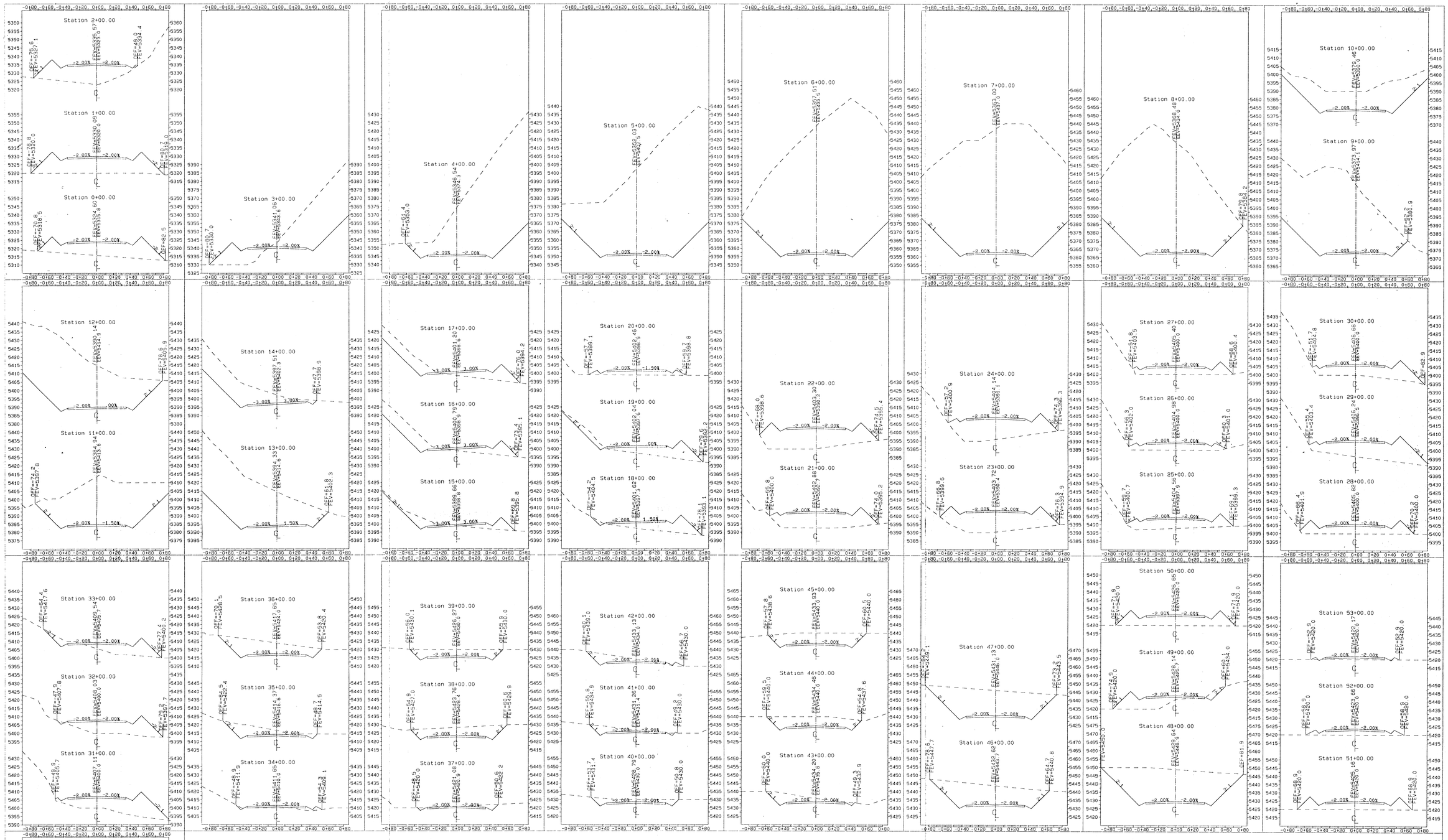

LEGEND

EXISTING GROUND

FINISHED GRADE W/ SUBGRADE

CENTER LINE MARKER W/ ELEVATIONS

CATCH POINT MARKERS

DESIGN SPECIFICATIONS

ROAD DITCH DEPTH = 2'

BERM HEIGHT (where road is elevated 4' or greater) = 5.25'

ROAD WIDTH = 70'

DITCH WIDTH (top) = 12'

MAX. SUPERELEVATION GRADE = 3%

ROAD BASE THICKNESS (gravel) = 12"

CUT-SLOPE GRADE = 2:1

FILL-SLOPE GRADE = 4:1 IF SLOPE <= 4' LONG
2:1 IF SLOPE > 4' LONG

SUPERELEVATION RUNOUT DISTANCES = 200'

HORIZONTAL SCALE 1"=40'
0 40 80 120
VERTICAL SCALE 1"=20'
0 20 40 60

LEONARD NAVARRO NEW MEXICO 6600 REGISTERED PROFESSIONAL ENGINEER

REV. no.	DATE	DRAFT BY	REVISION DESCRIPTION	ENG.	E.G.	P.E.	P.S.	CHIEF ENG.
A	9-14-95	DJR	ISSUED FOR APPROVAL					

APPROVALS

JUL 1995 APPROVED

EXHIBIT 11-103b

BHP MINERALS INTERNATIONAL INC.

NAVAJO MINE

P.O. BOX 155 FRUITLAND, NEW MEXICO 87416

LOWE BOXCUT ROAD
DESIGN CROSS SECTIONS

PREPARED BY DJR	DRAWN BY DJR	SCALE AS NOTED
APPROVED BY	DATE	DWG. LOC.
DWG. NO.	REF. DWG.	