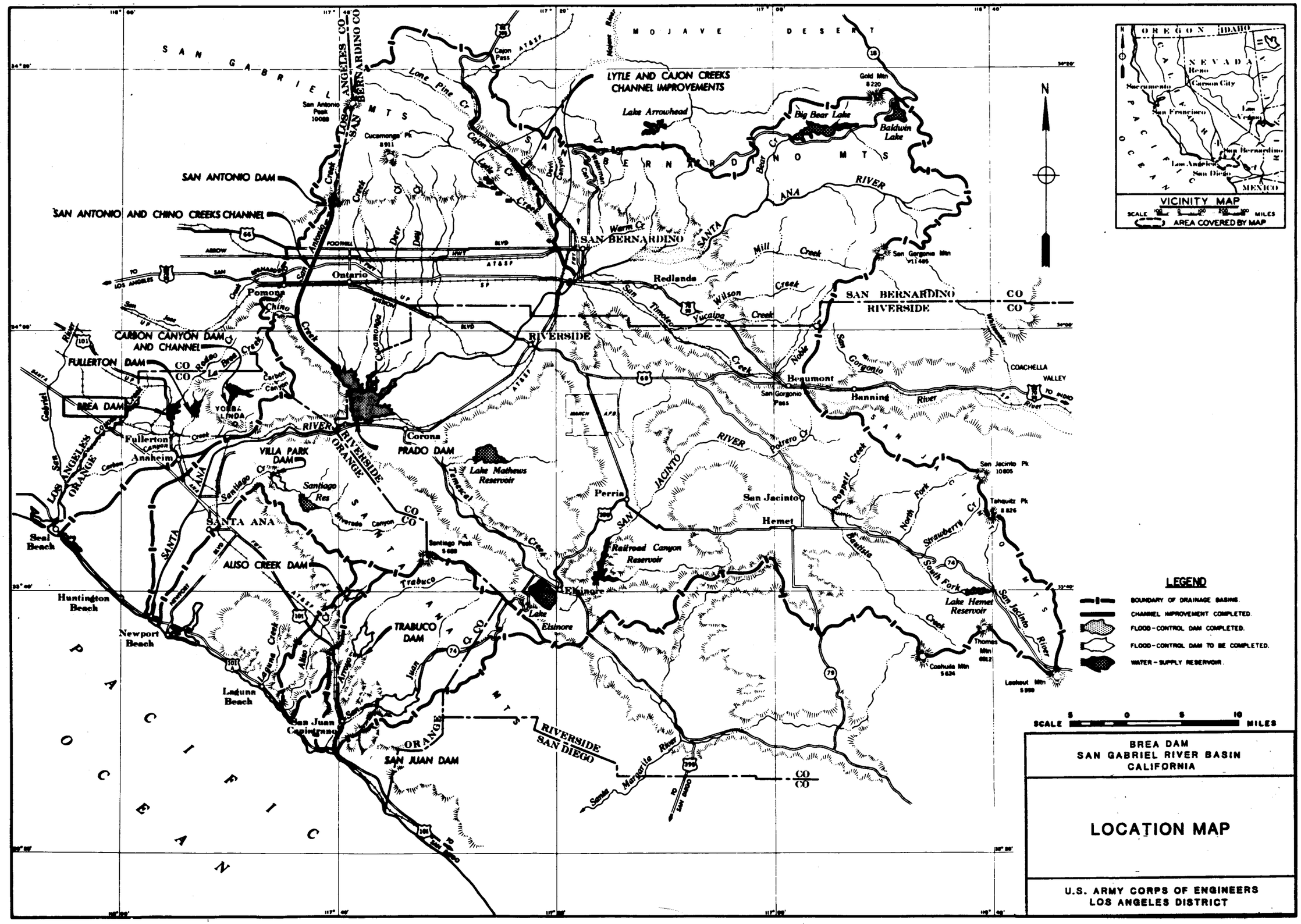

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

LOCATION MAP

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

PLATE 2-01

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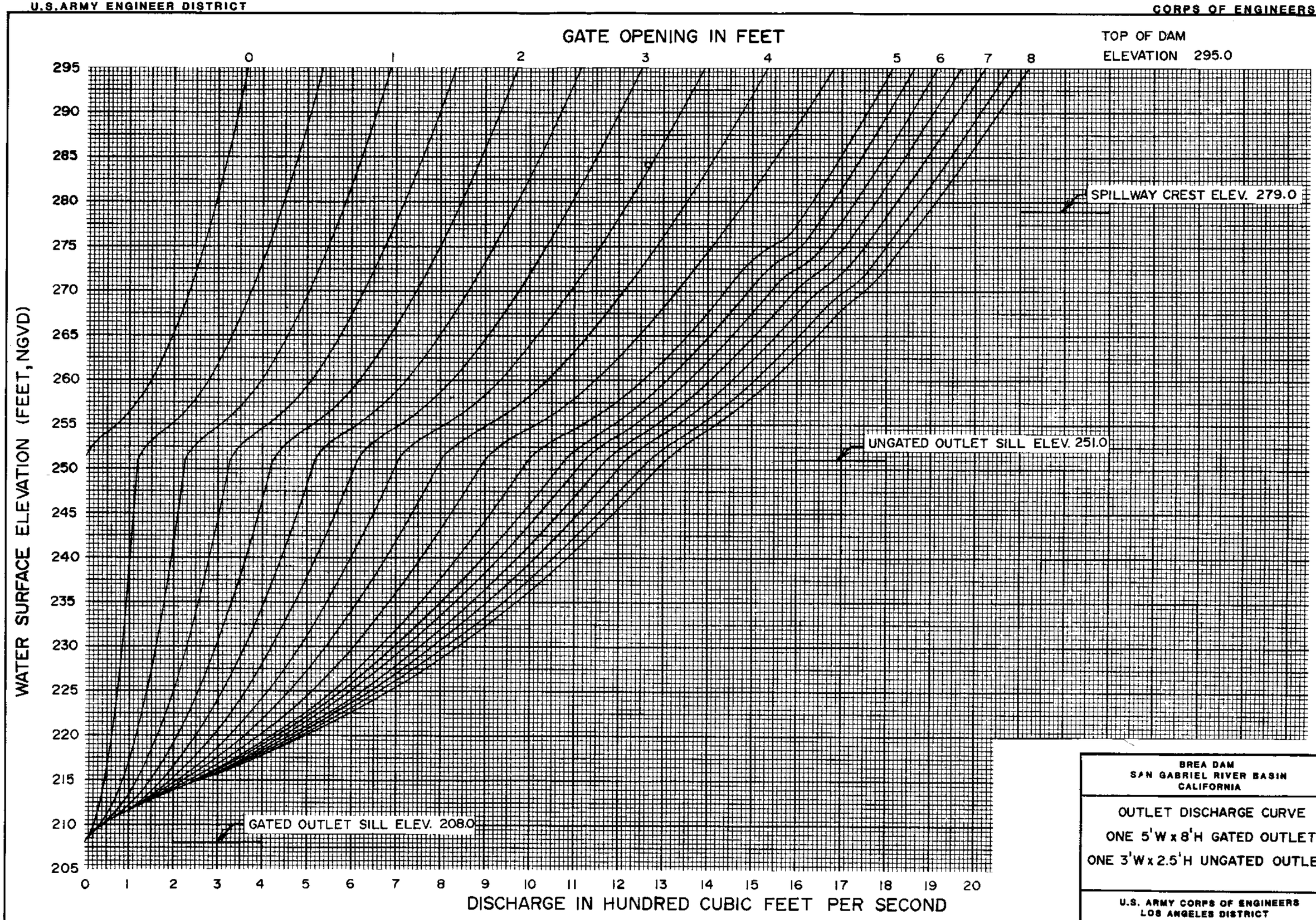
Discharge from Gated and Ungated Outlets, Brea Reservoir
(Discharge in cfs)

Elev. (ft. NGVD)	Gate Opening in feet (two gates) 0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	8.0
208.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
209.0	0.0	26.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
210.0	0.0	44.0	70.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
211.0	0.0	54.0	94.0	122.0	144.0	150.0	150.0	150.0	150.0	150.0	150.0
212.0	0.0	66.0	120.0	156.0	188.0	216.0	220.0	224.0	230.0	230.0	230.0
213.0	0.0	74.0	140.0	190.0	230.0	270.0	284.0	290.0	300.0	320.0	320.0
214.0	0.0	80.0	158.0	210.0	266.0	310.0	340.0	360.0	380.0	400.0	400.0
215.0	0.0	90.0	170.0	234.0	292.0	350.0	388.0	420.0	440.0	500.0	500.0
216.0	0.0	96.0	184.0	256.0	322.0	380.0	430.0	474.0	504.0	580.0	620.0
217.0	0.0	102.0	200.0	274.0	350.0	410.0	470.0	526.0	568.0	650.0	738.0
218.0	0.0	108.0	208.0	290.0	372.0	442.0	506.0	570.0	620.0	712.0	820.0
219.0	0.0	114.0	220.0	308.0	396.0	470.0	544.0	612.0	670.0	780.0	900.0
220.0	0.0	120.0	230.0	326.0	416.0	500.0	580.0	650.0	720.0	840.0	1000.0
221.0	0.0	126.0	240.0	340.0	440.0	526.0	610.0	690.0	762.0	900.0	1080.0
222.0	0.0	132.0	250.0	358.0	460.0	550.0	640.0	724.0	804.0	960.0	1156.0
223.0	0.0	138.0	260.0	370.0	478.0	574.0	670.0	760.0	844.0	1020.0	1230.0
224.0	0.0	144.0	272.0	384.0	496.0	600.0	700.0	792.0	880.0	1070.0	1300.0
225.0	0.0	148.0	280.0	400.0	510.0	620.0	724.0	824.0	920.0	1120.0	1370.0
226.0	0.0	152.0	288.0	412.0	528.0	640.0	750.0	860.0	956.0	1166.0	1440.0
227.0	0.0	156.0	296.0	424.0	544.0	660.0	774.0	886.0	992.0	1208.0	1508.0
228.0	0.0	160.0	304.0	436.0	560.0	680.0	800.0	914.0	1022.0	1250.0	1560.0
229.0	0.0	164.0	312.0	448.0	576.0	700.0	820.0	940.0	1054.0	1290.0	1620.0
230.0	0.0	168.0	320.0	460.0	590.0	720.0	840.0	968.0	1084.0	1330.0	1680.0
231.0	0.0	172.0	328.0	470.0	604.0	740.0	862.0	996.0	1114.0	1370.0	1736.0
232.0	0.0	176.0	336.0	480.0	620.0	760.0	884.0	1020.0	1144.0	1408.0	1786.0
233.0	0.0	180.0	342.0	492.0	634.0	776.0	904.0	1042.0	1170.0	1444.0	1840.0
234.0	0.0	182.0	350.0	502.0	648.0	792.0	924.0	1066.0	1200.0	1480.0	1892.0
235.0	0.0	186.0	358.0	510.0	660.0	808.0	944.0	1088.0	1226.0	1516.0	1940.0
236.0	0.0	190.0	364.0	522.0	676.0	824.0	964.0	1110.0	1252.0	1544.0	1994.0
237.0	0.0	194.0	372.0	534.0	688.0	840.0	982.0	1136.0	1280.0	1580.0	2040.0
238.0	0.0	196.0	378.0	542.0	700.0	856.0	1002.0	1158.0	1304.0	1616.0	2080.0
239.0	0.0	198.0	382.0	552.0	716.0	870.0	1020.0	1178.0	1334.0	1642.0	2126.0
240.0	0.0	200.0	390.0	560.0	724.0	886.0	1040.0	1200.0	1358.0	1678.0	2170.0
241.0	0.0	204.0	398.0	570.0	740.0	900.0	1060.0	1220.0	1380.0	1704.0	2218.0
242.0	0.0	208.0	402.0	580.0	750.0	916.0	1078.0	1240.0	1402.0	1740.0	2260.0
243.0	0.0	212.0	406.0	588.0	760.0	928.0	1096.0	1260.0	1424.0	1766.0	2300.0
244.0	0.0	216.0	414.0	596.0	772.0	940.0	1112.0	1280.0	1450.0	1800.0	2340.0
245.0	0.0	220.0	420.0	602.0	782.0	958.0	1130.0	1300.0	1474.0	1824.0	2380.0
246.0	0.0	222.0	424.0	614.0	796.0	970.0	1144.0	1320.0	1498.0	1856.0	2420.0
247.0	0.0	224.0	430.0	620.0	802.0	982.0	1162.0	1340.0	1520.0	1880.0	2460.0
248.0	0.0	228.0	436.0	628.0	814.0	998.0	1180.0	1358.0	1540.0	1910.0	2500.0
249.0	0.0	232.0	440.0	638.0	824.0	1010.0	1196.0	1376.0	1560.0	1940.0	2538.0
250.0	0.0	236.0	444.0	644.0	836.0	1022.0	1212.0	1392.0	1580.0	1966.0	2576.0
251.0	0.0	238.0	452.0	654.0	850.0	1036.0	1226.0	1408.0	1600.0	1996.0	2618.0
252.0	10.0	260.0	480.0	680.0	880.0	1062.0	1258.0	1440.0	1638.0	2036.0	2660.0
253.0	50.0	298.0	514.0	718.0	916.0	1102.0	1300.0	1482.0	1684.0	2096.0	2714.0
254.0	94.0	340.0	560.0	770.0	960.0	1164.0	1360.0	1550.0	1748.0	2160.0	2778.0
255.0	146.0	392.0	612.0	824.0	1028.0	1230.0	1420.0	1620.0	1810.0	2238.0	2838.0
256.0	184.0	436.0	660.0	874.0	1080.0	1280.0	1480.0	1680.0	1880.0	2300.0	2890.0
257.0	210.0	472.0	700.0	920.0	1126.0	1330.0	1532.0	1740.0	1940.0	2360.0	2940.0
258.0	248.0	502.0	738.0	958.0	1170.0	1374.0	1572.0	1782.0	1984.0	2416.0	2998.0
259.0	280.0	536.0	764.0	990.0	1200.0	1410.0	1618.0	1824.0	2038.0	2460.0	3040.0
260.0	300.0	560.0	800.0	1022.0	1240.0	1446.0	1650.0	1870.0	2080.0	2510.0	3090.0
270.0	470.0	750.0	1010.0	1258.0	1490.0	1722.0	1956.0	2180.0	2420.0	2880.0	3500.0
279.0	580.0	880.0	1160.0	1420.0	1676.0	1922.0	2168.0	2420.0	2680.0	3240.0	3792.0
280.0	592.0	896.0	1176.0	1440.0	1696.0	1940.0	2190.0	2540.0	2700.0	3264.0	3820.0
281.0	600.0	904.0	1184.0	1458.0	1714.0	1964.0	2216.0	2466.0	2730.0	3296.0	3850.0
282.0	612.0	920.0	1200.0	1470.0	1730.0	1984.0	2236.0	2498.0	2760.0	3320.0	3880.0
283.0	620.0	934.0	1220.0	1488.0	1744.0	2002.0	2258.0	2520.0	2780.0	3340.0	3910.0
284.0	632.0	944.0	1230.0	1500.0	1762.0	2024.0	2280.0	2540.0	2810.0	3370.0	3940.0
290.0	686.0	1018.0	1318.0	1600.0	1862.0	2140.0	2400.0	2680.0	2956.0	3516.0	4100.0

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

DISCHARGES FROM GATED & UNGATED
OUTLETS, BREA RESERVOIR

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA



BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

OUTLET DISCHARGE CURVE
ONE 5'W x 8'H GATED OUTLET
ONE 3'W x 2.5'H UNGATED OUTLET

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

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Spillway Discharge vs. Elevation, Brea Dam

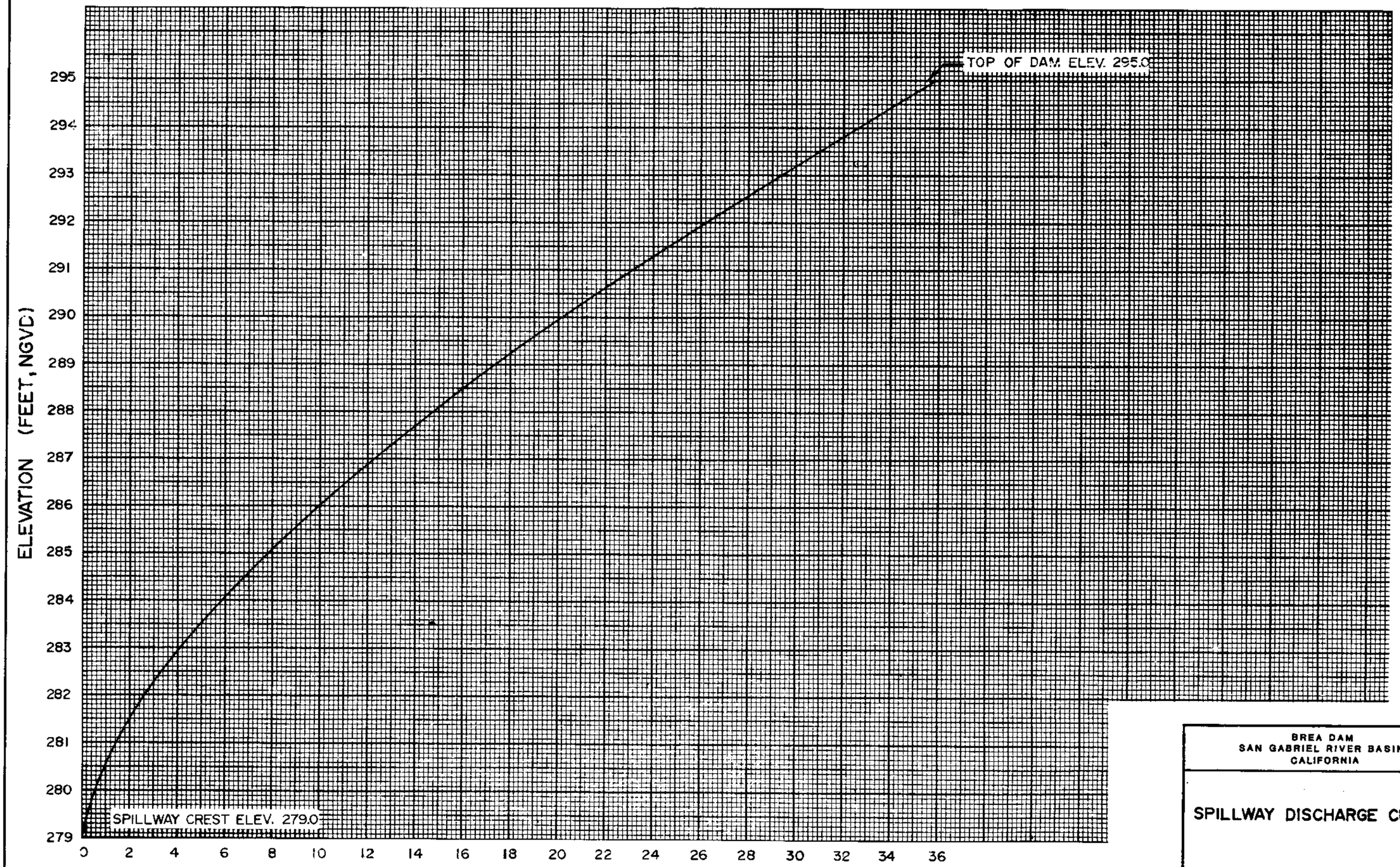
Elevation (feet)	Discharge (cfs)
279	0
280	580
281	1,400
282	2,600
283	4,100
284	5,900
285	7,800
286	10,000
287	12,300
288	14,800
289	17,300
290	20,100
291	23,100
292	26,200
293	29,400
294	32,600
295	35,800

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

SPILLWAY DISCHARGE VS. ELEVATION,

BREA DAM

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

SPILLWAY DISCHARGE CURVE

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

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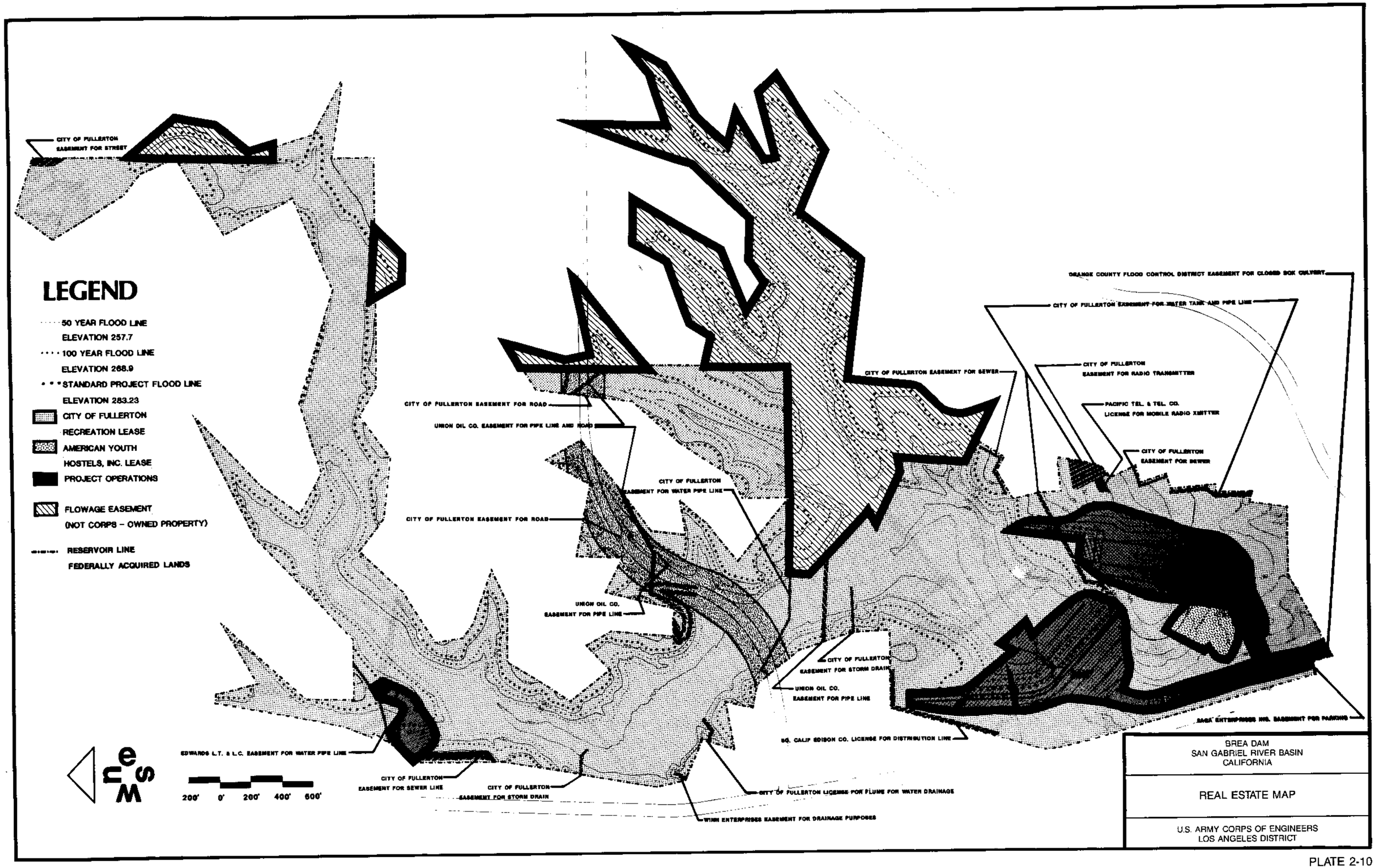
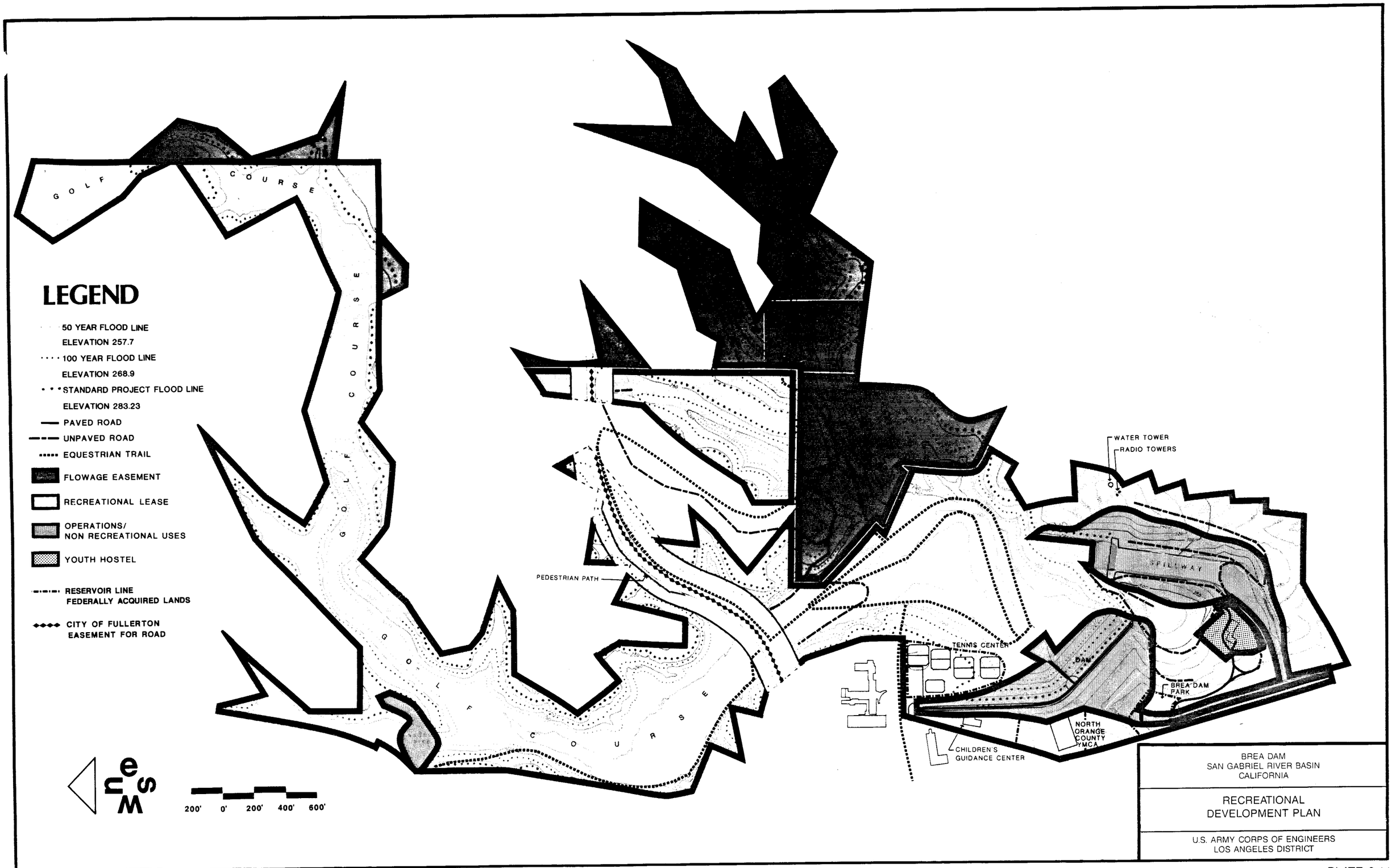
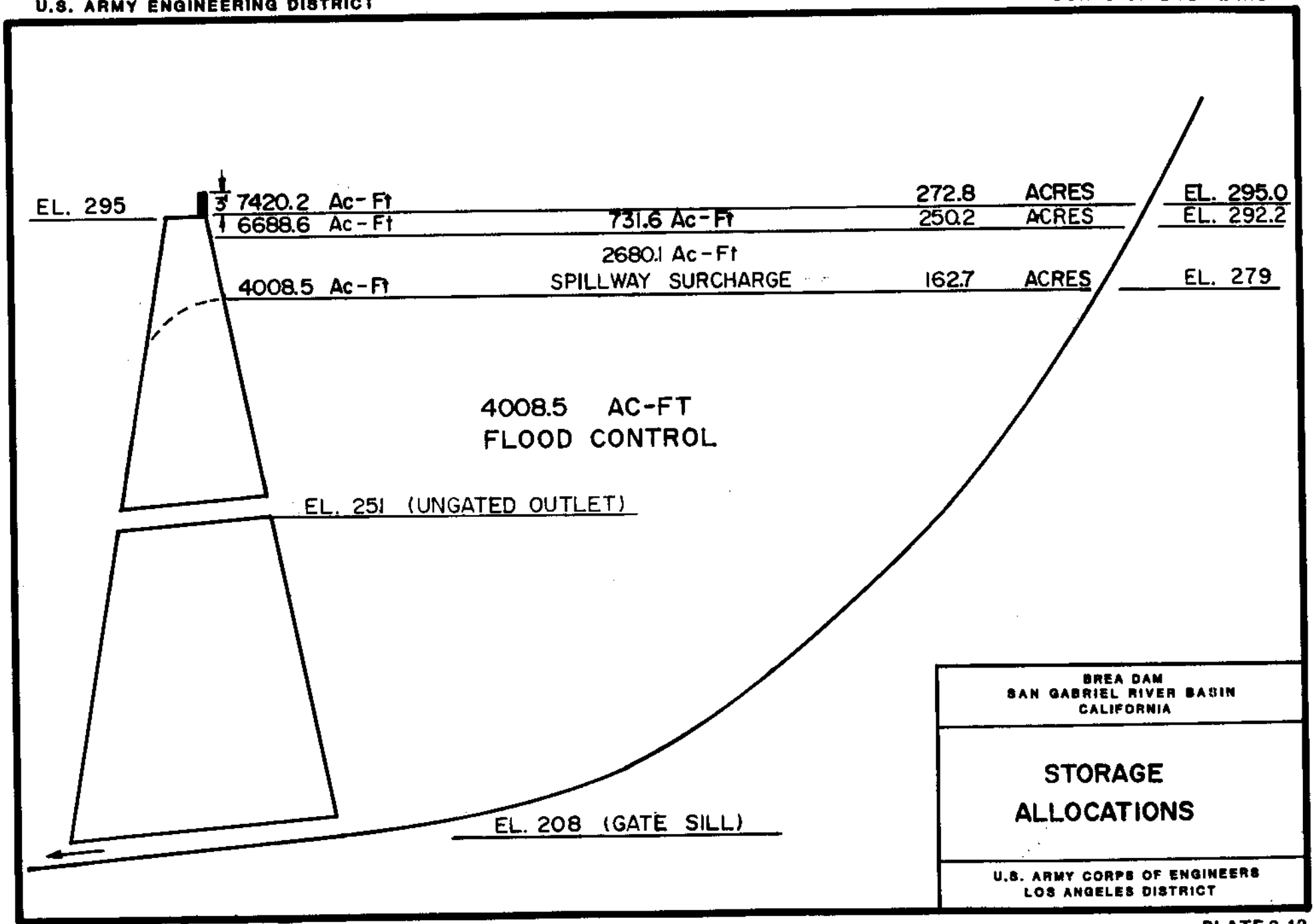

LEGEND
50 YEAR FLOOD LINE
ELEVATION 257.7
100 YEAR FLOOD LINE
ELEVATION 268.9
STANDARD PROJECT FLOOD LINE
ELEVATION 283.23
CITY OF FULLERTON
RECREATION LEASE
AMERICAN YOUTH
HOSTELS, INC. LEASE
PROJECT OPERATIONS
FLOWAGE EASEMENT
(NOT CORPS - OWNED PROPERTY)
RESERVOIR LINE
FEDERALLY ACQUIRED LANDS
CITY OF FULLERTON
EASEMENT FOR STREET
CITY OF FULLERTON EASEMENT FOR ROAD
UNION OIL CO. EASEMENT FOR PIPE LINE AND ROAD
CITY OF FULLERTON
EASEMENT FOR WATER PIPE LINE
CITY OF FULLERTON EASEMENT FOR ROAD
UNION OIL CO.
EASEMENT FOR PIPE LINE
CITY OF FULLERTON EASEMENT FOR SEWER
ORANGE COUNTY FLOOD CONTROL DISTRICT EASEMENT FOR CLOSED BOX CULVERT
CITY OF FULLERTON EASEMENT FOR WATER TANK AND PIPE LINE
CITY OF FULLERTON
EASEMENT FOR RADIO TRANSMITTER
PACIFIC TEL. & TEL. CO.
LICENSE FOR MOBILE RADIO XMITTER
CITY OF FULLERTON
EASEMENT FOR SEWER
CITY OF FULLERTON
EASEMENT FOR STORM DRAIN
UNION OIL CO.
EASEMENT FOR PIPE LINE
SAGA ENTERPRISES INC. EASEMENT FOR PARKING
SO. CALIF EDISON CO. LICENSE FOR DISTRIBUTION LINE
EDWARDS L.T. & L.C. EASEMENT FOR WATER PIPE LINE
CITY OF FULLERTON
EASEMENT FOR SEWER LINE
CITY OF FULLERTON
EASEMENT FOR STORM DRAIN
CITY OF FULLERTON LICENSE FOR FLUME FOR WATER DRAINAGE
WINN ENTERPRISES EASEMENT FOR DRAINAGE PURPOSES
N
W
E
S
200' 0' 200' 400' 600'
BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA
REAL ESTATE MAP
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

PLATE 2-10


LEGEND
50 YEAR FLOOD LINE
ELEVATION 257.7
100 YEAR FLOOD LINE
ELEVATION 268.9
STANDARD PROJECT FLOOD LINE
ELEVATION 283.23
PAVED ROAD
UNPAVED ROAD
EQUESTRIAN TRAIL
FLOWAGE EASEMENT
RECREATIONAL LEASE
OPERATIONS/
NON RECREATIONAL USES
YOUTH HOSTEL
RESERVOIR LINE
FEDERALLY ACQUIRED LANDS
CITY OF FULLERTON
EASEMENT FOR ROAD
GOLF COURSE
GOLF COURSE
GOLF COURSE
PEDESTRIAN PATH
WATER TOWER
RADIO TOWERS
SPILLWAY
TENNIS CENTER
DAM
BREA DAM PARK
NORTH ORANGE COUNTY YMCA
CHILDREN'S GUIDANCE CENTER
N
W
E
S
200' 0' 200' 400' 600'
BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA
RECREATIONAL
DEVELOPMENT PLAN
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT


EL. 295
3' 7420.2 Ac-Ft
272.8 ACRES
EL. 295.0
6688.6 Ac-Ft
731.6 Ac-Ft
250.2 ACRES
EL. 292.2
2680.1 Ac-Ft
SPILLWAY SURCHARGE
4008.5 Ac-Ft
162.7 ACRES
EL. 279
4008.5 AC-FT
FLOOD CONTROL
EL. 251 (UNGATED OUTLET)
EL. 208 (GATE SILL)
BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA
STORAGE
ALLOCATIONS
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

Area and Gross Capacity - Brea Reservoir, Orange County, Fullerton, California

Elevation Feet (NGVD)	Capacity Acre-Feet	Area Acres	Elevation Feet (NGVD)	Capacity Acre-Feet	Area Acres	Elevation Feet (NGVD)	Capacity Acre-Feet	Area Acres
208	0.0	0.0	240	443.4	40.5	272	2,982.8	131.3
209	0.1	0.15	241	484.9	42.4	273	3,116.2	135.5
210	0.3	0.25	242	528.2	44.3	274	3,253.8	139.7
211	0.6	0.4	243	573.4	46.1	275	3,395.5	144.0
212	1.1	0.5	244	620.4	47.9	276	3,541.7	148.6
213	1.6	0.55	245	669.2	49.8	277	3,692.6	153.3
214	2.2	0.65	246	720.0	51.9	278	3,848.2	158.0
215	2.9	0.9	247	773.0	54.0	279	4,008.5	162.7
216	4.0	1.5	248	828.0	56.1	280	4,173.6	167.8
217	5.8	2.1	249	885.2	58.3	281	4,344.0	173.3
218	8.2	2.8	250	944.5	60.5	282	4,520.0	179.2
219	11.3	3.5	251	1,006.2	63.0	283	4,702.4	185.1
220	15.1	4.4	252	1,070.6	65.7	284	4,890.4	191.0
221	20.1	5.9	253	1,137.6	68.3	285	5,084.3	197.2
222	26.9	7.7	254	1,207.2	71.0	286	5,284.7	204.0
223	35.5	9.5	255	1,279.5	73.7	287	5,492.2	211.0
224	45.9	11.3	256	1,354.5	76.5	288	5,706.7	218.1
225	58.0	13.0	257	1,432.5	79.5	289	5,928.4	225.3
226	71.8	14.6	258	1,513.4	82.3	290	6,157.2	232.6
227	87.1	16.1	259	1,597.2	85.3	291	6,393.6	240.5
228	103.9	17.5	260	1,684.0	88.3	292	6,638.1	248.6
229	122.1	19.0	261	1,773.7	91.3	293	6,890.7	256.6
230	141.8	20.6	262	1,866.5	94.3	294	7,151.4	264.8
231	163.2	22.4	263	1,962.3	97.3	295	7,420.2	272.8
232	186.5	24.2	264	2,061.1	100.3			
233	211.6	26.1	265	2,162.9	103.5			
234	267.4	27.9	266	2,268.1	107.3			
235	298.3	29.8	267	2,377.4	111.2			
236	331.3	32.0	268	2,490.5	115.1			
237	311.5	34.1	269	2,607.6	119.1			
238	366.5	36.3	270	2,728.6	123.0			
239	403.9	38.5	271	2,853.6	127.1			

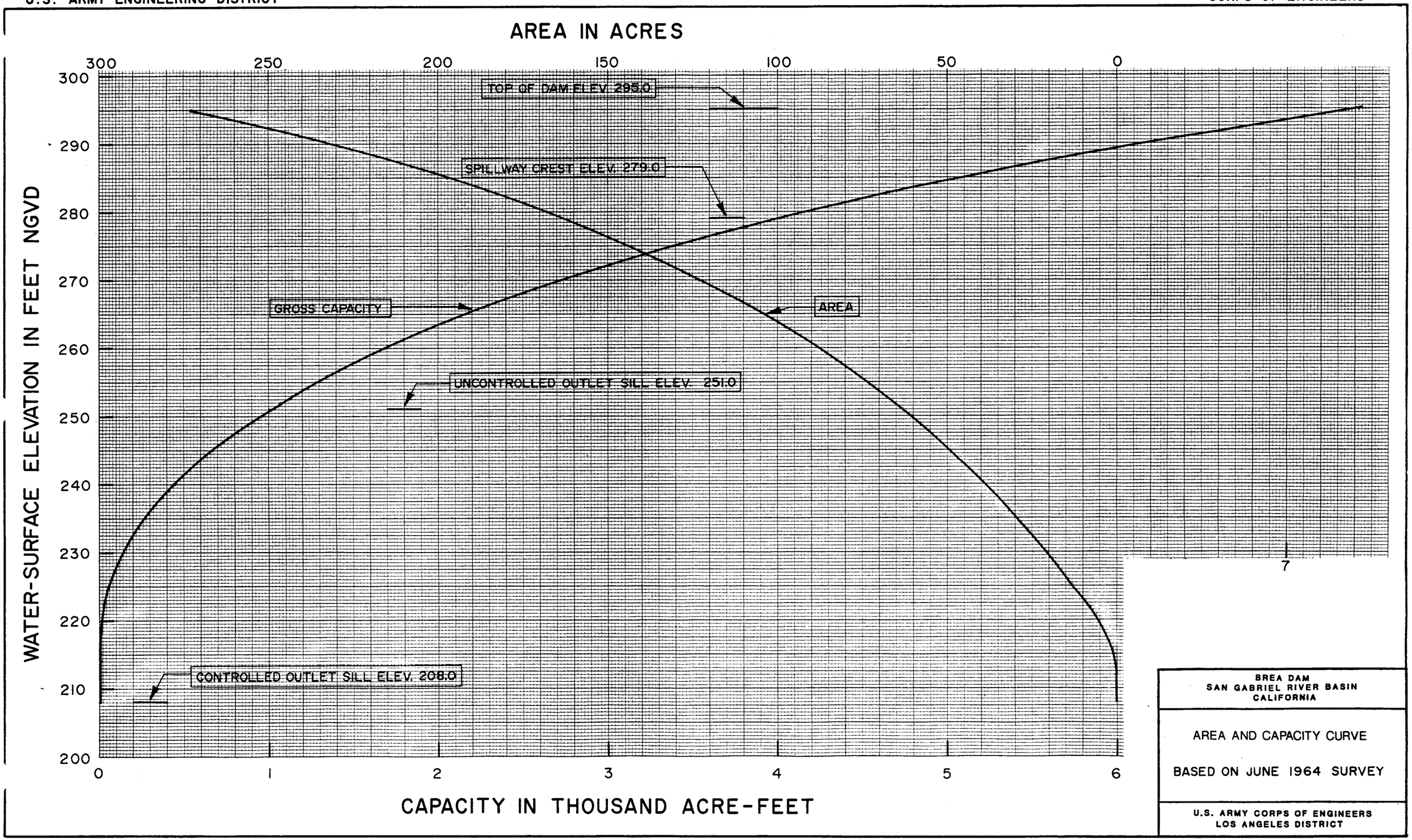
Note: Areas and capacities are based on survey of June, 1964.
Values recomputed from original survey data in September, 1975.

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

AREA & GROSS CAPACITY - BREA RESERVOIR,

ORANGE COUNTY, FULLERTON, CA

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

AREA AND CAPACITY CURVE

BASED ON JUNE 1964 SURVEY

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT