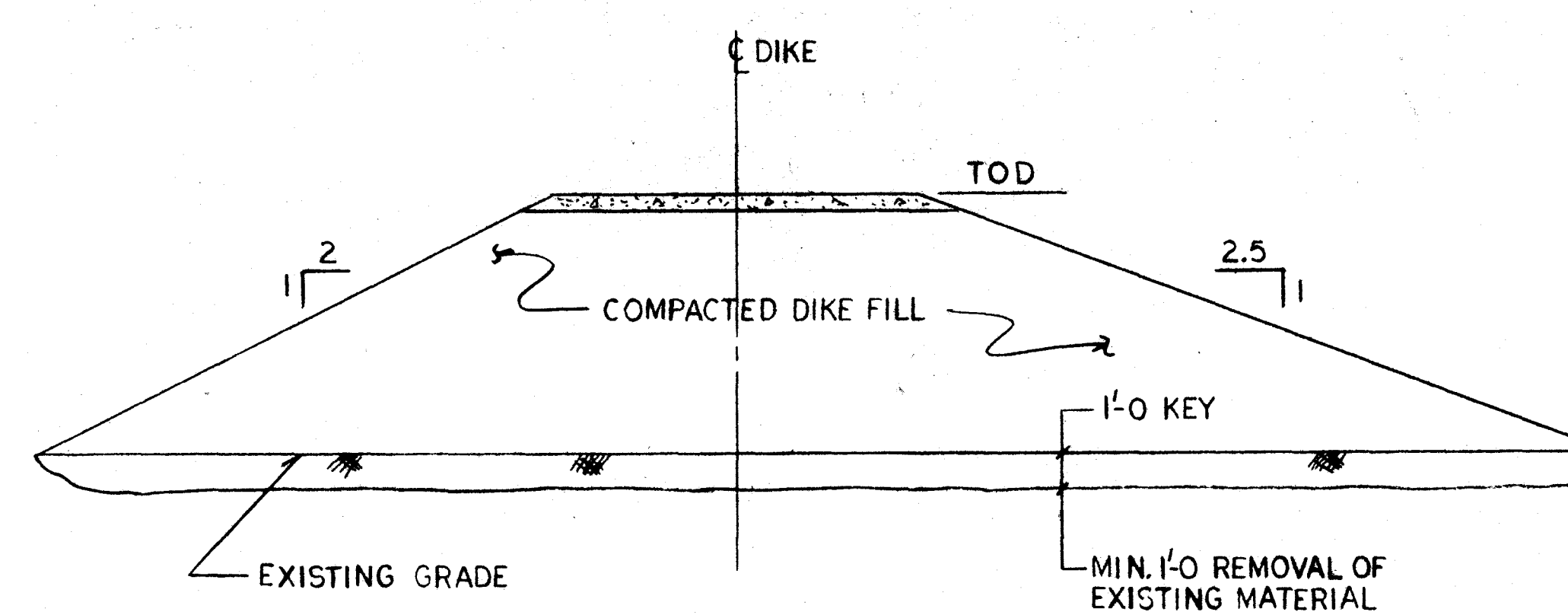
DETAIL-1 (B6, E6)
NTS



DETAIL-2 (B5, D6)
NTS



SECTION E-E (AR-3, G6)
NTS



SECTION D-D (03)
NTS



ARCO SINCLAIR REFINERY LANDFILL			
DIKE EXTENSION PROFILE SECTIONS & DETAILS			
EBASCO SERVICES INCORPORATED			
NO	DATE	REVISION	BY CH APPROVED
1	11-2-90	REV. TOP ELEV. (G6), NOTE (H7) (G6) (H5) (E5)	EK RL YP
2		A5-BUILT ADD: (44 TO H8) TOP ELEV. REV: (G4, G6) TOP ELEV. (B7, D7) SLA GRADING E.M. FITZGERALD NY PE NO. 065721	EK VP DS
SCALE AS NOTED		APPROVED	DATE 11-12-90
DIV. CIVIL		DR. E.K.	AR-4
CH. E.L.			

H

H

G

G

F

F

E

E

D

D

C

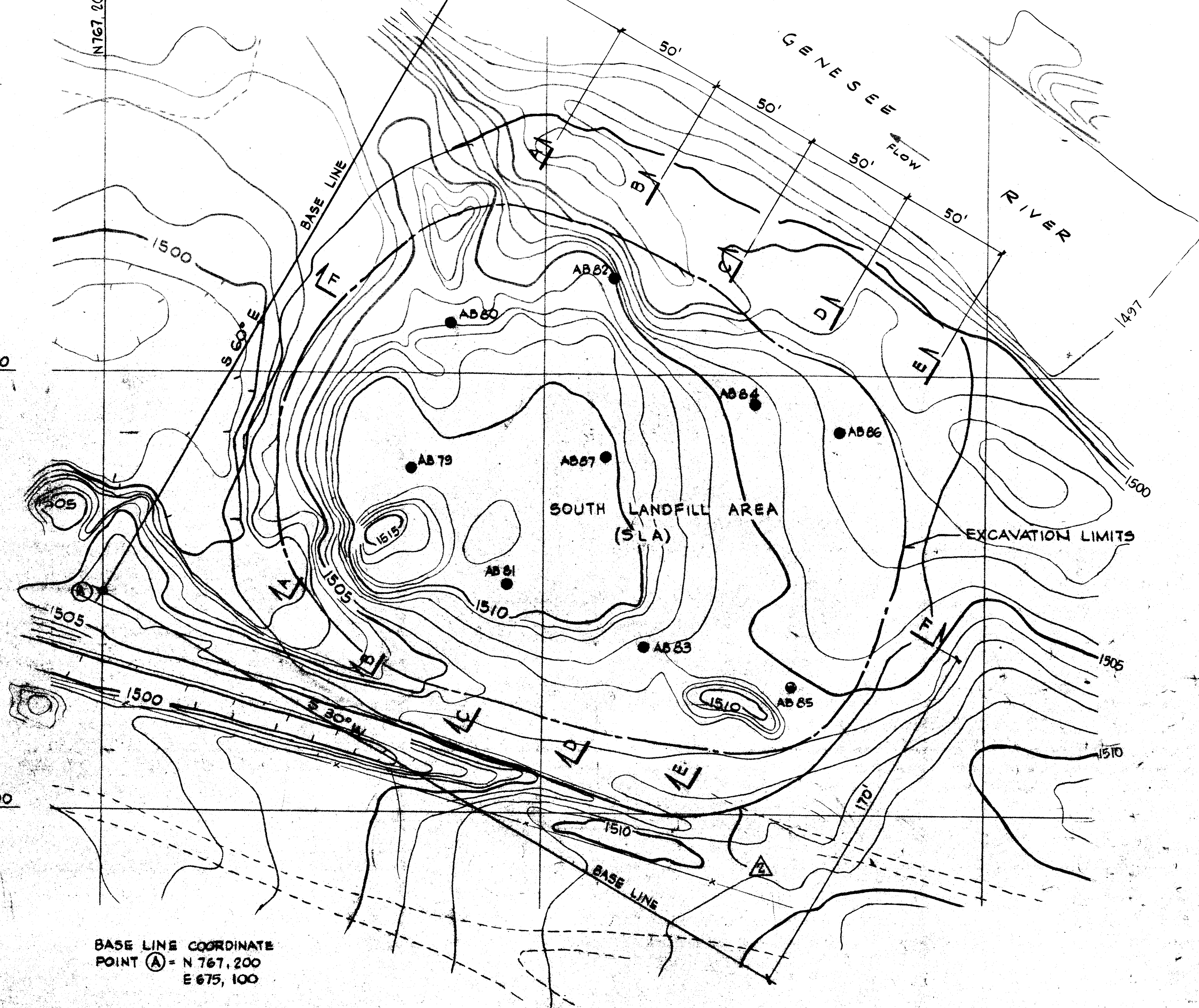
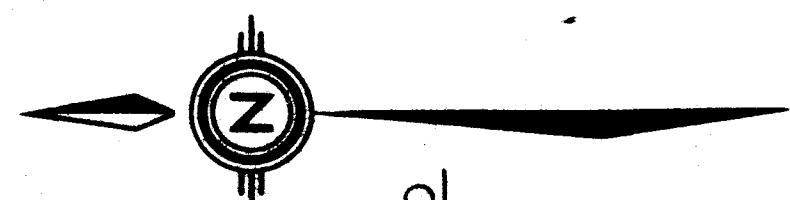
C

B

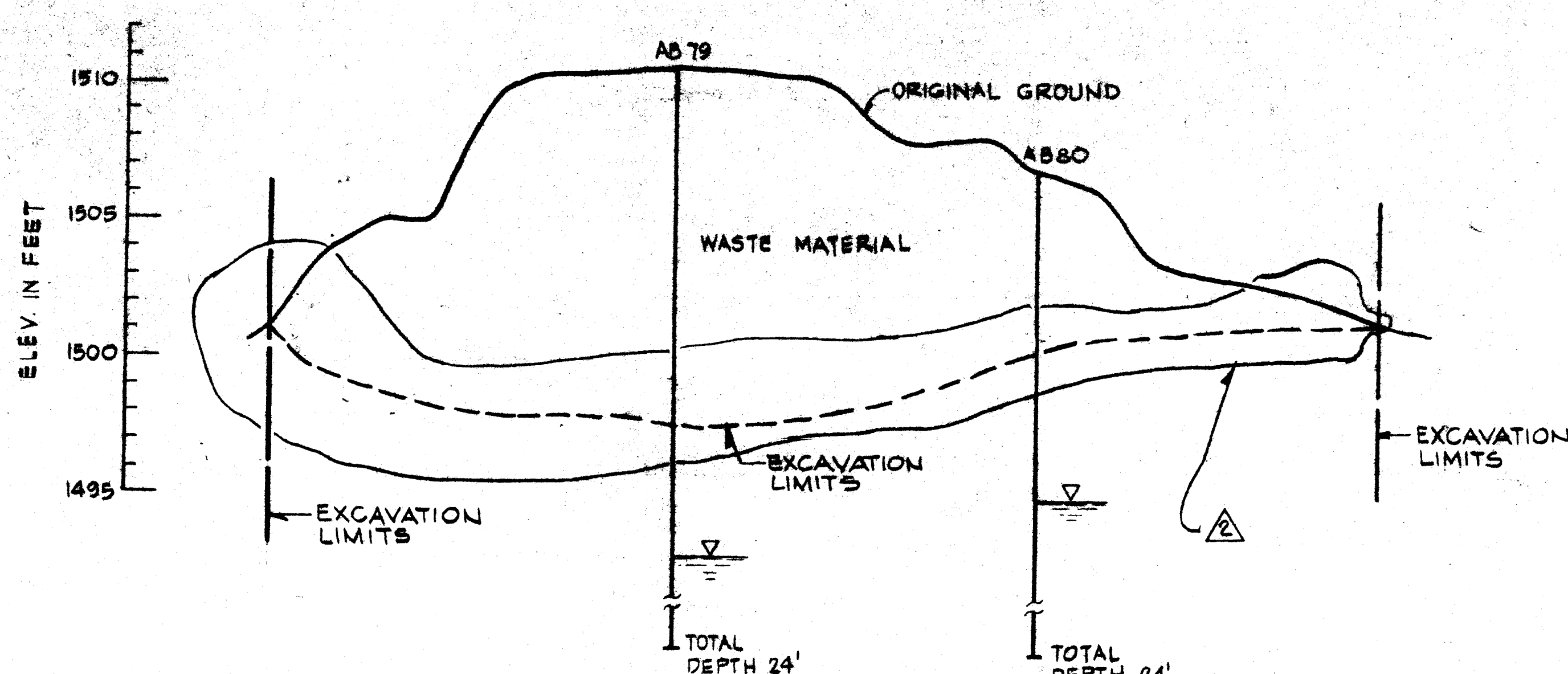
B

A

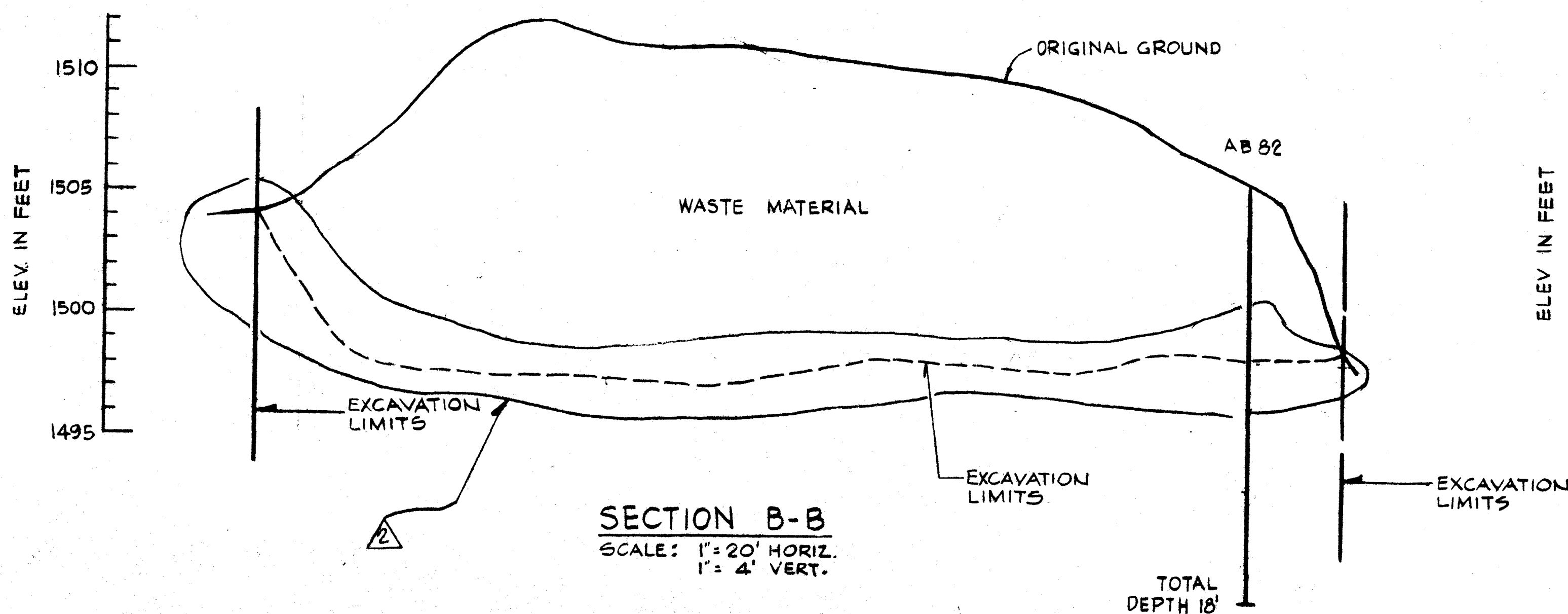
A



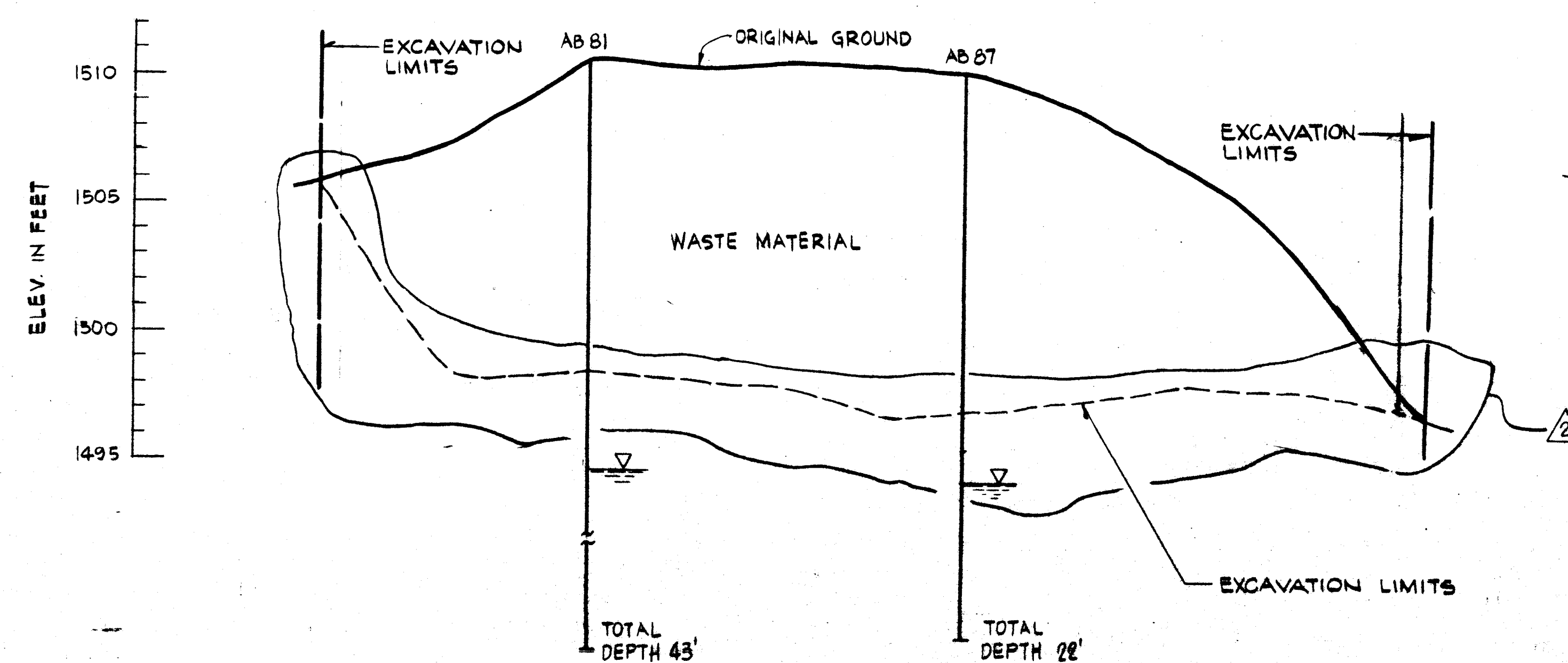
PART PLAN



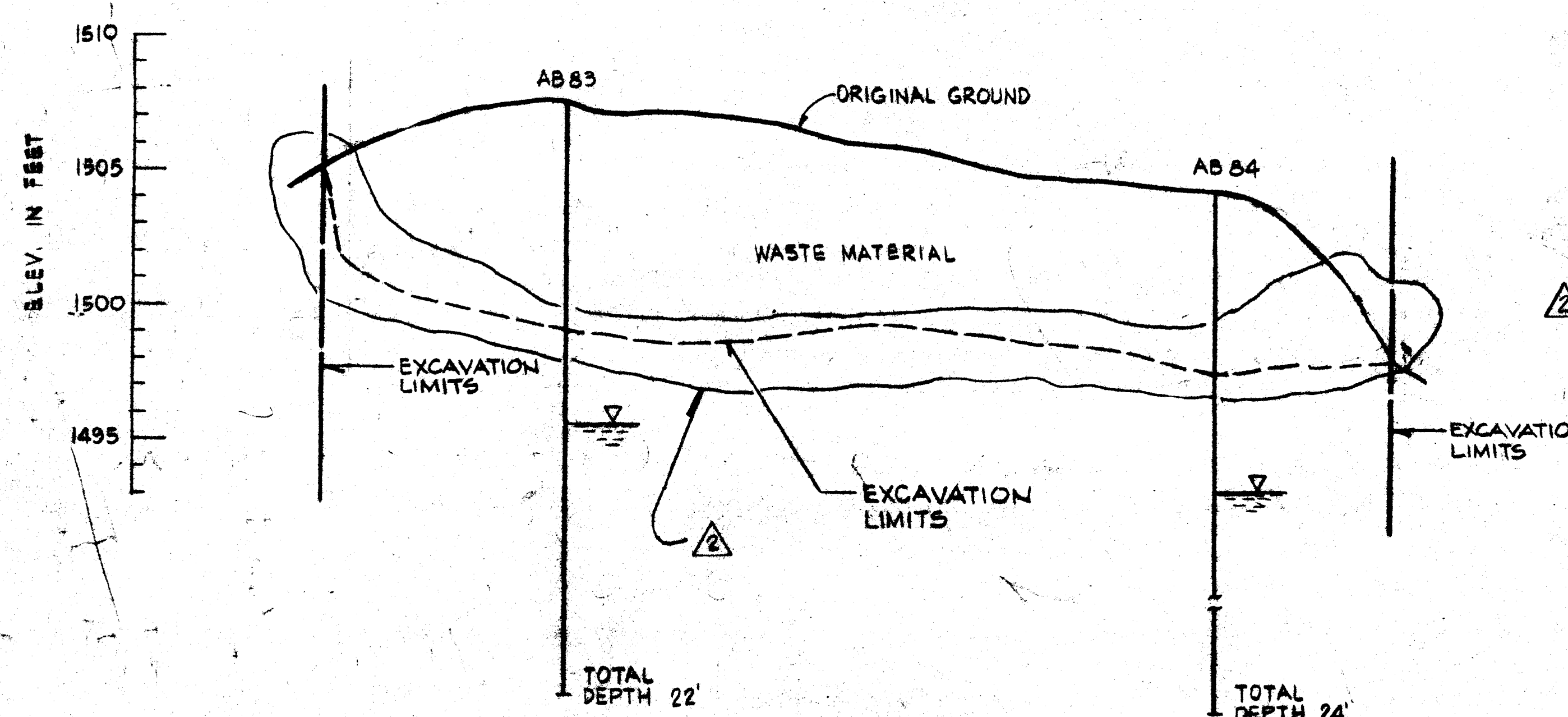
SECTION A-A
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.



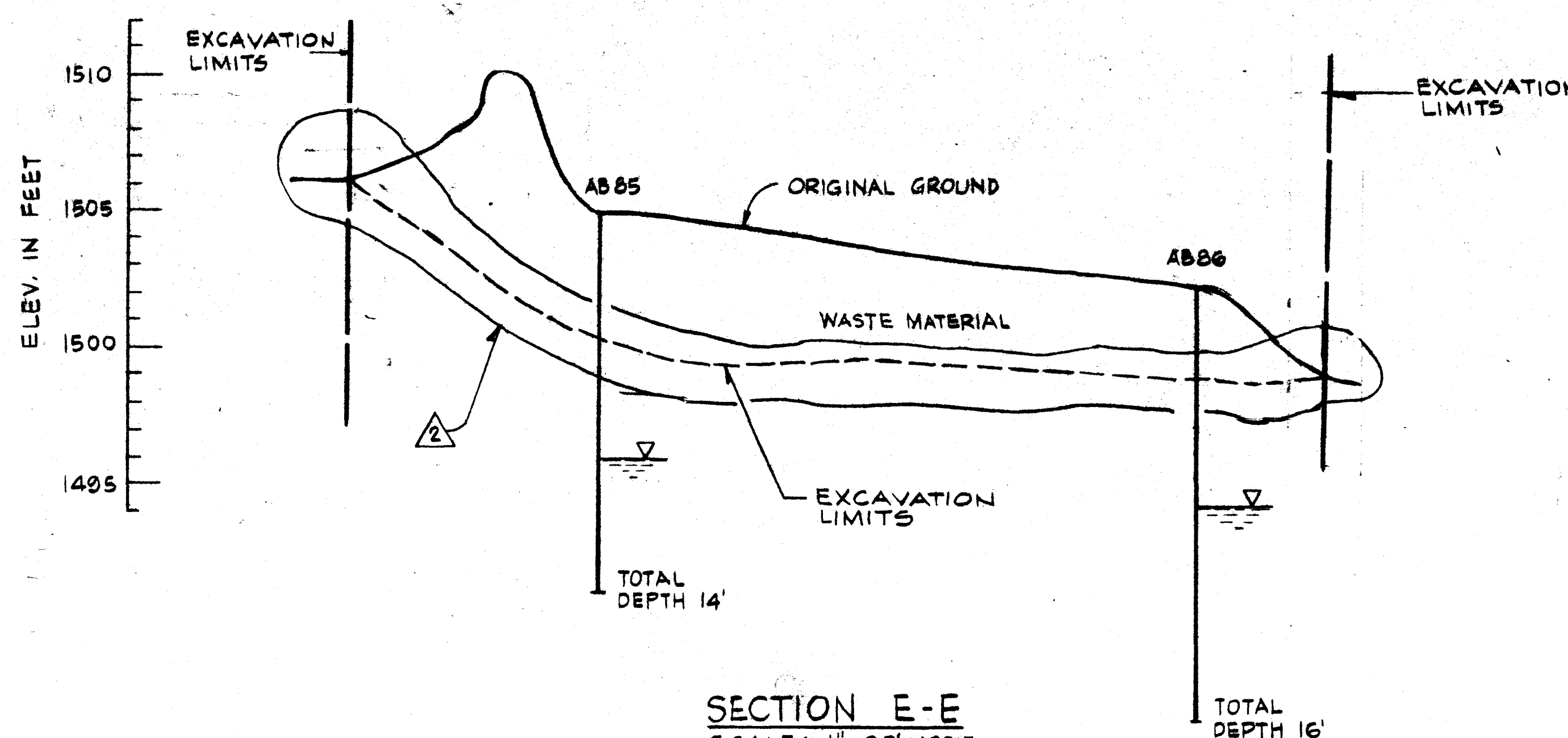
SECTION B-B
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.



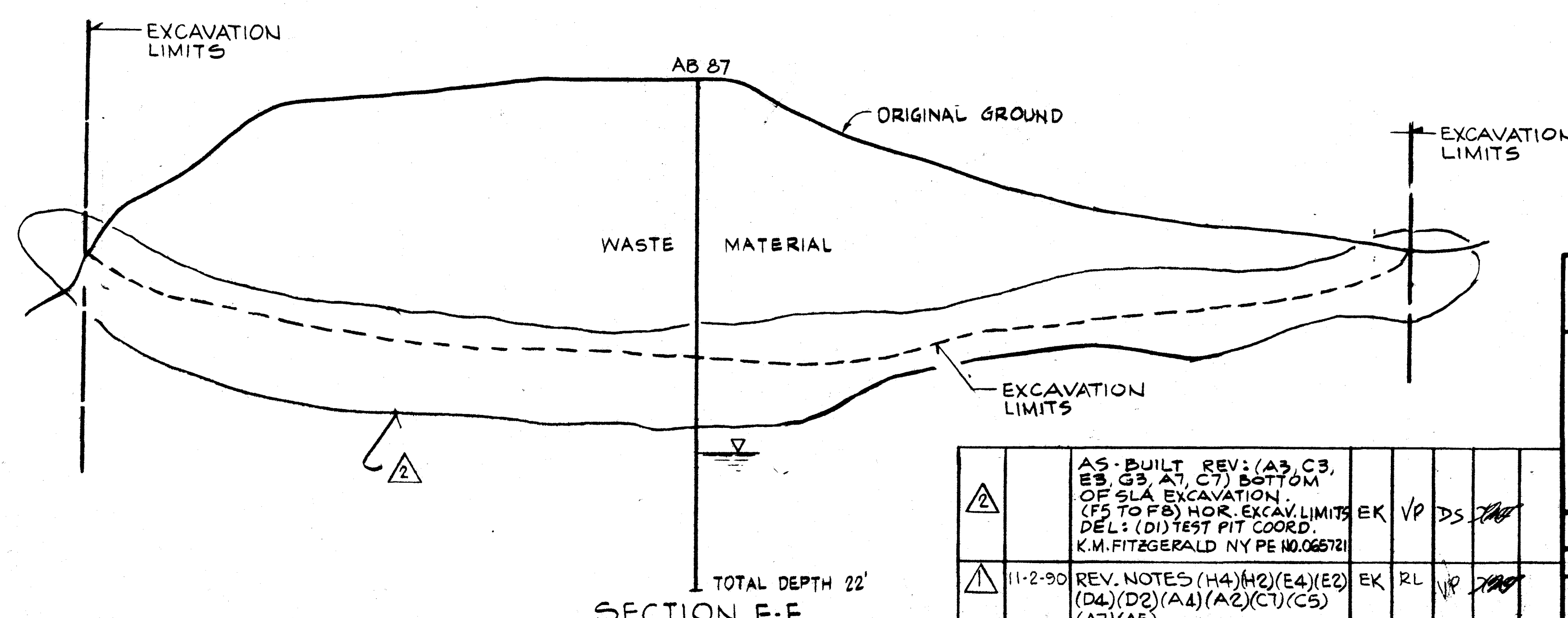
SECTION C-C
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.



SECTION D-D
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.



SECTION E-E
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.



SECTION F-F
SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

LEGEND:
AB 79 TO AB 87 - DENOTES AUGER BORINGS
▽ DENOTES GROUNDWATER LEVEL DETERMINED FROM SPLIT SPOON SAMPLING

LOCATION CO-ORDINATES FOR AUGER BORINGS

NO.	NORTH	EAST
AB 79	767060.12	675156.42
AB 80	767042.46	675224.90
AB 81	767016.29	675104.68
AB 82	766971.65	675244.90
AB 83	766954.56	675011.04
AB 84	766906.11	675187.01
AB 85	766889.72	675088.06
AB 86	766867.60	675173.90
AB 87	766972.31	675143.19



ARCO
SINCLAIR REFINERY LANDFILL

SLA EXCAVATION
PLAN AND SECTIONS

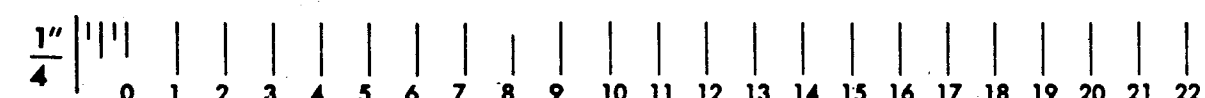
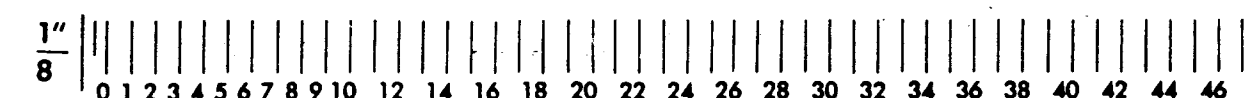
EBASCO SERVICES INCORPORATED

SCALE AS SHOWN	APPROVED	DATE
DR. CIVIL		10-12-90
DR. AEN		AR-5
CH. E.L.		

NO.	DATE	REVISION	BY	CH	APPROVED
1	11-2-90	REV. NOTES (H4)(H2)(E4)(E2)(D4)(D2)(A4)(A2)(C1)(C5)(A1)(A5)	EK	RL	VP
2		AS-BUILT REV. (A3)(C3)(B3)(G3)(A1)(C1) BOTTOM OF SLA EXCAVATION (D5 TO F8) HOR. EXCAV. LIMITS (D5)(D1) TEST PIT COORD. K.M. FITZGERALD NYPE NO. 066721	EK	VP	DS



SCALING RULES



SIZE E

NOTES:

1. FOR GENERAL NOTES SEE DRAWING AR-7.
2. CONTRACTOR SHALL, IF NECESSARY, CLEAR AREAS WITHIN THE LIMITS OF WORK.

H

G

F

E

D

C

B

A

H

G

F

E

D

C

B

A

PLAN
SCALE 1" = 40'

ARCO SINCLAIR REFINERY LANDFILL			
NORTH END DIKE EXTENSION WORK LIMITS			
EBASCO SERVICES INCORPORATED			
SCALE AS SHOWN	APPROVED	DATE 9-11-91	
DIV. CIVIL	 Morris S. Hadfield	AR-B	
DR. E.K.			
CH. D.S.			

NO	DATE	REVISION	BY	CH	APPROVED
1	12-2-91	DEL. (P4) TEMP. HAUL ROAD ADD. (D4) NEW TEMP. HAUL ROAD K.M. FITS 6820 BY DE NO. 063721	EK	MM	VP

34x44 "E" SIZE