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U.S. DEPARTMENT OF ENERGY
 MUSEC
 EXPLORATORY STUDIES-FACILITY
 SOUTH PORTAL PAD
 SITE AND GRADING PLAN

TBY-193 ESF SEISMIC CRITERIA EVALUATION
 TBY-224 ROCK MASS PROPERTIES NEED
 TO BE VERIFIED.

8/5/96
 FIRST SUBMITTAL

- BLASTING NOTES:
1. THE BOX-CUT PERIMETER ALONG THE SOUTH PORTAL HEADWALL, AND ALONG MINIMUM DISTANCE OF 66 FEET OUT FROM THE HEADWALL PREPULPING TECHNIQUES. ALL BLASTING IS TO BE CONDUCTED IN THE BOX-CUT, TECHNIQUES SHALL BE USED WHICH LIMIT BLAST DAMAGE ALONG THE BOX-CUT SIDEWALLS.
 2. PRIOR TO BLASTING, THE CONSTRUCTOR SHALL SUBMIT A BLAST PLAN IDENTIFYING THE TYPE OF BLAST (HOLD POINT), THE BLAST PLAN SHALL IDENTIFY THE NUMBER OF BLAST POINTS, THE TYPE OF BLAST HOLE (DRILL, BURST, OR SHOT), THE TYPE OF EXPLOSIVES PER DELAY, THE TYPE OF BLAST HOLE (DRILL, BURST, OR SHOT), THE TYPE OF EXPLOSIVES PER DELAY, AND THE TYPE OF BLAST HOLE (DRILL, BURST, OR SHOT).
 3. THE SOUTH PORTAL HEADWALL BOX-CUT BLASTING MATERIALS SHALL NOT EXCEED 7000 TONS TOTAL LBS OF EXPLOSIVES PER INSTANTANEOUS DETONATION OR DELAY.
 4. LIFETIME RECORDS OF SURFACE BLASTING SHALL BE MAINTAINED AS PART OF THE JOB PACKAGE AND SHALL INCLUDE THE DATE, TIME, SEQUENCING OF THE POUNDS OF EXPLOSIVES PER DELAY, AND RECORDING OF THE POUNDS OF EXPLOSIVES PER DELAY, AND RECORDING OF THE POUNDS OF EXPLOSIVES PER DELAY.
 5. THE MANUFACTURERS SELECTED TO PROVIDE EXPLOSIVES SHALL BE LICENSED UNDER 27 CFR PART 55 CHAPTER 1 AND SHALL HAVE A RECOGNIZED TECHNICAL PRODUCT SUPPORT PROGRAM.

SUMMARY OF WORK:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS AND THE FOLLOWING SPECIFICATION SECTIONS AND DRAWINGS: QUALITY ASSURANCE
 BAB000000-01717-6300-01400 CONSTRUCTION QUALITY CONTROL/
 BAB000000-01717-6300-01500 TEMPORARY SURFACE CONSTRUCTION FACILITIES
 BAB000000-01717-6300-01600 MAINTENANCE AND EQUIPMENT SURFACE FACILITIES
 BAB000000-01717-6300-01800 MAINTENANCE AND EQUIPMENT SURFACE FACILITIES
 BAB000000-01717-6300-02220 EXCAVATION, TRENCHING AND BACKFILL AND OPERATIONS
 WORK UNDER THESE SPECIFICATION SECTIONS INCLUDES FURNISHING ALL MATERIAL, TOOLS, EQUIPMENT AND LABOR NECESSARY FOR THE CONSTRUCTION OF THE SOUTH PORTAL PAD.
 BABE0000-01717-6100-0242 SOUTH PORTAL BOX-CUT GROUND SUPPORT PLAN AND VIEWS

NOTES:

1. FOR CIVIL ABBREVIATIONS SEE DRAWING 20005.
2. FOR CIVIL GENERAL NOTES, LEGEND AND SYMBOLS SEE DRAWING 20006.
3. THE BOX-CUT AND PORTAL PAD SHALL BE SLOPED DOWNWARD AND AWAY FROM THE RAMP TUNNEL ENTRANCE BY THE CONSTRUCTION/MAINTENANCE OF A 2% OR GREATER SLOPE. SUPPORT/STORAGE BENCHES CREATED BY TEMPORARY CONSTRUCTION EQUIPMENT, TBM TAIL SYSTEM, ETC. SHALL BE PLACED ON AN ACCEPTABLE, PROVIDED OVERALL DRAINAGE IS NOT IMPERD IN A MANNER THAT WOULD ALLOW SIGNIFICANT PONDING OR WATER FLOW INTO THE TUNNEL ENTRANCE.
4. FOR SOUTH PORTAL BOX-CUT GROUND SUPPORT SEE DRAWING 40242.