LEGEND

EXISTING DRAINAGE DIVIDE

PROPOSED DRAINAGE DIVIDE

100 YEAR FLOOD ELEVATION

SOILS (SOIL CONSERVATION SERVICE)

STORM	EXISTING	PROPOSED
100 YR.	20.85 C.F.S.	18.26 C.F.S.
10 YR.	9.40 C.F.S.	9.15 C.F.S.

RUNOFF TO NAGOG BROOK FROM ACORN PARK

NAGOG BROOK

100 YEAR FLOOD DEPTH = 1.5'± (FEMA STUDY)

SUBCATCHMENT 1A

SUBCATCHMENT 1

SUBCATCHMENT 3A

SUBCATCHMENT 3

SUBCATCHMENT A

TO WILLIS HOLE BROOK

TO WOODED SWAMP ON PARCEL F

100 YEAR FLOOD

TO ACORN PARK DRIVE

WILLIS HOLE BROOK

WOODED SWAMP 100 YEAR FLOOD DEPTH = 1.75 ±

EXIST. 48" CULV 100 YEAR FLOW = 90.62 CFS 10 YEAR FLOW = 66.72 CFS

TRIBUTARY TO NAGOG BROOK

NONSET PATH

EXIST. 42" RCP CULVERT W/ HEADWALLS

LOWER DETENTION AREA 100 YEAR STORM ELEVATION = 208.22

SUBCATCHMENT 2

SUBCATCHMENT 1A

SUBCATCHMENT 1

UPPER DETENTION AREA 100 YEAR STORM ELEVATION = 209.02

SUBCATCHMENT 2A

2 - EXIST. 42" RCP CULVERTS W/HEADWALLS

REMOVE OLD STONE CULVERT

100 YEAR FLOOD DEPTH = 2.15'

TRIBUTARY TO NAGOG BROOK

100 YEAR FLOOD DEPTH EXISTING = 2.2' PROPOSED = 1.7'

PROPOSED RETENTION BASIN (TYP.) TO RECEIVE FIRST ONE INCH OF RUNOFF FROM PAVED SURFACES; OVERFLOW TO WETLANDS

EXISTING CONTROL STRUCTURE
12" RCP CULVERT
15" RCP CULVERT

GREAT ROAD (ROUTE 119 AND 2A)

HARRIS STREET

TOTAL RUNOFF TO TRIBUTARY STREAM		
STORM	EXISTING	PROPOSED
100 YR.	239.41 C.F.S.	161.65 C.F.S.
10 YR.	139.38 C.F.S.	106.54 C.F.S.

RECEIVED
JUL - 8 1995
ACTON CONSERVATION COMMISSION

APPROVED BY:
ACTON PLANNING BOARD

DATE

I, CLERK OF THE TOWN OF ACTON, MASSACHUSETTS HEREBY CERTIFY THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE ACTON PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECIEPT AND RECORDING OF SAID NOTICE.

DATE

TOWN CLERK

ACORN PARK (PHASE II) ACTON, MASS.

DRAINAGE AREA PLAN

FOR: ACORN PARK REALTY TRUST
SCALE: 1"=100' DATE: MAY 18, 1995

STAMSKI AND McNARY, INC.
80 HARRIS STREET — ACTON, MASS.
ENGINEERING — PLANNING — SURVEYING

0 50 100 200 300 400 FEET

SM -1243

DEP# 85-481