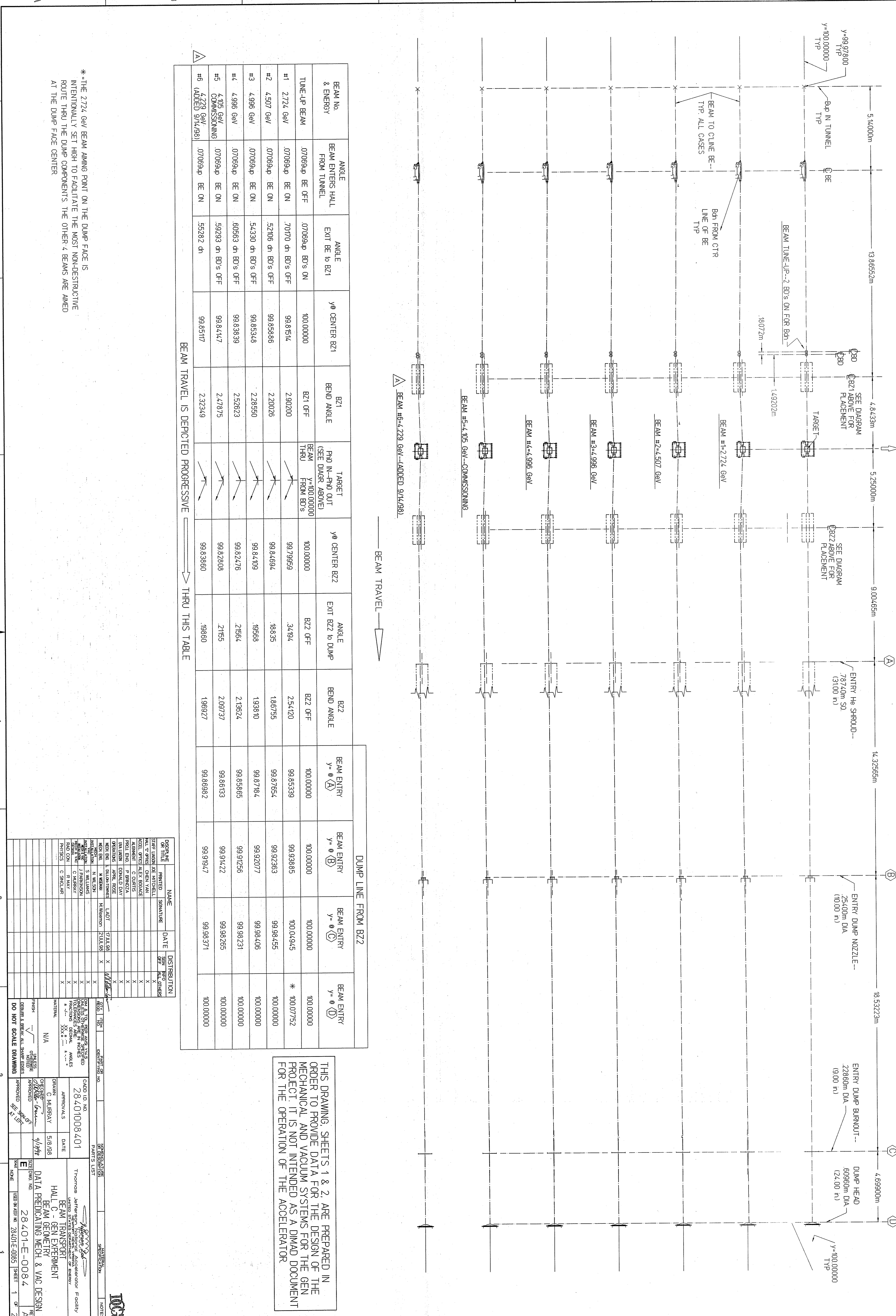
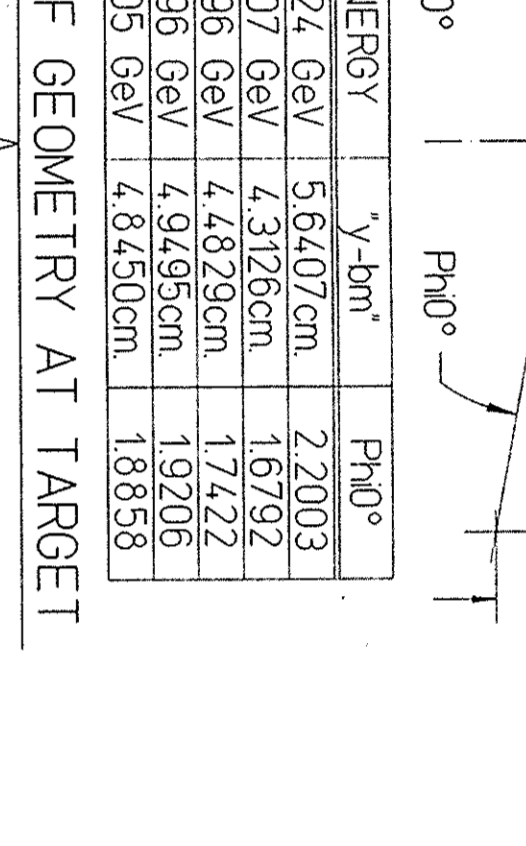
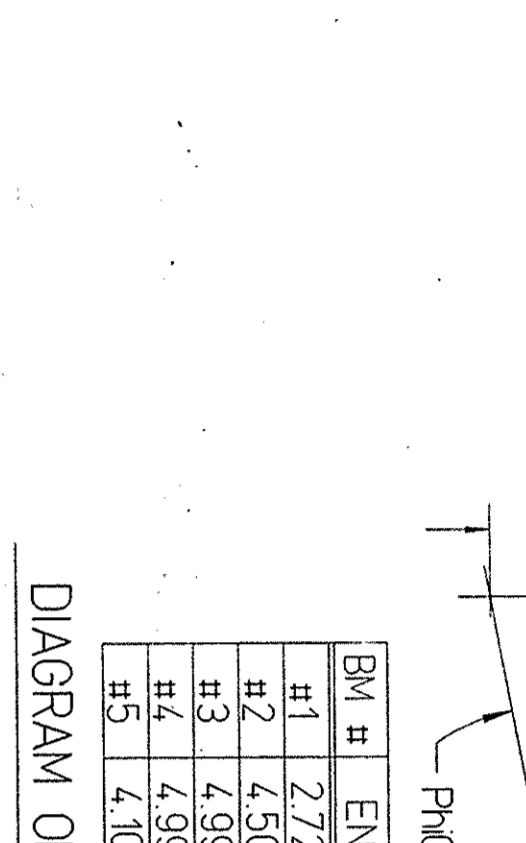


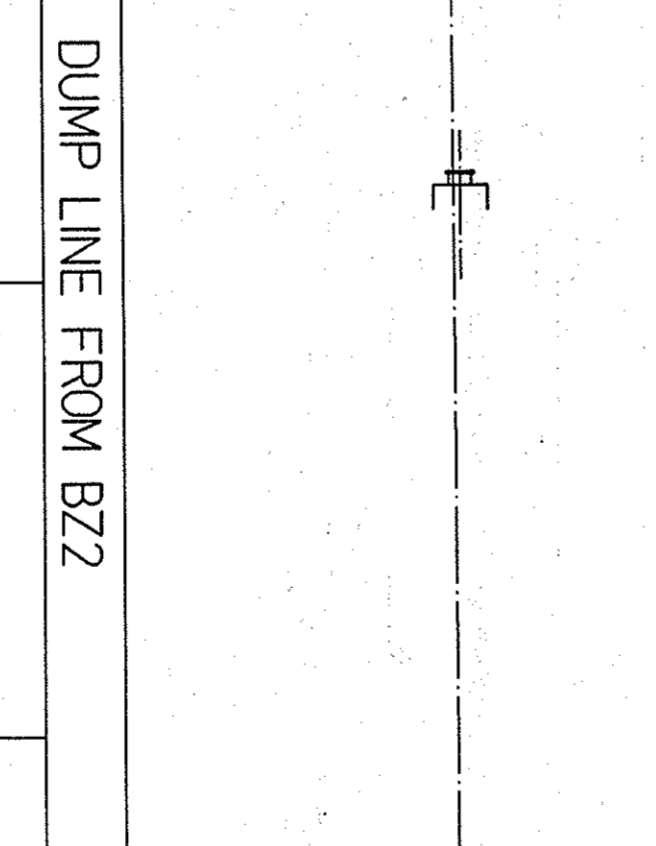
ZONE	REV	DESCRIPTION	DATE	APPROVED
GEN	A	ADDED BEAM #6-4.229 GeV	9/17/98	[Signature]

BEAM FROM TUNNEL--
 ENTRY ANGLE= 07069up
 CENTER BE MAGNET --y= 99.98434m
 CENTER BE MAGNET --y= 99.98496m
 A-UES--
 DIMENSIONS/DIMAD VALUES- METERS (UNLESS NOTED)
 ANGLES- DEGREES

BM #	ENERGY	y ₁ (m)	PHO°
#1	2.724 GeV	5.6407m	2.2003
#2	4.507 GeV	4.3106m	1.6792
#3	4.996 GeV	4.4829m	1.7422
#4	4.996 GeV	4.9395m	1.9206
#5	4.105 GeV	4.8450m	1.8039



BEAM NO. & ENERGY	ANGLE BEAM ENTERS HALL FROM TUNNEL	ANGLE EXIT BE TO BZ1	Y ⁰ CENTER BZ1	BZ1 BEND ANGLE	TARGET PHO IN-PHO OUT (SEE DIAGR ABOVE)	Y ⁰ CENTER BZ2	ANGLE EXIT BZ2 TO DUMP	BZ2 BEND ANGLE	BEAM ENTRY y = θ (A)	BEAM ENTRY y = θ (B)	BEAM ENTRY y = θ (C)	BEAM ENTRY y = θ (D)
TUNE-UP BEAM	07069up BE OFF	07069up BD'S ON	100.00000	BZ1 OFF	BEAM y=100.00000 FROM BD'S	100.00000	BZ2 OFF	BZ2 OFF	100.00000	100.00000	100.00000	100.00000
#1 2.724 GeV	07069up BE ON	70770 dn BD'S OFF	99.81514	2.90200	Y=100.00000	99.79959	34.194	25.4120	99.85339	100.04945	*	100.0752
#2 4.507 GeV	07069up BE ON	52106 dn BD'S OFF	99.85886	2.20026	Y=100.00000	99.84694	18.835	1.86755	99.87654	99.92363	99.98455	100.00000
#3 4.996 GeV	07069up BE ON	54330 dn BD'S OFF	99.85348	2.28550	Y=100.00000	99.84109	18.958	1.93810	99.87184	99.92077	99.98406	100.00000
#4 4.996 GeV	07069up BE ON	60563 dn BD'S OFF	99.83839	2.52623	Y=100.00000	99.82476	21.654	2.18824	99.85865	99.91296	99.98231	100.00000
#5 4.105 GeV COMMISSIONING	07069up BE ON	59293 dn BD'S OFF	99.84147	2.47875	Y=100.00000	99.82808	21.155	2.09737	99.86133	99.91422	99.98265	100.00000
#6 (ADDED 9/14/98) 4.229 GeV	07069up BE ON	55282 dn	99.85117	2.32349	Y=100.00000	99.83860	19.860	1.96927	99.86982	99.91947	99.98371	100.00000



THIS DRAWING, SHEETS 1 & 2, ARE PREPARED IN ORDER TO PROVIDE DATA FOR THE DESIGN OF THE MECHANICAL AND VACUUM SYSTEMS FOR THE GEN PROJECT. IT IS NOT INTENDED AS A DIMAD DOCUMENT FOR THE OPERATION OF THE ACCELERATOR.

*-THE 2.724 GeV BEAM AIMING POINT ON THE DUMP FACE IS INTENTIONALLY SET HIGH TO FACILITATE THE MOST NON-DESTRUCTIVE ROUTE THRU THE DUMP COMPONENTS. THE OTHER 4 BEAMS ARE AIMED AT THE DUMP FACE CENTER

NAME	DATE	DISTRIBUTION
DESIGNED BY: J. WILLIAMS		
CHECKED BY: J. WILLIAMS		
APPROVED BY: J. WILLIAMS		
DATE: 5/8/98		