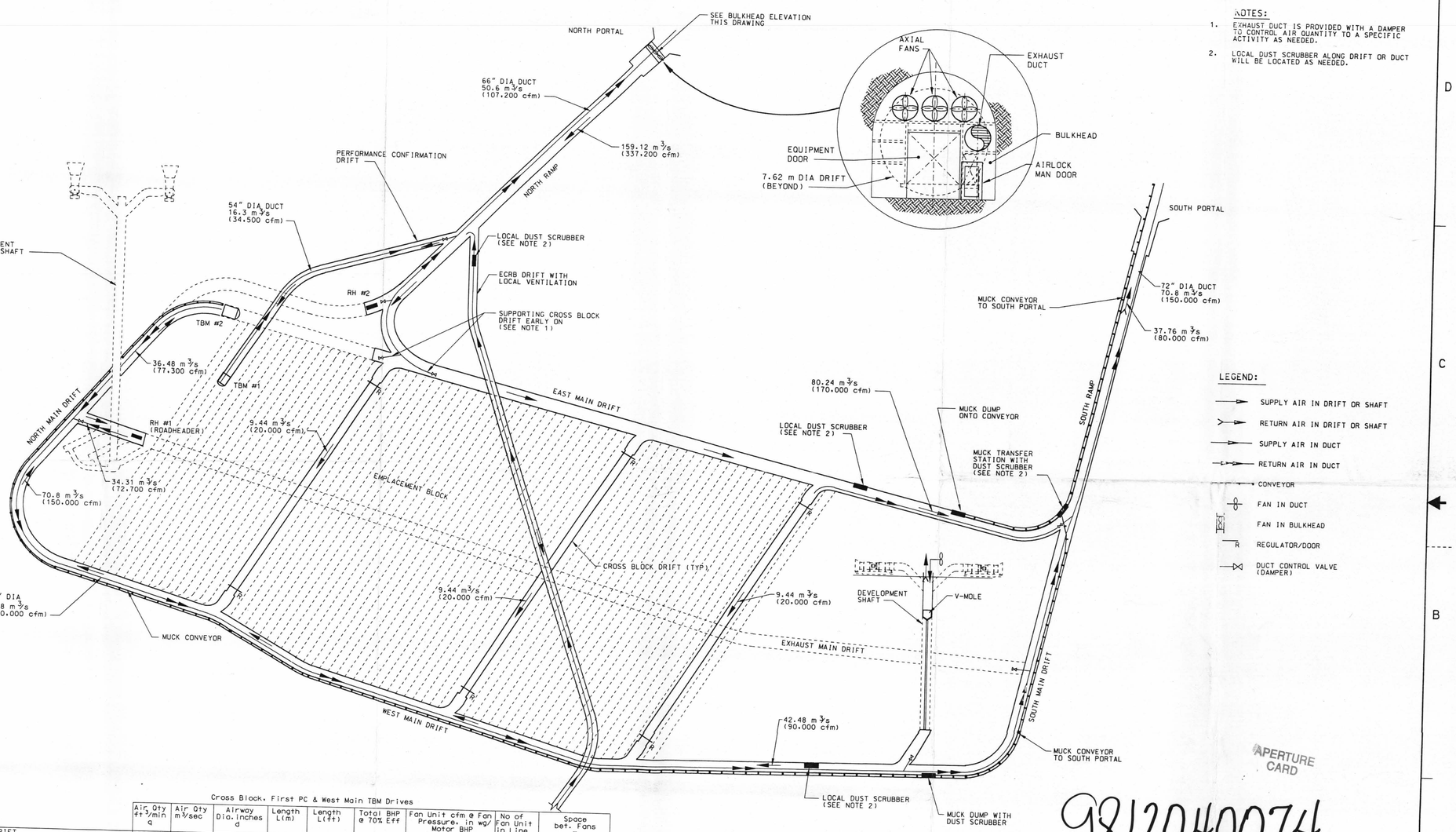

NOTES:

1. EXHAUST DUCT IS PROVIDED WITH A DAMPER TO CONTROL AIR QUANTITY TO A SPECIFIC ACTIVITY AS NEEDED.
2. LOCAL DUST SCRUBBER ALONG DRIFT OR DUCT WILL BE LOCATED AS NEEDED.

LEGEND:

- SUPPLY AIR IN DRIFT OR SHAFT
- RETURN AIR IN DRIFT OR SHAFT
- SUPPLY AIR IN DUCT
- RETURN AIR IN DUCT
- CONVEYOR
- FAN IN DUCT
- FAN IN BULKHEAD
- R REGULATOR/DOOR
- DUCT CONTROL VALVE (DAMPER)

Cross Block, First PC & West Main TBM Drives

Intake	Air Qty ft³/min q	Air Qty m³/sec	Airway Dia. inches d	Length L(m)	Length L(ft)	Total BHP @ 70% Eff	Fan Unit cfm @ Fan Pressure, in wg/ Motor BHP	No of Fan Unit in Line	Space bet. Fans m
NORTH RAMP DRIFT	337,200	159.16	300	5,100.4	16,734	129	112,400 @ 7"/250	3	MAIN FAN LOAD
TOTAL	337,200	159.16				129		3	

Exhaust									
NORTH RAMP for RH+TBM	107,200	50.60	66	4,027.8	13,215	1.816	107,200@11"/300	7	575
SOUTH RAMP, 72" duct, RH+TBM	150,000	70.80	72	7,944.9	26,066	6.353	150,000@15"/550	13	611
SOUTH RAMP DRIFT	80,000	37.76	300	2,335.7	7,663	1			MAIN FAN LOAD
TOTAL	337,200	159.16				8.170		20	

Total BHP 8.299 Total Fan Units 23 (With 3 Main Fan Loads)

APERTURE CARD

9812040074

THIS DRAWING IS PRELIMINARY AND NOT INTENDED FOR CONSTRUCTION, PROCUREMENT OR FABRICATION.

DESIGN INPUTS
SEE DRAWING INPUTS LIST

REV	DESCRIPTION	DATE	DRN	DRG	CHK	VER	L.D.E.	Q.A.	D.M.
00	INITIAL ISSUE	7/29/98		RSJ	JB	N/A		N/A	

APPROVALS	INITIAL/DATE
DRAWN: S GIBSON	7/29/98
ORIGINATOR: R JURANI	RSJ 7/29/98
CHECKED: J BEESLEY	JB 7-29-98
VERIFICATION: N/A	N/A
LEAD DESIGN ENGINEER: R SAUNDERS	RSS 7-29-98
QUALITY ASSURANCE: N/A	N/A
DEPARTMENT MANAGER: K BHATTACHARYYA	7/29/98

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

REPOSITORY DESIGN
SUBSURFACE VENTILATION
DUCTED EXHAUST ARRANGEMENT
CONSTRUCTION CONDITION 1

SIZE	DOCUMENT IDENTIFIER	DRAWING NO.	REV
D	BCAJ00000-01717-2700-86030-		00

SCALE	QA CLASSIFICATION	W.B.S.	CAD FILE
NONE	N/A	1.2.4	R1M - SS:86030

CAGE CODE:

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