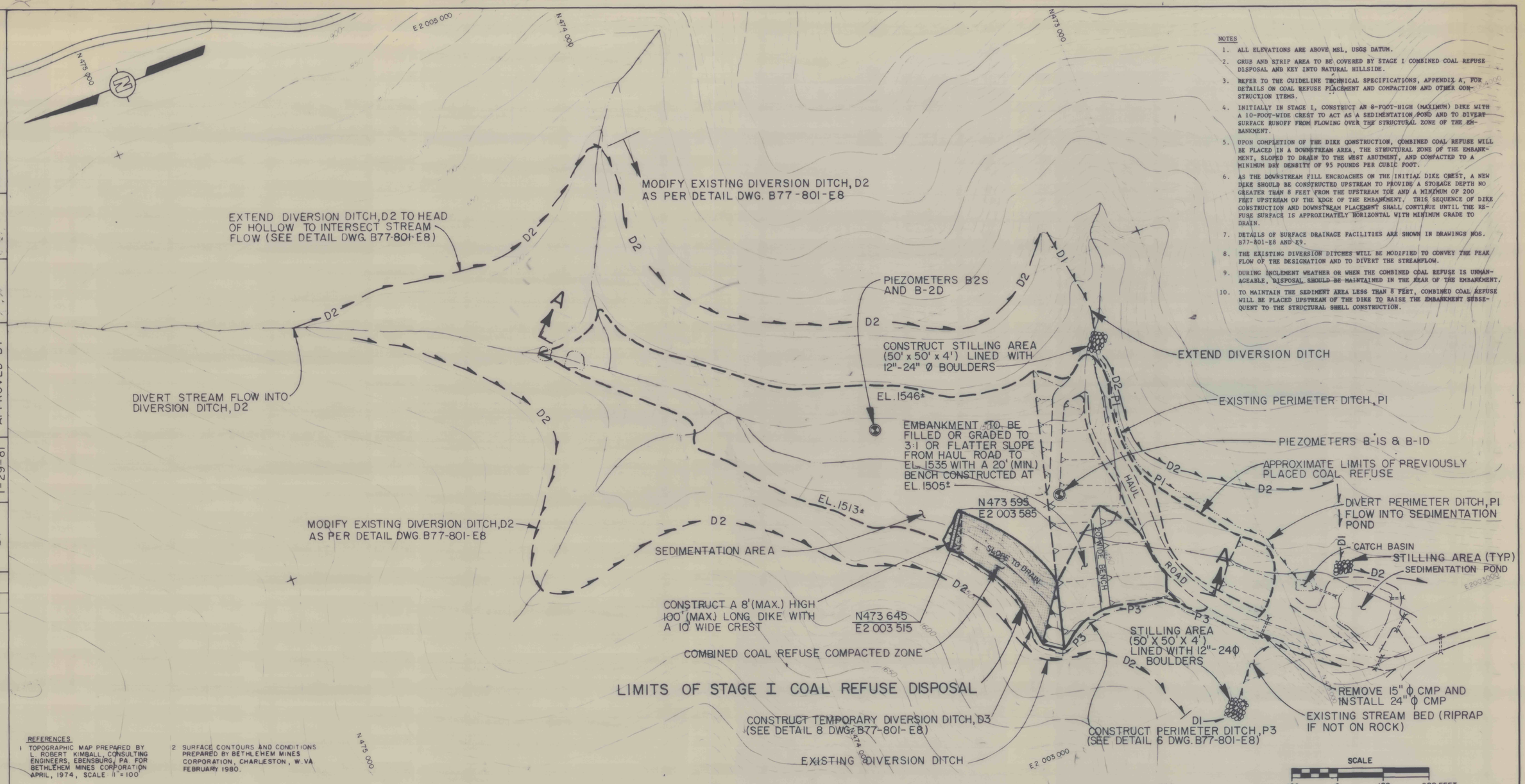
B77-801-E6, E10, F11, E12 & E16/023

DRAWING NUMBER	B77-801-E10 △
CHECKED BY	
APPROVED BY	
RGN	1-29-81
DRAWN BY	

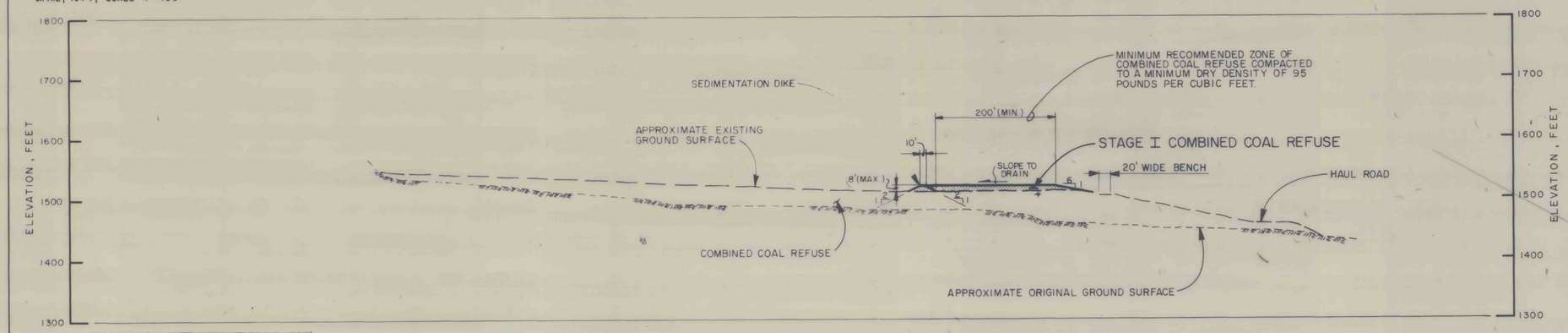


NOTES

1. ALL ELEVATIONS ARE ABOVE MSL, USGS DATUM.
2. GRUB AND STRIP AREA TO BE COVERED BY STAGE I COMBINED COAL REFUSE DISPOSAL AND KEY INTO NATURAL HILLSIDE.
3. REFER TO THE GUIDELINE TECHNICAL SPECIFICATIONS, APPENDIX A, FOR DETAILS ON COAL REFUSE PLACEMENT AND COMPACTION AND OTHER CONSTRUCTION ITEMS.
4. INITIALLY IN STAGE I, CONSTRUCT AN 8-FOOT-HIGH (MAXIMUM) DIKE WITH A 10-FOOT-WIDE CREST TO ACT AS A SEDIMENTATION POND AND TO DIVERT SURFACE RUNOFF FROM FLOWING OVER THE STRUCTURAL ZONE OF THE EMBANKMENT.
5. UPON COMPLETION OF THE DIKE CONSTRUCTION, COMBINED COAL REFUSE WILL BE PLACED IN A DOWNSTREAM AREA, THE STRUCTURAL ZONE OF THE EMBANKMENT, SLOPED TO DRAIN TO THE WEST ABUTMENT, AND COMPACTED TO A MINIMUM DRY DENSITY OF 95 POUNDS PER CUBIC FOOT.
6. AS THE DOWNSTREAM FILL ENCROACHES ON THE INITIAL DIKE CREST, A NEW DIKE SHOULD BE CONSTRUCTED UPSTREAM TO PROVIDE A STORAGE DEPTH NO GREATER THAN 8 FEET FROM THE UPSTREAM TOE AND A MINIMUM OF 200 FEET UPSTREAM OF THE EDGE OF THE EMBANKMENT. THIS SEQUENCE OF DIKE CONSTRUCTION AND DOWNSTREAM PLACEMENT SHALL CONTINUE UNTIL THE REFUSE SURFACE IS APPROXIMATELY HORIZONTAL WITH MINIMUM GRADE TO DRAIN.
7. DETAILS OF SURFACE DRAINAGE FACILITIES ARE SHOWN IN DRAWINGS NOS. B77-801-E8 AND E9.
8. THE EXISTING DIVERSION DITCHES WILL BE MODIFIED TO CONVEY THE PEAK FLOW OF THE DESIGNATION AND TO DIVERT THE STREAMFLOW.
9. DURING INCLEMENT WEATHER OR WHEN THE COMBINED COAL REFUSE IS UNMANAGEABLE, DISPOSAL SHOULD BE MAINTAINED IN THE REAR OF THE EMBANKMENT.
10. TO MAINTAIN THE SEDIMENT AREA LESS THAN 8 FEET, COMBINED COAL REFUSE WILL BE PLACED UPSTREAM OF THE DIKE TO RAISE THE EMBANKMENT SUBSEQUENT TO THE STRUCTURAL SHELL CONSTRUCTION.

REFERENCES

1. TOPOGRAPHIC MAP PREPARED BY L. ROBERT KIMBALL, CONSULTING ENGINEERS, EBENSBURG, PA. FOR BETHLEHEM MINES CORPORATION APRIL, 1974, SCALE 1" = 100'
2. SURFACE CONTOURS AND CONDITIONS PREPARED BY BETHLEHEM MINES CORPORATION, CHARLESTON, W. VA FEBRUARY 1980.



SECTION A-A

REVISION

△ MODIFIED SURFACE DRAINAGE FACILITIES D1 & D2, AND STILLING AREAS

DRAWING NO.	SHEET NO.	FIGURE NO.
B77-801-E10	3 of 12	7

STAGE I

COAL REFUSE DISPOSAL FACILITY
MINE NO. 81
BETHLEHEM MINES CORPORATION
DRENNEN, WEST VIRGINIA

PREPARED FOR

BETHLEHEM MINES CORPORATION
NICHOLAS DIVISION
CHARLESTON, WEST VIRGINIA

D'APPOLONIA

12-4-3