

BUTLER ENTERPRISES, INC.

PAUL and ALEX CHULOCK

BENCH MARKS

BM#1 - R.R. SPIKE IN 15" OAK
 BM#2 - TOP OF 8" Ø PVC PIPE AT TUNNEL PORTAL

CONTROL DATUM - CURRENT U.S.G.S. DATUM
 TRAVERSE SURVEY AND BASE MAP BY D.E.R. 1977.

TRI-COUNTY LAND and COAL CO.

Approximate tunnel location... The contractor shall not operate equipment on the existing timber tunnel, see S.R. #9

TRAVERSE DATA

TRAVERSE PT.	COORDINATES	
	NORTH	EAST
TP1	10,000.000	10,000.000
TP2	9,666.381	10,485.922
TP3	9,379.267	10,806.717
TP4	9,456.878	10,856.693
TP5	9,614.179	10,698.150
TP6	9,820.245	10,527.889
TP7	9,918.189	10,396.655
TP8	10,087.813	10,236.164
TP9	10,178.447	10,087.809

PROJECT CONTROL POINTS

POINT	COORDINATES	
	NORTH	EAST
C1 = TP1 = 0+00 PROJ. #	10,000.000	10,000.000
C2 = 1+85 PROJ. # = 0+00 CRIB #	9,856.198	10,139.000
C3 = 3+00 PROJ. #	9,784.000	10,285.000
C4 = 1+04 CRIB #	9,915.568	10,224.389
C5 = 2+00 CRIB #	9,970.371	10,303.209

SITE PLAN


SCALE: 1" = 50.0'

LIMIT OF CONTRACTORS WORKING AREA

The Contractor shall be responsible for maintenance of the existing access road and the road shall be open to vehicular traffic at all times. See S.R. #7

STAKING DIAGRAM

SCALE: 1" = 30.0'

NO.	DATE	REVISION	APPR.
SUBMITTED			
PROFESSIONAL <i>Stephen J. McBride</i>			
APPROVED <i>Andrew C. Friedrich</i> CHIEF - DIVISION OF MINE AREA RESTORATION			
APPROVED <i>S. E. Kyle</i> P.O. V. M. Brand DIRECTOR - BUREAU OF RESOURCES PROGRAMMING			
			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL 135-10-102.1			
QUAKAKE TUNNEL DEMONSTRATION PROJECT PACKER TWP. CARBON CO., PA.			
GEO - Technical Services CONSULTING ENGINEERS & GEOLOGISTS 851 So. 19th St. HARRISBURG, PENNA.			
SITE PLAN			
DRAWN BY M.P.	DATE MAY 1977	DRAWING NO. 3 of 18	
CHECKED BY S.J.M.	SCALE AS SHOWN		