

INLET DESIGN CALCULATIONS

PROJECT NAME: ELEMENTARY SCHOOL #9
 LINE NAME: N/A
 DATE: 6/27/01
 BY: RAH

No.	Inlet Location	AREA RUNOFF Q = CIA					SELECTED INLET								
		Design Storm Frequency (yrs)	Time of Intensity Conc. (min)	Runoff Coeff. (in/hr)	Area (ac)	10' Upstream Inlet (ft/s)	Total Inlet Capacity (ft/s)	10' Downstream Inlet Capacity (ft/s)	Draw Type	Length (ft)	Inlet Capacity (ft/s)	Inlet Type	Carry-Over to Downstream Inlet (ft/s)		
1		4	5	6	7	8	9	10	11	12	13	14	15	16	17
A2	PARKING LOT	100	10	9.8	0.90	1.03	9.1	0	LOW	POINT					
D1	EAST PARKING LOT	100	10	9.8	0.70	1.44	9.9	0	38.2	0.0250					
D2	DRIVE	100	10	9.8	0.70	0.54	3.7	0	0						
D4	DRIVE	100	10	9.8	0.70	0.43	2.9	3.4	30.6	0.0160	6" SLOPED	10'	5.6		1.07*
D5		100	10	9.8	0.70	0.73	5.0	0	N/A	N/A	N/A	4'x4'	47.4	5.4	0
D6	EAST PARKING LOT	100	10	9.8	0.70	0.62	4.3	4.5	38.2	0.0250	6" SLOPED	10'	5.4	C.I.	3.4

STORM WATER RUNOFF CALCULATIONS

AREA NO.	DRAINAGE AREA (AC)	TIME OF CONCENTRATION (MINUTES)	RUNOFF COEFFICIENT (C)	K	INTENSITY (IN/HR)	DESIGN FLOW (CFS)	REMARKS
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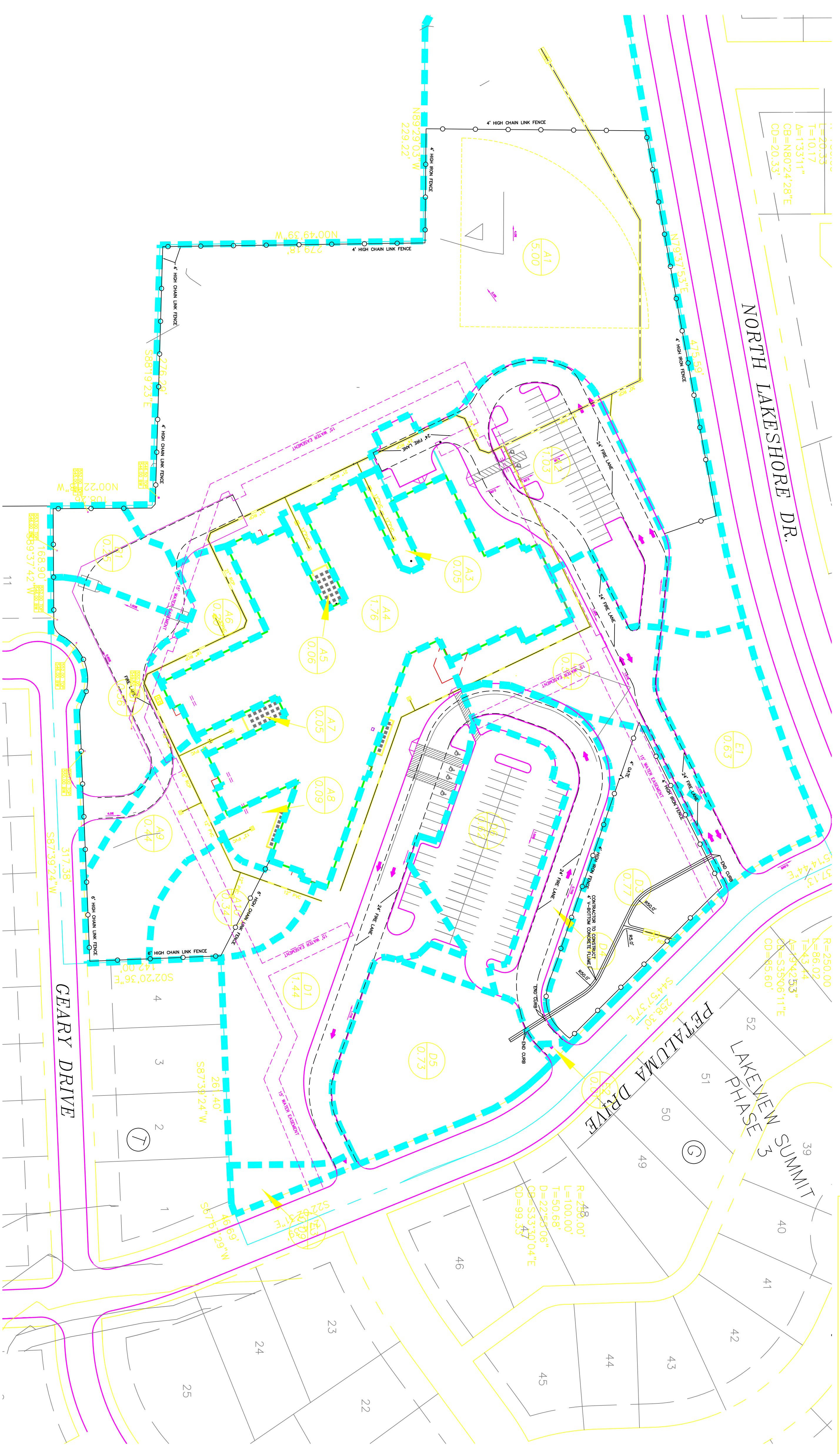
PREDEVELOPED CONDITIONS

EX-1	9.50	20	0.58	10	8.3	27.6	NORTHWEST
EX-2	1.98	20	0.58	10	8.3	4.0	SOUTHWEST
EX-3	4.22	20	0.58	10	8.3	12.3	NORTHEAST / EAST

STORM WATER RUNOFF CALCULATIONS

AREA NO.	DRAINAGE AREA (AC)	TIME OF CONCENTRATION (MINUTES)	RUNOFF COEFFICIENT (C)	K	INTENSITY (IN/HR)	DESIGN FLOW (CFS)	REMARKS
A1	500	10	0.50	10	9.8	24.5	NORTHWEST
A2	108	10	0.80	10	9.8	8.1	10' CURB INLET
A3	0.05	10	0.80	10	9.8	0.4	AREA DRAINS
A4	178	10	0.80	10	9.8	15.5	ROOF DRAINS
A5	0.06	10	0.80	10	9.8	0.5	AREA DRAINS
A6	0.20	10	0.70	10	9.8	1.4	AREA DRAINS
A7	0.05	10	0.80	10	9.8	0.4	AREA DRAINS
A8	0.09	10	0.70	10	9.8	0.6	AREA DRAIN
A9	0.44	10	0.70	10	9.8	3.0	AREA DRAIN
A10	0.34	10	0.70	10	9.8	2.3	AREA DRAIN
B1	0.25	10	0.70	10	9.8	1.7	SOUTHWEST
C1	0.58	10	0.70	10	9.8	3.8	GEARY DRIVE / SOUTH
D1	1.44	10	0.70	10	9.8	9.9	10' CURB INLET
D2	0.54	10	0.70	10	9.8	3.7	10' CURB INLET
D3	0.77	10	0.70	10	9.8	5.3	TO BASIN
D4	0.43	10	0.70	10	9.8	2.9	10' CURB INLET
D5	0.73	10	0.70	10	9.8	5.0	4" WIRE INLET
D6	0.82	10	0.70	10	9.8	4.3	10' CURB INLET
E1	0.83	10	0.70	10	9.8	4.3	PETALUMA DR. / NORTH LAKESHORE DR.
E2	0.01	10	0.70	10	9.8	0.1	PETALUMA DRIVE
E3	0.09	10	0.70	10	9.8	0.6	PETALUMA DRIVE

*TO PETALUMA DRIVE



BENCH MARK:
 BRASS CAP MONUMENT NO. 10 SET IN CONCRETE IN THE CENTER OF GRASS MEDIAN IN MASTERS DRIVE BETWEEN NORTH LAKESHORE DR. AND SHORES BLVD.
 ELEV. = 524.62

DRAINAGE AREA MAP

SCALE: 1" = 40'



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FINAL PLANS FOR BIDDING AND CONSTRUCTION

Professional Engineer Seal

STW Group Inc. Architects & Engineers

SHEET NUMBER **C** OF **2.8**

SET NUMBER