

Mendel

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
OFFICE OF RESOURCES MANAGEMENT
DEEP MINE SEALING
CUCUMBER RUN WATERSHED
OHIOPILE STATE PARK

STEWART TOWNSHIP
FAYETTE COUNTY, PENNSYLVANIA

CONTRACT NO. SL 138-3-101.1

AS BUILT 1/22/81

DRAWING INDEX

TITLE	DWG. NO.
COVER SHEET	1 OF 10
LOCATION PLAN — VICINITY MAP	2 OF 10
PLAN DEEP MINE SEALING	3 OF 10
PLANS — SEALING NORTH BRANCH MINE COMPLEX	4 OF 10
CONSTRUCTION DETAILS OF DEEP MINE SEALING	5 OF 10
SECTIONS A-A, B-B, & C-C — DETAILS OF DEEP MINE SEALING	6 OF 10
SECTIONS D-D, E-E, F-F, AND G-G — DETAILS OF DEEP MINE SEALING	7 OF 10
CONSTRUCTION DETAILS OF DEEP MINE DRAINAGE	8 OF 10
DIVERSION DITCH DETAILS	9 OF 10
NORTH SIDE DRAINAGE AND SOUTH SEAL EXTENSION PROFILE AND SECTIONS	10 OF 10

MILTON J. SHAPP,

GOVERNOR

MAURICE K. GODDARD

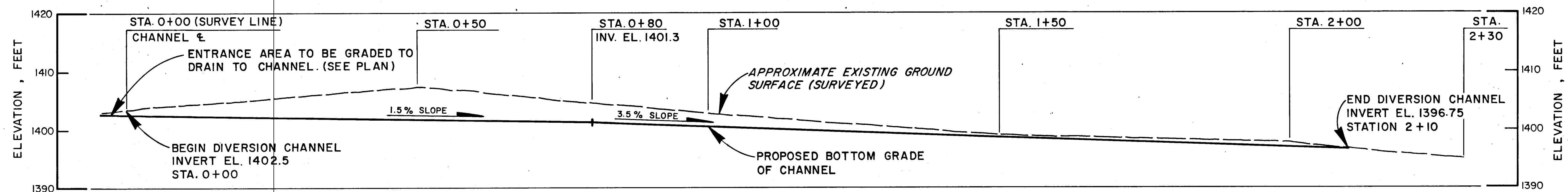
SECRETARY OF ENVIRONMENTAL RESOURCES

Prepared By
E. D'APPOLONIA CONSULTING ENGINEERS, INC.

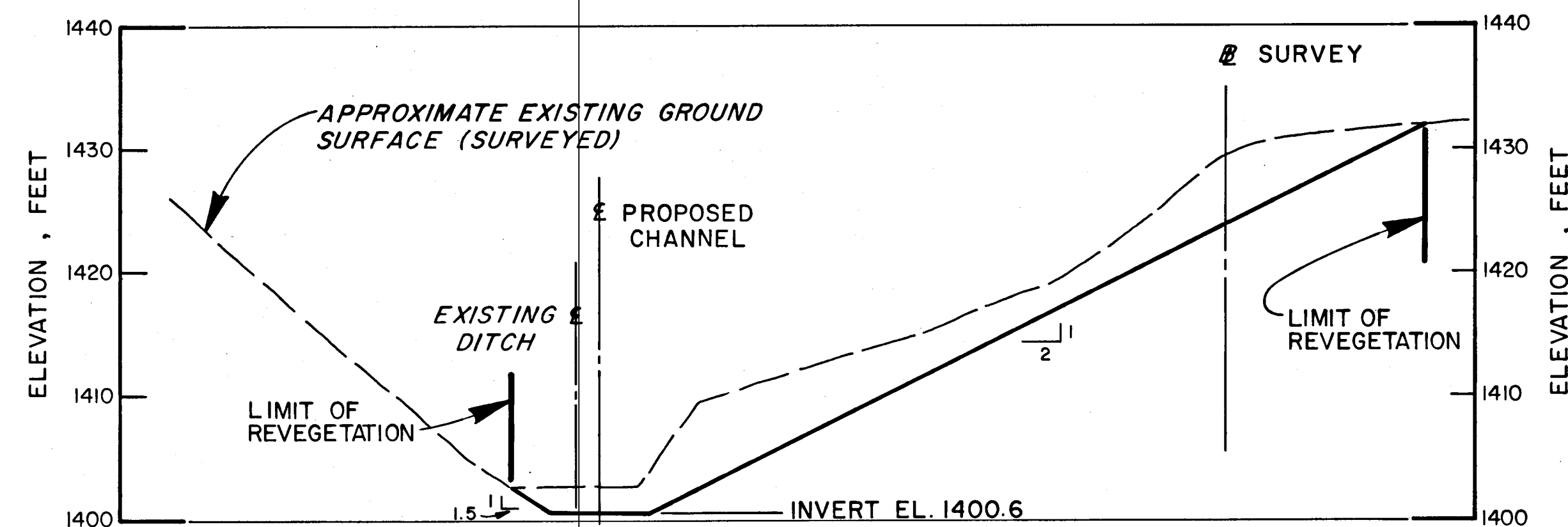
10 Duff Road, Pittsburgh, Pennsylvania

APPROVED

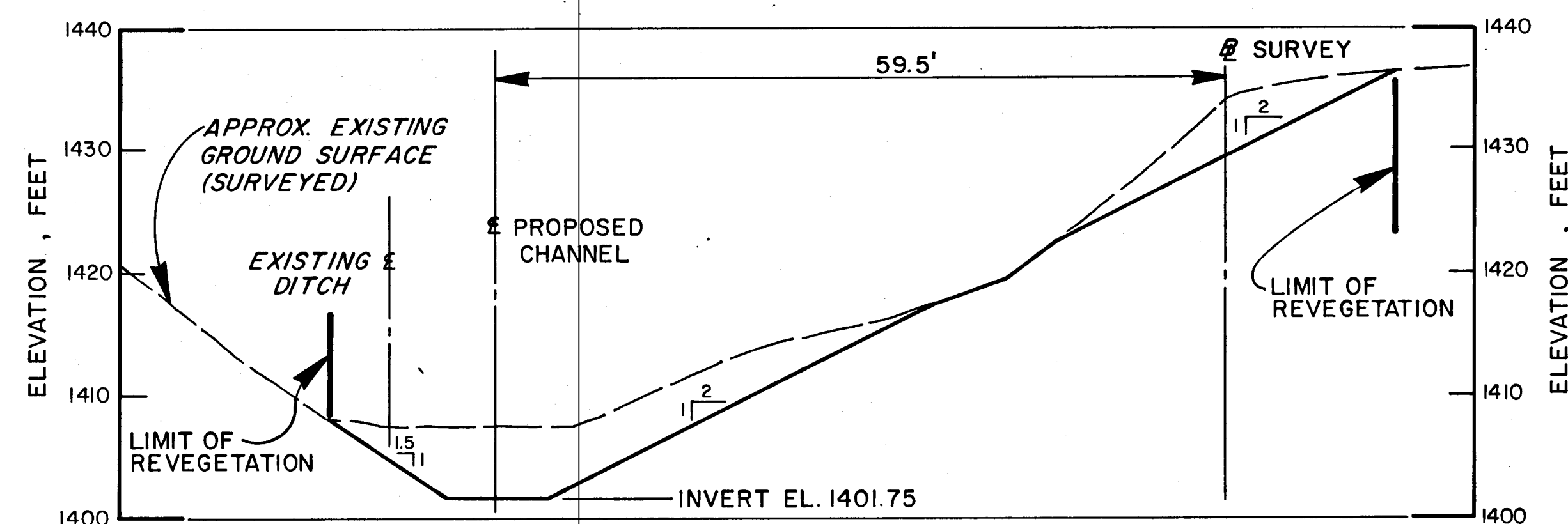
C. H. McConnell Sept 29, 1978
C. H. McCONNELL, DEPUTY SECRETARY DATE
FOR RESOURCES MANAGEMENT



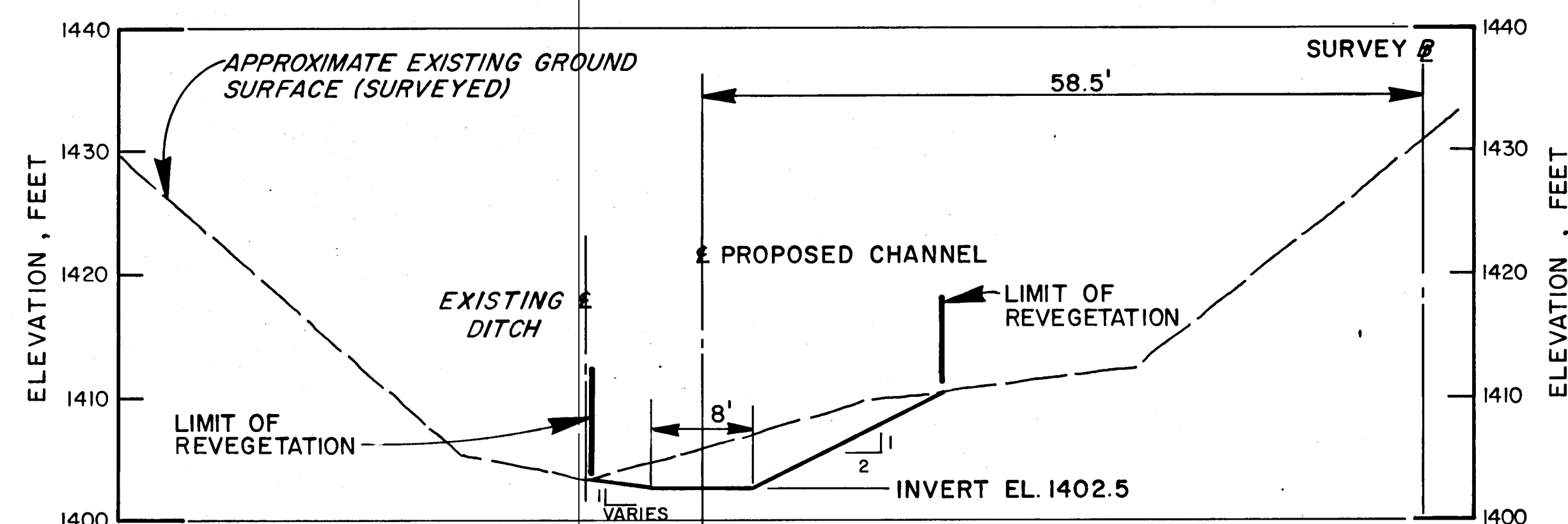
PROFILE ALONG $\hat{C}$ PROPOSED NORTH DIVERSION CHANNEL



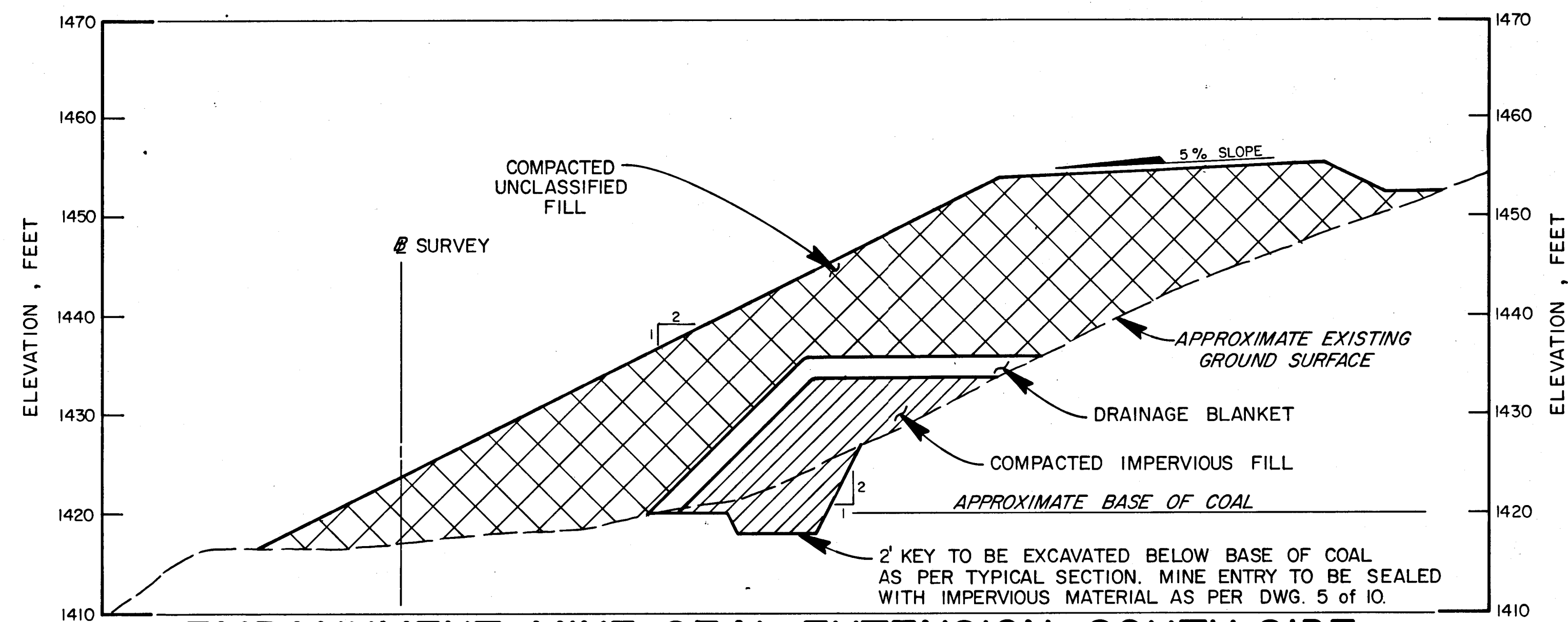
SECTION @ STATION 1+00



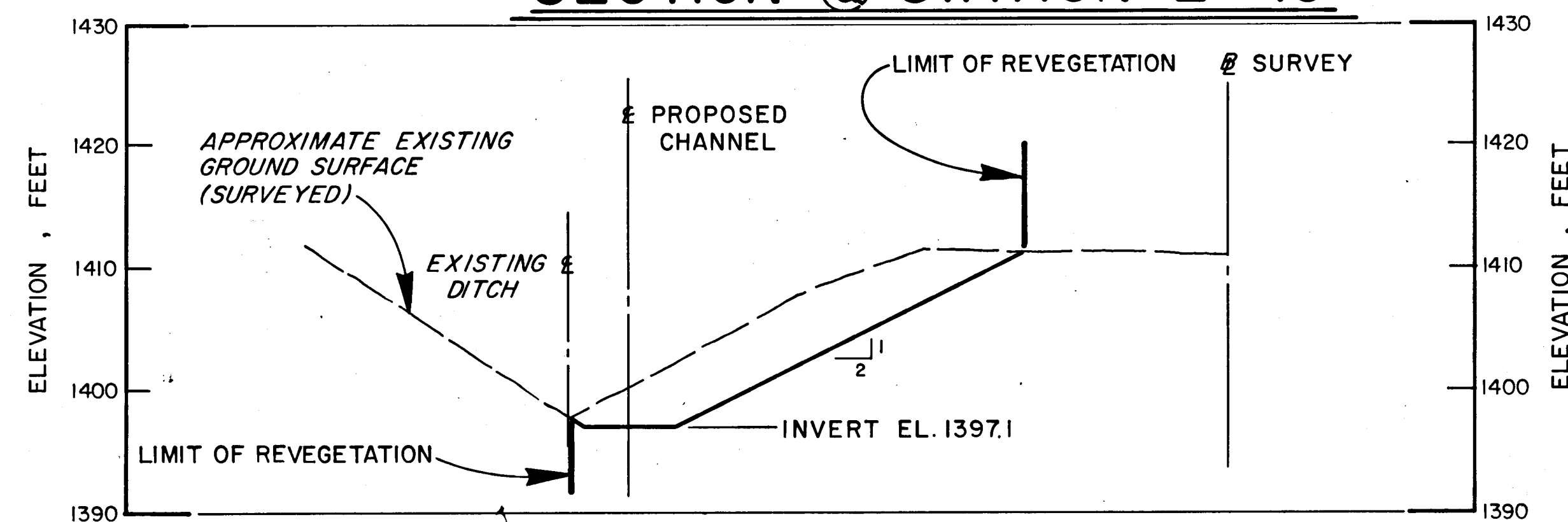
SECTION @ STATION 0+50



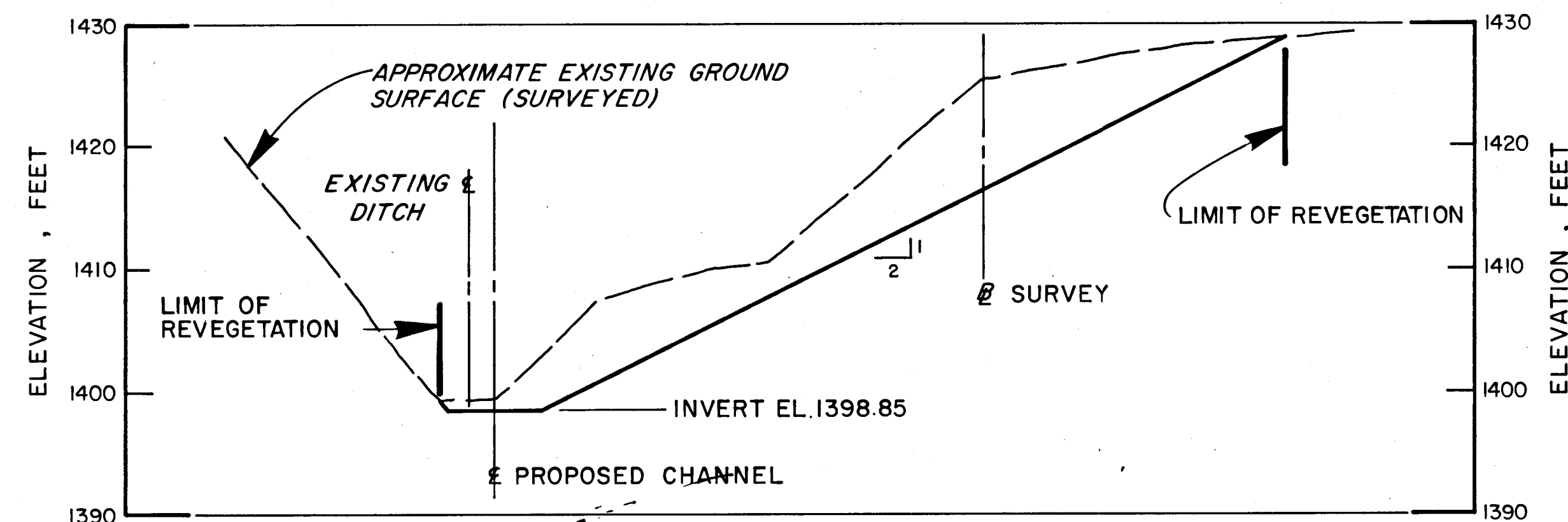
SECTION @ STATION 0+00



**EMBANKMENT MINE SEAL EXTENSION, SOUTH SIDE
SECTION @ STATION 2+15 (LOOKING EAST)**

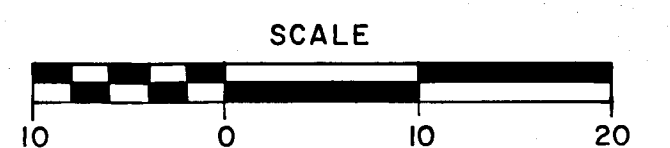


SECTION @ STATION 2+00

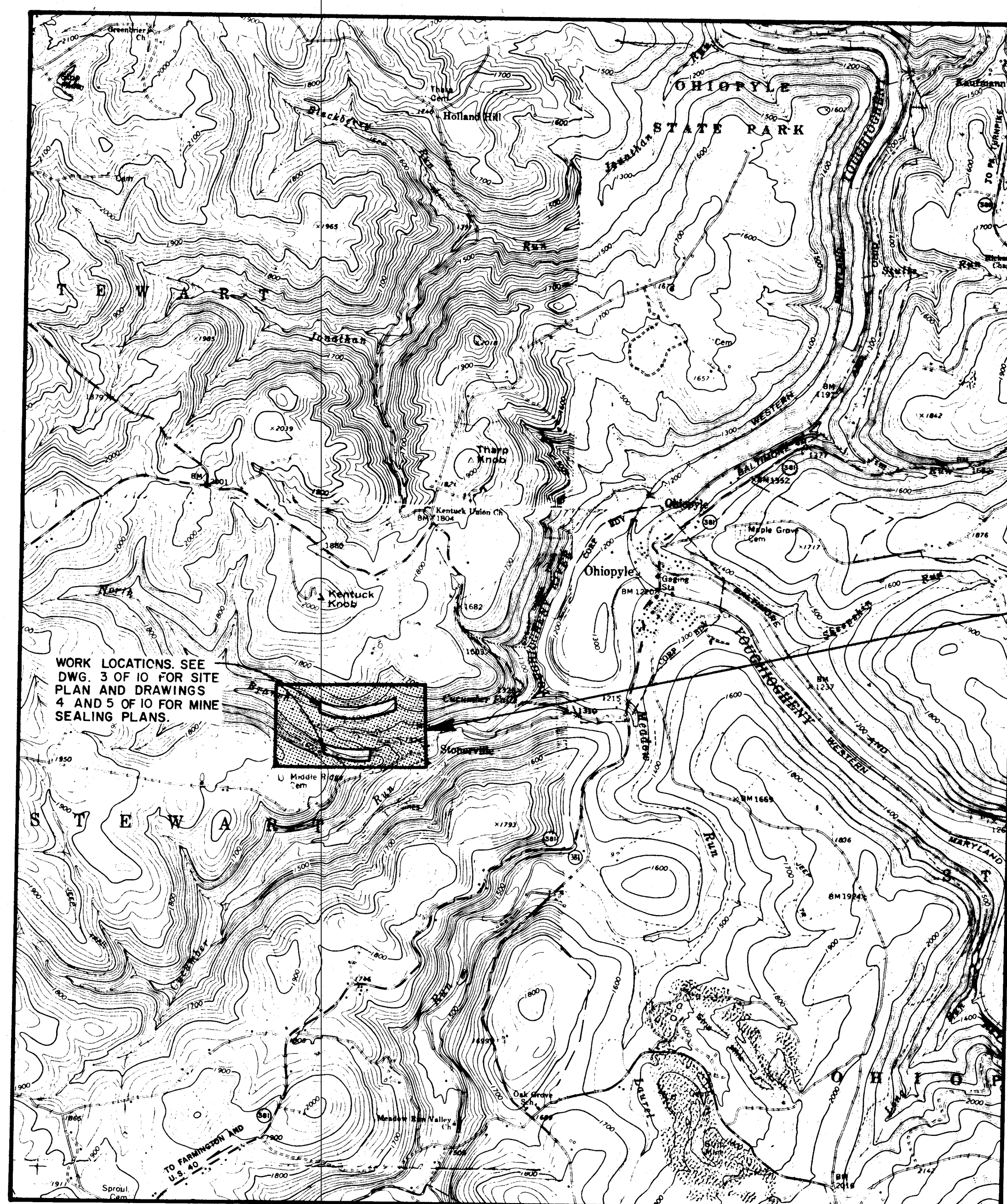


SECTION @ STATION 1+50

NOTE
AS BUILT SURVEY DATA FOR THESE REVISIONS
WAS NOT OBTAINED FOLLOWING CONSTRUCTION.

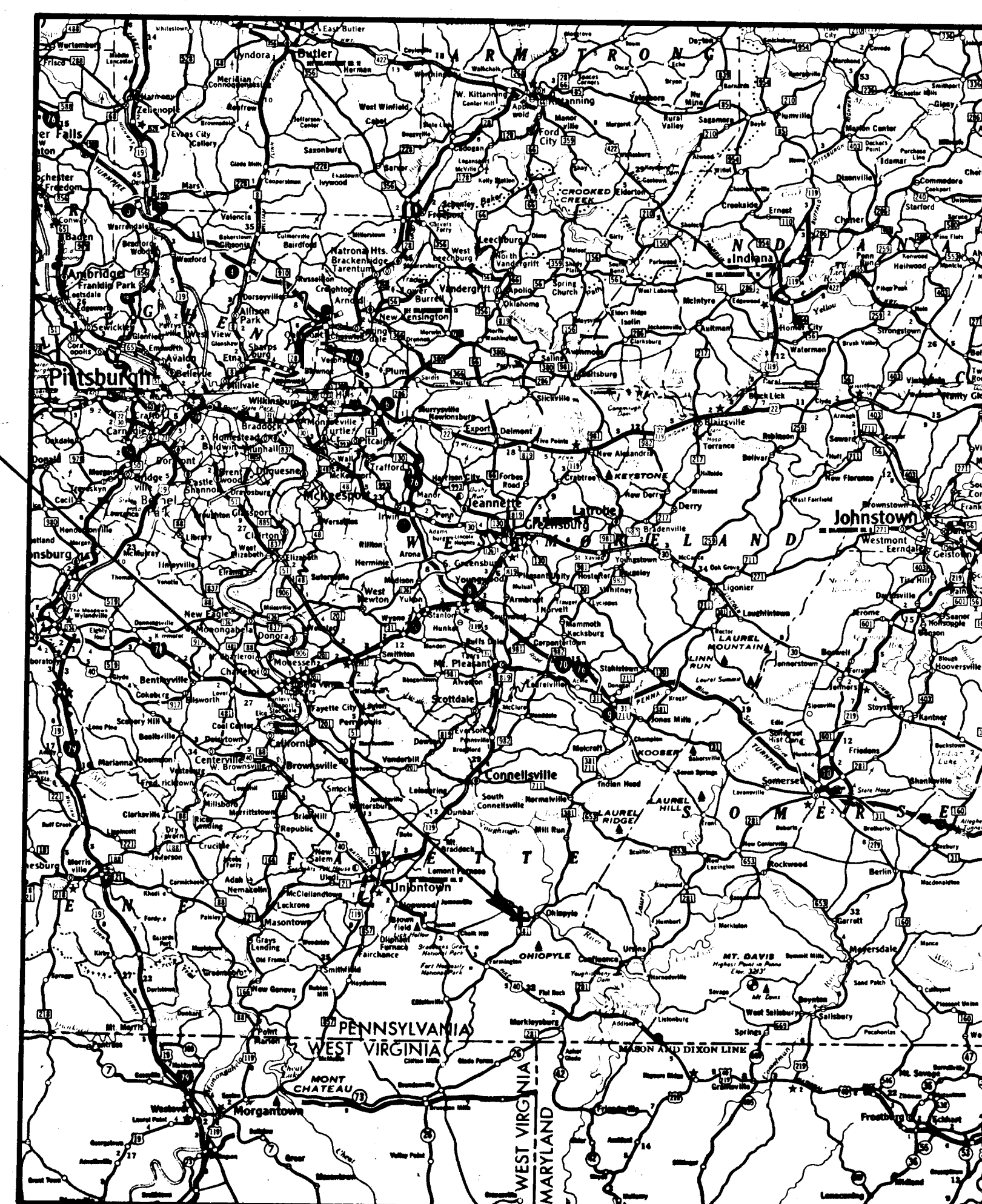
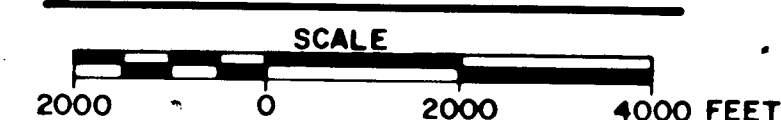


1/22/81 AS BUILT			
NO.	DATE	REVISION	APPR.
SUBMITTER		APPROVED	
JAMES H. POLLAT		JAMES H. POLLAT	
PROFESSIONAL		CHIEF-DIVISION OF MINE RECLAMATION	
APPROVED		DIRECTOR-BUREAU OF DESIGN	
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL138-1-101.1			
DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIOPILE STATE PARK			
E. D'APPOLONIA CONSULTING ENGINEERS, INC. 10 Duff Road Pittsburgh, Pennsylvania			
NORTH SIDE DRAINAGE DIVERSION PROFILE AND CROSS SECTIONS AND CROSS SECTION OF EMBANKMENT MINE SEAL EXTENSION SOUTH SIDE			
DRAWN BY GAM	DATE 8-7-79	DRAWING NO. 10 of 10	
CHECKED BY	SCALE AS SHOWN		

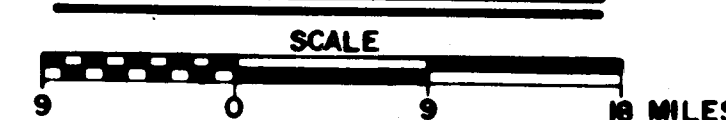


PROJECT
LOCATION

LOCATION PLAN (REFERENCE 1)



VICINITY MAP (REFERENCE 2)



REF. 1.
U.S.G.S. 7.5 MIN. TOPOGRAPHIC MAPS, MILL RUN, SOUTH
CONNELLSVILLE, FORT NECESSITY, AND OHIOPIYLE. DATE 1964

REF. 2.
PENNSYLVANIA, OFFICIAL HIGHWAY MAP, ISSUED 1972.

REFERENCE DRAWINGS

1/22/81		AS BUILT	
NO.	DATE	REVISION	APPR.
SUBMITTED: <i>James H. Hecolt</i>			
APPROVED: <i>Robert A. Rainey</i> CHIEF - DIVISION OF MINE RECLAMATION			
APPROVED: <i>Robert A. Rainey</i> DIRECTOR - BUREAU OF DESIGN			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL138-3-1011			
DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIOPIYLE STATE PARK			
E. D'APPOLONIA CONSULTING ENGINEERS, INC. 10 Duff Road Pittsburgh, Pennsylvania			
LOCATION PLAN VICINITY MAP			
DRAWN BY culligan	DATE 6-26-78	DRAWING NO. 2 of 10	
CHECKED BY <i>JHP</i>	SCALE AS SHOWN		

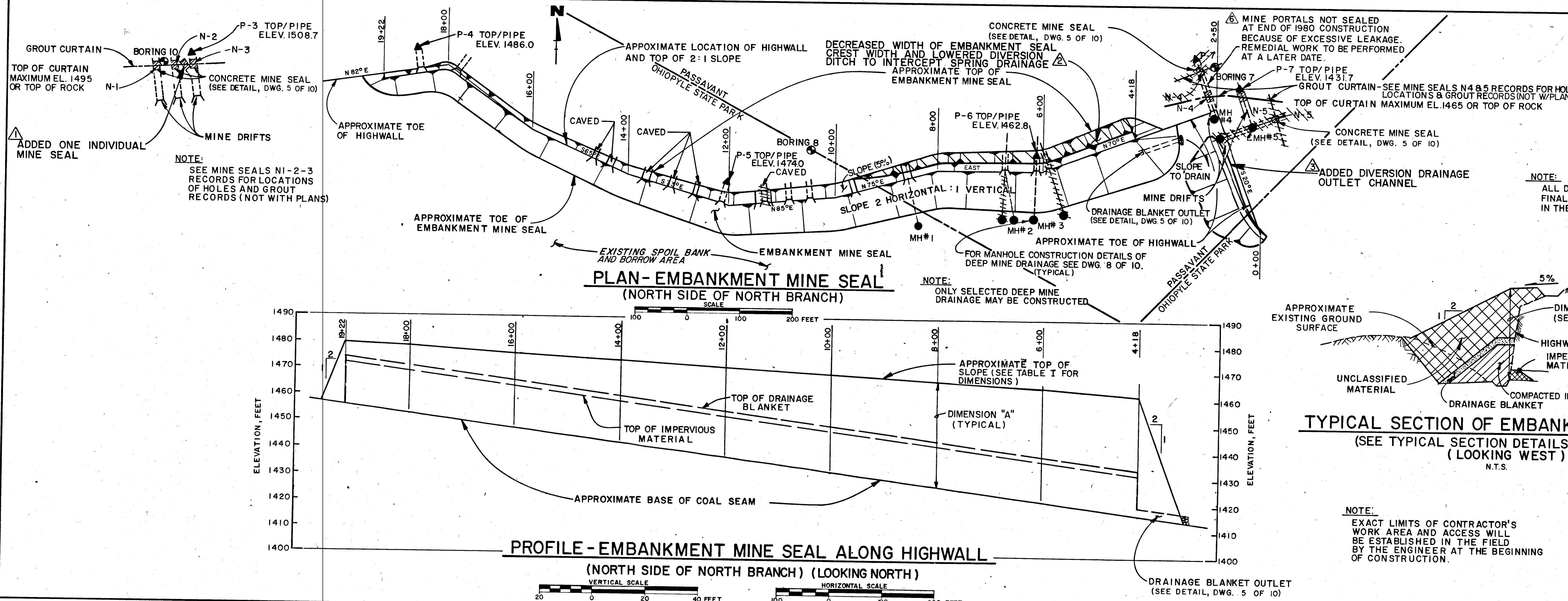
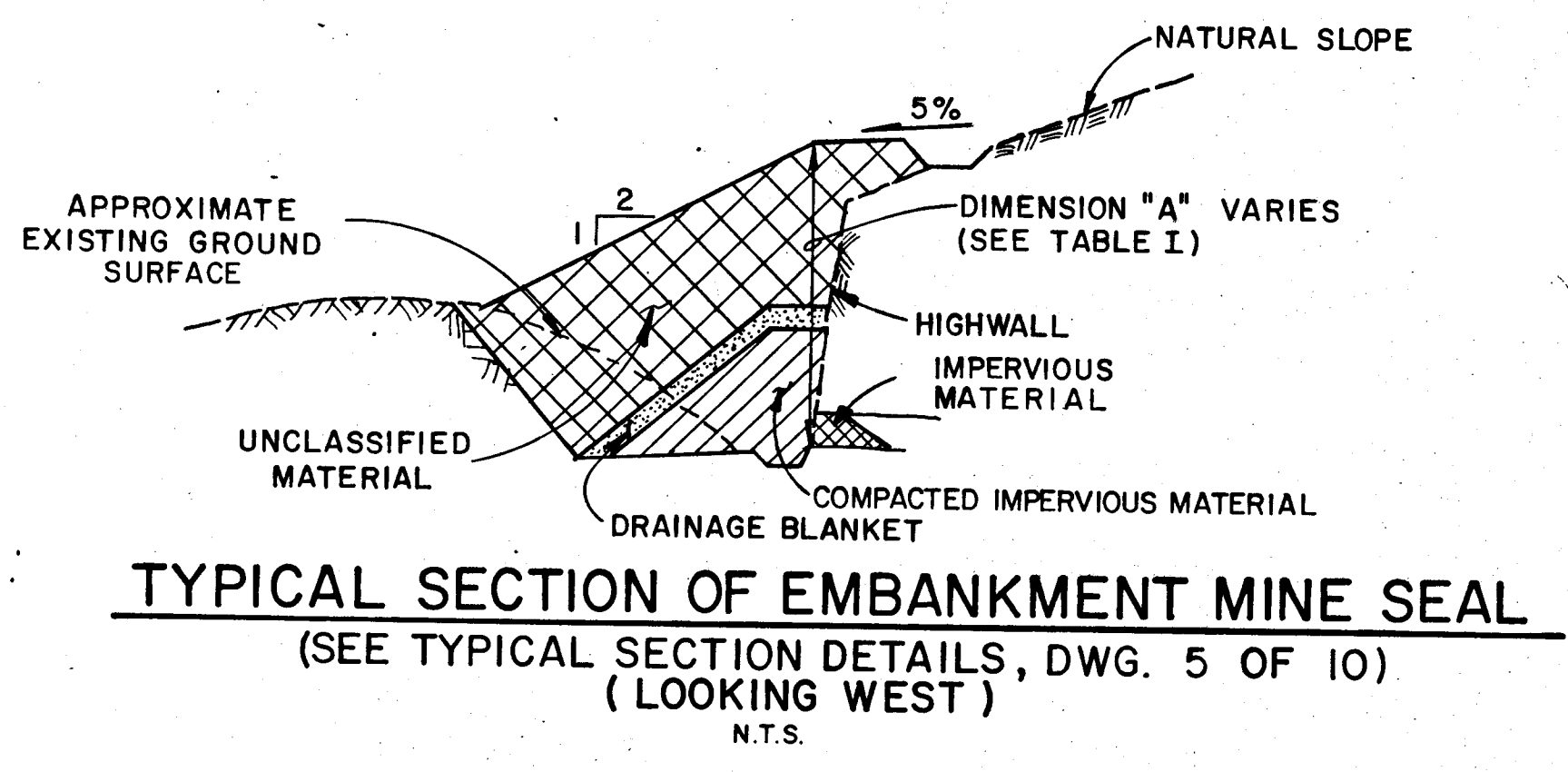
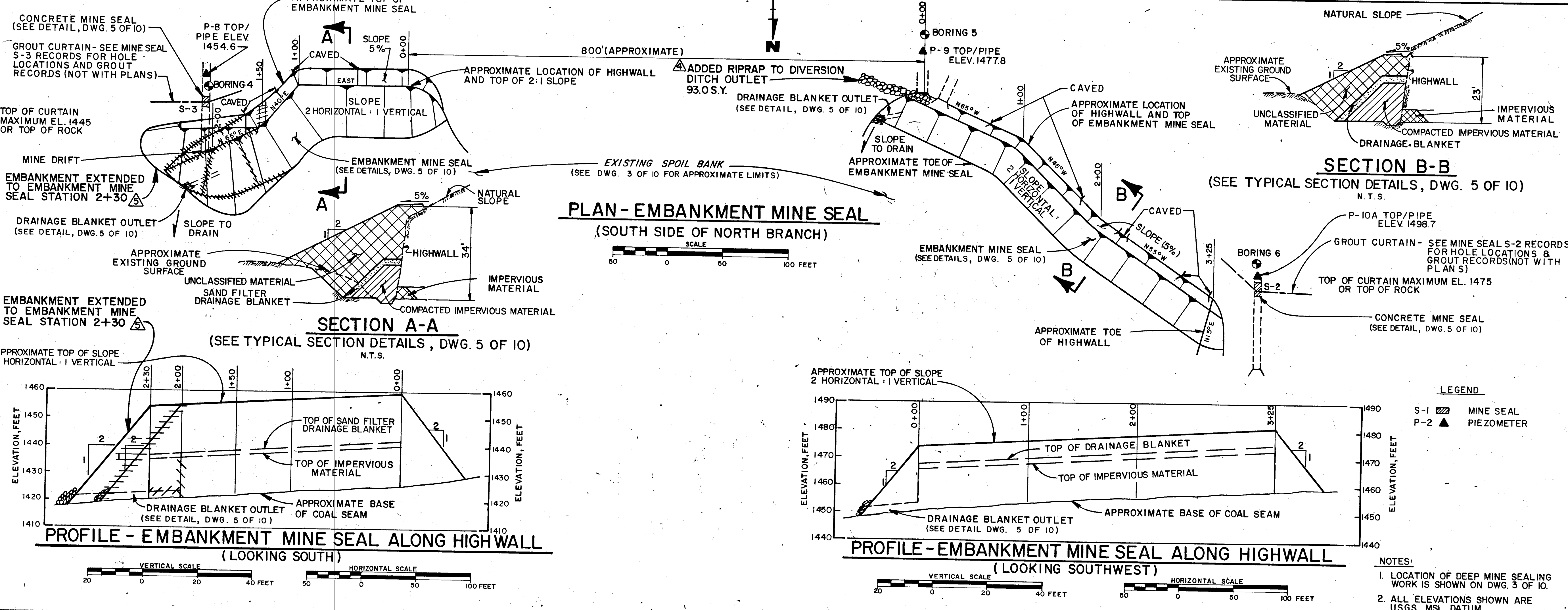


TABLE I

EMBANKMENT SEAL STATION	DIMENSION "A"
19+22	~23.0'
18+00	~26.0'
16+00	~28.0'
14+00	~31.0'
12+00	~34.0'
10+00	~37.0'
8+00	~40.0'
6+00	~43.0'
4+18	~45.0'



- LEGEND**
- N-1 MINE SEAL
 - B-1 BORING (PREVIOUSLY DRILLED)
 - P-1 PIEZOMETER
 - GROUT CURTAIN
 - MINE DRIFT



CONTRACT NO. SL138-3-1011

DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIO-PYLE STATE PARK

E. D'APPOLONIA CONSULTING ENGINEERS, INC.
10 Duff Road, Pittsburgh, Pennsylvania

PLANS SEALING NORTH BRANCH MINE COMPLEX

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT

LEGEND

- I-22-B1 AS BUILT
- I-22-B2 AS BUILT
- I-22-B3 AS BUILT
- I-22-B4 AS BUILT
- I-22-B5 AS BUILT
- I-22-B6 AS BUILT

NO. DATE REVISION APPR.

APPROVED *James H. Poellot*
CHIEF - DIVISION OF MINE RECLAMATION

APPROVED *James H. Poellot*
DIRECTOR - BUREAU OF DESIGN

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT

LEGEND

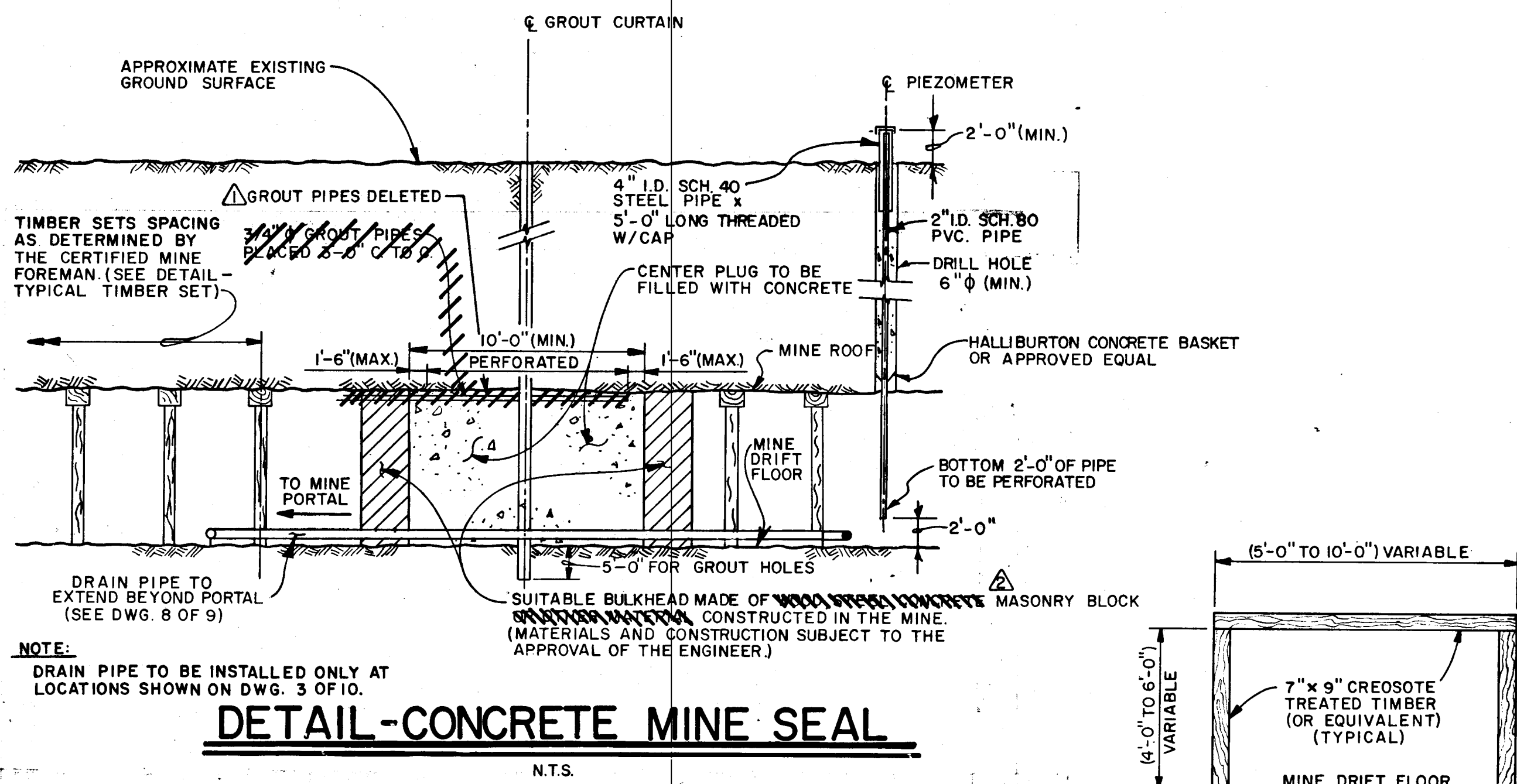
- S-1 MINE SEAL
- P-2 PIEZOMETER

NOTES:

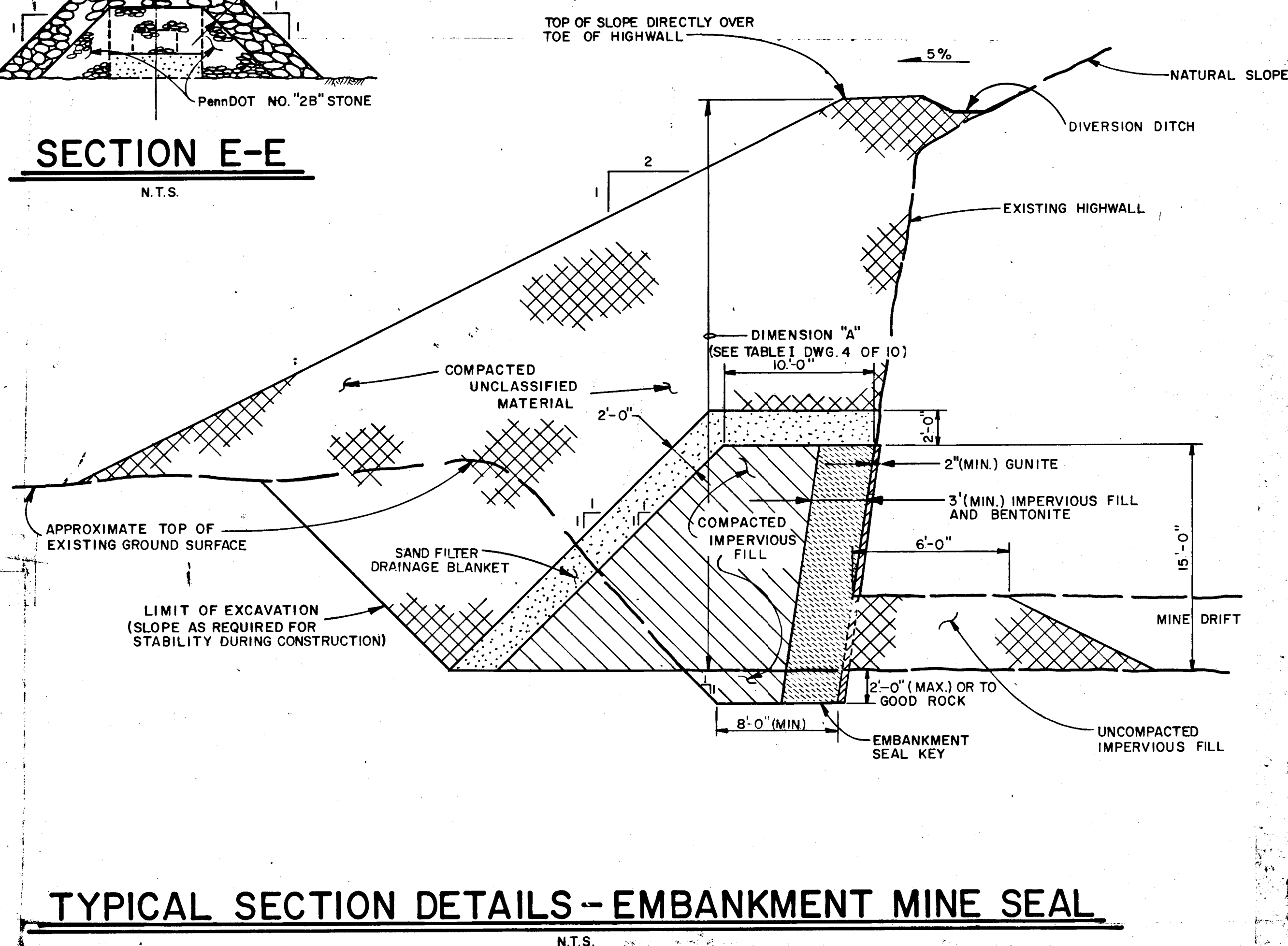
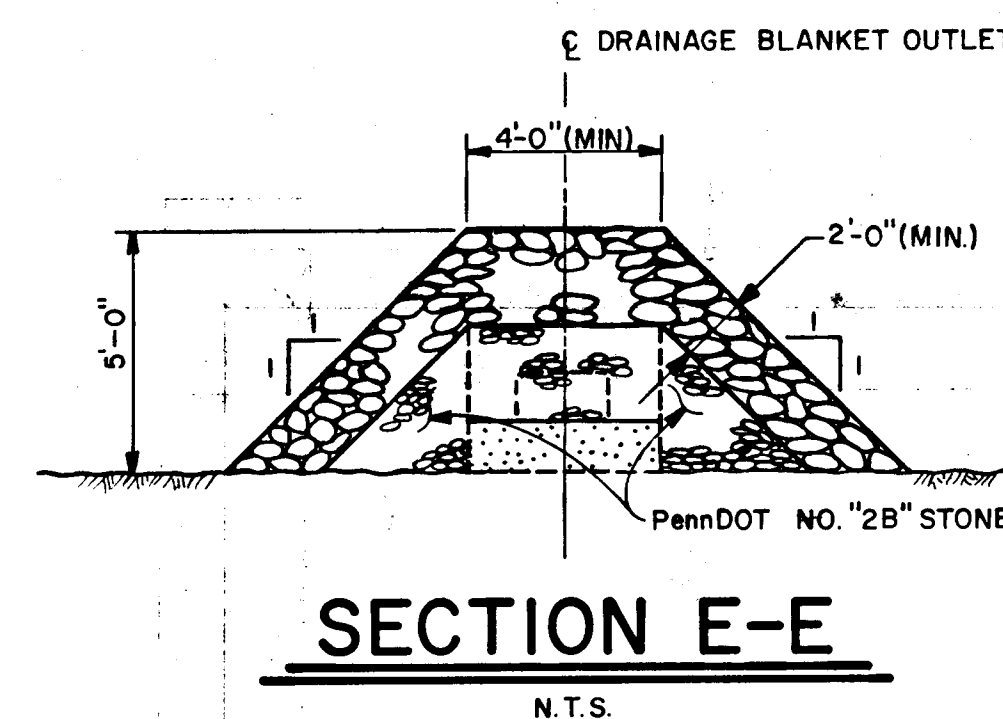
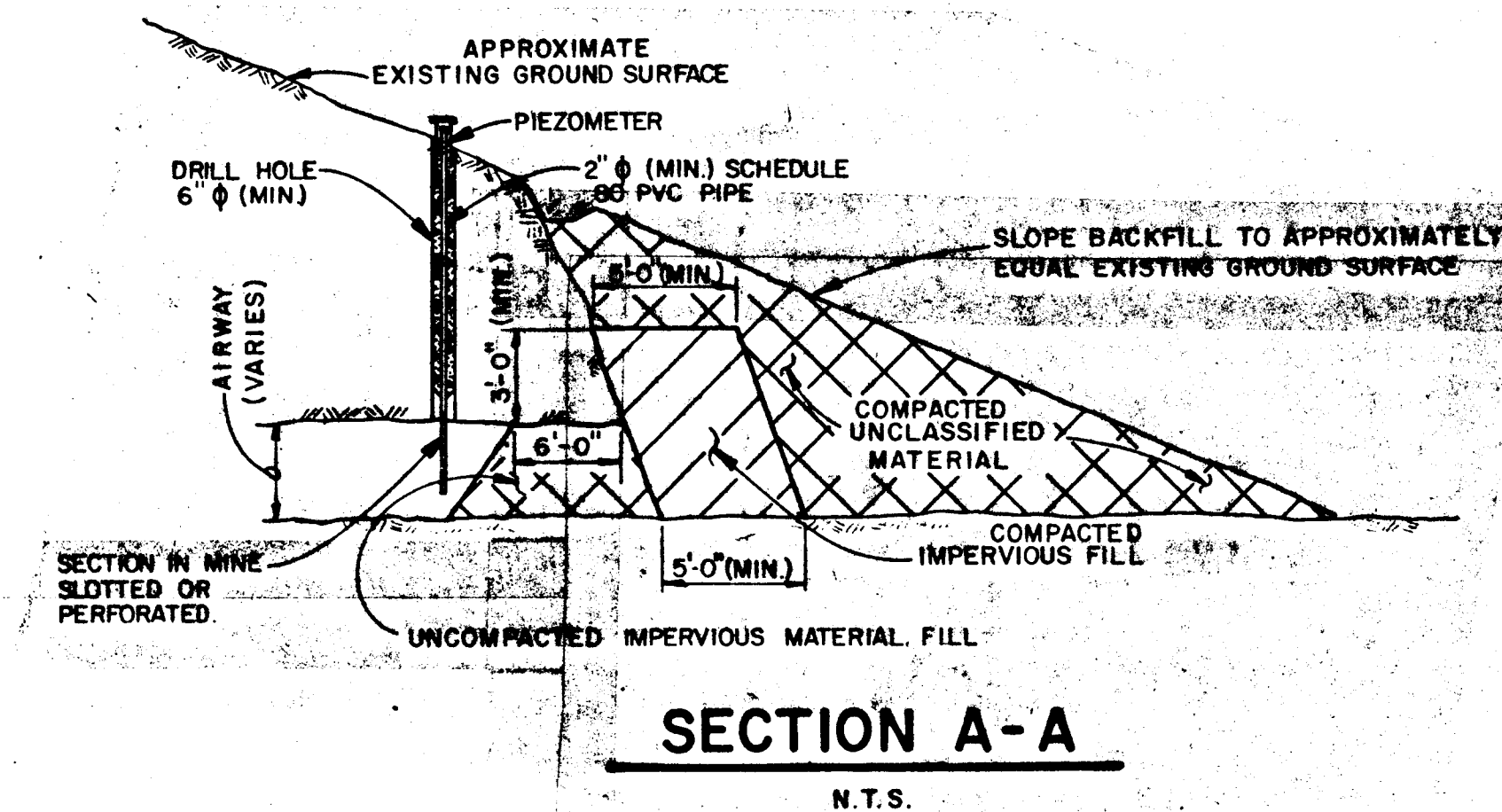
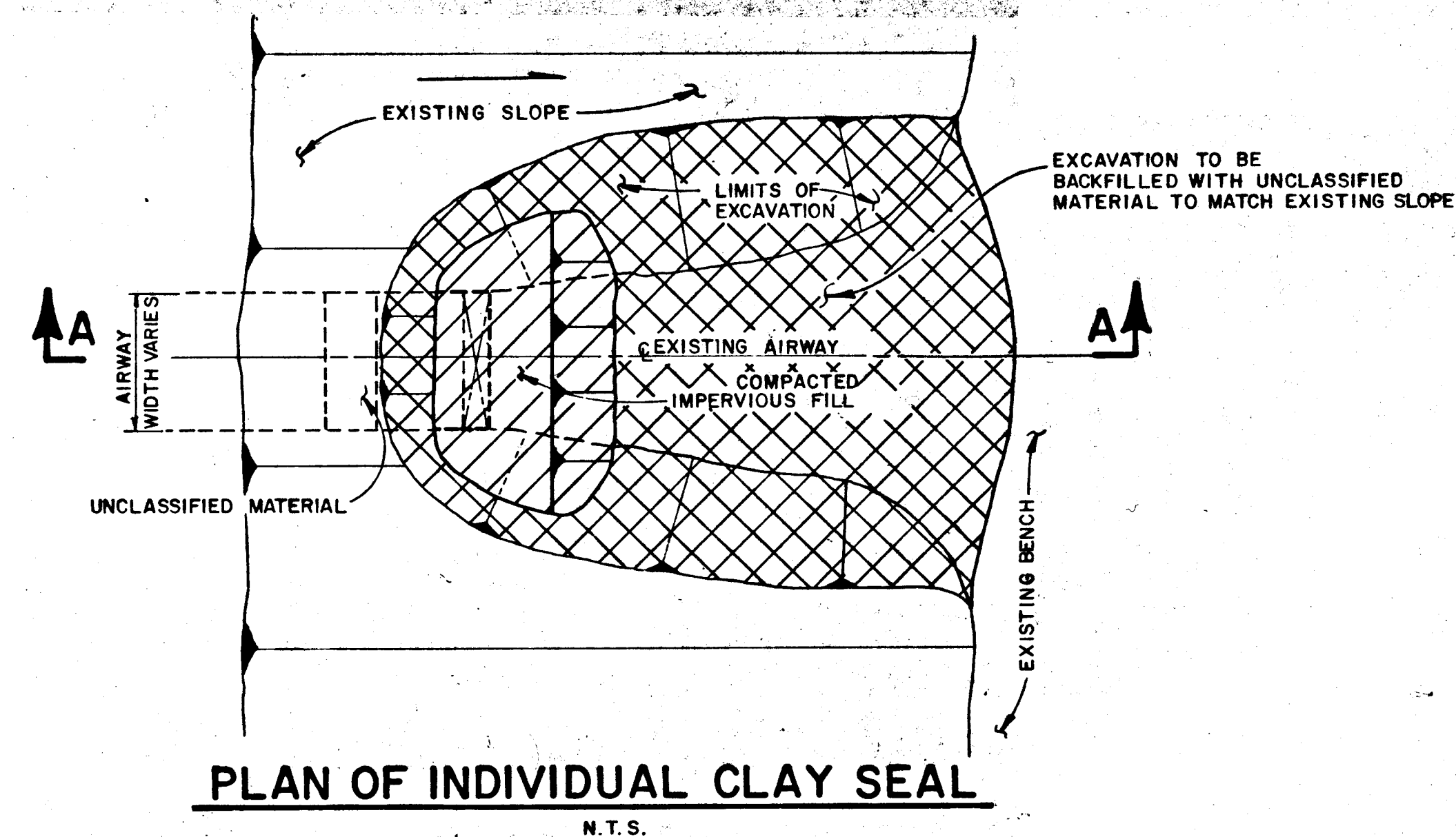
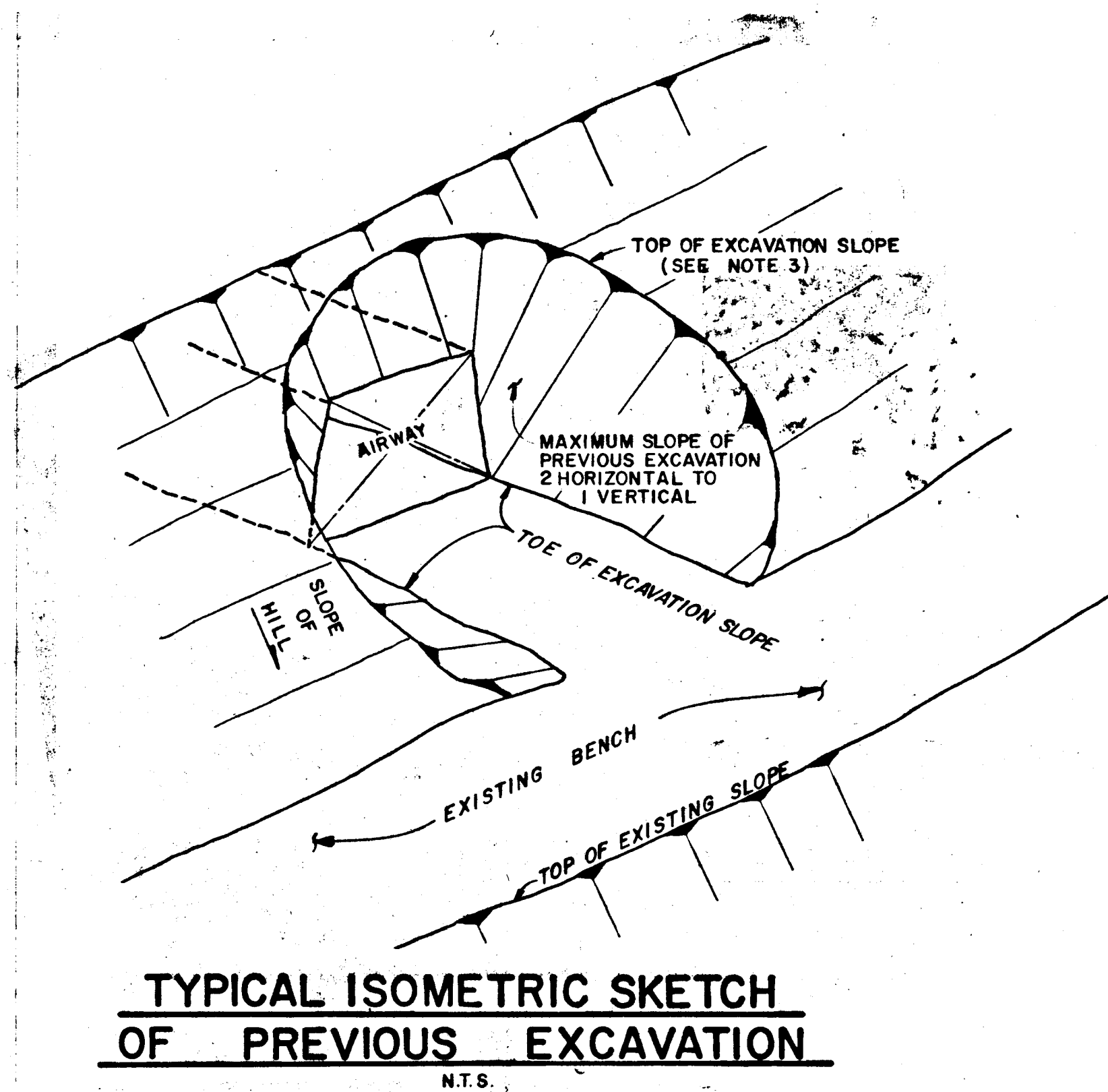
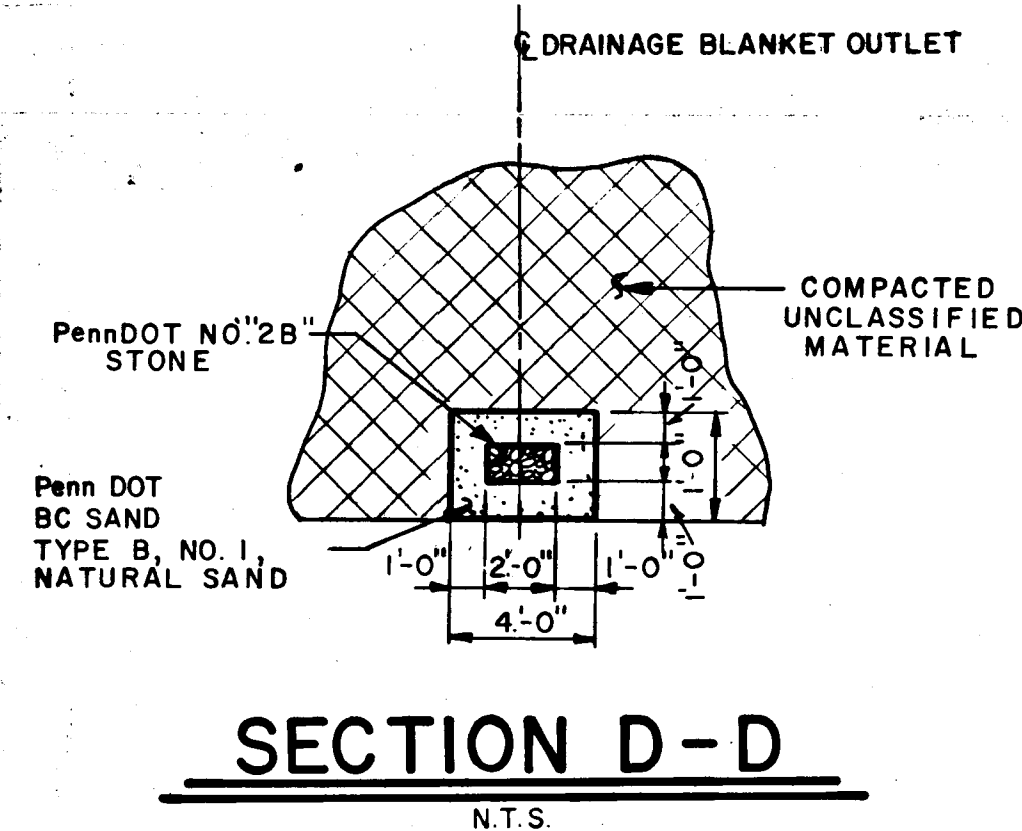
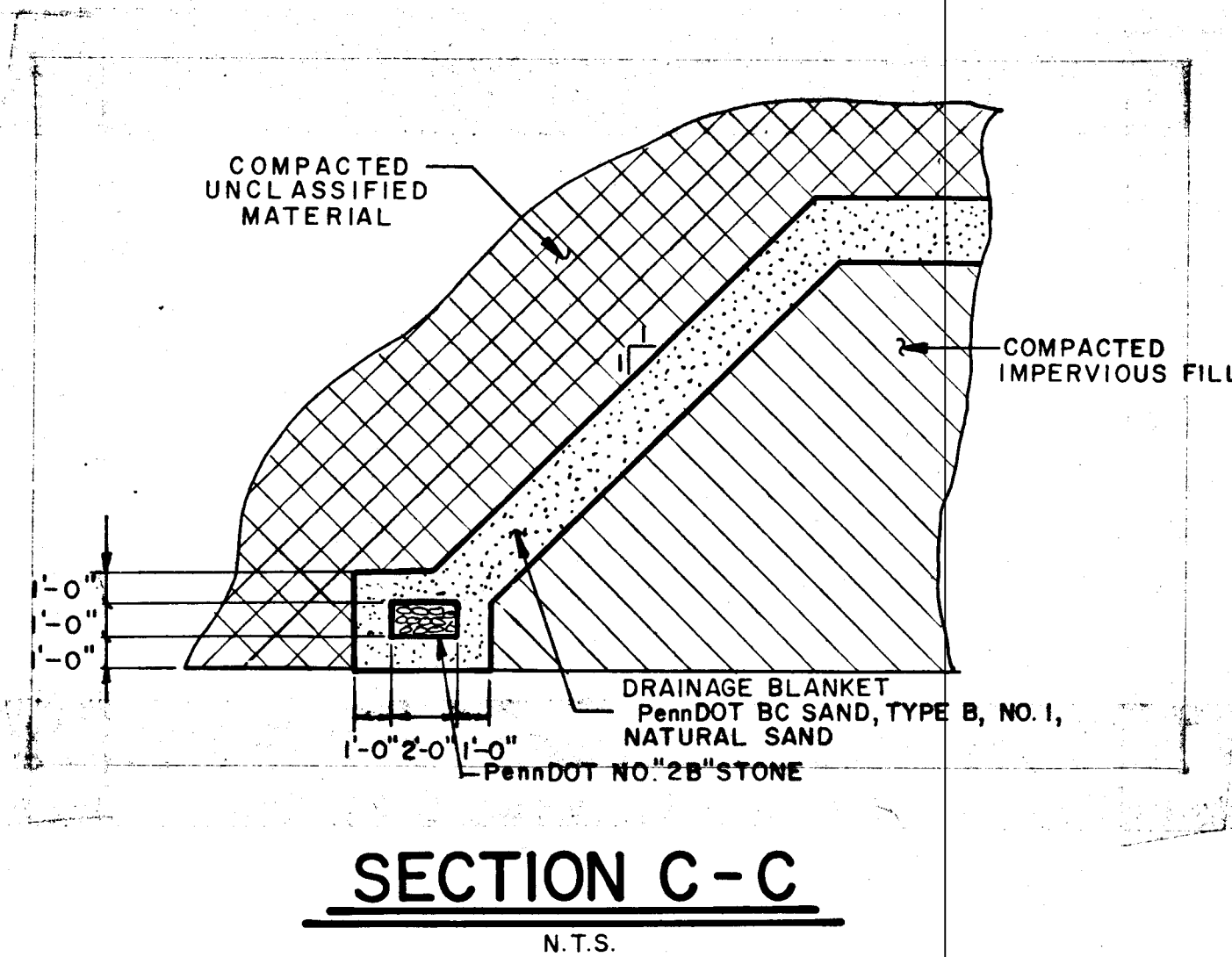
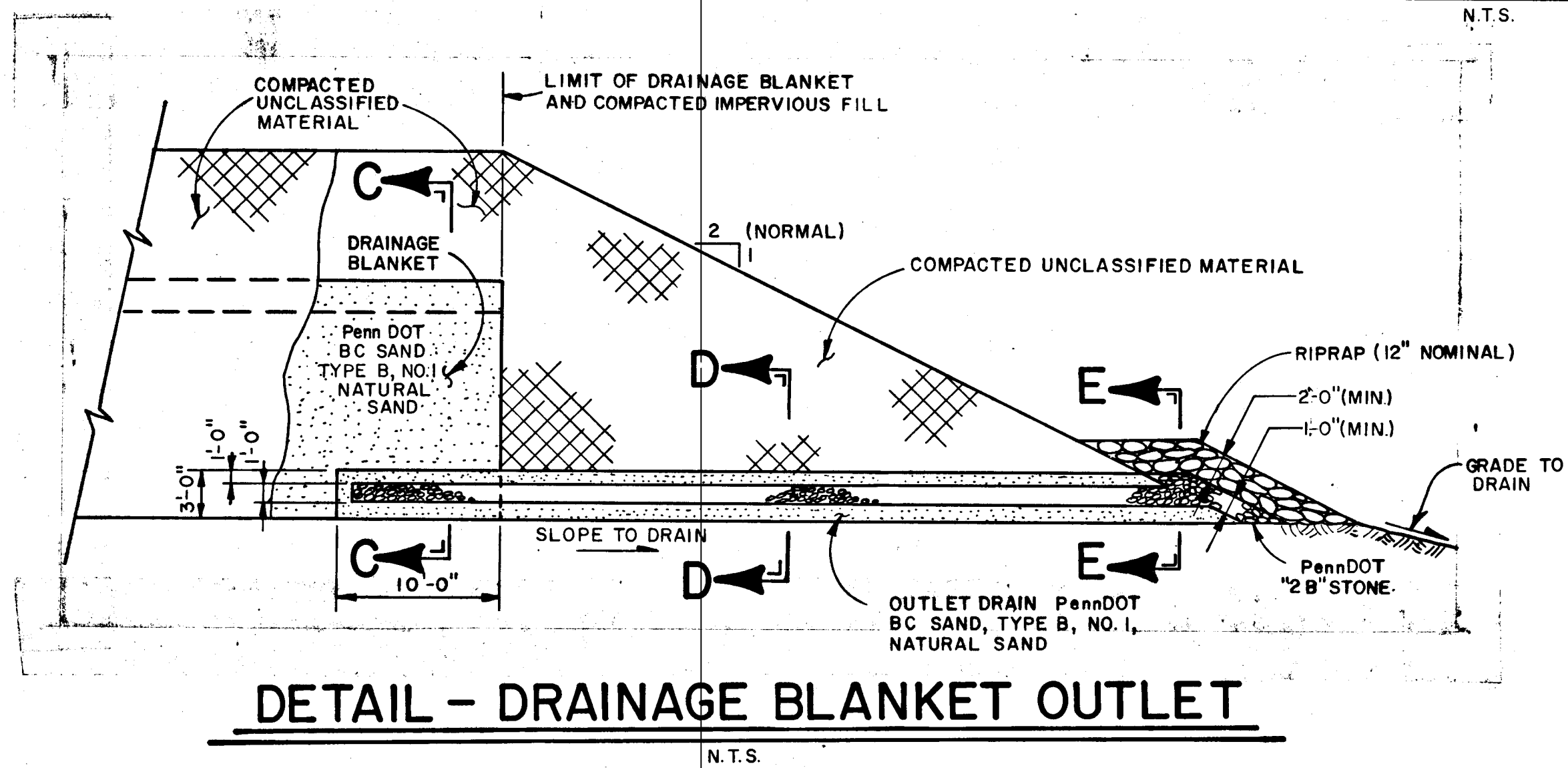
- LOCATION OF DEEP MINE SEALING WORK IS SHOWN ON DWG. 3 OF 10.
- ALL ELEVATIONS SHOWN ARE USGS. MSL DATUM.

DRAWN BY *dam* **DATE** 6-29-78 **DRAWING NO.** 4 of 10

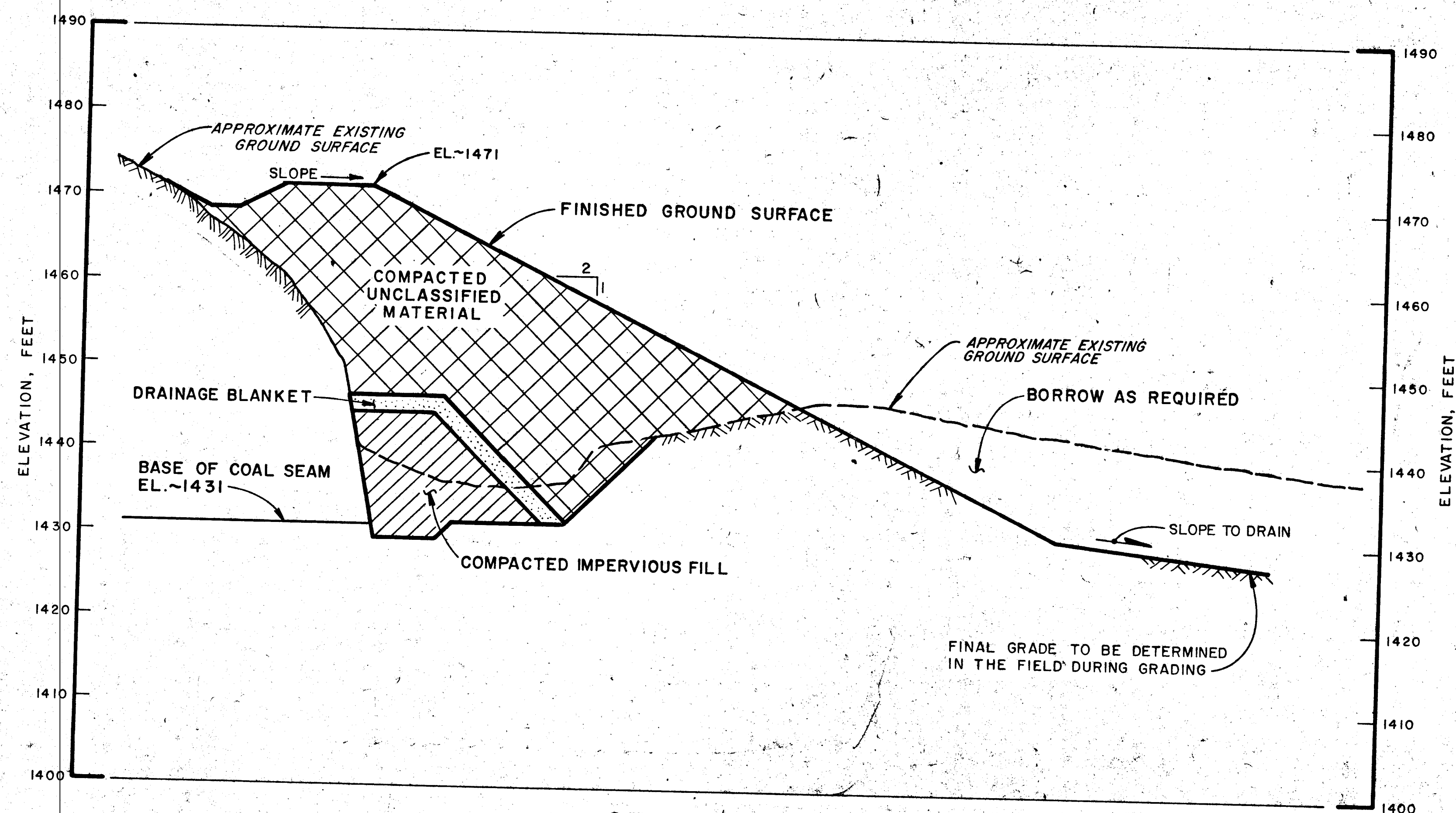
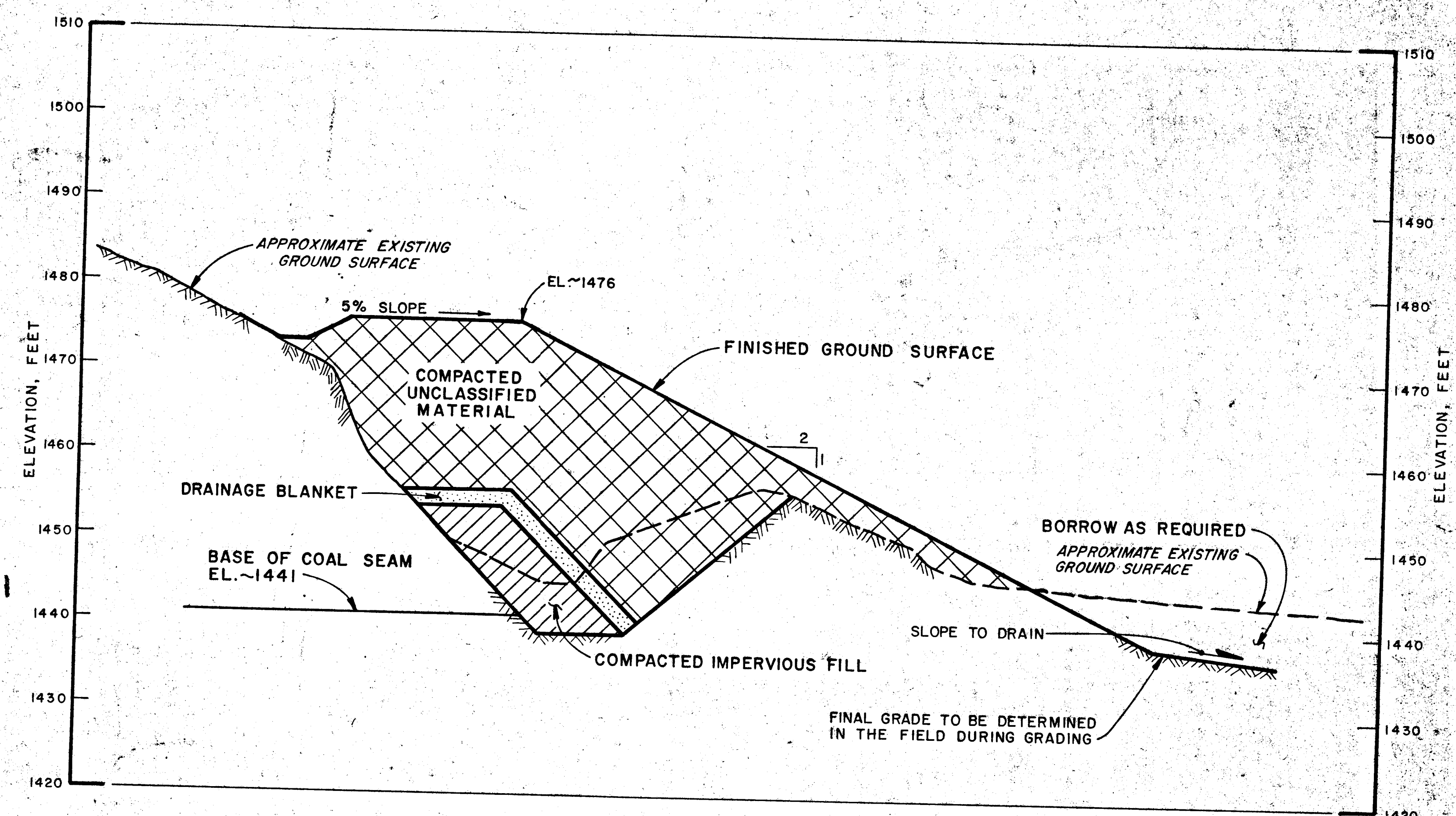
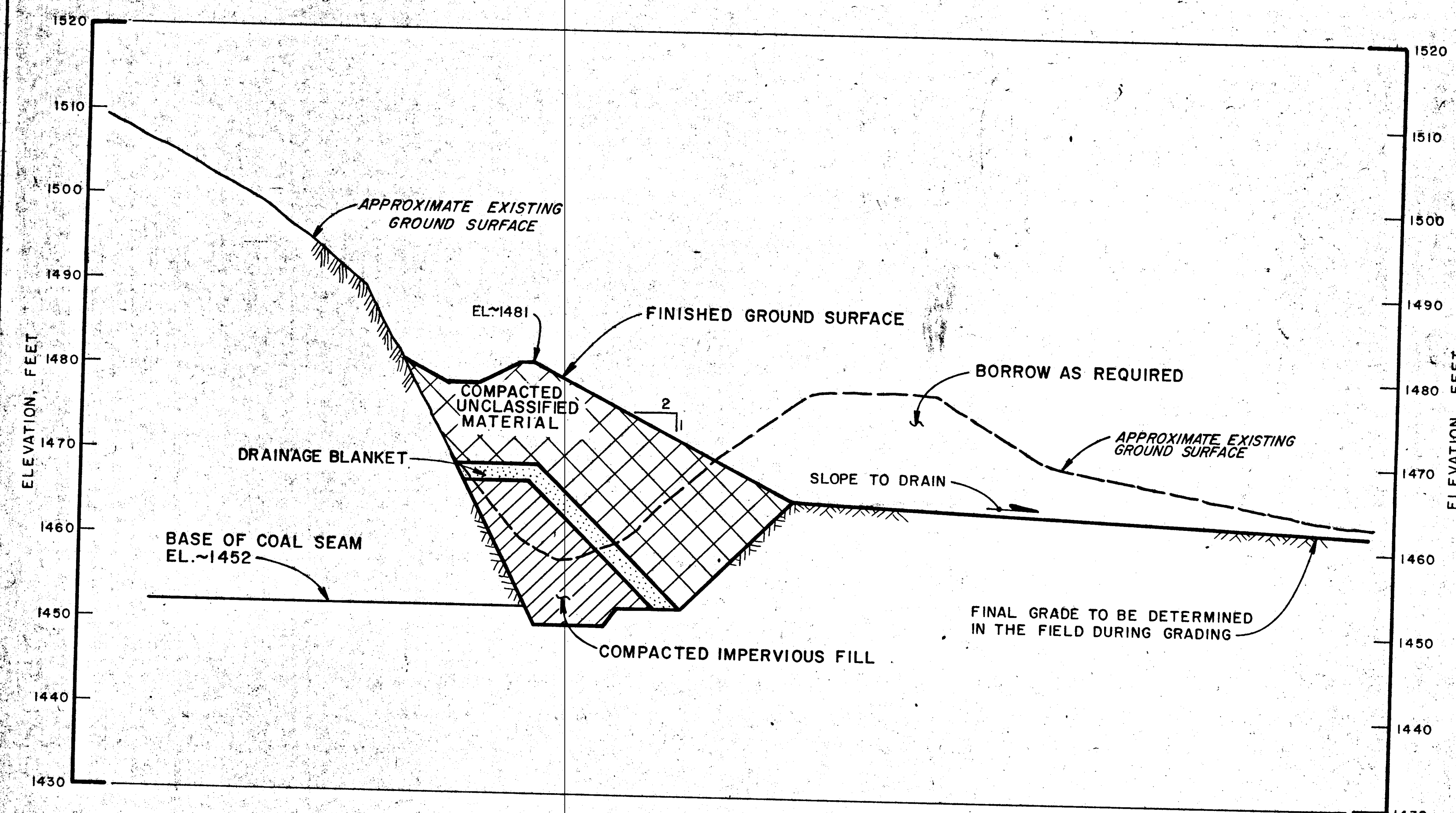
CHECKED BY *ave* **SCALE** AS SHOWN



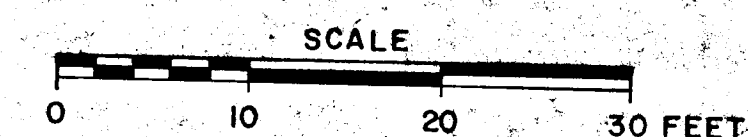
**DETAIL-
TYPICAL TIMBER SET**
N.T.S.



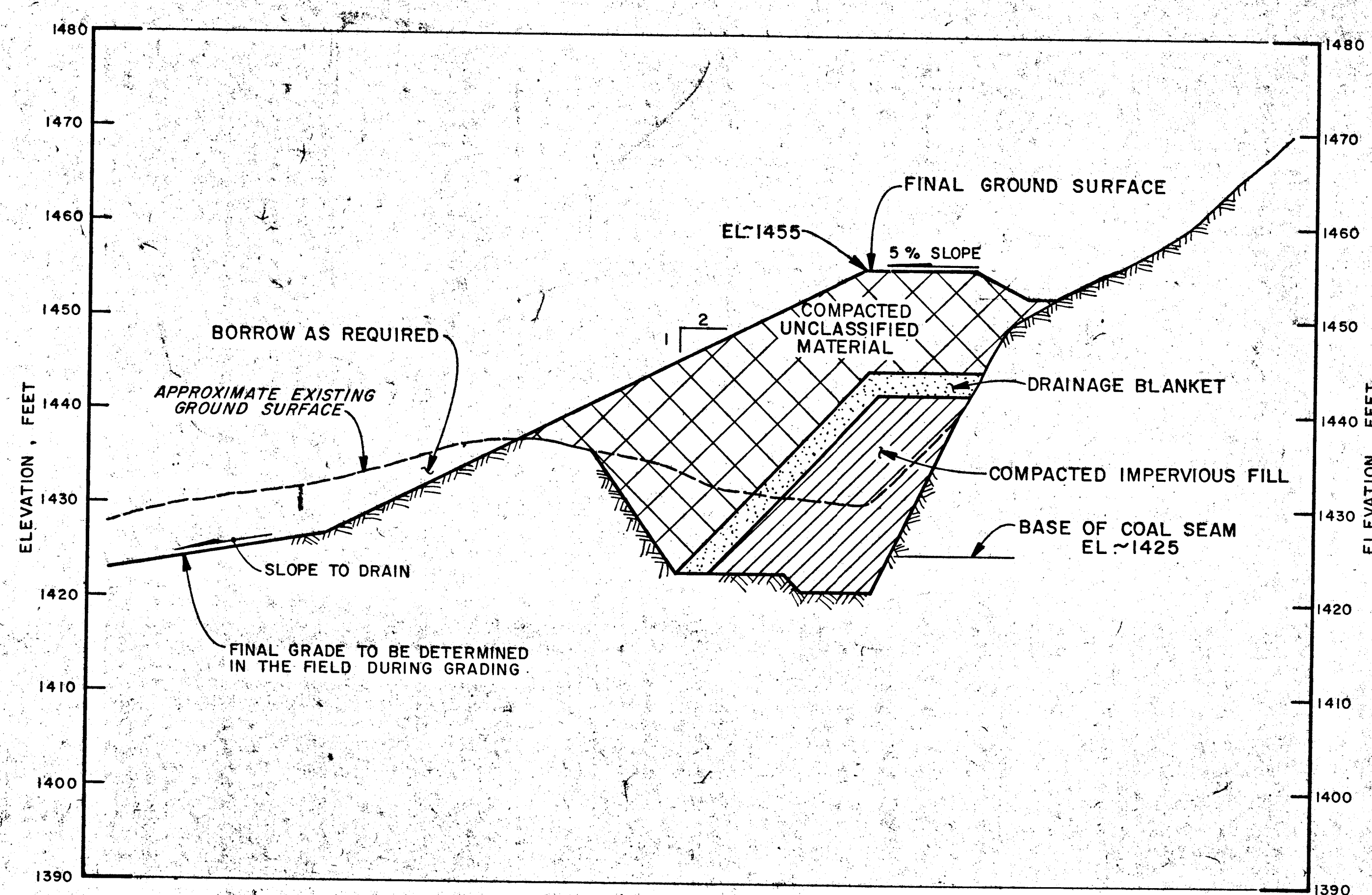
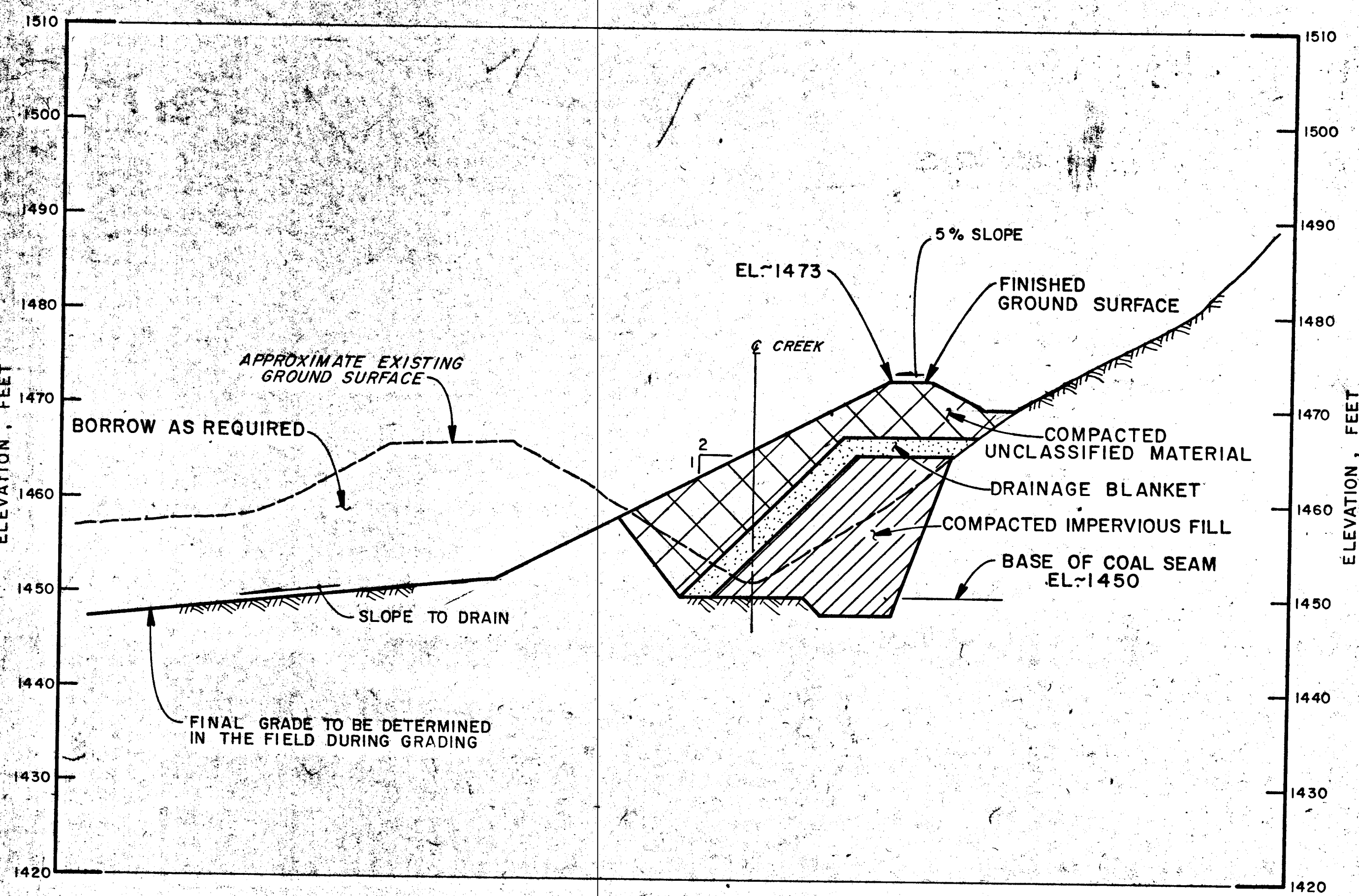
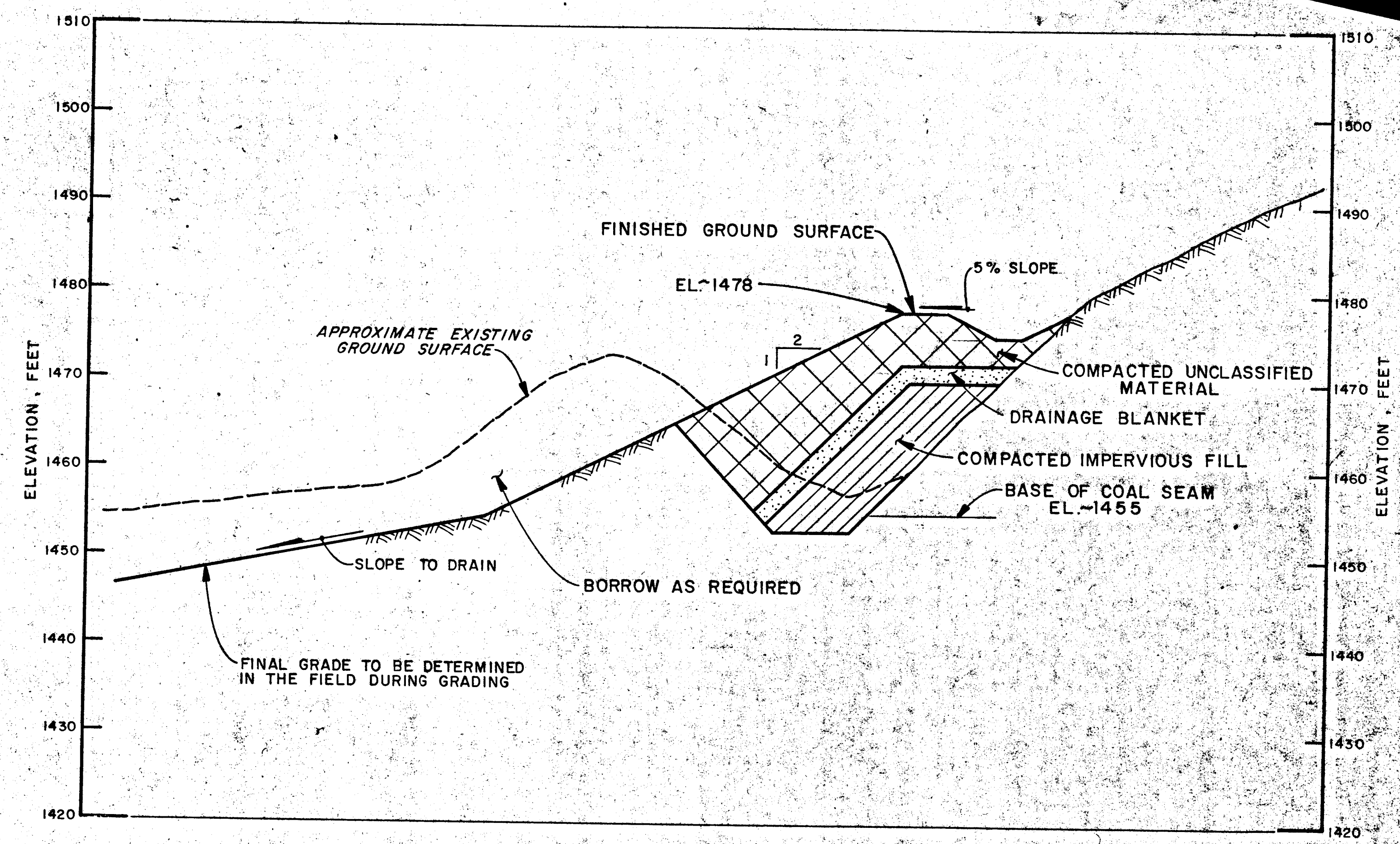
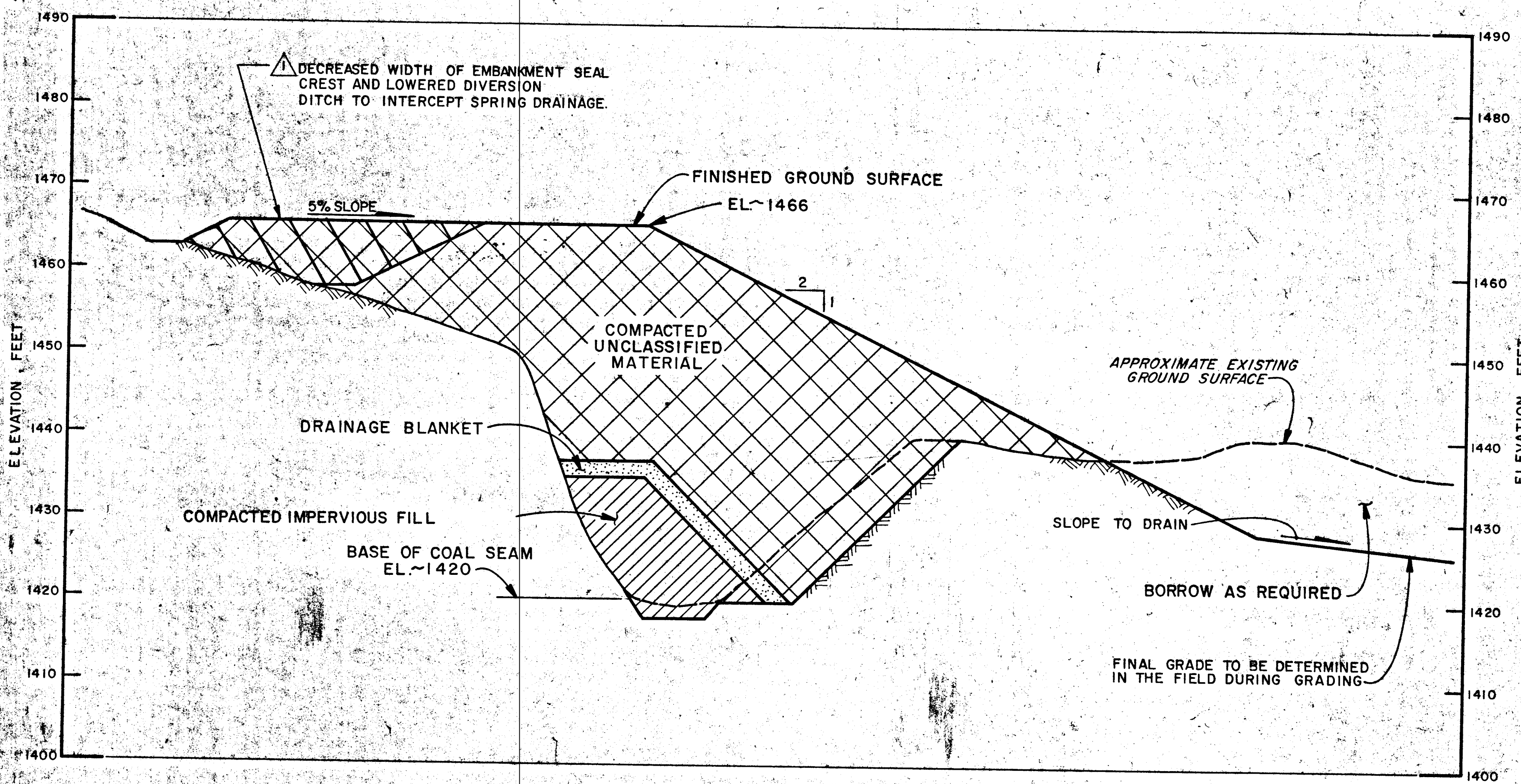
DATE	1/22/81	AS BUILT	
NO.	DATE	REVISION	APPR
SUBMITTER			
APPROVED			
APPROVED			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL138-3-1011			
DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIOPILE STATE PARK			
E. D'APPOLONIA CONSULTING ENGINEERS, INC. 10 Duff Road Pittsburgh, Pennsylvania			
CONSTRUCTION DETAILS OF DEEP MINE SEALING			
DESIGNED BY	DATE	DRAWING NO.	
CHECKED BY	SCALE		5 OF 10



- NOTE:
1. FOR PLAN AND LOCATION OF SECTIONS, SEE DWG. 3 OF 10.
 2. ALL ELEVATIONS SHOWN ARE U.S.G.S. MSL DATUM.
 3. FOR DIMENSIONS, SEE TYPICAL SECTION AND DETAILS, DWG. 5 OF 10.

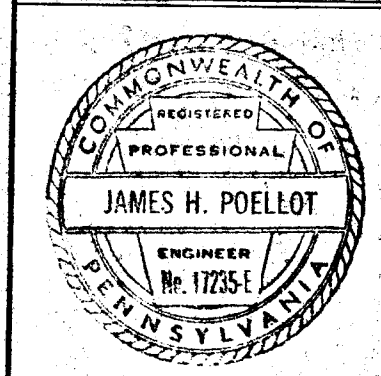


SUBMITTED		DATE		AS BUILT	
NO.		DATE		REVISION	
APPROVED		APPROVED		APPROVED	
JAMES H. POELLIT		JAMES H. POELLIT		JAMES H. POELLIT	
PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER	
COMMONWEALTH OF PENNSYLVANIA		COMMONWEALTH OF PENNSYLVANIA		COMMONWEALTH OF PENNSYLVANIA	
DEPARTMENT OF ENVIRONMENTAL RESOURCES		DEPARTMENT OF ENVIRONMENTAL RESOURCES		DEPARTMENT OF ENVIRONMENTAL RESOURCES	
OFFICE OF RESOURCES MANAGEMENT		OFFICE OF RESOURCES MANAGEMENT		OFFICE OF RESOURCES MANAGEMENT	
CONTRACT NO. SL138-3-1011					
DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIOPILE STATE PARK					
E. D'APPOLONIA CONSULTING ENGINEERS, INC. 10 Duff Road Pittsburgh, Pennsylvania					
SECTIONS A-A, B-B & C-C DETAILS OF DEEP MINE SEALING					
DRAWN BY RDB		DATE 6-23-78		DRAWING NO. 6 of 10	
CHECKED BY JHP		SCALE AS SHOWN			



- NOTES:
- FOR PLAN AND LOCATION OF SECTIONS, SEE DWG. 3 OF 10.
 - ALL ELEVATIONS SHOWN ARE U.S.G.S MSL DATUM.
 - FOR DIMENSIONS, SEE TYPICAL SECTION, DWG. 5 OF 10.

NO.	DATE	REVISION	APPR.
1	12/22/81	AS BUILT	
SUBMITTED			
APPROVED			
APPROVED			



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
OFFICE OF RESOURCES MANAGEMENT

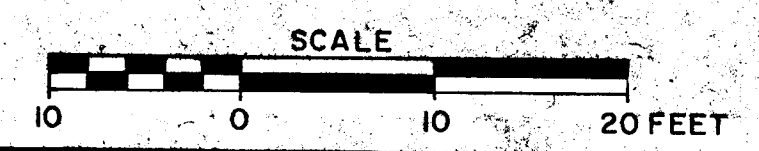
CONTRACT NO. SL138-3-101J

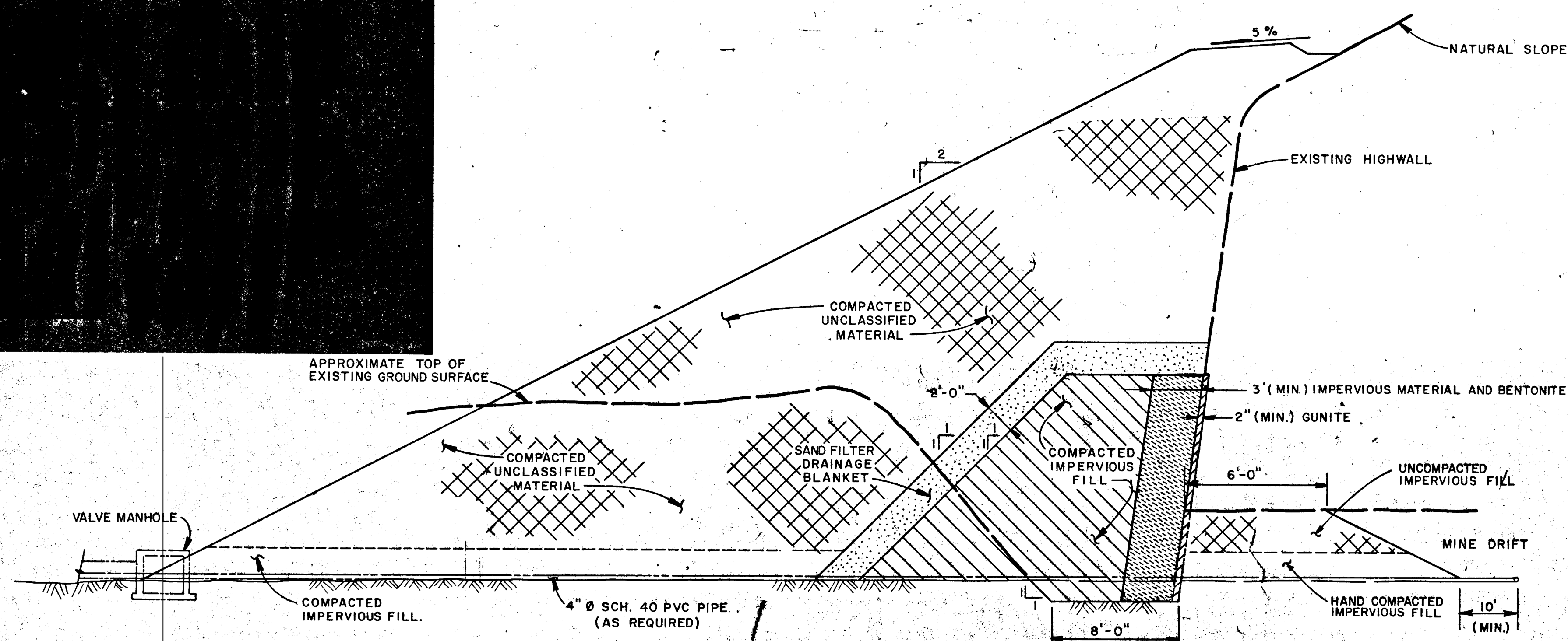
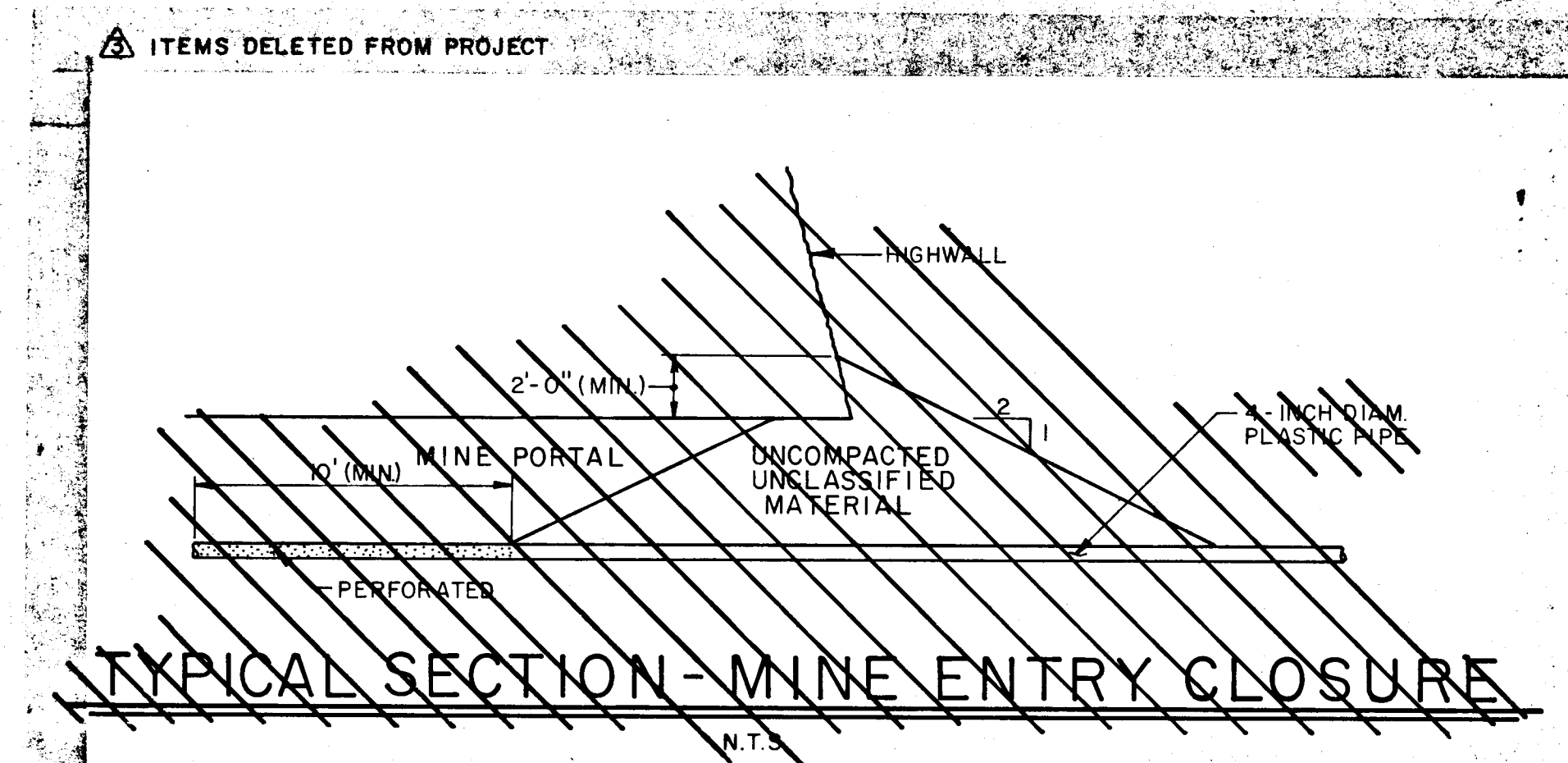
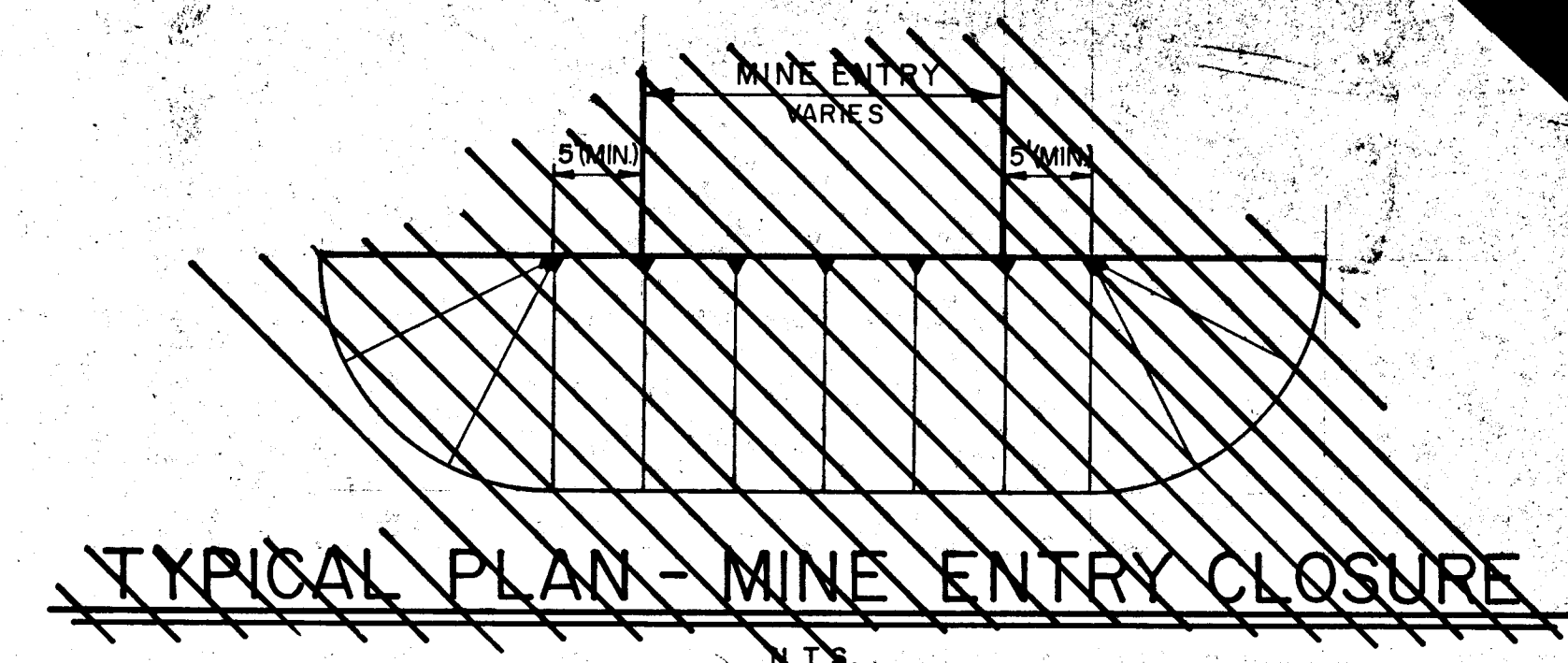
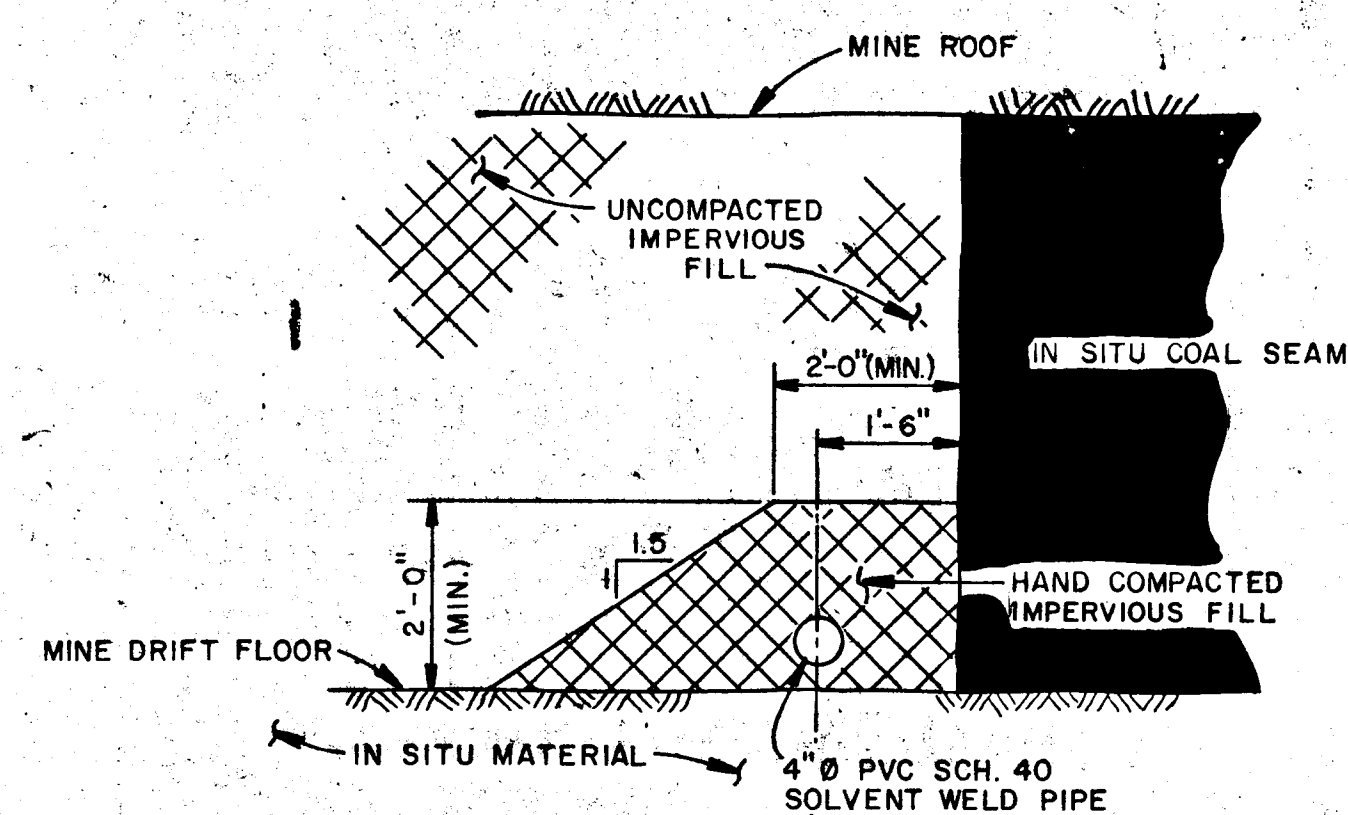
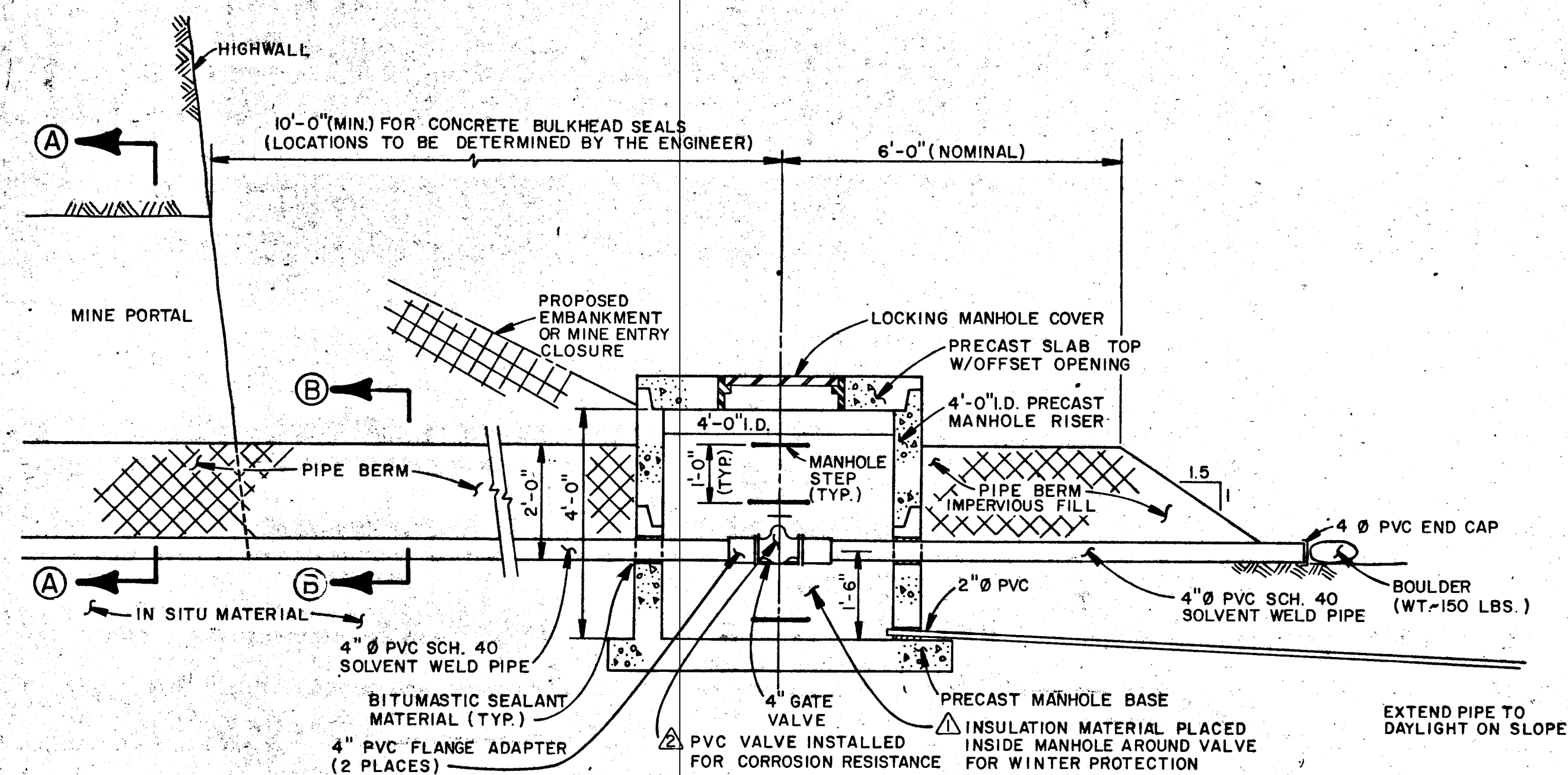
DEEP MINE SEALING
CUCUMBER RUN WATERSHED
OHIOPLYLE STATE PARK

E. D'APPOLONIA CONSULTING ENGINEERS, INC.
10 Duff Road
Pittsburgh, Pennsylvania

SECTIONS D-D, E-E F-F & G-G
DETAILS OF DEEP MINE SEALING

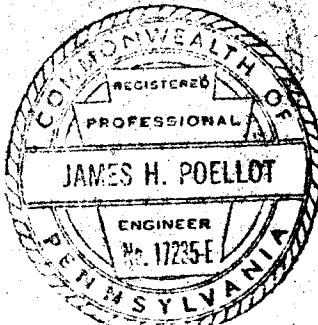
DRAWN BY ACS	DATE 6-23-78	DRAWING NO. 7 of 10
CHECKED BY JHP	SCALE AS SHOWN	





NOTE:

FOR PLAN LOCATION OF DEEP MINE
DRAINAGE OF PASSAVANT PROPERTY,
SEE DWG. 3 OF 10.

	1/22/81	AS BUILT	
	1/22/81	AS BUILT	
	1/22/81	AS BUILT	
NO	DATE	REVISION	APPRO
SUBMITTED <u><i>James H. Poellot</i></u> PROFESSIONAL			
APPROVED <u><i>Robert C. Ramey</i></u> CHIEF - DIVISION OF MINE RECLAMATION			
APPROVED <u><i>Don Meyer</i></u> DIRECTOR - BUREAU OF DESIGN			
			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL138-3-101.I			
DEEP MINE SEALING CUCUMBER RUN WATERSHED OHIOPOYLE STATE PARK			
E. D'APPOLONIA CONSULTING ENGINEERS, INC. 10 Duff Road Pittsburgh, Pennsylvania			
CONSTRUCTION DETAILS OF DEEP MINE DRAINAGE			
DRAWN BY <u><i>R.O.B.</i></u>		DATE <u><i>9/27/88</i></u>	
CHECKED BY <u><i>SWP</i></u>		SCALE <u><i>N.T.S.</i></u>	
		DRAWING NO. 8 of 10	

