

- BM #2: Top nut of FH near west line of site 675± north of southwest corner of site. Elev. 601.31
- BM #3: Cut "+" in walk on outside of curved drive near southeast corner of lower school. Elev. 586.06
- BM #4: "□" cut - west end conc. headwall, north side Spring Valley, at southeast corner campus. Elev. 578.47
- BM #5: "□" cut in walk at southeast corner intersection of drive along south side of preschool building and north-south drive into site from Spring Valley. Elev. 588.20
- BM #6: "□" cut at southwest corner basketball courts, southeast of gymnasium. Elev. 597.48
- BM #7: "□" cut, southwest corner transformer pad, northeast of tennis courts. Elev. 601.42
- BM #8: Top nut of FH at west end of drive along north side of campus. Elev. 609.80
- BM #9: "□" cut at NEC of electric MH on north side cafeteria, south side of driving along north side of campus. Elev. 602.80
- BM #10: "□" cut on conc. step near northwest corner of upper school. Elev. 598.85
- BM #11: "□" cut on conc step on walk exiting west side of library. Elev. 596.44
- BM #12: "□" cut at intersection of walk along west side lower school and walk along south side lower school. Elev. 587.78

CONTRACTOR TO TAKE STEPS AS REQUIRED TO PROTECT EXISTING TREES AND ROOT SYSTEMS SHOWN ON THIS PLAN TO THE FULLEST EXTENT POSSIBLE. UNLESS TREES THAT ARE MARKED FOR REMOVAL

DRAINAGE CRITERIA
 Q = CIA
 DRAINAGE AREA AND
 100 YEAR FLOW BASED
 C=0.90 and I=8.74 in/hr
 (Tc=10 minutes)

DRAINAGE CRITERIA TABLE

DRAINAGE AREA #	AREA (ACRES)	Q (cfs)
#1	0.54	4.25
#2	0.15	1.18
#3	0.39	3.07
#4	0.13	1.02
#5	0.37	2.91
#6	0.59	4.64
#7	0.14	1.10
#8	0.17	1.34
#9	0.14	1.10
#10	0.34	2.67
#11	0.16	1.26
#12	0.51	4.01

* PROPOSED BUILDING TO DRAIN INTO UNDERGROUND COLLECTION SYSTEM INDICATES DRAINAGE AREA NUMBER

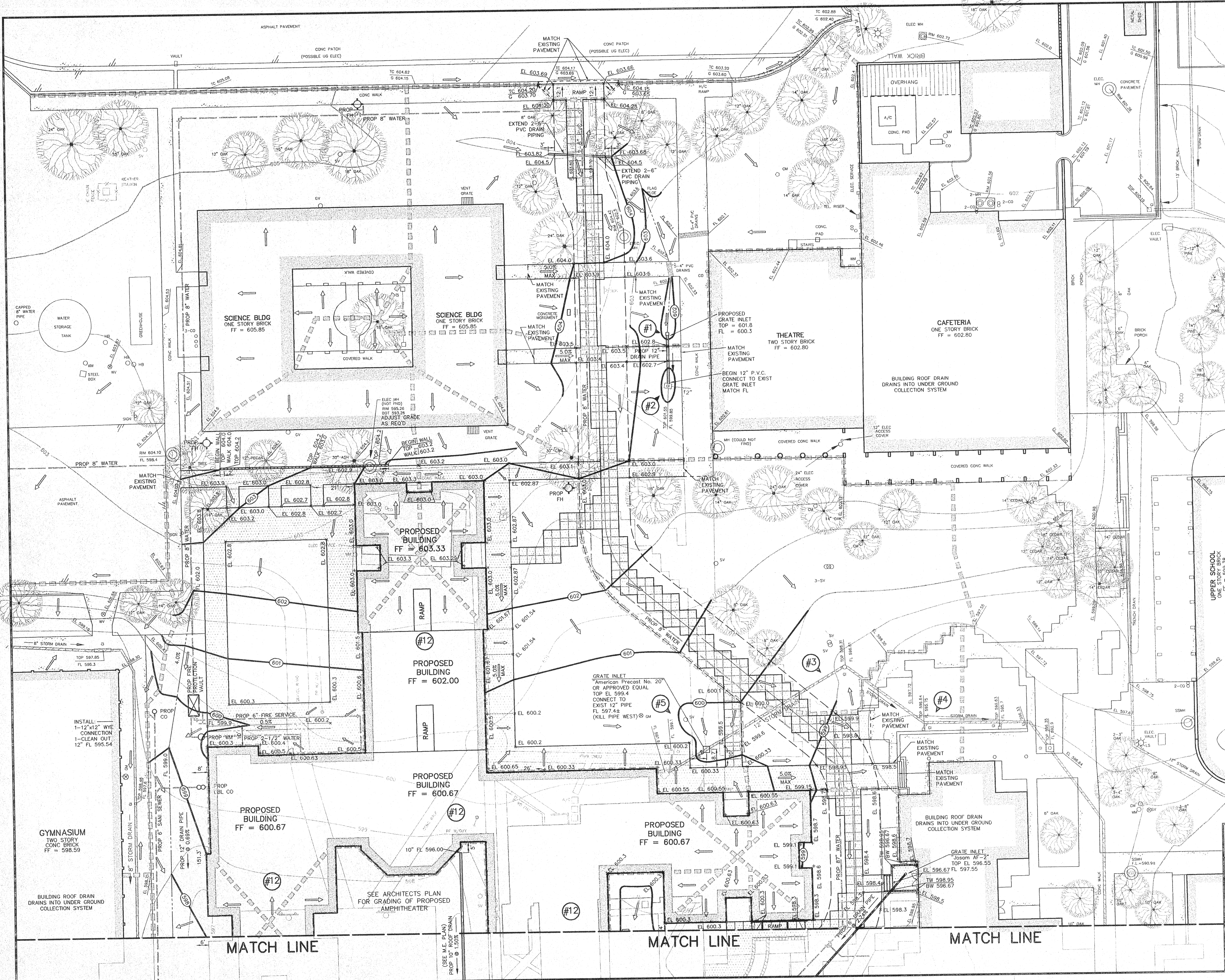
INLET SIZE CALCULATIONS
 $Q = CA\sqrt{2gh}$ (per inlet)
 ZONED MU=3
 $C = 0.7$
 $g = 32.2 \text{ ft/sec}$
 $h = 0.5 \text{ ft}$
 AREA GRATE No. 20 = 0.92 sq ft
 MAX Q GRATE No. 20 = 4.70 cfs
 AREA GRATE No. 36 = 3.61 sq ft
 MAX Q GRATE No. 36 = 18.43 cfs

SHEET 2 OF 2

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 Civil Engineering • Land Surveying

GRADING & DRAINAGE PLAN
BUILDING EXPANSION
GREENHILL SCHOOL
ABST No. 273, DALLAS COUNTY
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JAK	BB	JUNE 1994	1"=20'			C6



MATCH LINE

MATCH LINE

MATCH LINE