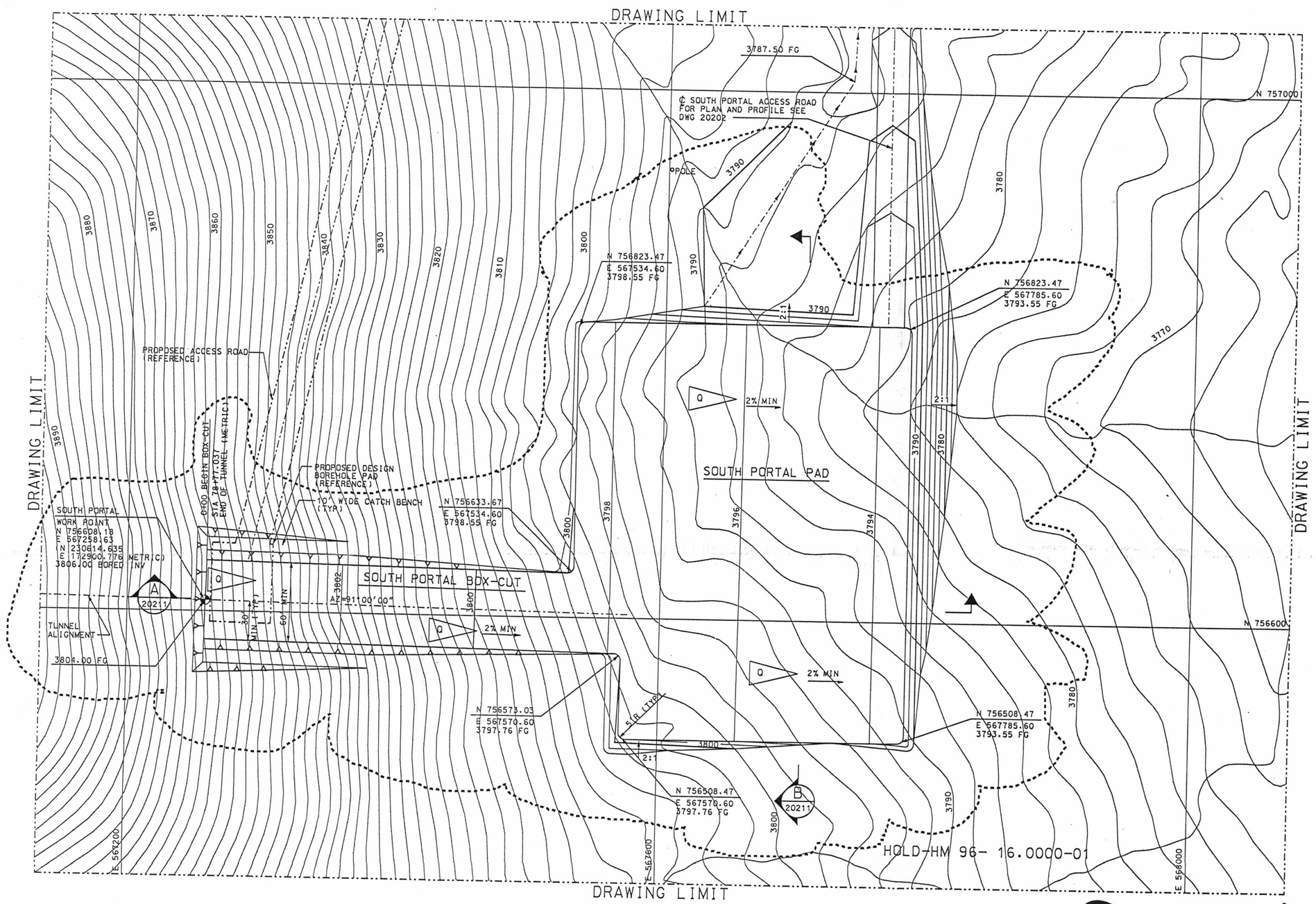

NOTES:

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. LOCAL PERTURBATIONS CREATED BY TEMPORARY CONSTRUCTION SUPPORT/STORAGE FACILITIES, CONSTRUCTION/DISASSEMBLY EQUIPMENT, TBM RAIL SYSTEM, ETC., PLACED ON THE PADS ARE ACCEPTABLE, PROVIDED OVERALL DRAINAGE IS NOT IMPEDED IN A WAY THAT WOULD ALLOW SIGNIFICANT PONDING OR WATER FLOW INTO THE TUNNEL ENTRANCE.
4. FOR SOUTH PORTAL BOX-CUT GROUND SUPPORT SEE DRAWING 40242.

SUMMARY OF WORK:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS AND THE FOLLOWING SPECIFICATION SECTIONS AND DRAWING:

BAB000000-01717-6300-01400 CONSTRUCTOR QUALITY CONTROL/ QUALITY ASSURANCE

BAB000000-01717-6300-01500 TEMPORARY SURFACE CONSTRUCTION FACILITIES

BAB000000-01717-6300-01600 MATERIAL AND EQUIPMENT

BAB000000-01717-6300-01800 MAINTENANCE AND OPERATION OF SURFACE FACILITIES

BAB000000-01717-6300-02210 SITE GRADING

BAB000000-01717-6300-02220 EXCAVATION, TRENCHING AND BACKFILL

BAB000000-01717-6300-02225 WATER USE FOR CONSTRUCTION AND OPERATIONS

WORK UNDER THESE SPECIFICATION SECTIONS INCLUDES FURNISHING ALL MATERIAL, TOOLS, EQUIPMENT, AND LABOR NECESSARY FOR THE CONSTRUCTION OF THE SOUTH PORTAL PAD.

BABEE0000-01717-2100-40242 SOUTH PORTAL BOX-CUT GROUND SUPPORT PLAN AND VIEWS

BLASTING NOTES:

1. THE BOX-CUT PERIMETER ALONG THE SOUTH PORTAL HEADWALL, AND FOR A MINIMUM DISTANCE OF 66 FEET OUT FROM THE HEADWALL ALONG THE SIDEWALLS, SHALL BE PRESPLIT USING STANDARD PRESPLITTING TECHNIQUES. IF BLASTING IS USED ELSEWHERE 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 TO THE A/E FOR APPROVAL (HOLD POINT). THE BLAST PLAN SHALL IDENTIFY THE TYPES OF BLASTING MATERIALS TO BE USED, DELAY SEQUENCES, TOTAL POUNDS OF EXPLOSIVES PER DELAY, BLAST HOLE DIAMETER, BLAST HOLE SPACING, DEPTH OF BLAST HOLES, AND BLAST HOLE ORIENTATION (INCLUDING ALIGNMENT METHODS).
3. THE SOUTH PORTAL HEADWALL/BOX-CUT BLASTING MATERIALS SHALL NOT EXCEED 1000 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, LOCATION, TOTAL POUNDS OF EXPLOSIVES PER DELAY, AND SEQUENCING OF BLASTS.
5. THE MANUFACTURER SELECTED TO PROVIDE EXPLOSIVES SHALL BE LICENSED UNDER 27 CFR PART 55 CHAPTER I, SUBPART D AND SHALL HAVE A RECOGNIZED TECHNICAL PRODUCT SUPPORT PROGRAM.

ANSTEC
APERTURE
CARD

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

8/5/96
EFFECTIVE DATE

FIRST SUBMITTAL

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APPROVALS	INITIAL/DATE
DRAWN T. SAUER	TS 7/2/96
ORIGINATOR H. MONTALVO	7/23/96
CHECKED M DELEON	7-23-96
VERIFICATION L. MORRISON	7/24/96
LEAD DESIGN ENGINEER H MONTALVO	7/23/96
QUALITY ASSURANCE F. ARTH	7-24-96
DEPARTMENT MANAGER G KIMURA	7-24-96

U.S. DEPARTMENT OF ENERGY
Yucca Mountain Site Characterization Project
M&O Civilian Radioactive Waste Management System MANAGEMENT & OPERATING CONTRACTOR

EXPLORATORY STUDIES FACILITY
SOUTH PORTAL PAD
AND BOX-CUT
SITE AND GRADING PLAN

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	L.O.E.	Q.A.	D.M.
00	ISSUED FOR CONSTRUCTION	7-24-96							

SIZE D | DOCUMENT IDENTIFIER: BAB000000-01717-2100-20210-00 | REV 00
SCALE 1" = 40' | QA CLASSIFICATION 0 | W.B.S. 1.2.6 | CAD FILE CIVIL:20210.dgn
CAGE CODE:
RECORD DESIGNATOR QA:N

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