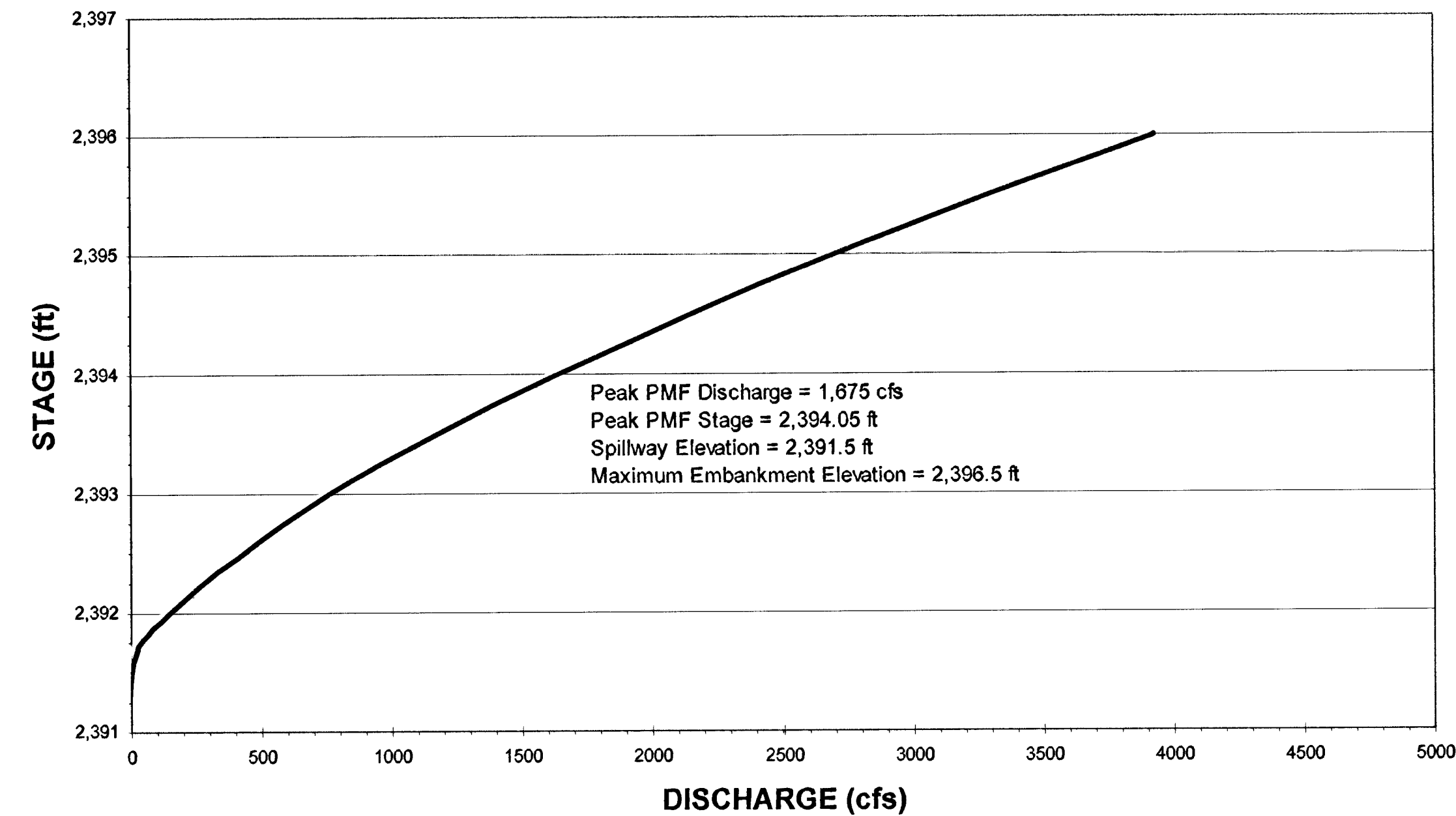


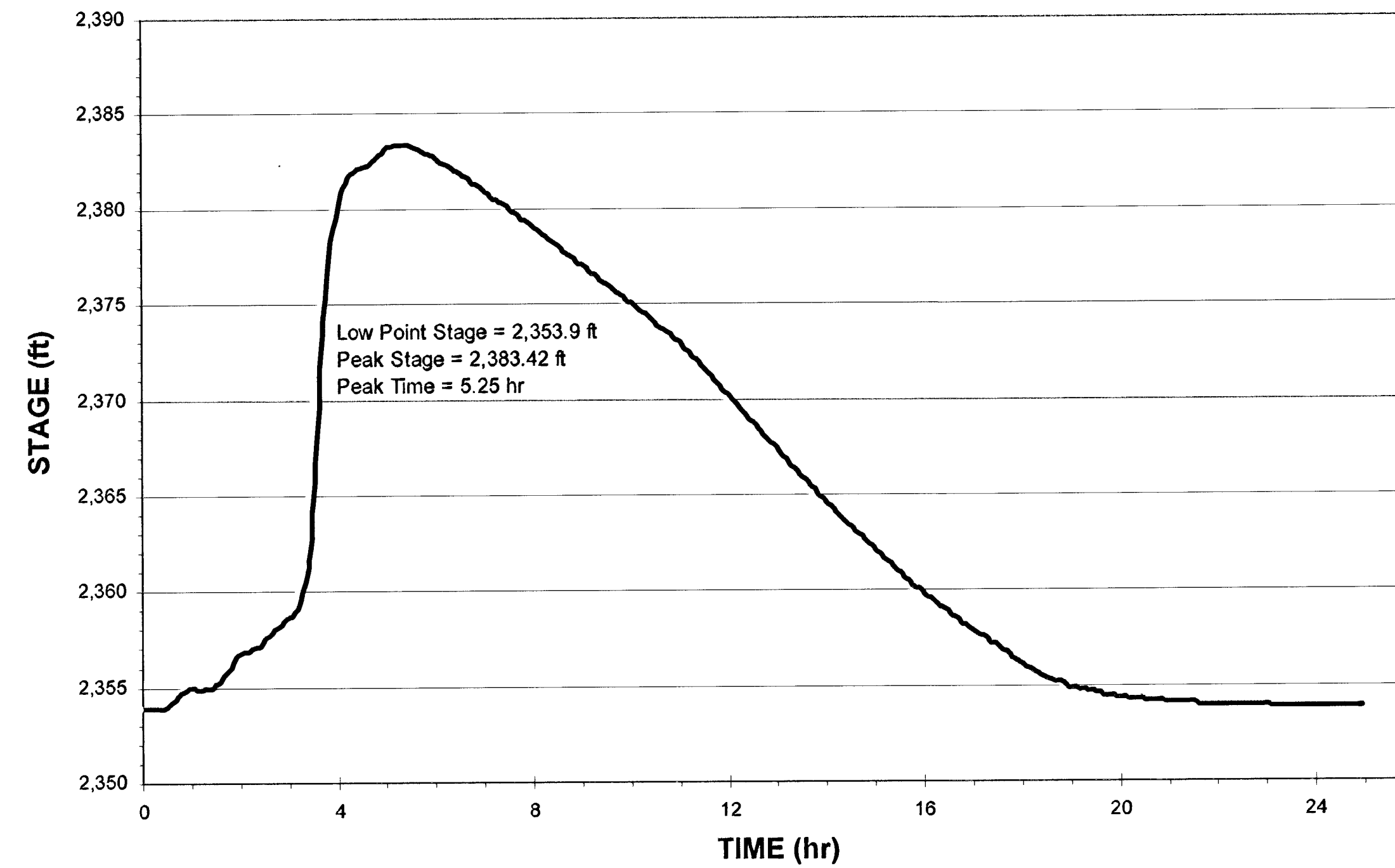
RAINBOW DETENTION BASIN
FEB 2008

STAGE-SPILLWAY DISCHARGE CURVE



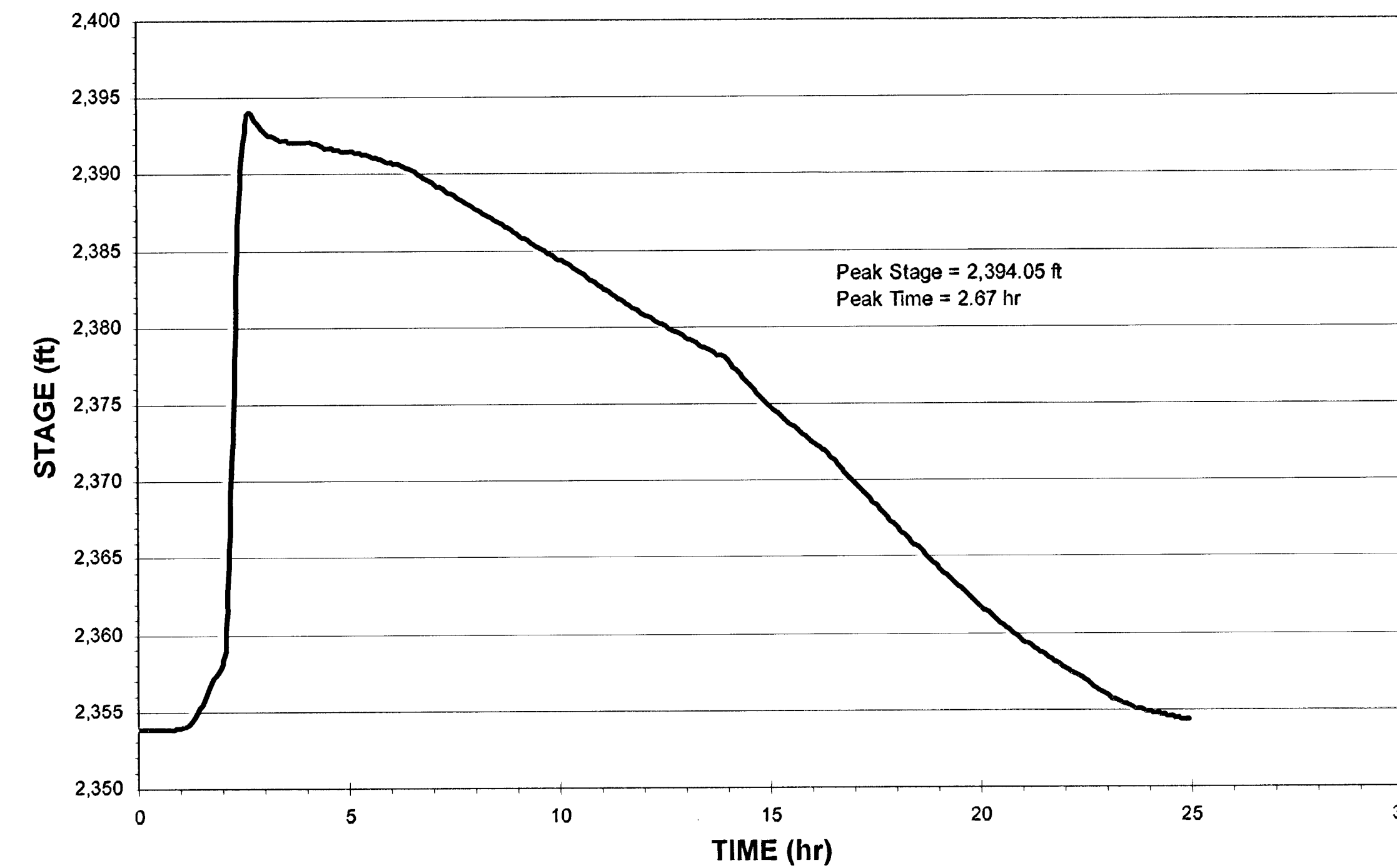
RAINBOW DETENTION BASIN
FEB 2008

STAGE-TIME CURVE 100-YR STORM EVENT



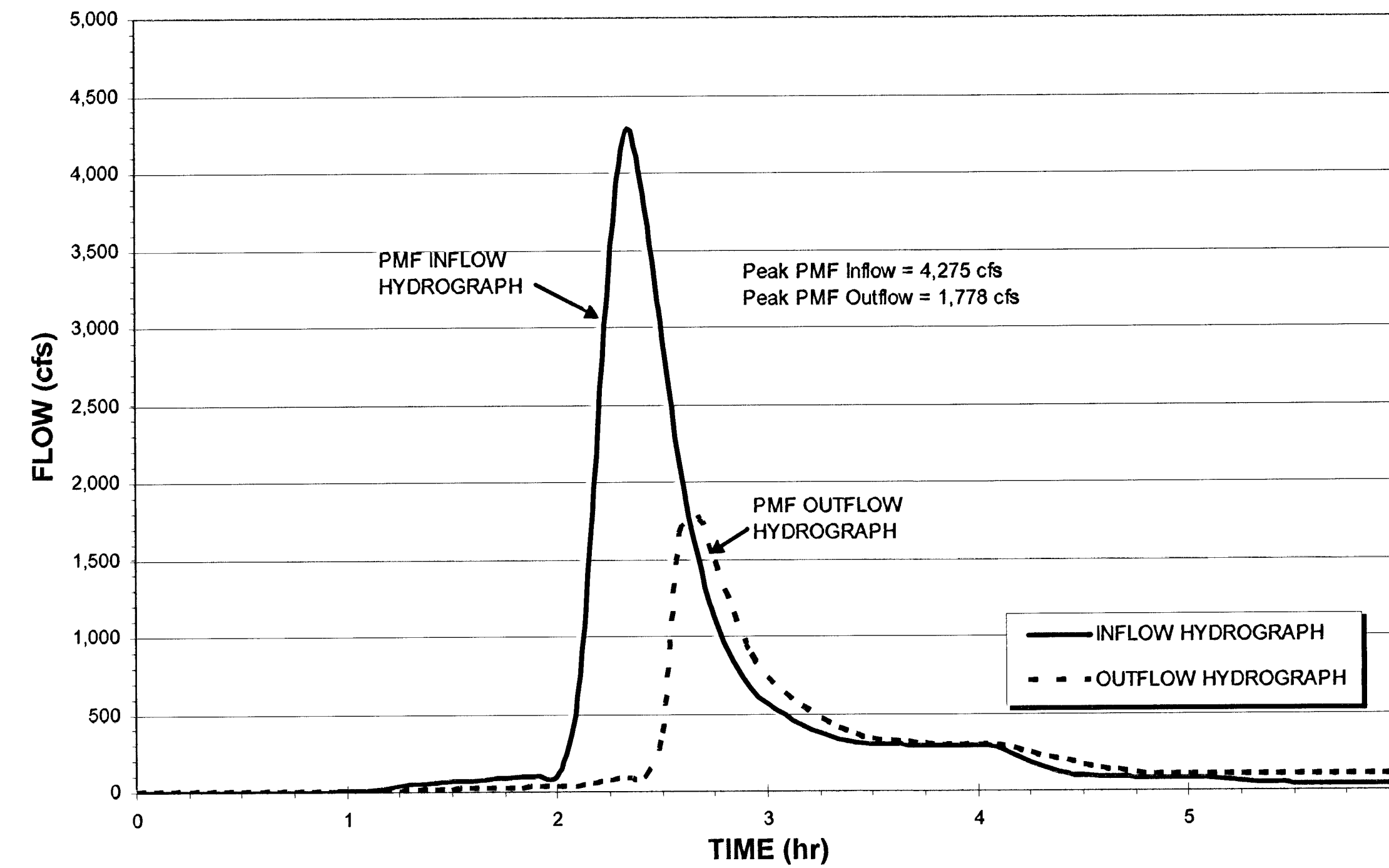
RAINBOW DETENTION BASIN
FEB 2008

STAGE-TIME CURVE PMF EVENT



RAINBOW DETENTION BASIN
FEB 2008

SIX HOUR PMF HYDROGRAPH



RAINBOW DETENTION BASIN - HEADWORKS DESIGN PARAMETERS FEBRUARY 2008

GENERAL:

DRAINAGE AREA: 1.1 SQUARE MILES
DESIGN EVENT: 100 YEARS
PEAK INFLOW: 1,220 CFS
PEAK OUTFLOW: 88 CFS
EMBANKMENT CREST ELEVATION: 2,396.5 FT
PEAK 100 YEAR STAGE: 2,383.42 FT
100 YEAR POOL AREA: 3.96 ACRES
100 YEAR BASIN CAPACITY: 64 ACRE-FT

LOW LEVEL OUTLET: BASIN LOW POINT ELEVATION: 2,353.9 FT
LOW LEVEL OUTLET FACILITY: 42" RCP W/ 24" ORIFICE PLATE

EMERGENCY SPILLWAY: DESIGN FLOW: 1,675 CFS
SPILLWAY CREST ELEVATION: 2,391.5 FT
MAXIMUM ROUTED STAGE: 2,394.05 FT
SPILLWAY LENGTH: 137.8 FT
SPILLWAY TYPE: BROAD-CRESTED WEIR

PMF: DRAINAGE AREA: 0.31 SQUARE MILES
INFLOW RATE: 4,275 CFS
SPILLWAY DISCHARGE FLOW RATE: 1,675 CFS
COMBINED DISCHARGE FLOW RATE: 1,778 CFS
PEAK PMF STAGE: 2,394.05 FT
POOL AREA: 6.21 ACRES
BASIN CAPACITY: 117.0 ACRE-FT

AVOID OVERHEAD POWER LINE CONTACT
IT'S COSTLY

Call before you Overhead

1-702-227-2929
NEVADA POWER ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT

Call before you Dig
Avoid cutting underground
utility lines. It's costly.

Call 811

1-800-227-2600
CLARK COUNTY 24/7
1-702-455-7544

DRAWN BY: WSM		DESIGNED BY: VIN		CHECKED BY: ANG		PROJECT NO: 8512		SCALE: HORIZ. VERT.		NONE	
NOV 10, 2008		NOV 10, 2008		NOV 10, 2008		NOV 10, 2008		NOV 10, 2008		NOV 10, 2008	
RAINBOW DETENTION BASIN CAPACITY CURVES & HYDROLOGIC INFORMATION I											
MEADOWS ALTA PARALLEL PROJECT PHASE II											
DEPARTMENT OF PUBLIC WORKS 400 E. STEWART AVE LAS VEGAS, NV 89101 702-225-6272											
2777 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148 PH. (702) 873-7550 FAX (702) 362-2597 WEB SITE: WWW.TPMV.COM											
SHEET G16 49 OF 120 SHEETS DRAWING NO. 327V281											
H#11646											

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