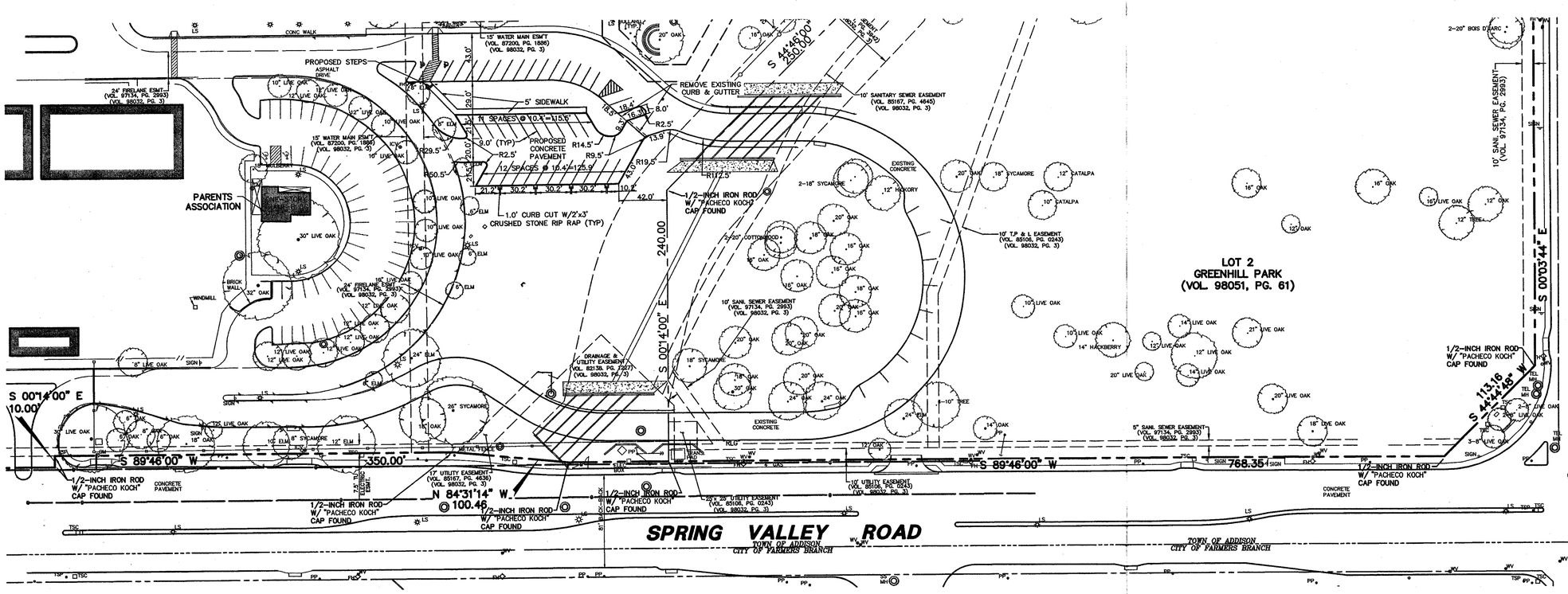

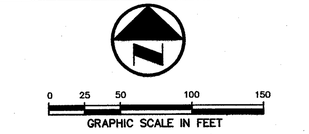

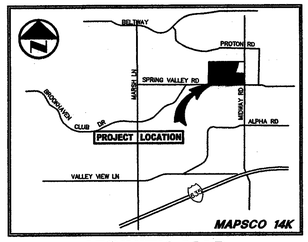

VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
JXL	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
———	PROPERTY LINE
——X———	FENCE
——OHL———	OVERHEAD UTILITY LINE
——6"W———	UNDERGROUND WATER LINE
——E———	UNDERGROUND ELECTRIC LINE
——T———	UNDERGROUND TELEPHONE LINE
——C———	UNDERGROUND CABLE LINE
——6"SS———	UNDERGROUND SANITARY SEWER LINE

NOTE:
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT, AND TOWN OF ADDISON STANDARD CONSTRUCTION SPECIFICATIONS.
2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS INCLUDING ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS AND THE CITY STANDARDS FOR CONSTRUCTION AND ANY OTHER APPLICABLE STANDARD AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATION PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC.. THEY MUST BE ADJUSTED TO PROPER LINE, AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION;
   PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS;
   MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
   MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE; ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DIMENSIONAL CONTROL PLAN

PARKING LOT

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

GREENHILL SCHOOL

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
5/4/05

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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	MAY 2005	1"=50'			C1.0

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV2.DWG

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05/04/2005 - 11:01 AM
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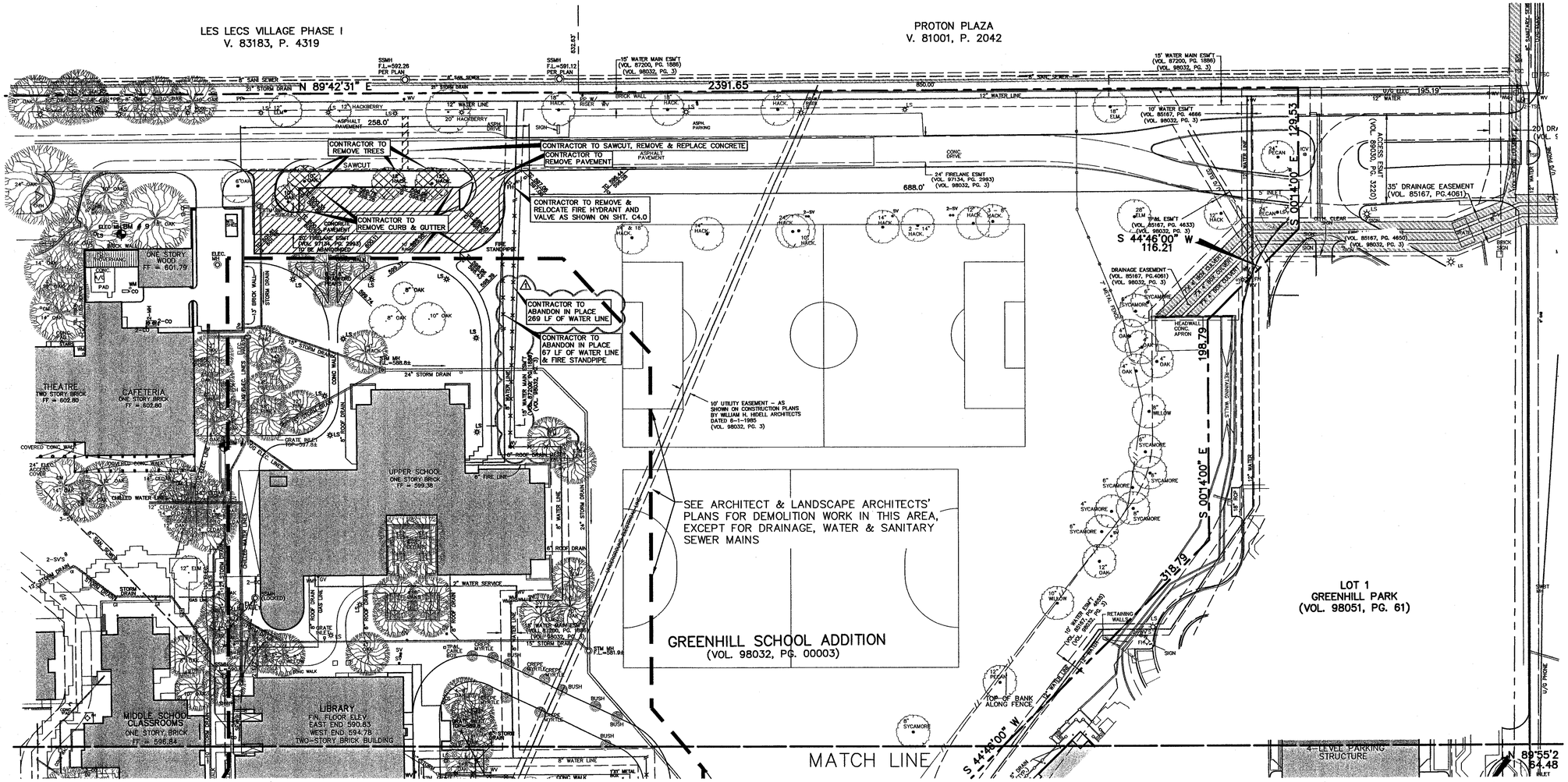

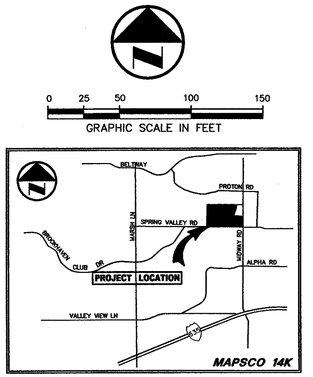

VICINITY MAP

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
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TSC	TRAFFIC SIGNAL CONTROL
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TELE	TELEPHONE BOX
	FLOOD LIGHT
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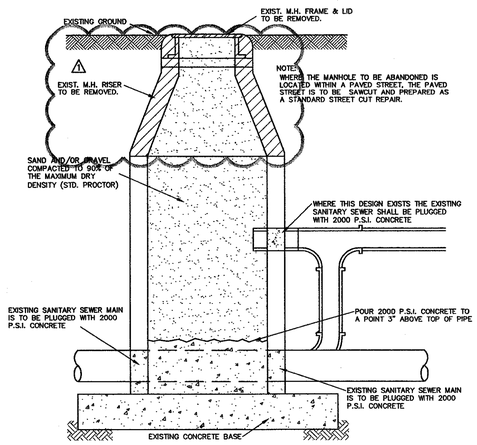
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-x-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED DEMOLITION
	TREE REMOVAL

DEMOLITION NOTES

1. REVIEW ALL GENERAL NOTES.
2. REMOVE ALL EXISTING PAVEMENT AND STRUCTURES WITHIN THE SHADED AREA UNLESS OTHERWISE NOTED.
3. SAWCUT AND REMOVE ALL EXISTING DRIVE APPROACHES THAT ARE SHADED 2 FEET FROM THE BACK OF CURB.
4. CONSULT THE DIMENSIONAL CONTROL PLAN, VERIFY THE PORTION OF EXISTING CONCRETE CURBS WHICH ARE TO REMAIN.
5. COORDINATE WITH TXU, SOUTHWESTERN BELL TELEPHONE, AND THE LOCAL CABLE COMPANY PRIOR TO THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES.
6. ALL UTILITIES SHOULD BE CUT AND PLUGGED IN COORDINATION WITH THEIR RESPECTIVE UTILITY COMPANIES AND PRIOR TO THE DEMOLITION OF THE EXISTING BUILDINGS.
7. CONTRACTOR TO PLUG ALL EXPOSED ENDS AND ABANDONED UTILITIES.
8. CONTRACTOR TO DETERMINE SOURCE OF ALL EXPOSED UTILITIES AND IF REQUIRED, RECONNECT TO PROPOSED UTILITIES.
9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL UNSUITABLE MATERIALS.
10. REMOVE ALL WATER, SANITARY SEWER, AND DRAINAGE APPURTENANCES THAT ARE ASSOCIATED WITH ALL REMOVED, RELOCATED, OR ABANDONED UTILITY LINES.



1 Abandonment of Existing Manhole
NOT TO SCALE

BENCH MARKS

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 #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school.
Elev. 587.78

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
3/31/04

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NO.	DATE	REVISION
1	04/30/2004	REVISED ABANDONED WATER LINE AND DETAIL

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DEMOLITION PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C1.0

PK FILE: 1082-03.024
DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

DWG: (SWC-10)\1082-03-024\DWG\1082-03.024CV.DWG
DATE: 7/2004 - 5:07PM
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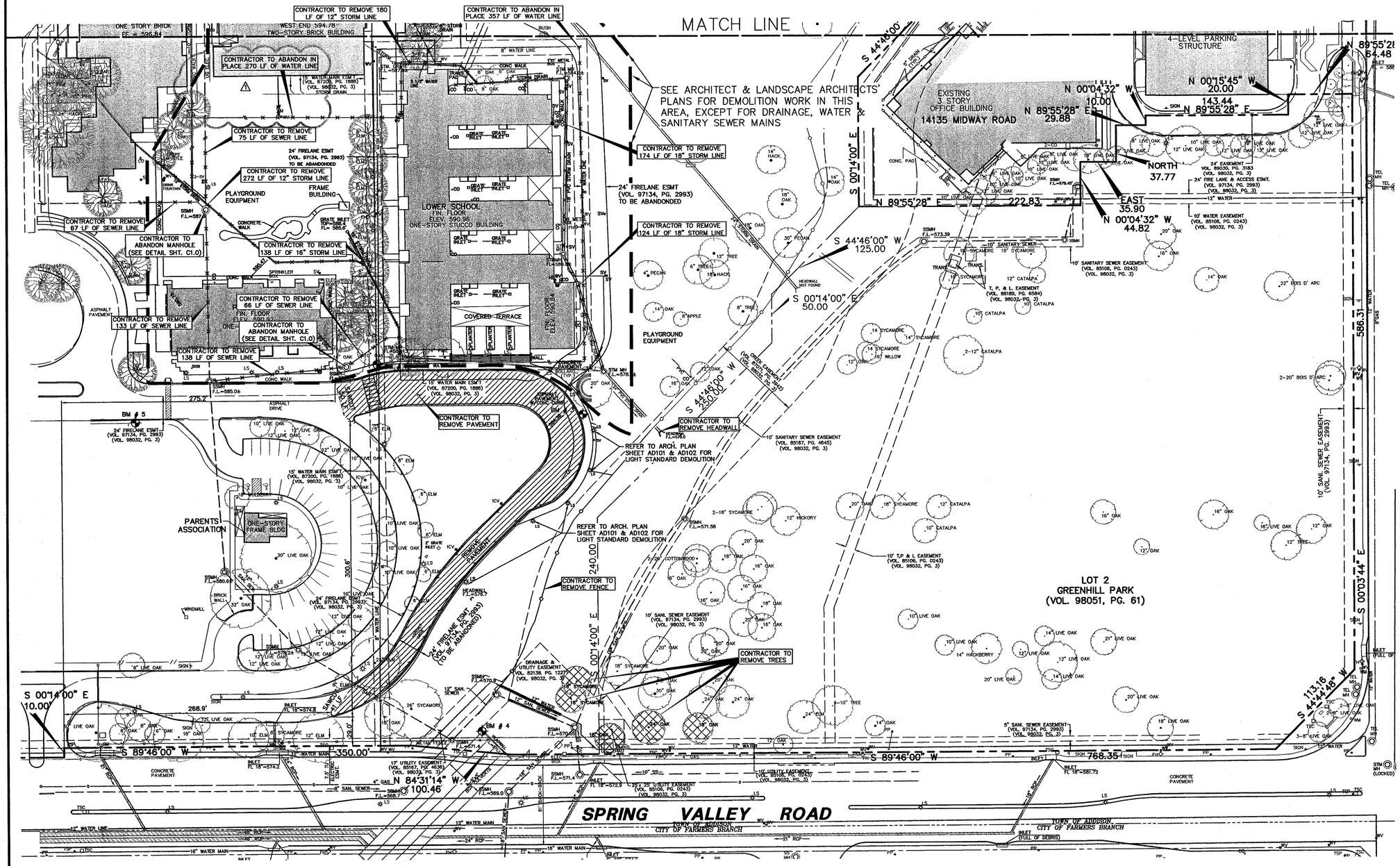

DEMOLITION NOTES

1. REVIEW ALL GENERAL NOTES.
2. REMOVE ALL EXISTING PAVEMENT AND STRUCTURES WITHIN THE SHADED AREA UNLESS OTHERWISE NOTED.
3. SAWCUT AND REMOVE ALL EXISTING DRIVE APPROACHES THAT ARE SHADED 2 FEET FROM THE BACK OF CURB.
4. CONSULT THE DIMENSIONAL CONTROL PLAN, VERIFY THE PORTION OF EXISTING CONCRETE CURBS WHICH ARE TO REMAIN.
5. COORDINATE WITH TXU, SOUTHWESTERN BELL TELEPHONE, AND THE LOCAL CABLE COMPANY PRIOR TO THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES.
6. ALL UTILITIES SHOULD BE CUT AND PLUGGED IN COORDINATION WITH THEIR RESPECTIVE UTILITY COMPANIES AND PRIOR TO THE DEMOLITION OF THE EXISTING BUILDINGS.
7. CONTRACTOR TO PLUG ALL EXPOSED ENDS AND ABANDONED UTILITIES.
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LEGEND

- BOLLARD
- ELECTRIC METER
- POWER POLE
- LIGHT STANDARD
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- CLEANOUT
- MANHOLE
- TRAFFIC SIGNAL CONTROL
- TRAFFIC SIGNAL POLE
- TELEPHONE BOX
- FLOOD LIGHT
- FLAG POLE
- TRAFFIC SIGN
- IRS: 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
- (C.M.): CONTROLLING MONUMENT
- PROPERTY LINE
- FENCE
- OHL — OVERHEAD UTILITY LINE
- 6"W — UNDERGROUND WATER LINE
- E — UNDERGROUND ELECTRIC LINE
- T — UNDERGROUND TELEPHONE LINE
- C — UNDERGROUND CABLE LINE
- 6"SS — UNDERGROUND SANITARY SEWER LINE
- PROPOSED DEMOLITION
- TREE REMOVAL

NO.	DATE	REVISION
1	04/30/2004	REVISED WATER LINE TO BE ABANDONED

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DEMOLITION PLAN

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C1.1

STATE OF TEXAS — STEVEN A. MARKUSSEN — 70090 — REGISTERED PROFESSIONAL ENGINEER — 03/31/04

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PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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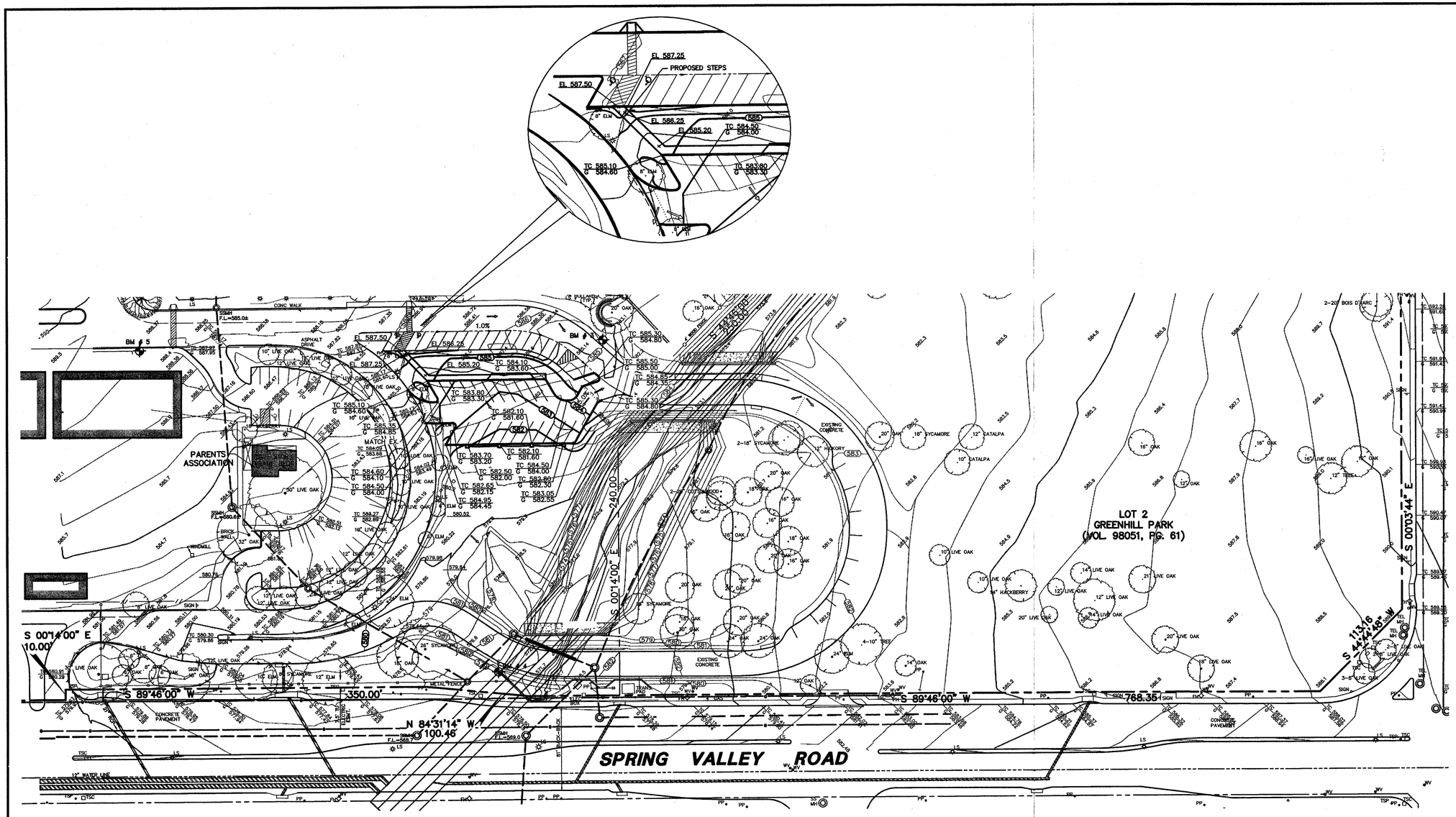

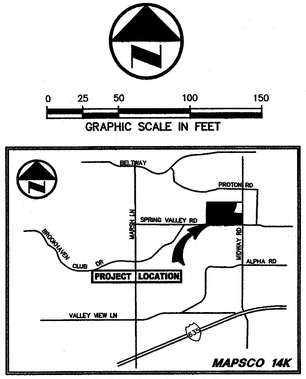

VICINITY MAP

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
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——T———	UNDERGROUND TELEPHONE LINE
——C———	UNDERGROUND CABLE LINE
——6"SS———	UNDERGROUND SANITARY SEWER LINE
612.39	EXIST SPOT ELEVATION
TC 612.39 / G 611.92	EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
TC 614.5 / G 614.0	PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
→	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
(581)	PROPOSED CONTOUR

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 0% TO +3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III
   B. ADS N-12
   C. HANCOR HI-Q
   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OR APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.10. AND SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH NCTCOG ITEM 6.2.9 TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.9 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "A" UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

BENCH MARKS

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.
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STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
5/4/05

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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

GRADING PLAN

PARKING LOT

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	MAY 2005	1"=50'			C2.0

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV2.DWG

GREENHILL SCHOOL

DWG/ 5/04/2005 - 10:26AM
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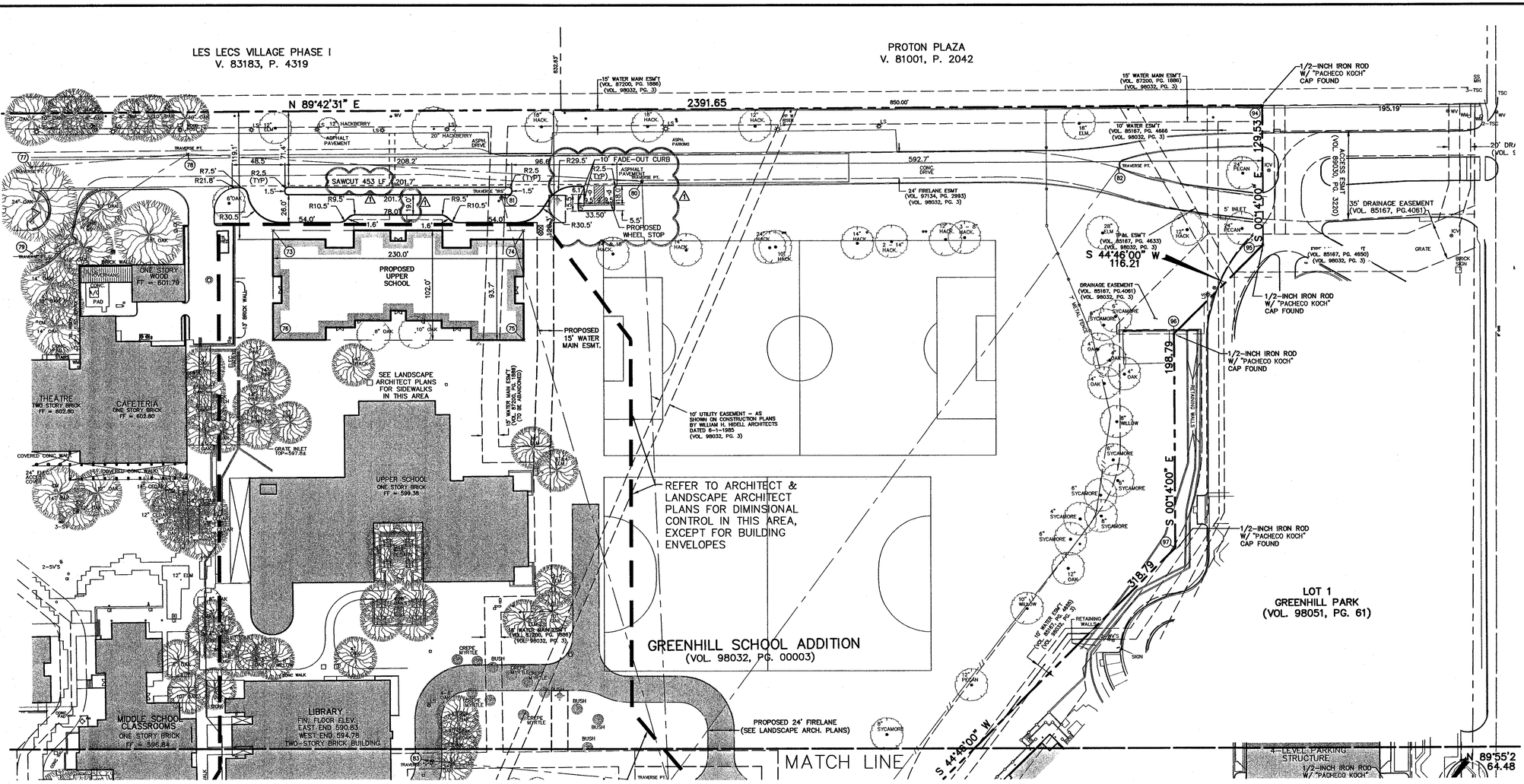

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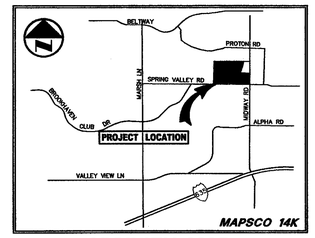

VICINITY MAP

LEGEND

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EM	ELECTRIC METER
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(C.M.)	CONTROLLING MONUMENT
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6"W	UNDERGROUND WATER LINE
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C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED FIRELANE

DIMENSIONAL CONTROL COORDINATE TABLE

PNT #	NORTHING	EASTING
1	N 184.0808	E 1722.7034
2	N 218.0366	E 1745.9137
3	N 390.5633	E 1672.4919
4	N 229.4379	E 1768.3817
5	N 167.1361	E 1805.4590
6	N 227.0977	E 1846.2127
7	N 207.9883	E 1874.3272
8	N 298.5520	E 1935.8792
9	N 189.0520	E 1935.8792
10	N 189.0520	E 2109.9805
11	N 306.0520	E 2109.9805
12	N 192.4730	E 2138.0666
13	N 211.4028	E 2133.3856
14	N 203.7579	E 2151.3245
15	N 195.7209	E 2170.1833
16	N 213.7251	E 2160.3804
17	N 305.9419	E 2110.1702
18	N 306.0520	E 2215.1701
19	N 310.8547	E 2215.1701
20	N 310.7446	E 2110.1702
21	N 362.8000	E 2201.3581
22	N 372.9632	E 2219.1814
23	N 376.0988	E 2198.9027
24	N 379.0816	E 2179.6321
25	N 392.7269	E 2193.5625
26	N 310.8547	E 2109.9805
27	N 427.8547	E 2109.9805
28	N 427.8547	E 2046.3304
29	N 540.3547	E 2046.3304
30	N 436.8187	E 2002.3243
31	N 418.8598	E 1994.7284
32	N 437.3916	E 1988.6582
33	N 432.3105	E 1973.1410
34	N 443.1751	E 1959.2307
35	N 465.2078	E 1934.8482
36	N 413.8254	E 1888.5954
37	N 482.8233	E 1888.0479
38	N 481.8231	E 1762.0009
39	N 497.6447	E 1770.9689
40	N 499.8843	E 1769.6521

PNT #	NORTHING	EASTING
41	N 499.6743	E 1743.1797
42	N 494.1745	E 1743.2234
43	N 489.6152	E 1740.1472
44	N 524.5533	E 1727.8372
45	N 525.8219	E 1887.7067
46	N 497.2286	E 1963.3477
47	N 475.1959	E 1987.9302
48	N 452.8547	E 2046.3304
49	N 452.8547	E 2109.9805
50	N 310.8547	E 2251.9805
51	N 306.0520	E 2251.9805
52	N 164.0520	E 2109.9805
53	N 164.0520	E 1935.8792
54	N 187.3129	E 1860.2742
55	N 206.4213	E 1832.1597
56	N 207.9545	E 1781.1670
57	N 723.7679	E 2012.6545
58	N 681.8097	E 2085.3283
59	N 531.4805	E 1998.5380
60	N 573.4398	E 1925.8648
61	N 634.6631	E 1777.6300
62	N 634.6631	E 1925.2967
63	N 572.6631	E 1925.2967
64	N 572.6650	E 1777.6300
65	N 697.7894	E 1836.0050
66	N 697.7894	E 1915.3384
67	N 644.7894	E 1915.3384
68	N 644.7894	E 1836.0050
69	N 803.8472	E 1542.0470
70	N 803.6430	E 1749.1717
71	N 537.2589	E 1749.1717
72	N 537.2689	E 1542.0470
73	N 1355.0159	E 1650.9673
74	N 1355.0159	E 1880.9679
75	N 1253.0159	E 1880.9679
76	N 1253.0159	E 1650.9673
77	N 1413.9781	E 1429.2246
78	N 1425.6896	E 1572.7820
79	N 1334.5872	E 1429.2246
80	N 1400.2619	E 1989.7834

PNT #	NORTHING	EASTING
81	N 1386.7585	E 1860.5899
82	N 1411.9607	E 2427.1351
83	N 882.5503	E 1791.2912
84	N 840.9214	E 2012.9484
85	N 676.6974	E 2374.5294
86	N 723.7834	E 2758.7574
87	N 151.1724	E 2758.3104
88	N 491.7513	E 1976.5316
89	N 140.3280	E 2375.5973
90	N 47.5318	E 1913.2240
91	N 207.7759	E 1721.8991
92	N 455.5776	E 1429.2246
93	N 527.3525	E 1538.2248
94	N 1470.4390	E 2558.2877
95	N 1340.8101	E 2559.8152
96	N 1258.4032	E 2477.9776
97	N 1059.6149	E 2478.7872
98	N 833.2802	E 2254.2885
99	N 702.0713	E 2254.8228
100	N 702.3650	E 2477.6526
101	N 747.1835	E 2477.5935
102	N 747.1835	E 2513.4891
103	N 784.9523	E 2513.4891
104	N 784.9917	E 2543.3738
105	N 795.0017	E 2543.3606
106	N 795.1908	E 2686.8037
107	N 815.1907	E 2686.7121
108	N 815.2757	E 2751.1685
109	N 228.9648	E 2751.8253
110	N 148.5953	E 2672.1634
111	N 145.4662	E 1903.8186
112	N 155.0591	E 1803.8188
113	N 153.6337	E 1453.8215
114	N 143.6338	E 1453.8622
115	N 205.7334	E 1939.2929
116	N 412.8493	E 2045.8305
117	N 467.8493	E 2096.9564
118	N 412.8493	E 2125.7843
119	N 191.4118	E 2135.7466

NOTE: ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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5. PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION;
   PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS;
   MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
   MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE; ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
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7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.

NO.	DATE	REVISION
1	04/30/2004	ADDED DIMENSIONS, REVISED NOTE & H.C. SPACES

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DIMENSIONAL CONTROL PLAN

GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C2.0

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED
PROFESSIONAL ENGINEER
3/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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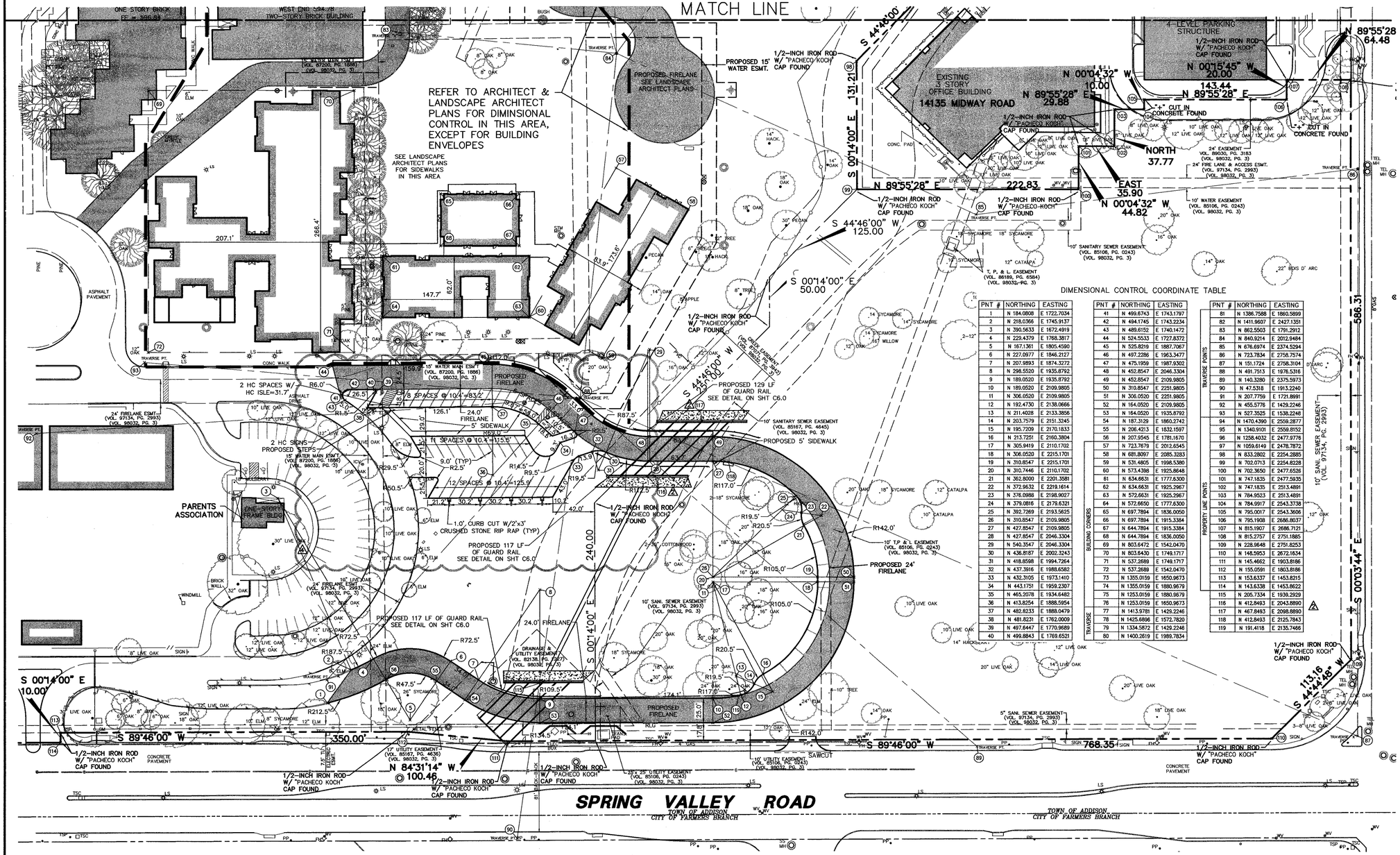

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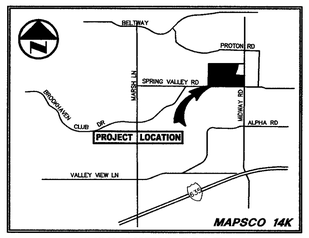
GRAPHIC SCALE IN FEET



VICINITY MAP

DIMENSIONAL CONTROL COORDINATE TABLE

PNT #	NORTHING	EASTING
1	N 184.0806	E 1722.7034
2	N 218.0366	E 1745.9137
3	N 390.5633	E 1672.4919
4	N 229.4379	E 1768.3817
5	N 167.1361	E 1805.4580
6	N 227.0977	E 1846.2127
7	N 207.9893	E 1874.3272
8	N 298.5520	E 1935.8792
9	N 189.0520	E 1935.8792
10	N 189.0520	E 2109.9805
11	N 306.0520	E 2109.9805
12	N 192.4730	E 2138.0666
13	N 211.4028	E 2133.3856
14	N 203.7579	E 2151.3245
15	N 195.7209	E 2170.1833
16	N 213.7251	E 2160.3804
17	N 305.9419	E 2110.1702
18	N 306.0520	E 2215.1701
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20	N 310.7446	E 2110.1702
21	N 362.8000	E 2201.3981
22	N 372.9632	E 2219.1614
23	N 376.0988	E 2198.9027
24	N 379.0816	E 2179.6321
25	N 392.7269	E 2193.5625
26	N 310.8547	E 2109.9805
27	N 427.8547	E 2109.9805
28	N 427.8547	E 2046.3304
29	N 540.3547	E 2046.3304
30	N 436.8187	E 2002.3243
31	N 418.8598	E 1994.7264
32	N 437.3916	E 1988.6582
33	N 432.3105	E 1973.1410
34	N 443.1751	E 1959.2307
35	N 465.2078	E 1934.6482
36	N 413.8254	E 1888.5954
37	N 482.8233	E 1888.0479
38	N 481.8231	E 1762.0009
39	N 497.6447	E 1770.9689
40	N 499.8843	E 1769.6521
41	N 499.6743	E 1743.1797
42	N 494.1745	E 1743.2234
43	N 489.6152	E 1740.1472
44	N 524.5533	E 1727.8372
45	N 525.8219	E 1887.7067
46	N 497.2286	E 1963.3477
47	N 475.1959	E 1987.9302
48	N 452.8547	E 2046.3304
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56	N 207.9545	E 1781.1670
57	N 723.7679	E 2012.6545
58	N 681.8097	E 2085.3283
59	N 531.4805	E 1998.5380
60	N 573.4398	E 1925.8648
61	N 634.6631	E 1777.6300
62	N 634.6631	E 1777.6967
63	N 572.6631	E 1925.2967
64	N 572.6650	E 1777.6300
65	N 697.7894	E 1836.0050
66	N 697.7894	E 1915.3384
67	N 644.7894	E 1915.3384
68	N 644.7894	E 1836.0050
69	N 803.6472	E 1542.0470
70	N 803.6430	E 1749.1717
71	N 537.2689	E 1749.1717
72	N 537.2689	E 1542.0470
73	N 1355.0159	E 1650.9673
74	N 1355.0159	E 1880.9679
75	N 1253.0159	E 1880.9679
76	N 1253.0159	E 1650.9673
77	N 1413.9781	E 1429.2246
78	N 1425.6896	E 1572.7820
79	N 1334.5872	E 1429.2246
80	N 1400.2619	E 1989.7834
81	N 1396.7588	E 1860.5899
82	N 1411.9607	E 2427.1351
83	N 862.5503	E 1791.2912
84	N 840.9214	E 2012.9484
85	N 676.6974	E 2374.5294
86	N 723.7834	E 2758.7574
87	N 151.1724	E 2758.3104
88	N 491.7513	E 1976.5304
89	N 140.3280	E 2375.5973
90	N 47.5318	E 1913.2240
91	N 207.7759	E 1721.8991
92	N 455.5776	E 1429.2246
93	N 527.3525	E 1538.2246
94	N 1470.4360	E 2559.2877
95	N 1340.9101	E 2559.8152
96	N 1258.4032	E 2477.9776
97	N 1059.6149	E 2478.7872
98	N 833.2802	E 2254.2885
99	N 702.0713	E 2254.8228
100	N 702.3650	E 2477.6526
101	N 747.1835	E 2477.5935
102	N 747.1835	E 2513.4967
103	N 784.9523	E 2513.4891
104	N 784.9917	E 2543.3738
105	N 795.0017	E 2543.3606
106	N 795.1908	E 2686.8037
107	N 815.1907	E 2686.7121
108	N 815.2757	E 2751.1885
109	N 228.9648	E 2751.8253
110	N 148.5953	E 2672.1634
111	N 145.4662	E 1903.8186
112	N 155.0591	E 1803.8186
113	N 153.6337	E 1453.8215
114	N 143.6338	E 1453.8622
115	N 205.7334	E 1939.2929
116	N 412.8493	E 2043.8890
117	N 467.8493	E 2098.8890
118	N 412.8493	E 2125.7843
119	N 191.4118	E 2135.7466

BUILDING CORNERS | TRAVERSE POINTS | PROPERTY LINE POINTS

NOTE: ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/ "PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
OHU	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED FIRELANE

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ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE **NOT** BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
4		ADDED PARKING AREA
3	02/16/2005	REVISED FIRE LANE
2	06/10/2004	REVISED CONTROL POINTS FOR CENTERLINE OF MBC
1	04/30/2004	REVISED NOTE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

PRELIMINARY
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

PLANS PREPARED UNDER THE DIRECT SUPERVISION OF STEVEN A. MARKUSSEN, P.E. TEXAS REGISTRATION NO. 70090
DATE: 02/27/2004

DIMENSIONAL CONTROL PLAN

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C2.1

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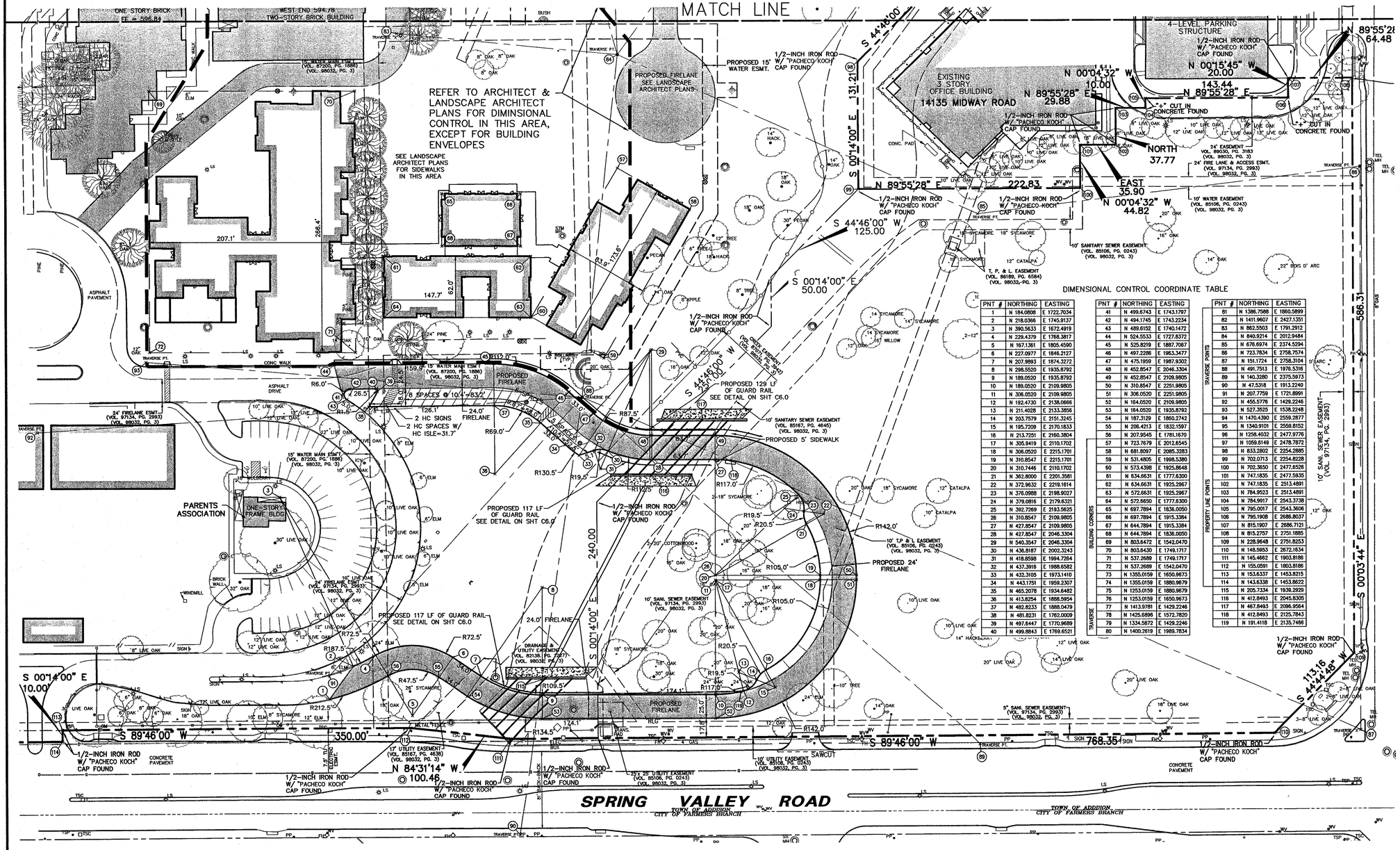

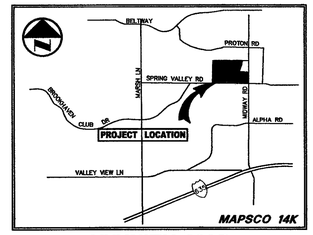

VICINITY MAP

0 25 50 100 150
GRAPHIC SCALE IN FEET

DIMENSIONAL CONTROL COORDINATE TABLE

PNT #	NORTHING	EASTING
1	N 184.0808	E 1722.7034
2	N 218.0366	E 1745.9137
3	N 390.5633	E 1672.4919
4	N 229.4379	E 1768.3817
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24	N 379.0816	E 2179.6321
25	N 392.7269	E 2193.5625
26	N 310.8547	E 2109.9805
27	N 427.8547	E 2109.9805
28	N 427.8547	E 2046.3304
29	N 540.3547	E 2046.3304
30	N 436.8187	E 2002.3243
31	N 418.8598	E 1994.7264
32	N 437.3916	E 1988.6582
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35	N 465.2078	E 1934.6482
36	N 413.8254	E 1888.5954
37	N 482.8233	E 1888.0479
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42	N 494.1745	E 1743.2234
43	N 489.6152	E 1740.1472
44	N 524.5533	E 1727.8372
45	N 525.8219	E 1887.7067
46	N 497.2286	E 1963.3477
47	N 475.1959	E 1987.9302
48	N 452.8547	E 2046.3304
49	N 452.8547	E 2109.9805
50	N 310.8547	E 2251.9805
51	N 306.0520	E 2251.9805
52	N 164.0520	E 2109.9805
53	N 164.0520	E 1935.8792
54	N 187.3129	E 1860.2742
55	N 206.4213	E 1832.1597
56	N 207.9545	E 1781.1670
57	N 723.7679	E 2012.6545
58	N 681.8097	E 2085.3283
59	N 531.4805	E 1998.5380
60	N 573.4398	E 1925.8648
61	N 634.6631	E 1777.6300
62	N 634.6631	E 1925.2967
63	N 572.6631	E 1925.2967
64	N 572.6650	E 1777.6300
65	N 697.7894	E 1836.0050
66	N 697.7894	E 1915.3384
67	N 644.7894	E 1915.3384
68	N 644.7894	E 1836.0050
69	N 803.6472	E 1542.0470
70	N 803.6430	E 1749.1717
71	N 537.2689	E 1749.1717
72	N 537.2689	E 1542.0470
73	N 1355.0159	E 1650.9673
74	N 1355.0159	E 1880.9679
75	N 1253.0159	E 1880.9679
76	N 1253.0159	E 1650.9673
77	N 1413.9781	E 1429.2246
78	N 1425.6896	E 1572.7820
79	N 1334.5872	E 1429.2246
80	N 1400.2819	E 1989.7834
81	N 1386.7566	E 1860.5899
82	N 1411.9607	E 2427.1351
83	N 862.5503	E 1791.2912
84	N 840.9214	E 2012.9484
85	N 676.6974	E 2374.5294
86	N 723.7834	E 2758.7574
87	N 151.1724	E 2758.3104
88	N 491.7513	E 1976.5316
89	N 140.3280	E 2375.5973
90	N 47.5318	E 1913.2240
91	N 207.7759	E 1721.8991
92	N 455.5776	E 1429.2246
93	N 527.3525	E 1536.2248
94	N 1470.4390	E 2559.2877
95	N 1340.9101	E 2559.8152
96	N 1258.4032	E 2477.9776
97	N 1059.6149	E 2478.7872
98	N 833.2802	E 2254.2885
99	N 702.0713	E 2254.8228
100	N 702.3650	E 2477.6526
101	N 747.1835	E 2477.5935
102	N 747.1835	E 2513.4891
103	N 784.9523	E 2513.4891
104	N 784.9917	E 2543.3738
105	N 795.0017	E 2543.3606
106	N 795.1908	E 2686.8037
107	N 815.1907	E 2686.7121
108	N 815.2757	E 2751.1885
109	N 228.9648	E 2751.8253
110	N 148.5953	E 2672.1634
111	N 145.4662	E 1903.8186
112	N 155.0591	E 1803.8186
113	N 153.6337	E 1453.8215
114	N 143.6338	E 1453.8622
115	N 205.7334	E 1939.2929
116	N 412.8493	E 2045.8305
117	N 467.8493	E 2096.9564
118	N 412.8493	E 2125.7843
119	N 191.4118	E 2135.7466

BUILDING CORNERS
TRAVERSE POINTS
PROPERTY LINE POINTS

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED FIRELANE

NOTE:
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT, AND TOWN OF ADDISON STANDARD CONSTRUCTION SPECIFICATIONS.
2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS INCLUDING ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS AND THE CITY STANDARDS FOR CONSTRUCTION AND ANY OTHER APPLICABLE STANDARD AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATION PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC.. THEY MUST BE ADJUSTED TO PROPER LINE, AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION;
   PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS;
   MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
   MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE; ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.

NO.	DATE	REVISION
1	04/30/2004	REVISED NOTE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
03/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

DIMENSIONAL CONTROL PLAN

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C2.1

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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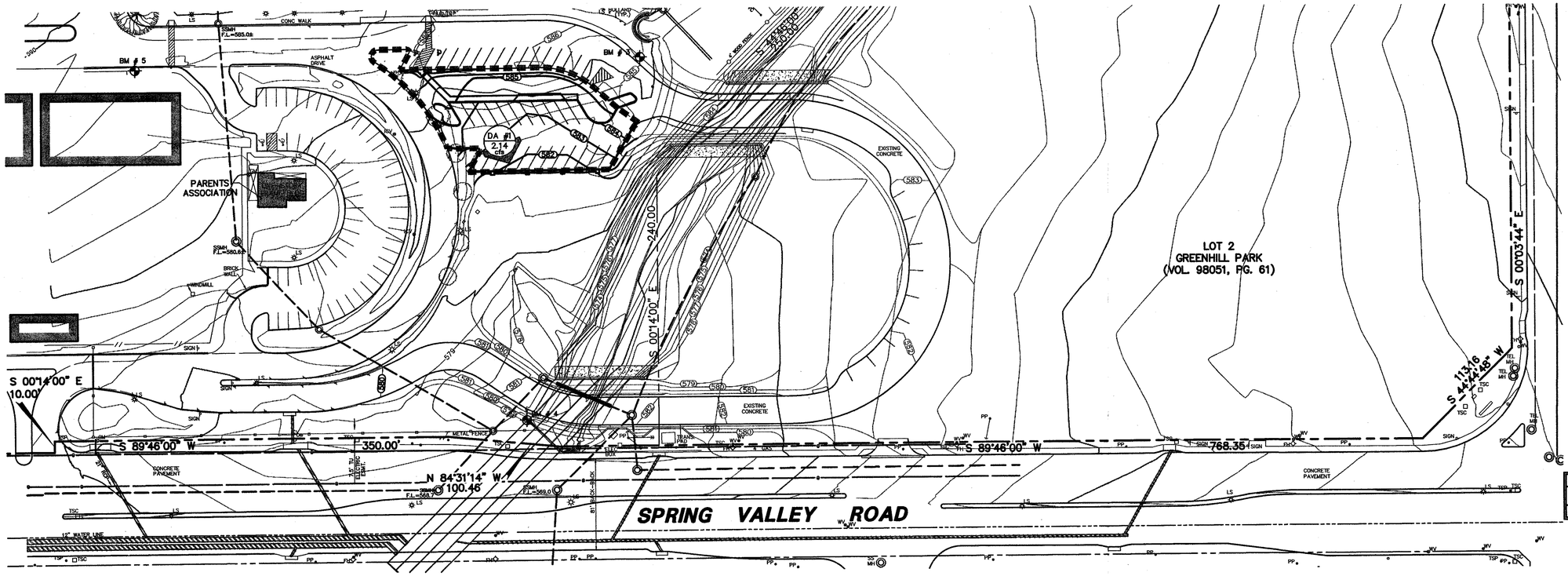

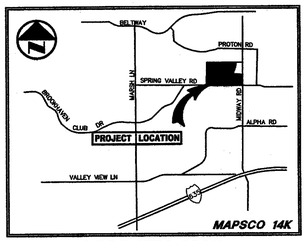

VICINITY MAP

0 25 50 100 150

GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
-OHL-	OVERHEAD UTILITY LINE
-6"W-	UNDERGROUND WATER LINE
-E-	UNDERGROUND ELECTRIC LINE
-T-	UNDERGROUND TELEPHONE LINE
-C-	UNDERGROUND CABLE LINE
-6"SS-	UNDERGROUND SANITARY SEWER LINE
612.39	EXIST SPOT ELEVATION
TC 612.39 G 611.92	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
	PROPOSED DRAINAGE DIVIDE
613	EXIST CONTOUR

PROPOSED DRAINAGE CRITERIA:

Q=(C)(I)(A)

C=0.70

DRAINAGE AREA No.	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I_{100} (inch/hour)	Q_{100} (cfs)	COMMENTS
DA #1	0.35	0.70	10	100 YEAR	8.74	2.14	DRAINS TO PROP. CURB CUT

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 0% TO +3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III
   B. ADS N-12
   C. HANCOR HI-Q

   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OR APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.10. AND SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH NCTCOG ITEM 6.2.9 TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.9 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "A" UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

BENCH MARKS

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 #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school.
Elev. 587.78

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
5-4-05

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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAINAGE PLAN

PARKING LOT

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	MAY 2005	1"=50'			C3.0

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV2.DWG

GREENHILL SCHOOL

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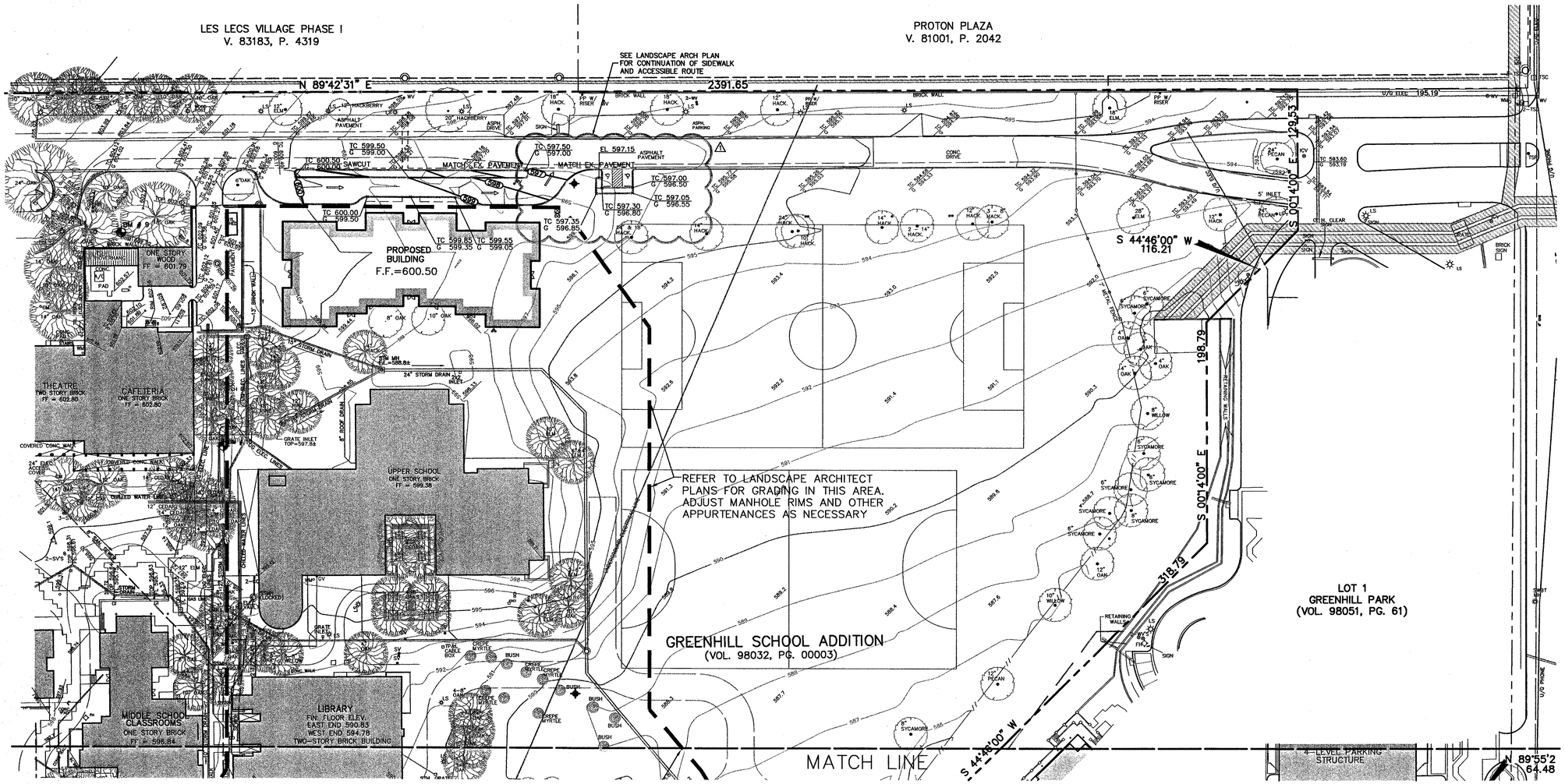

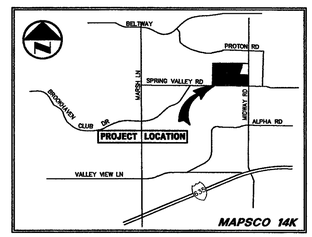

VICINITY MAP

0 25 50 100 150
GRAPHIC SCALE IN FEET

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
612.39	EXIST SPOT ELEVATION
TC 612.39 / G 611.92	EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
TC 614.5 / G 614.0	PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
581	PROPOSED CONTOUR

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL, COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 0% TO +3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
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   B. ADS N-12
   C. HANCOR HI-Q

   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OR APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.10, AND SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH NCTCOG ITEM 6.2.9 TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.9 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "A" UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

BENCH MARKS

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 #9:	" □ " cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school. Elev. 587.78

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
5/31/04

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NO.	DATE	REVISION
1	04/30/2004	REVISED NOTE & H.C. SPACES

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

GRADING PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.0

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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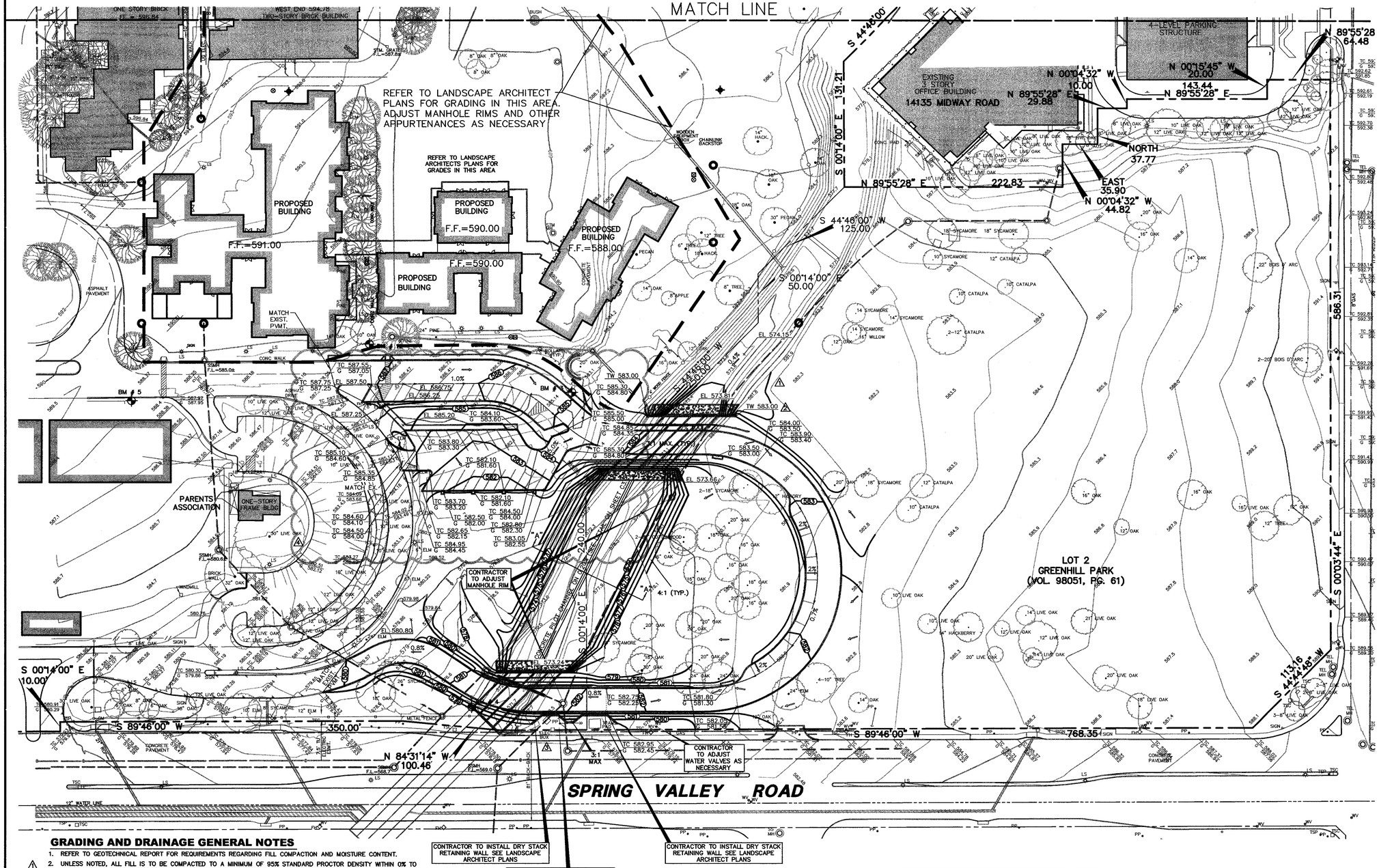

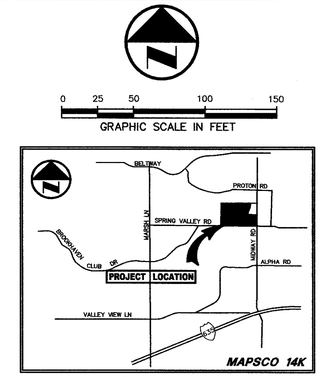

VICINITY MAP

0 25 50 100 150

GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
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	FLOOD LIGHT
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SIGN	TRAFFIC SIGN
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(C.M.)	CONTROLLING MONUMENT
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——T——T——	UNDERGROUND TELEPHONE LINE
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EL 614.5	PROPOSED SPOT ELEVATION
——→——	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
(581)	PROPOSED CONTOUR

GRADING AND DRAINAGE GENERAL NOTES

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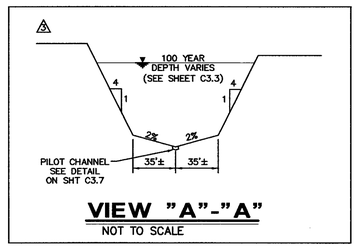
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 0% TO +3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III
   B. ADS N-12
   C. HANCOR HI-Q
   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OR APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.10. AND SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH NCTCOG ITEM 6.2.9 TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.9 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "A" UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.



VIEW "A"-"A"

NOT TO SCALE

BENCH MARKS

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 #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school.
Elev. 587.78

ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE **NOT** BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
7		ADDED PARKING AREA
6	08/24/2004	ADDED TWO RETAINING WALLS AND REVISED DETAIL
5	06/10/2004	REVISED CULVERT & GRADES
4	04/30/2004	REVISED CULVERT, GRADES, & NOTE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

GRADING PLAN

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

PRELIMINARY
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

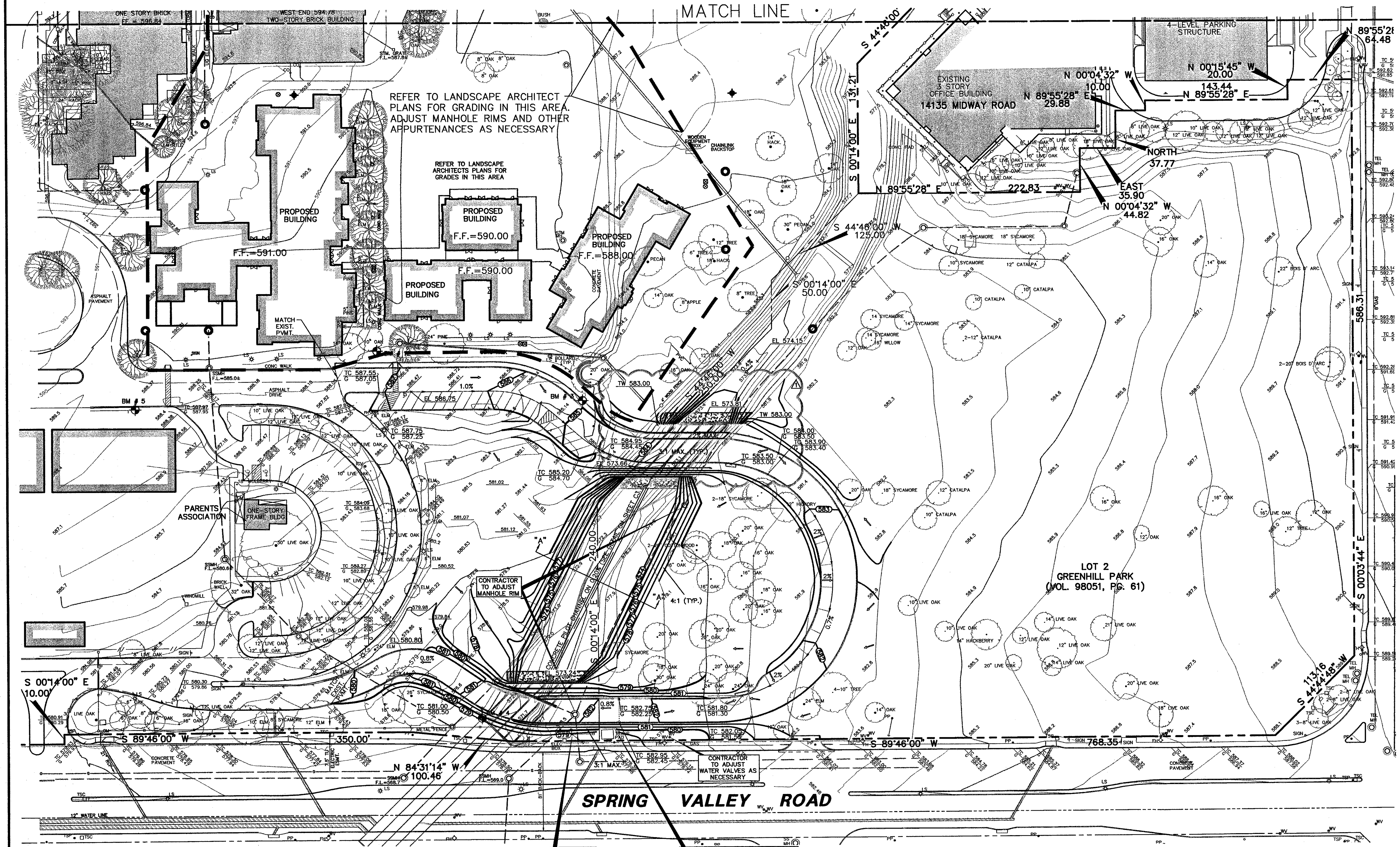
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF STEVEN A. MARKUSSEN, P.E. TEXAS REGISTRATION NO. 70090
DATE: 02/27/2004

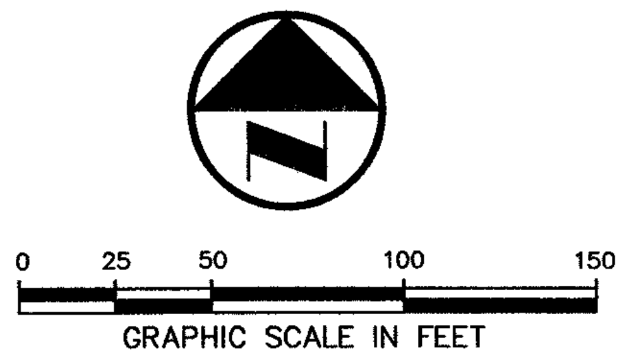
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.1

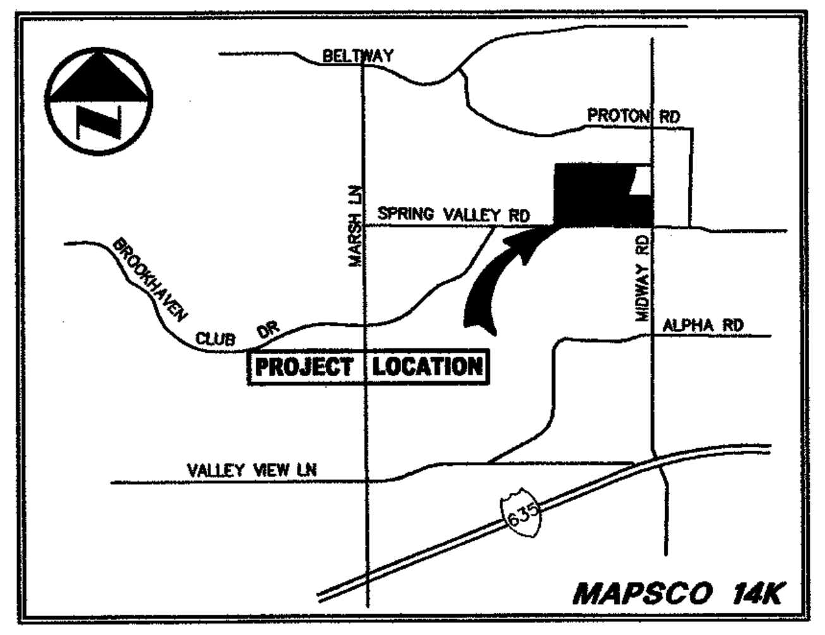
PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG

DWEY
04/28/2005 - 10:50AM
M:\DWG-1Q\1082-03-024\DWG\1082-03.024CV.DWG







VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
612.39	EXIST SPOT ELEVATION
TC 612.39 G 611.92	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
TC 614.5 G 614.0	PROPOSED TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
→	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
581	PROPOSED CONTOUR

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 0% TO +3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS. ⚠1
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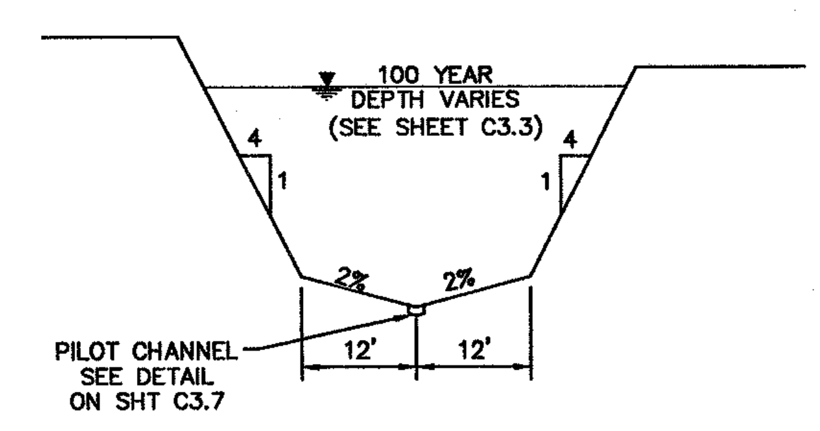

VIEW "A"-"A"

NOT TO SCALE

BENCH MARKS

BM #3:	Cut "+" in walk on outside of curved drive near southeast corner of lower school. Elev.586.06
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BM #9:	"☐" cut at NEC of electric MH on north side cafeteria, south side of drive along north side of campus. Elev. 602.80
BM #10:	"☐" cut on conc. step near northwest corner of upper school. Elev. 598.85
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STEVEN A. MARKUSSEN
70090

3/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
⚠1	04/30/2004	REVISED CULVERT, GRADES, & NOTE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

GRADING PLAN

GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.1

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

DIVEY
04/30/2004 - 1:25PM
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GREENHILL SCHOOL ADDITION
(VOL. 98032, PG. 00003)

LIBRARY
FIN. FLOOR ELEV.
EAST END 590.83
WEST END 594.76
TWO-STORY BRICK BUILDING

PROPOSED BUILDING
F.F.=591.00

PROPOSED BUILDING
F.F.=590.00

PROPOSED BUILDING
F.F.=590.00

PROPOSED BUILDING
F.F.=588.00

EXISTING 3 STORY OFFICE BUILDING
14135 MIDWAY ROAD

4-LEVEL PARKING STRUCTURE

PARENTS ASSOCIATION
ONE-STORY FRAME BLDG

LOT 2
GREENHILL PARK
(VOL. 98051, PG. 61)

N 44°46'00" E

N 00°14'00" W 131.21'

N 89°55'28" E 26.88

N 00°04'32" W 16.00

N 89°55'28" E 64.48

N 00°15'45" W 20.00

N 89°55'28" E 143.44

NORTH 37.77

EAST 35.90

N 00°04'32" W 44.82

N 89°55'28" E 222.83

STA. 8+15

N 44°46'00" E 125.00

N 00°14'00" W 50.00

N 44°46'00" E 100.00' R=1000.00'

STA. 7+29

STA. 6+79

STA. 6+29

STA. 5+79

STA. 5+54

STA. 4+79

STA. 4+54

STA. 3+70

STA. 2+68

STA. 2+43

STA. 2+02

STA. 1+77

STA. 0+00

N 00°14'00" W 720.00'

S 00°03'44" E 586.31'

S 44°44'48" W 11.316

S 89°46'00" W 768.35'

N 89°46'00" E 350.00'

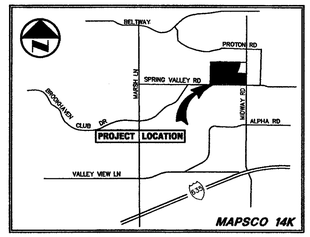
S 84°31'14" E 100.46'

SPRING VALLEY ROAD

MIDWAY ROAD

TOWN OF ADDISON
CITY OF FARMERS BRANCH

0 25 50 100 150
GRAPHIC SCALE IN FEET



VICINITY MAP

LEGEND

- B. BOLLARD
- EM ELECTRIC METER
- PP POWER POLE
- LS LIGHT STANDARD
- WM WATER METER
- WV WATER VALVE
- ICV IRRIGATION CONTROL VALVE
- FH FIRE HYDRANT
- CO CLEANOUT
- MH MANHOLE
- TSC TRAFFIC SIGNAL CONTROL
- TSP TRAFFIC SIGNAL POLE
- TELE TELEPHONE BOX
- FLOOD LIGHT
- FP FLAG POLE
- SIGN TRAFFIC SIGN
- IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
- (C.M.) CONTROLLING MONUMENT
- PROPERTY LINE
- FENCE
- OHL OVERHEAD UTILITY LINE
- 6"W UNDERGROUND WATER LINE
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- 6"SS UNDERGROUND SANITARY SEWER LINE
- 612.39 EXIST SPOT ELEVATION
- TC 612.39 / G 611.92 EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
- 613 PROPOSED CONTOUR
- TC 614.5 / G 614.0 PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
- EL 614.5 PROPOSED SPOT ELEVATION
- PROPOSED DRAINAGE FLOW DIRECTION
- 613 EXIST CONTOUR

THE 100 YEAR FLOW RATE WAS OBTAINED FROM THE FEMA FIS FOR FARMERS BRANCH CREEK. THE FLOW RATE SHOWN ON THE FIS IS LOCATED AT THE DOWNSTREAM END OF THE EXISTING BOX CULVERTS UNDER SPRING VALLEY ROAD.

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

FLOODPLAIN STUDY MAP

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.2

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
3/31/04

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GREENHILL SCHOOL

PK FILE: 1082-03.024

DWG FILE: 1082-03.024XS.DWG
XREF FILE: FS.DWG

DIVEY
04/29/2004 - 5:21PM
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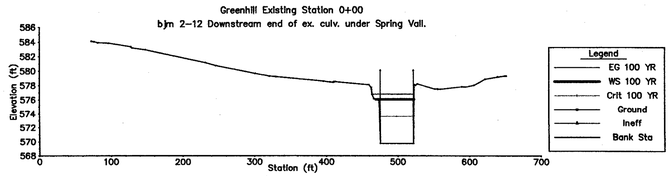

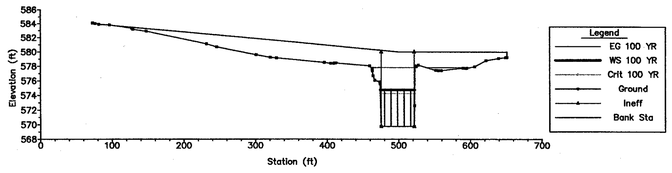

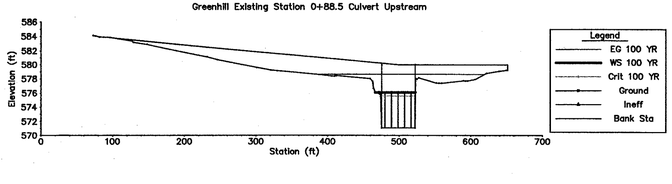

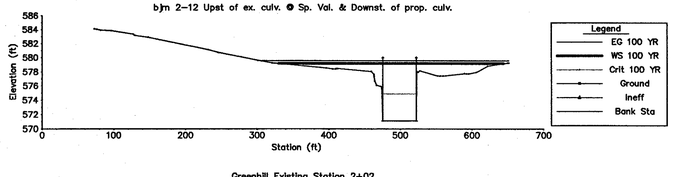

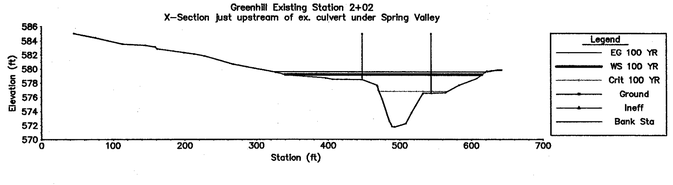

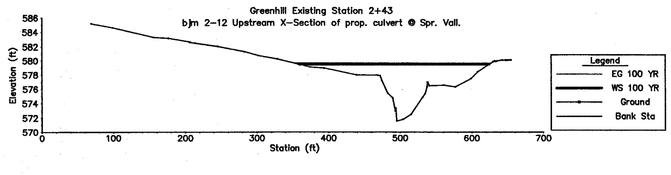

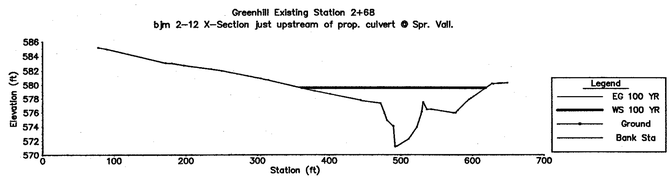

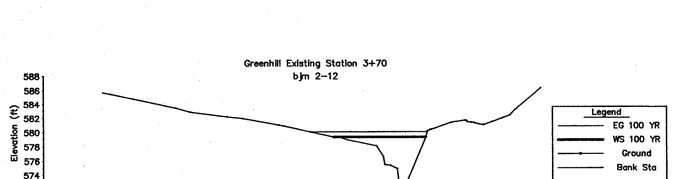

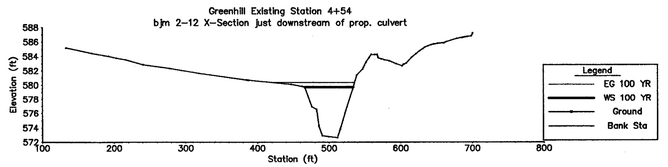

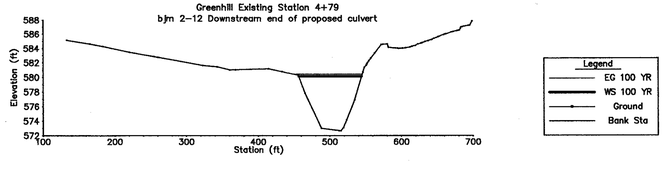

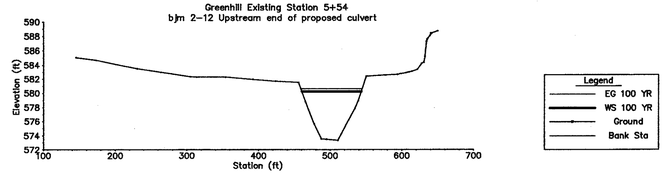

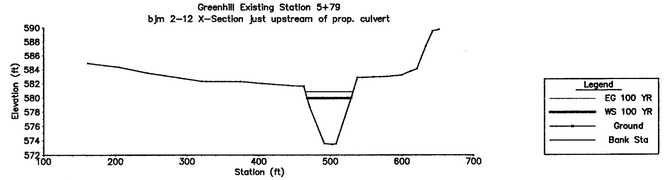

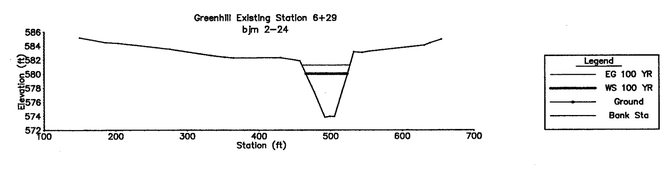

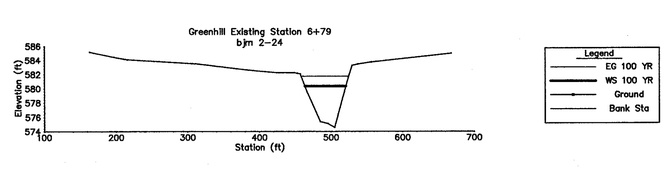

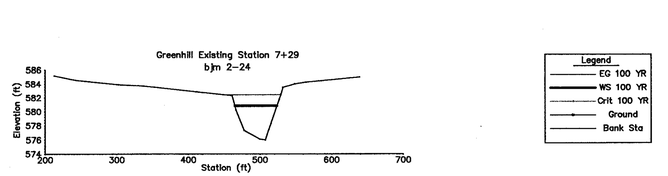

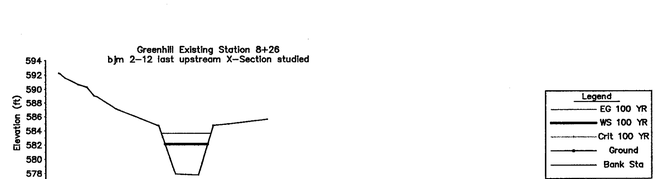

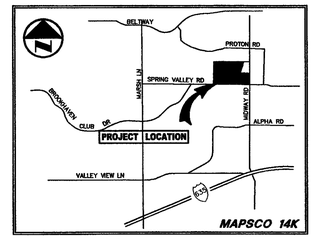

VICINITY MAP

EXISTING PROFILE OUTPUT TABLE

Profile Output Table - Standard Table 1
HEC-RAS Plan: Plan 01 River: Farmers Branch C Reach: Greenhill Profile: 100 YR

Rivers = 1
Hydraulic Reaches = 1
River Stations = 15
Plans = 1
Profiles = 1

Reach	River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)
Greenhill	826.00	1950.00	577.73	582.09	581.98	583.61	0.011456	9.92	196.57	59.63
Greenhill	729.00	1950.00	575.98	580.81	580.81	582.44	0.012504	10.24	190.37	58.85
Greenhill	679.00	1950.00	574.57	580.35		581.76	0.009517	9.52	204.84	57.17
Greenhill	629.00	1950.00	573.84	580.06		581.28	0.007743	8.88	219.67	58.25
Greenhill	579.00	1950.00	573.46	579.96		580.88	0.005146	7.59	253.62	61.42
Greenhill	554.00	1950.00	573.35	580.23		580.65	0.002090	5.22	373.31	83.01
Greenhill	479.00	1950.00	572.69	580.14		580.45	0.001317	4.44	438.88	87.80
Greenhill	454.00	1950.00	572.63	579.72		580.36	0.003248	6.43	303.31	67.60
Greenhill	370.00	1950.00	572.64	579.29		580.03	0.004686	7.03	302.83	128.44
Greenhill	268.00	1950.00	571.19	579.53		579.70	0.000761	3.73	700.24	286.97
Greenhill	243.00	1950.00	571.58	579.50		579.68	0.000868	3.76	672.31	265.41
Greenhill	202.00	1950.00	571.76	579.21	576.83	579.61	0.001609	5.18	401.85	274.93
Greenhill	177.00	1950.00	571.10	579.16	574.88	579.57	0.000925	5.19	375.87	313.99
Greenhill	88.50	1950.00								
Greenhill	0.00	1950.00	569.75	576.00	573.57	576.71	0.002210	6.77	287.94	53.50

CULVERT OUTPUT TABLE 88.5

: Plan 01 Farmers Branch C Greenhill RS: 88.5 Profile: 100 YR Culvert ID: Culvert #1 Culv Q (cfs)	1950.00	Culv Ful Lngh (ft	176.00
# Barrels	4	Culv Vel US (ft/s)	10.83
Q Barrel (cfs)	487.5	Culv Vel DS (ft/s)	10.83
E.G. US. (ft)	579.57	Culv Inv El Up (ft)	571.1
W.S. US. (ft)	579.16	Culv Inv El Dn (ft)	569.75
E.G. DS (ft)	576.71	Culv Frctn Ls (ft)	0.84
W.S. DS (ft)	576	Culv Ext Lss (ft)	1.11
Delta EG (ft)	2.86	Culv Ent Lss (ft)	0.91
Delta WS (ft)	3.16	Q Weir (cfs)	
E.G. IC (ft)	579.45	Weir Sta Lft (ft)	
E.G. OC (ft)	579.57	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	576.1	Weir Max Depth (ft)	
Culv WS Outlet (ft)	574.75	Weir Avg Depth (ft)	
Culv Nml Depth (ft)		Wr Flw Area (sq ft)	
Culv Crt Depth (ft)	4.5	Min El Weir Flow (ft)	580.01

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

FLOODPLAIN STUDY DETAILS

EXISTING CONDITIONS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003				C3.3

PK FILE: 1082-03.024

DWG FILE: 1082-03.024XS.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

DIVEY
04/29/2004 - 5:22PM
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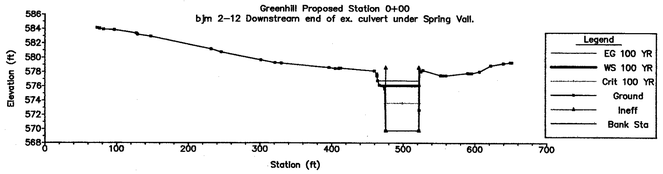

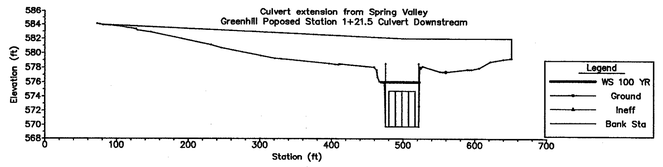

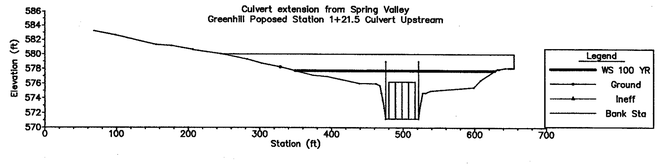

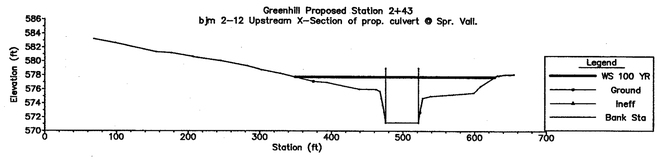

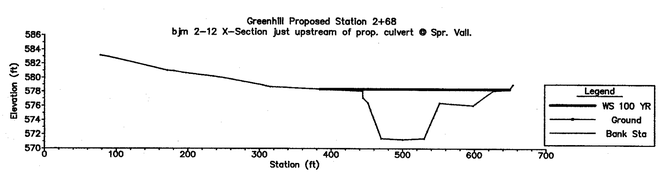

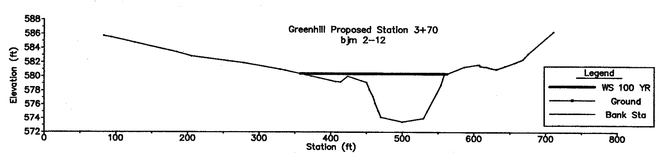

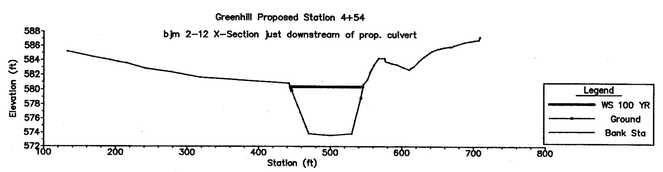

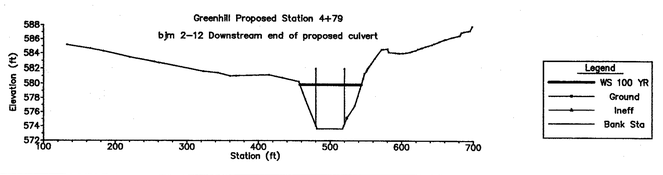

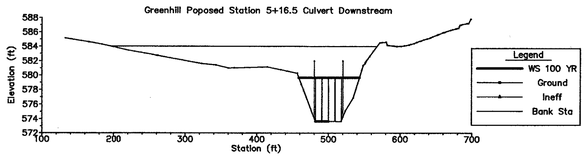

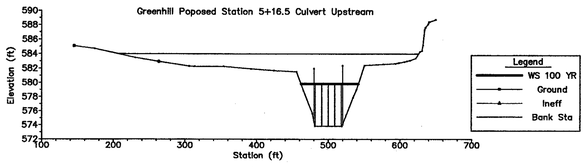

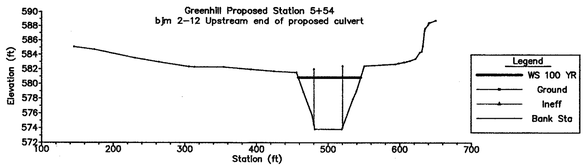

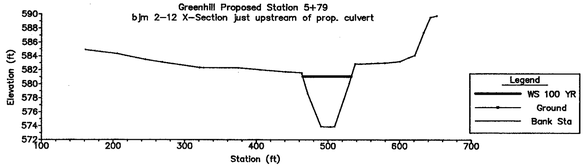

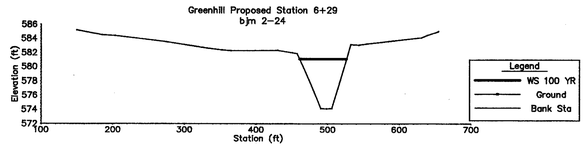

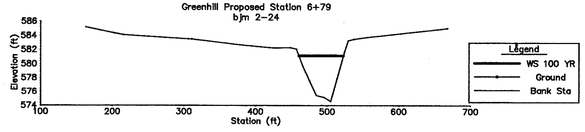

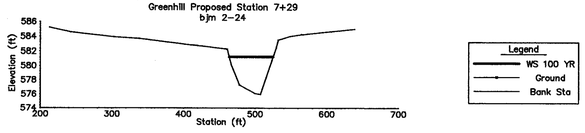

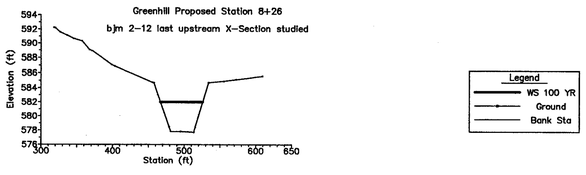

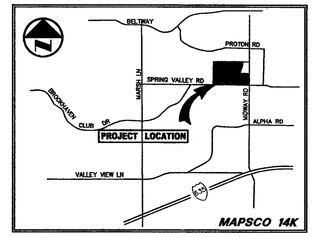

VICINITY MAP

PROPOSED PROFILE OUTPUT TABLE

Profile Output Table - Standard Table 1									
HEC-RAS Plan: Plan 01 River: Farmers Branch C Reach: Greenhill Profile: 100 YR									
# Rivers = 1									
# Hydraulic Reaches = 1									
# River Stations = 14									
# Plans = 1									
# Profiles = 1									
Reach		River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)
Greenhill		826	1950.00	577.72	582.00	581.99	583.61	0.012372	10.19	191.35
Greenhill		729	1950.00	575.98	581.25		582.51	0.008624	9.00	216.61
Greenhill		679	1950.00	574.57	581.15		582.08	0.00534	7.73	252.34
Greenhill		629	1950.00	574.07	581.08		581.83	0.002941	6.94	281.12
Greenhill		579	1950.00	573.86	581.08		581.66	0.002003	6.10	319.78
Greenhill		554	1950.00	573.81	580.85	578.01	581.6	0.001468	6.94	281.02
Greenhill		516.4	culvert							
Greenhill		479	1950.00	573.66	579.87	577.87	580.83	0.002248	7.89	247.15
Greenhill		454	1950.00	573.61	580.38		580.68	0.000601	3.63	537.31
Greenhill		370	1950.00	573.44	580.35		580.53	0.000494	3.37	631.1
Greenhill		268	1950.00	573.25	580.34		580.47	0.000359	2.97	755.17
Greenhill		243	1950.00	573.2	579.74	577.02	580.4	0.001407	6.50	300.02
Greenhill		121.5	culvert							
Greenhill		0	1950.00	569.75	576.00	573.57	576.71	0.00221	6.77	287.94

CULVERT OUTPUT TABLE 121.5

Plan 01 Farmers Branch C Greenhill RS: 121.5 Profile: 100 YR Culvert ID: Culvert #1 Culv Q (cfs)	1950	Culv Ful Lngh (ft)	131.79
# Barrels	4	Culv Vel US (ft/s)	10.83
Q Barrel (cfs)	487.5	Culv Vel DS (ft/s)	10.83
E.G. US. (ft)	580.4	Culv Inv El Up (ft)	573.2
W.S. US. (ft)	579.74	Culv Inv El Dn (ft)	569.75
E.G. DS (ft)	576.71	Culv Frctn Ls (ft)	2.21
W.S. DS (ft)	576	Culv Ext Lss (ft)	1.11
Delta EG (ft)	3.69	Culv Ent Lss (ft)	0.36
Delta WS (ft)	3.74	Q Weir (cfs)	
E.G. IC (ft)	581.55	Weir Sta Lft (ft)	
E.G. OC (ft)	580.4	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	578.2	Weir Max Depth (ft)	
Culv WS Outlet (ft)	574.75	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.77	Wr Flw Area (sq ft)	
Culv Crt Depth (ft)	4.5	Min El Weir Flow (ft)	582.01

CULVERT OUTPUT TABLE 516.5

Plan 01 Farmers Branch C Greenhill RS: 516.5 Profile: 100 YR Culvert ID: Culvert #1 Culv Q (cfs)	1950	Culv Ful Lngh (ft)	74
# Barrels	4	Culv Vel US (ft/s)	9.03
Q Barrel (cfs)	487.5	Culv Vel DS (ft/s)	9.03
E.G. US. (ft)	581.6	Culv Inv El Up (ft)	573.81
W.S. US. (ft)	580.85	Culv Inv El Dn (ft)	573.66
E.G. DS (ft)	580.83	Culv Frctn Ls (ft)	0.21
W.S. DS (ft)	579.87	Culv Ext Lss (ft)	0.3
Delta EG (ft)	0.76	Culv Ent Lss (ft)	0.25
Delta WS (ft)	0.98	Q Weir (cfs)	
E.G. IC (ft)	581.34	Weir Sta Lft (ft)	
E.G. OC (ft)	581.6	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	579.81	Weir Max Depth (ft)	
Culv WS Outlet (ft)	579.66	Weir Avg Depth (ft)	
Culv Nml Depth (ft)		Wr Flw Area (sq ft)	
Culv Crt Depth (ft)	4.5	Min El Weir Flow (ft)	584.01

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED
PROFESSIONAL ENGINEER
3/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

FLOODPLAIN STUDY DETAILS

PROPOSED CONDITIONS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003				C3.4

PK FILE: 1082-03.024

DWG FILE: 1082-03.024XS.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

DWG\1082-03.024XS.DWG
M:\DWG-10\1082-03-024\
04/7/2004 - 5:23PM
DWGT

LES LECS VILLAGE PHASE I
V. 83183, P. 4319

PROTON PLAZA
V. 81001, P. 2042

GREENHILL SCHOOL ADDITION
(VOL. 98032, PG. 00003)

LOT 1
GREENHILL PARK
(VOL. 98051, PG. 61)

MATCH LINE

4-LEVEL PARKING STRUCTURE

THEATRE
TWO STORY BRICK
FF = 605.80

UPPER SCHOOL
ONE STORY BRICK
FF = 592.26

MIDDLE SCHOOL
CLASSROOMS
ONE STORY BRICK
FF = 596.84

LIBRARY
FIN. FLOOR ELEV.
EAST END 590.83
WEST END 594.78
TWO-STORY BRICK BUILDING

PROPOSED BUILDING
F.F.=600.50

PROPOSED BUILDING
F.F.=590.00

PROPOSED BUILDING
F.F.=590.00

PROPOSED BUILDING
F.F.=591.00

N 89°42'31" E 2391.65

N 89°55'2 64.48

S 00°14'00" E 129.53

S 44°46'00" W 116.21

S 00°14'00" E 198.79

S 00°14'00" E 318.79

S 44°46'00" W

STA 2+44.75 LINE "ST-9"
INSTALL:
1-8"x 8" 60° WYE CONNECTION
25 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=594.11
SAWCUT

STA 3+44.32 LINE "ST-9"
INSTALL:
1-8"x 8" 45° WYE CONNECTION
1-8" 45° HORIZ. BEND
23 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=596.10

STA 3+89.56 LINE "ST-9"
INSTALL:
1-8" 60° BEND
16 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ BEND=597.00

STA 2+37.53 LINE "ST-10"
INSTALL:
1-8" 60° HORIZ. BEND
9 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ BEND=597.70

STA 1+72.50 LINE "ST-10"
INSTALL:
1-8"x 8" 45° WYE CONNECTION
1-8" 45° HORIZ. BEND
28 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=595.56

STA 1+04.52 LINE "ST-10"
INSTALL:
1-8"x 8" 60° WYE CONNECTION
30 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=593.32

STA 0+48.32 LINE "ST-10"
INSTALL:
1-8"x 8" 60° WYE CONNECTION
19 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=591.47

STA 2+00.35 LINE "ST-9"
INSTALL:
1-8"x 8" 60° WYE CONNECTION
16 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8" @ BLDG=598.00
FL 8" @ WYE=593.22

STA 1+91.84 LINE "ST-9"
INSTALL:
1-8" 45° HORIZ. BEND
FL 8"=593.05

STA 1+42.24 LINE "ST-9"
INSTALL:
1-8" 45° HORIZ. BEND
FL 8"=592.06

STA 0+52.31 LINE "ST-9"
GRADE BREAK
FL 8"=590.26

STA 0+48.31 LINE "ST-9"=
STA 0+00 LINE "ST-7"
INSTALL:
1-8"x 8" 45° WYE CONNECTION
1-8" 45° HORIZ. BEND
FL 8"=589.88

STA 0+00 LINE "ST-9"
BEGIN 8" PIPE
CONNECT TO EXISTING 24" PIPE
FL EX. 24"=584.66±
FL 8"=585.33

PROP. 8" STORM PIPE @ 2.0%

PROP. 8" STORM PIPE @ 3.3%

PROP. 8" STORM PIPE @ 5.4%

PROP. 18" STORM PIPE @ 2.0%

PROP. 12" PIPE @ 2.5%

PROP. 12" PIPE @ 2.0%

PROP. 18" STORM PIPE @ 10.0%

PROP. 12" STORM PIPE @ 2.5%

STA 0+85.48 LINE "ST-4"
INSTALL:
1-12" 60° HORIZ. BEND
FL 12"=586.43

STA 4+50.82 LINE "ST-3"
=STE 0+00 LINE "ST-4"
INSTALL:
1-12"x12" 60° WYE CONN.
FL 12"=584.38

STA 0+88.13 LINE "ST-4"
INSTALL:
1-12"x8" 45° WYE CONN.
1-12" 45° BEND
40 LF 8" PIPE
FL 12" @ WYE=586.50
FL 8" @ BLDG.=588.50

STA 0+92.13 LINE "ST-4"
END 12" PIPE
BEGIN 8" PIPE
FL 12"=586.59
FL 8"=586.92

STA 1+03.21 LINE "ST-4"
INSTALL:
1-8"x8" 45° WYE CONN.
1-8" 45° BEND
49 LF 8" PIPE
FL 8" @ WYE=587.19
FL 8" @ BLDG.=588.50

STA 1+24.42 LINE "ST-4"
INSTALL:
1-8"x8" 60° WYE CONN.
9 LF 8" PIPE
FL 8" @ WYE=587.70
FL 8" @ BLDG.=588.50

STA 1+57.81 LINE "ST-4"
END 8" PIPE @ A POINT
5' FROM BLDG. FACE
FL 8"=588.50

STA 0+59.05 LINE "ST-6"
INSTALL:
1-12"x8" 60° WYE CONNECTION
42 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 12" @ WYE=583.78
FL 8 @ WYE=583.95
FL 8" @ BLDG.=585.50

STA 0+81.04 LINE "ST-6"
INSTALL:
1-12"x8" 60° WYE CONNECTION
27 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 12" @ WYE=583.57
FL 8 @ WYE=583.73
FL 8" @ BLDG.=587.50

STA 1+22.41 LINE "ST-6"
INSTALL:
1-12"x8" 60° WYE CONNECTION
11 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 12" @ WYE=584.43
FL 8 @ WYE=584.60
FL 8" @ BLDG.=587.50

STA 1+26.41 LINE "ST-6"
END 12" PIPE
BEGIN 8" PIPE
FL 12"=584.52
FL 8"=584.85

STA 1+43.27 LINE "ST-6"
INSTALL:
1-8"x 8" 60° WYE CONNECTION
2 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8 @ WYE=485.19
FL 8" @ BLDG.=585.50

STA 1+58.38 LINE "ST-6"
GRADE BREAK
INSTALL:
1-8" 45° HORIZ. BEND
FL 8"=585.50

STA 2+52.43 LINE "ST-5"
=STA 0+00 LINE "ST-7"
INSTALL:
1-18"x12" 45° WYE CONNECTION
1-12" 45° BEND
FL 18"=583.98
FL 12"=584.23

STA 1+38.44 LINE "ST-5"
=STA 0+00 LINE "ST-6"
INSTALL:
1-18"x12" 45° WYE CONNECTION
1-45° BEND
FL 18"=581.70
FL 12"=581.95

STA 0+57.67 LINE "ST-7"
INSTALL:
1-12"x8" 45° WYE CONNECTION
1-8" 45° BEND
87 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 12" @ WYE=585.92
FL 12" @ BLDG.=588.50
FL 8" @ WYE=585.67

STA 0+61.67 LINE "ST-7"
END 12" PIPE
BEGIN 8" PIPE
FL 12"=585.77
FL 8"=586.10

STA 0+81.28 LINE "ST-7"
INSTALL:
1-8"x8" 45° WYE CONNECTION
43 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8 @ WYE=586.59
FL 8" @ BLDG.=587.50

STA 0+90.08 LINE "ST-7"
INSTALL:
1-8"x8" 45° WYE CONNECTION
12 LF 8" PIPE
END 8" PIPE @ A POINT 5' FROM BLDG. FACE
FL 8 @ WYE=586.81
FL 8" @ BLDG.=587.50

STA 0+98.06 LINE "ST-7"
INSTALL:
1-8" 45° BEND
FL 8"=587.00

STA 1+17.28 LINE "ST-7"
END 8" PIPE @ A POINT
5' FROM BLDG. FACE
FL 8"=587.50

STA 1+72.17 LINE "ST-6"
END 8" PIPE @ A POINT
5' FROM BLDG. FACE
FL 8"=587.50

REFER TO SHT. C3.6
1"=50'

REFER TO SHT. C3.6
1"=50'

TOP OF BANK ALONG FENCE

RETAINING WALL

BRICK SIGN

HEADWALL CONC. APRON

7' METAL FENCE

12'x4' ROOF CULVERT

6' WATER LINE

12" WATER LINE

8" SANITARY SEWER

8" SAN. SEWER

8" STORM DRAIN

21" STORM DRAIN

24" STORM DRAIN

15" STORM DRAIN

6" FIRE LINE

2" WATER SERVICE

8" WATER LINE

6" ROOF DRAIN

UNDERGROUND ELECTRICAL LINE

GAS LINE

CHILLED WATER LINES

COVERED CONC. WALK

CONC. WALK

ASPH. DRIVE

ASPH. PARKING

CONC. DRIVE

BRICK WALL

CHAIN LINK FENCE

WOOD FENCE

BUILDING OVERHANG

CANOPY

BIKE RACK

BENCH

SIGN

LS

FH

WM

WV

ICV

MH

TSC

TSP

TELE

FP

SIGN

BOLLARD

ELECTRIC METER

POWER POLE

LIGHT STANDARD

WATER METER

WATER VALVE

IRRIGATION CONTROL VALVE

FIRE HYDRANT

CLEANOUT

MANHOLE

TRAFFIC SIGNAL CONTROL

TRAFFIC SIGNAL POLE

TELEPHONE BOX

FLOOD LIGHT

FLAG POLE

TRAFFIC SIGN

0 25 50 100 150

GRAPHIC SCALE IN FEET

BELTWAY
PROTON RD
SPRING VALLEY RD
ALPHA RD
VALLEY VIEW LN
PROJECT LOCATION
MAPSCO 14K

VICINITY MAP

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/ "PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-x-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED DRAINAGE DIVIDE

REFER TO SHT. C3.6 FOR GRADING & DRAINAGE NOTES

BENCH MARKS

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 #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school.
Elev. 587.78

OUTSIDE DIAMETER OF PIPE PLUS 16" MIN. TRENCH WIDTH 24"

FINAL BACKFILL – NATURAL GROUND OR ROCK

BACKFILL – COMPACTED TO A MIN. OF 95% PROCTOR DENSITY

INITIAL BACKFILL – GRANULAR MATERIAL COMPACTED TO A MIN. OF 90% PROCTOR DENISTY

GEOTEXTILE FABRIC

COMPACTED CRUSHED STONE, STD. GRADATION

12" MIN.

1/2 O.D.

3" MIN IN ROCK

O.D.

1 EMBEDMENT FOR STORM SEWER PIPE

NOT TO SCALE

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
3/31/04

NO.	DATE	REVISION
1	04/30/2004	REVISED APPURTENANCES, STATION, & ADDED DETAIL

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAINAGE PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.5

GREENHILL SCHOOL

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

D/VEY
04/30/2004 - 1:28PM
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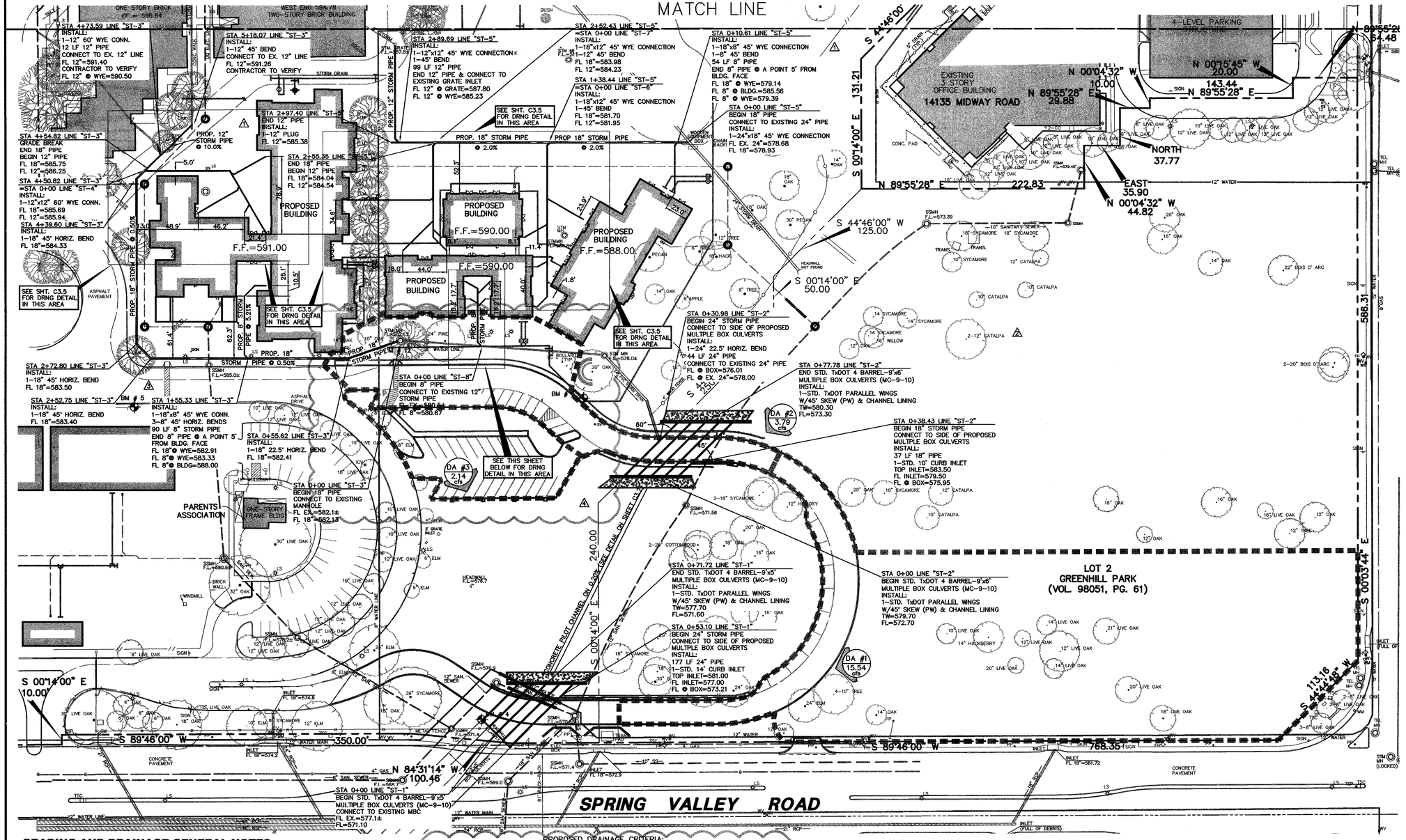

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III
   B. ADS N-12
   C. HANCOR HI-Q

   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OF APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
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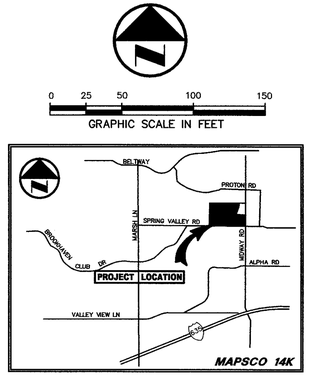
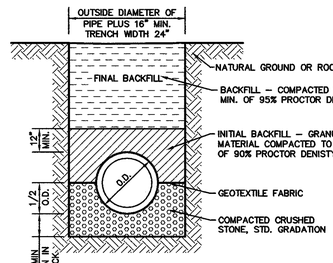
12. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "A" UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.



VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED DRAINAGE DIVIDE



EMBEDMENT FOR STORM SEWER PIPE

1 NOT TO SCALE

ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE **NOT** BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
4		ADDED PARKING LOT REVISED DRAINAGE AREAS
3	10/25/2004	ADDED 8" STORM PIPE
2	06/10/2004	REVISED CULVERT
1	04/30/2004	REVISED APPURTENANCES & ADDED DETAIL

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAINAGE PLAN

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

PRELIMINARY
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

PLANS PREPARED UNDER THE DIRECT SUPERVISION OF STEVEN A. MARKUSSEN, P.E. TEXAS REGISTRATION NO. 70090
DATE: 02/27/2004

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.6

PK FILE: 1082-03.024 DWG FILE: 1082-03.024CV.DWG

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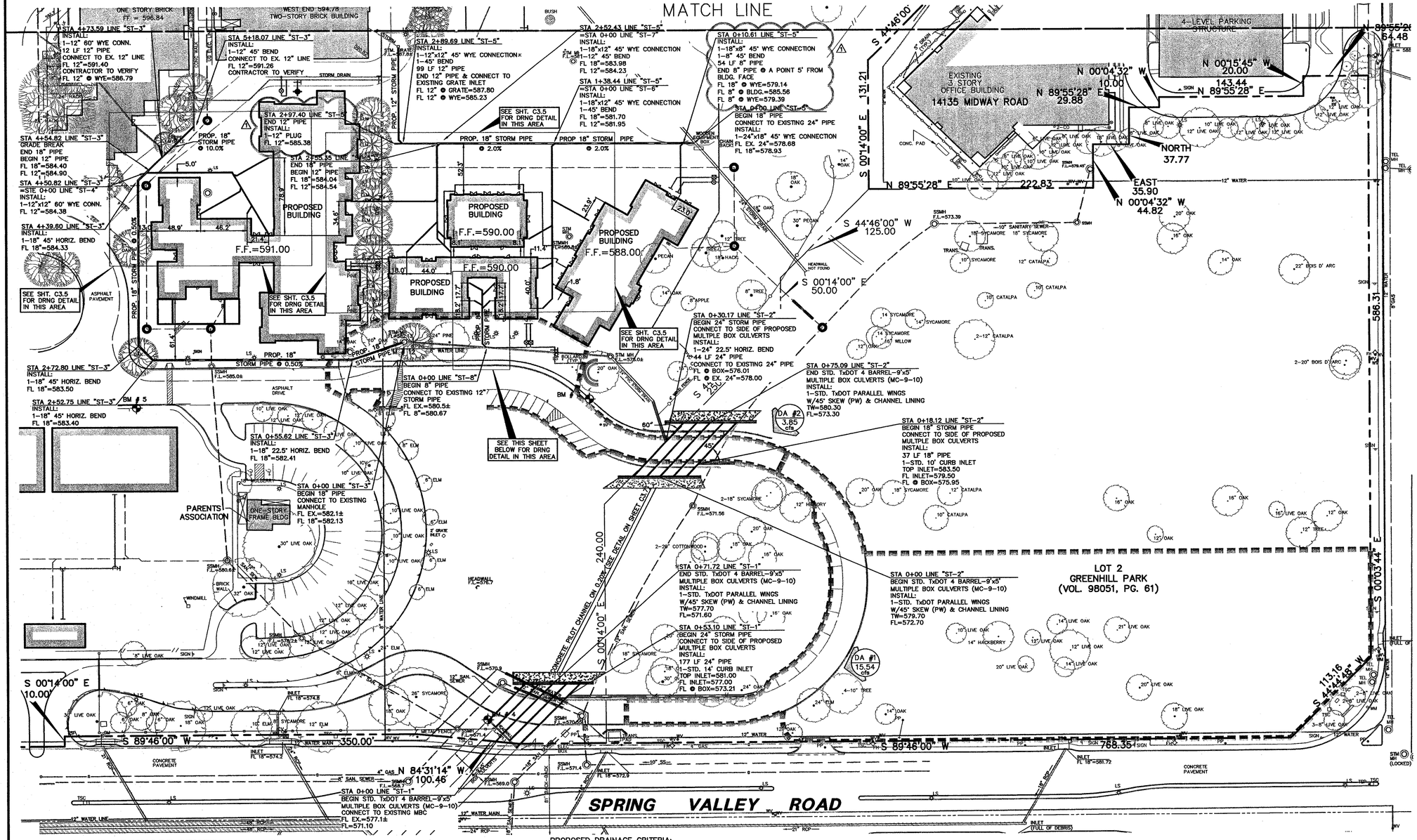

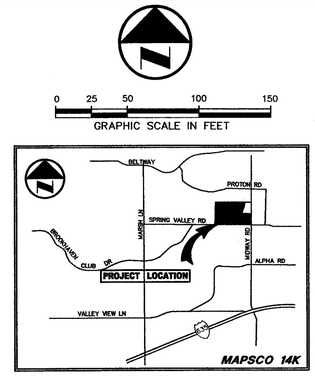

VICINITY MAP

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
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TSP	TRAFFIC SIGNAL POLE
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JBC	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-x-	FENCE
-OHE-	OVERHEAD UTILITY LINE
-6"W-	UNDERGROUND WATER LINE
-E-	UNDERGROUND ELECTRIC LINE
-T-	UNDERGROUND TELEPHONE LINE
-C-	UNDERGROUND CABLE LINE
-6"SS-	UNDERGROUND SANITARY SEWER LINE
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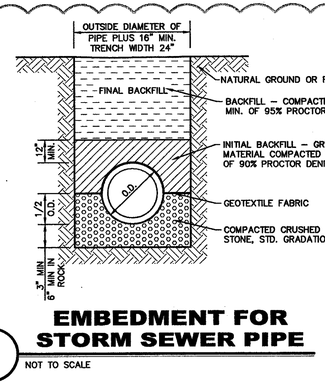

EMBEDMENT FOR STORM SEWER PIPE

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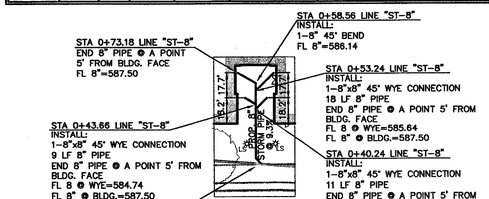
PROPOSED DRAINAGE CRITERIA:

Q=(C)(I)(A)

C=0.70

DRAINAGE AREA TABLE

DRAINAGE AREA No.	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I100 (inch/hour)	Q100 (cfs)	COMMENTS
DA #1	2.54	0.70	10	100 YEAR	8.74	15.54	DRAINS TO PROP. CURB INLET
DA #2	0.63	0.70	10	100 YEAR	8.74	3.85	DRAINS TO PROP. CURB INLET



BENCH MARKS

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 #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive along north side of campus. Elev. 602.80

BM #10: "□" cut on conc. step near northwest corner of upper school. Elev. 598.85

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BM #12: "□" cut at intersection of walk along west side of lower school and walk along south side Lower school. Elev. 587.78

STATE OF TEXAS STEVEN A. MARKUSSEN 70090 REGISTERED PROFESSIONAL ENGINEER 3/31/04

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NO.	DATE	REVISION
1	04/30/2004	REVISED APPURTENANCES & ADDED DETAIL

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAINAGE PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C3.6

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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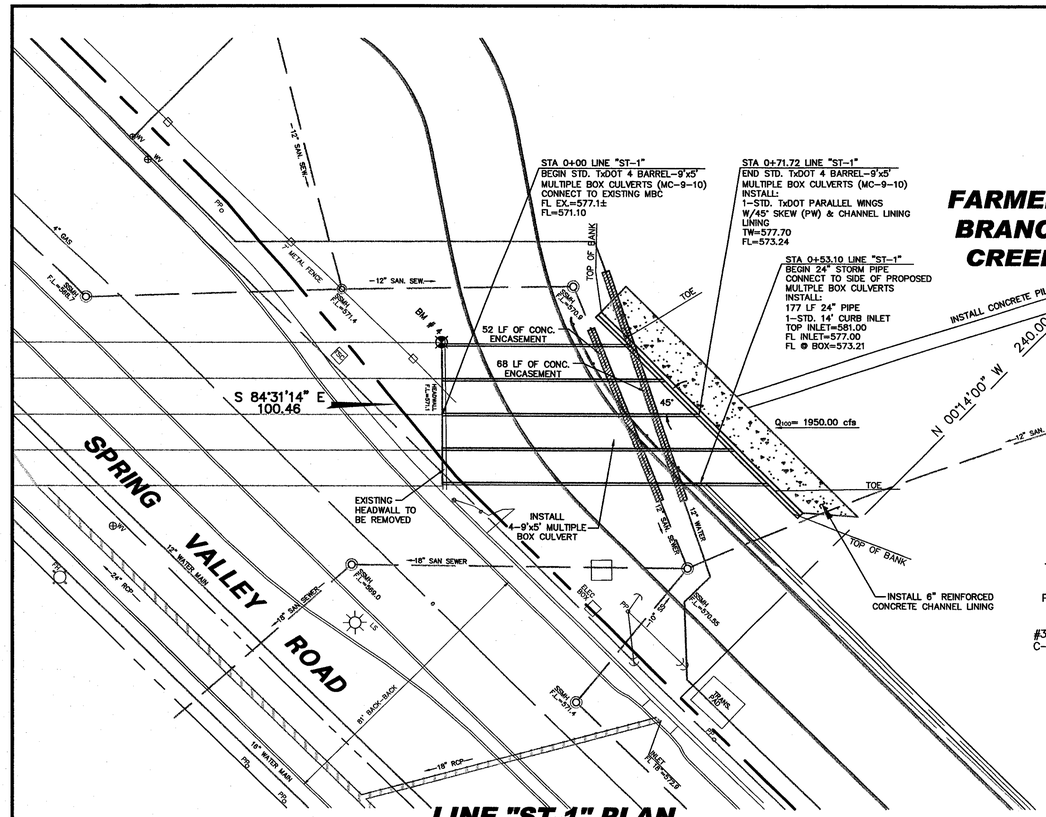
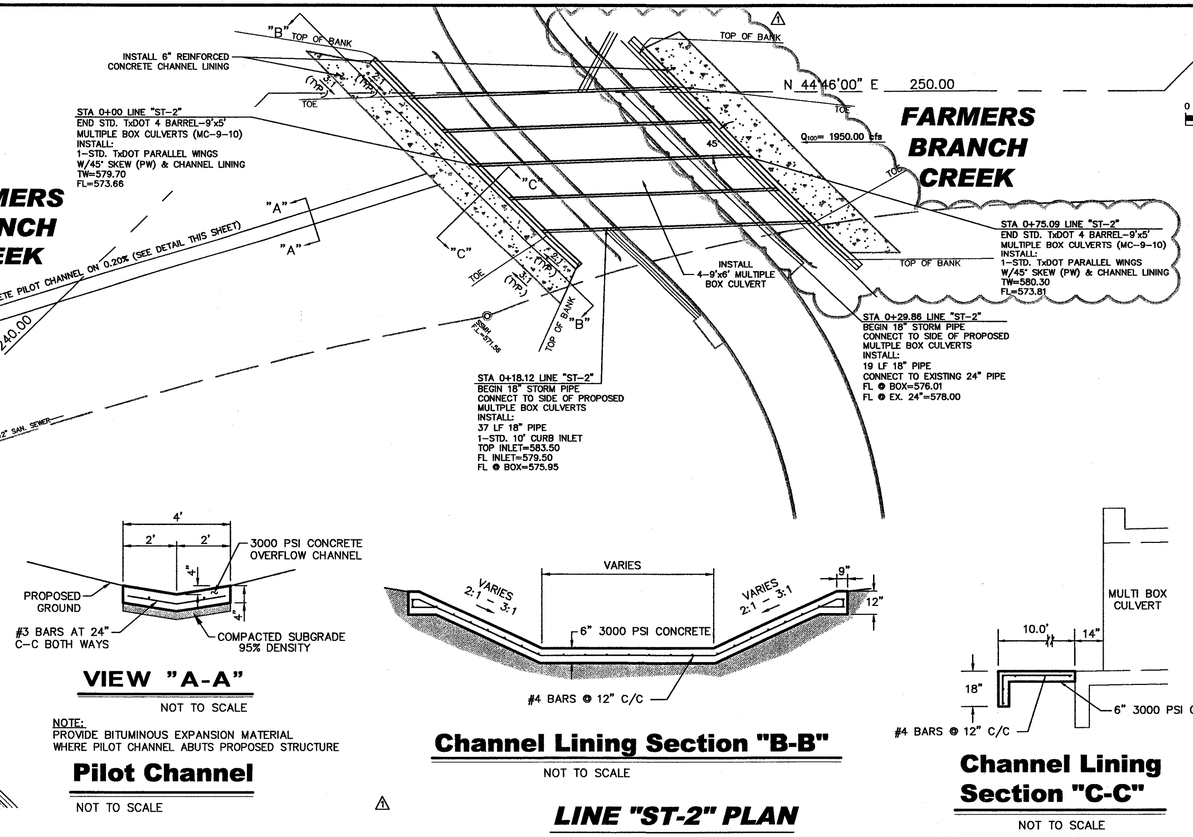




VIEW "A-A"

NOT TO SCALE

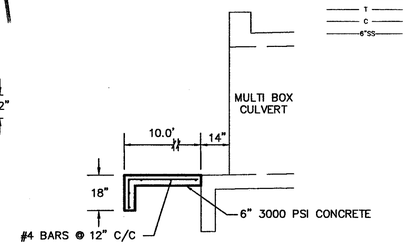
NOTE:
PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE PILOT CHANNEL ABUTS PROPOSED STRUCTURE

Pilot Channel

NOT TO SCALE

Channel Lining Section "B-B"

NOT TO SCALE



Channel Lining Section "C-C"

NOT TO SCALE

0 10 20 40 80
GRAPHIC SCALE IN FEET

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
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IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
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-T-	UNDERGROUND TELEPHONE LINE
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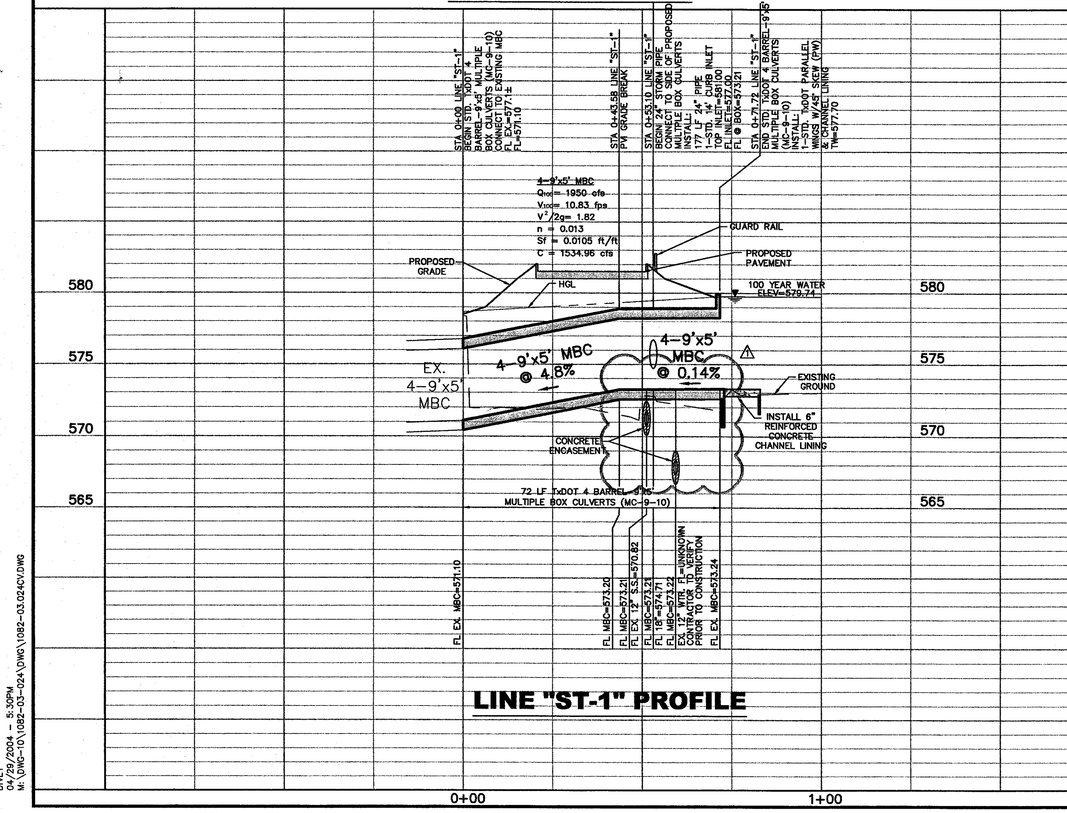

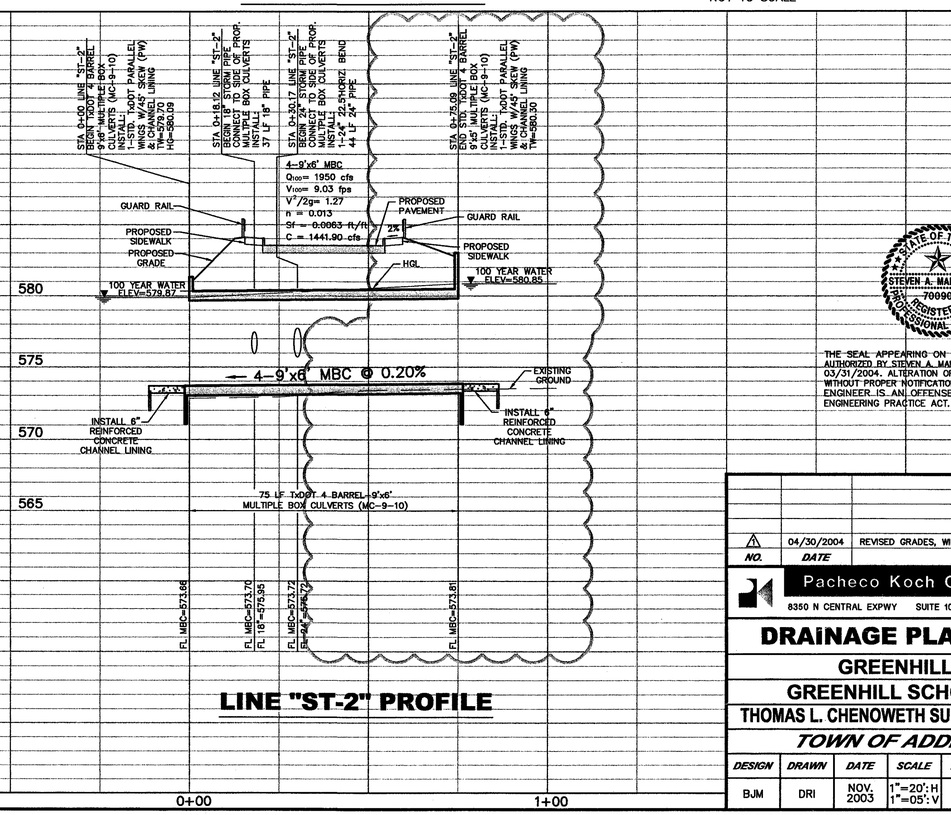

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
3/31/04

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NO.	DATE	REVISION
1	04/30/2004	REVISED GRADES, WINGWALL, AND ENCASEMENT

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAINAGE PLAN & PROFILE
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	NOV. 2003	1"=20': H 1"=05': V			C3.7

PK FILE: 2102-99.350
DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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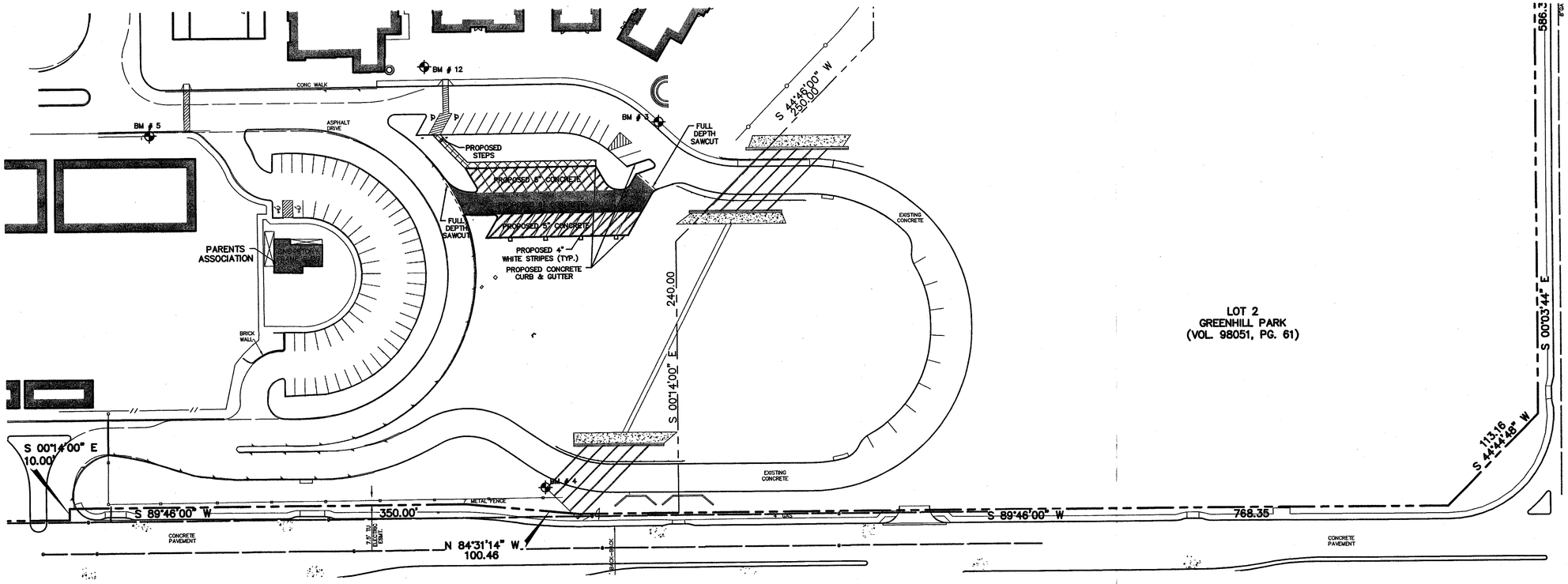

LOT 2
GREENHILL PARK
(VOL. 98051, PG. 61)

0 25 50 100 150
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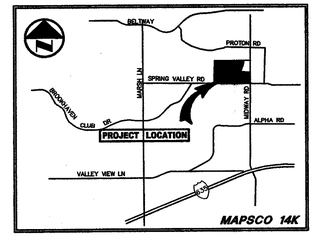
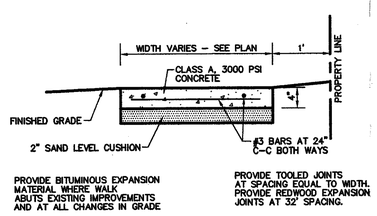


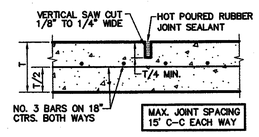
VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
OHE	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROPOSED 4" CLASS "A" CONCRETE SIDEWALK
	PROPOSED 5" CLASS"C" CONCRETE PAVEMENT LIGHT TRAFFIC AREAS
	PROPOSED 6" CLASS "C" CONCRETE PAVEMENT HEAVY TRAFFIC (FIRE LANES, SERVICE DRIVES)



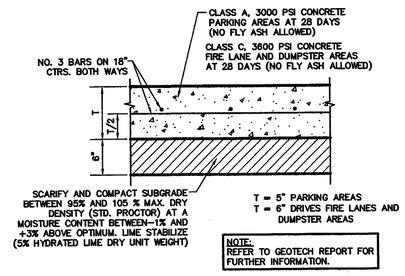
3 CONCRETE WALK
NOT TO SCALE



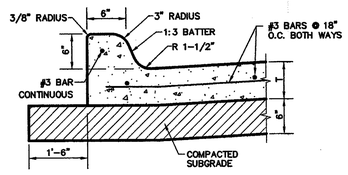
4 SAWED DUMMY JOINT
NOT TO SCALE

PAVING NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CLASS "A", (3000 PSI).
3. UNLESS NOTED, ALL FILL PLACED UNDER PAVING SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6 INCH LIFTS. REFER TO STRUCTURAL SPECIFICATION FOR FILL PLACED BENEATH BUILDING AREAS. ALL OTHER FILL AREAS TO BE COMPACTED TO 90% STANDARD PROCTOR.
4. THE CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER FOR APPROVAL. UNLESS NOTED, EXPANSION JOINT SPACING SHALL BE 90' MAXIMUM EACH WAY WITH NO KEYWAYS AND SAWED DUMMY JOINTS SHALL BE 15' EACH WAY.
5. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED AT THE END OF EACH DAY'S PAVING AND WHERE INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.
6. ALL PAVEMENTS TO BE REMOVED SHALL BE SAWCUT TO A NEAT LINE, MINIMUM 1–1/2" DEEP, AND THE PAVEMENT REMOVED IN SUCH A MANNER AS TO PRESERVE THE EXISTING TRANSVERSE REINFORCING STEEL TO THE MAXIMUM EXTENT POSSIBLE.
7. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT AND HAVE THE SAME COMPRESSIVE STRENGTH.
8. PAVEMENT REINFORCEMENT SHALL BE #3 BARS, SPACED AT 18" CENTER TO CENTER EACH WAY EXCEPT WHERE NOTED IN THE PLANS.
9. BAR LAPS SHALL BE 30 DIAMETERS IN LENGTH.
10. ALL STRIPES SHALL BE 4" WIDE, UNLESS OTHERWISE NOTED.
11. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE WITH LANDSCAPE ARCHITECTS AND MEP PLANS.
12. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.



1 CONCRETE PAVEMENT SECTION
NOT TO SCALE



2 INTEGRAL CURB
NOT TO SCALE

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STATE OF TEXAS · STEVEN A. MARKUSSEN · 70090 · REGISTERED PROFESSIONAL ENGINEER · 5/4/05

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

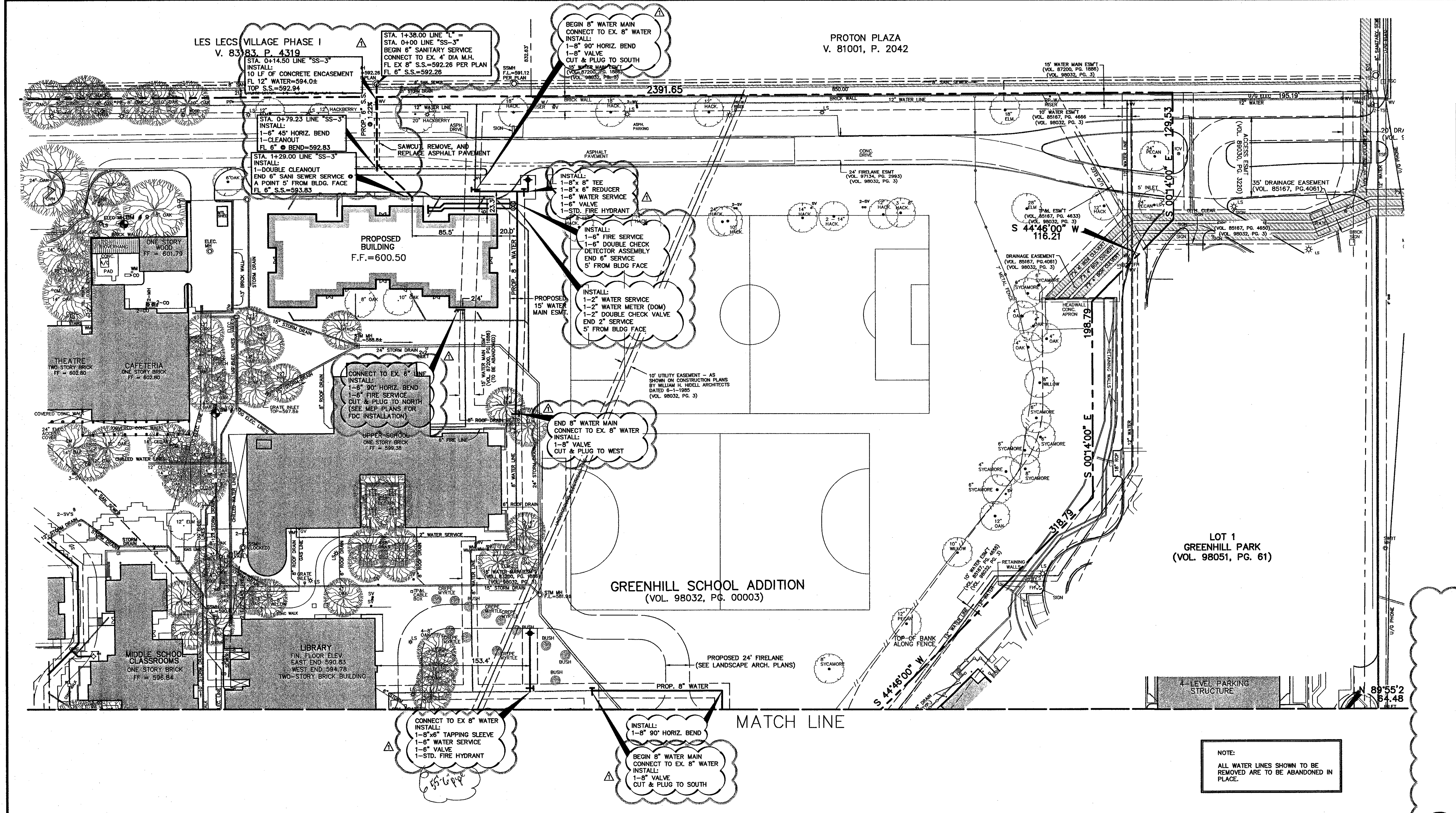
PAVING PLAN & DETAILS
PARKING LOT
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

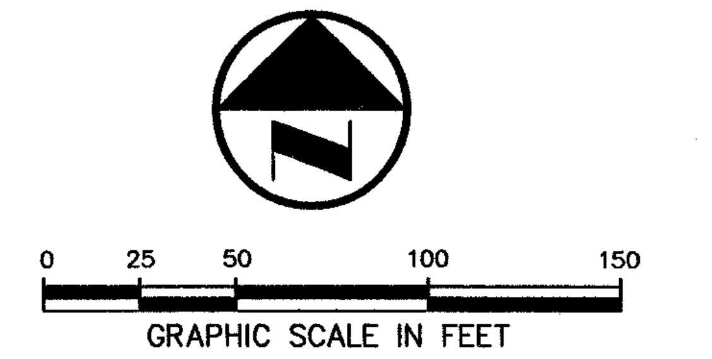
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	MAY 2005	1"=50'			C4.0

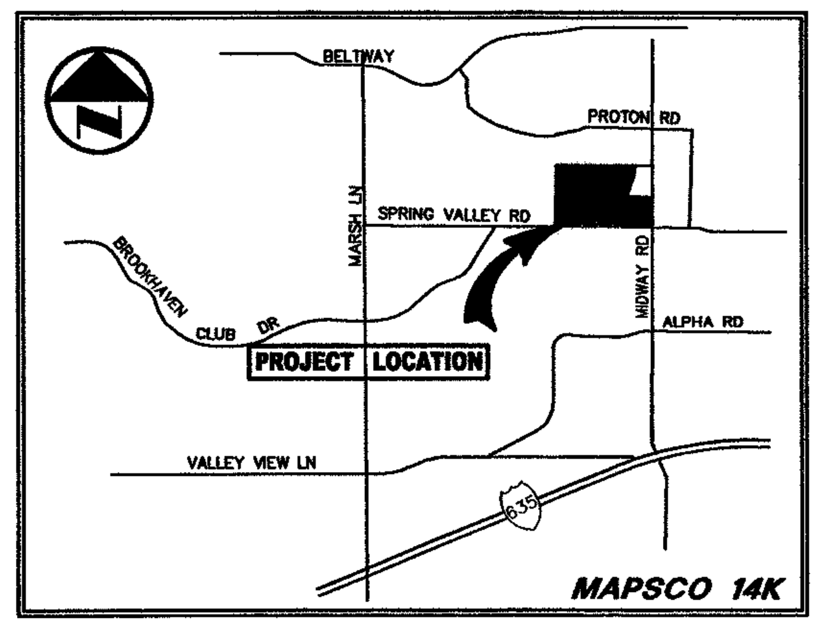
PK FILE: 1082–03.024 DWG FILE: 1082–03.024CV2.DWG

GREENHILL SCHOOL

DWG: M:\DWG-TO\1082-03-024\DWG\1082-03.024CV2.DWG
DATE: 5/4/2005 – 10:30AM
DIVEY



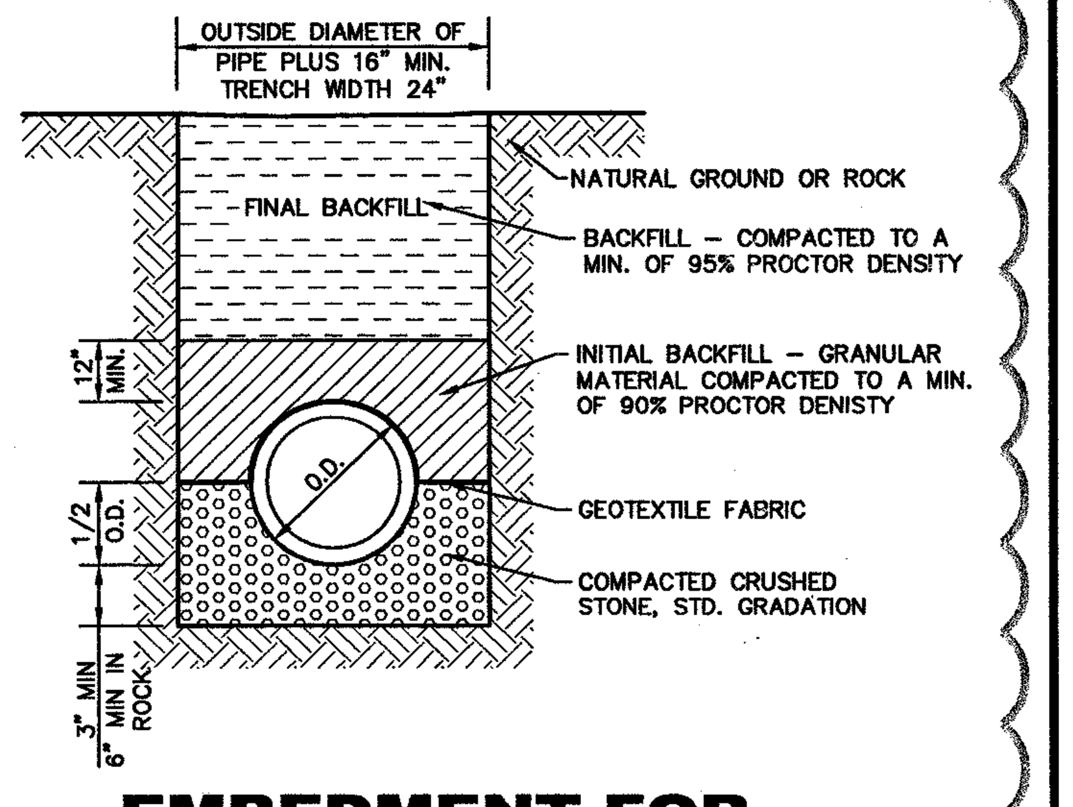




VICINITY MAP

LEGEND

B•	BOLLARD
EM⊕	ELECTRIC METER
PP●	POWER POLE
LS☼	LIGHT STANDARD
WM○	WATER METER
WV⊗	WATER VALVE
ICV⊗	IRRIGATION CONTROL VALVE
FH◇	FIRE HYDRANT
CO○	CLEANOUT
MH◎	MANHOLE
TSC☐	TRAFFIC SIGNAL CONTROL
TSP●	TRAFFIC SIGNAL POLE
TELE☐	TELEPHONE BOX
☼	FLOOD LIGHT
FP●	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
— — — —	PROPERTY LINE
——X——	FENCE
——OHL——	OVERHEAD UTILITY LINE
——6"W——	UNDERGROUND WATER LINE
——E——	UNDERGROUND ELECTRIC LINE
——T——	UNDERGROUND TELEPHONE LINE
——C——	UNDERGROUND CABLE LINE
——6"SS——	UNDERGROUND SANITARY SEWER LINE



1 EMBEDMENT FOR WATER & SEWER PIPE

NOT TO SCALE

NOTE:

ALL WATER LINES SHOWN TO BE REMOVED ARE TO BE ABANDONED IN PLACE.

WATER AND SANITARY SEWER GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CLASS "A", (3000 PSI).
2. ⚠1 ALL WATER MAINS SHALL BE PVC C909, DR 14, CLASS 150.
3. WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
4. ALL WATER MAINS UNLESS OTHERWISE NOTED SHALL HAVE A MINIMUM COVER OF 48" BELOW FINISHED GRADE.
5. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
6. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:
   - (A) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
   - (B) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   - (C) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   - (D) WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
   - (E) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS (A) OR (D) OF THIS PARAGRAPH.
   - (F) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY TWO FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS (C) OR (D).
7. CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AN SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB OF ALLEY IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
9. ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
10. THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO (2') FEET BACK OF THE CURB LINE AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE CURB, WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS".
11. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
12. UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL MEETING NCTCOG ITEM 6.2.10 AND MECHANICALLY COMPACTED IN 8" LIFTS TO THE TOP OF THE SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
13. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED, THE CONTRACTOR (UTILITY) SHALL POUR A CONCRETE BLOCK 24"X24"X6" AROUND ALL VALVE BOXES TOPS SO THE FINISHED GRADE IS LEVEL WITH THE FINISHED GRADE.
14. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

BENCH MARKS

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 #9:	"☐" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school.	Elev. 587.78

STEVEN A. MARKUSSEN
70090

Steven A. Markussen 3/31/04

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NO.	DATE	REVISION
⚠1	04/30/2004	REVISED "SS-3", NOTE, APPURTENANCES, & ADDED DETAIL

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

WATER & SANITARY SEWER PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

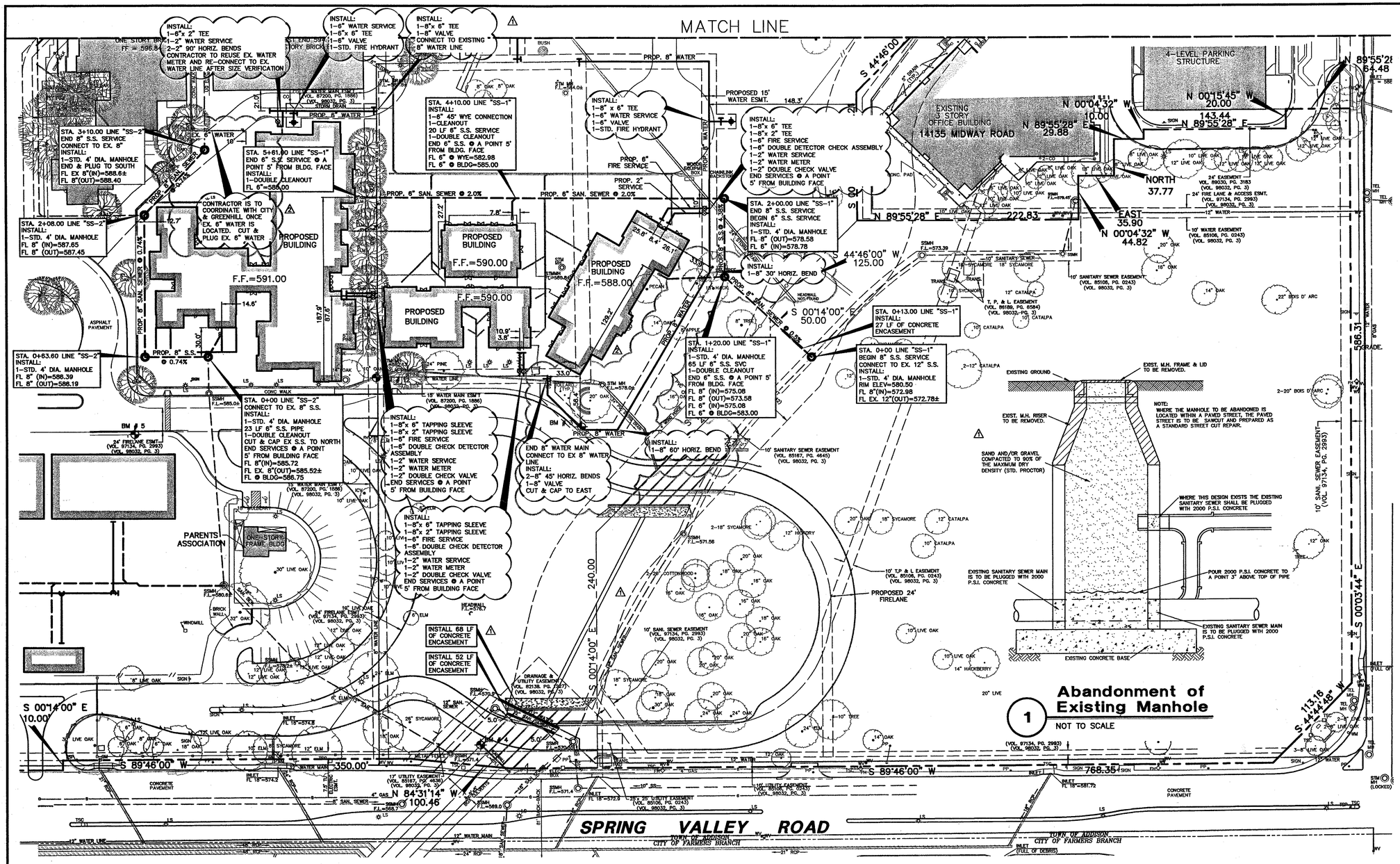
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C4.0

GREENHILL SCHOOL

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

DIVEY
04/30/2004 1:47PM
M:\DWG-10\1082-03-024\DWG\1082-03.024CV.DWG



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BENCH MARKS

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

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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 of lower school and walk along south side Lower school. Elev. 587.78

CONSTRUCTION SET
ISSUED BY
TOWN OF ADDISON
PUBLIC WORKS DEPARTMENT
NAME: Glen Hatcher DATE: 6/25/04

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
03/31/04

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NO.	DATE	REVISION
2	06/10/2004	RELOCATED WATER LINE & EASEMENT
1	04/30/2004	REVISED NOTE, DETAIL, ADDED/CHANGED APPURTENANCES

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

WATER & SANITARY SEWER PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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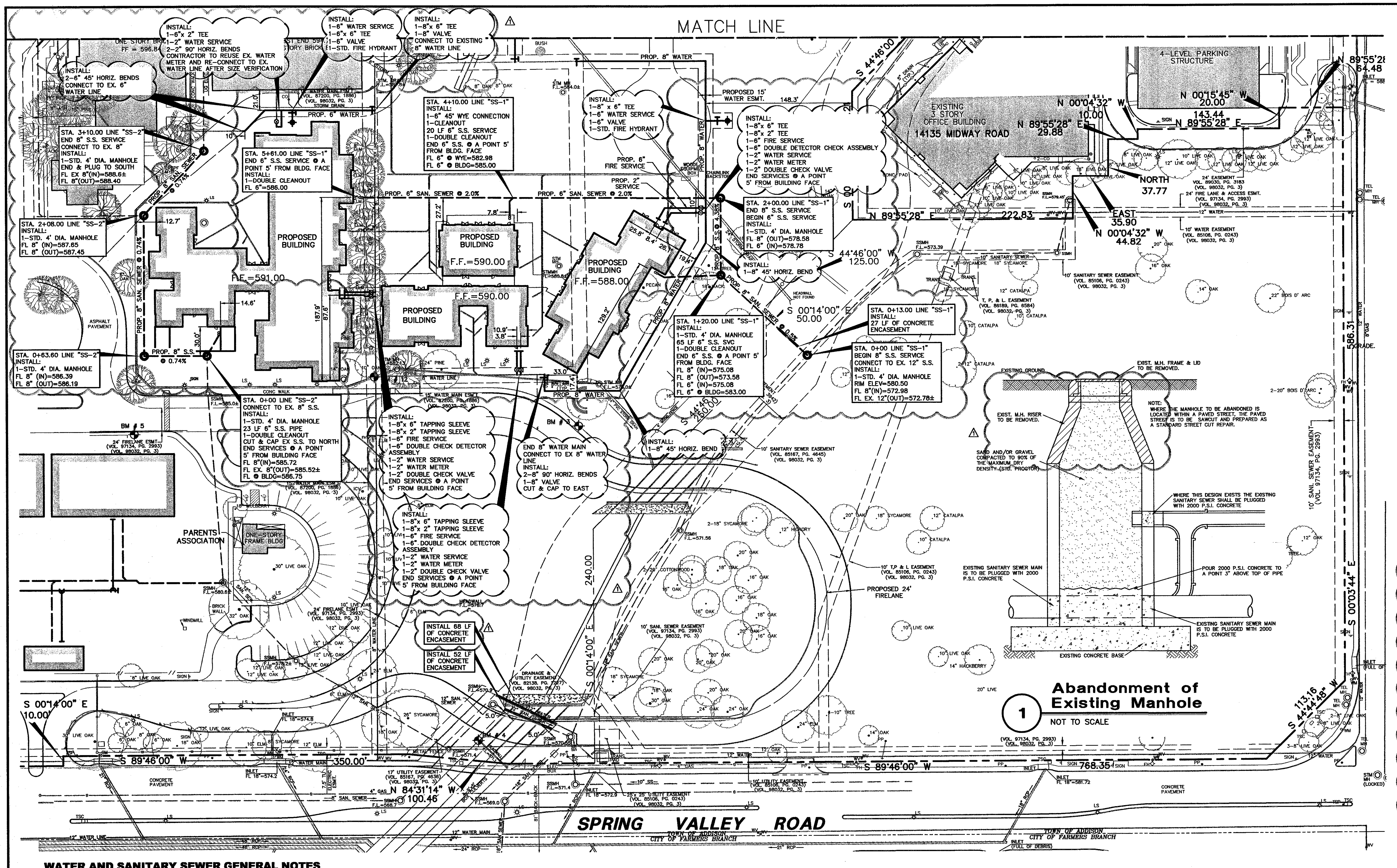
PK FILE: 1082-03.024
DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG
GREENHILL SCHOOL
DWG/XREF: 05/14/2004 - 1:36PM
M:\DWG-10\1082-03-024\DWG\1082-03.024CV.DWG



INSTALL:
1–6"x 2" TEE
1–2" WATER SERVICE
2–2" 90° HORIZ. BENDS
CONTRACTOR TO REUSE EX. WATER METER AND RE-CONNECT TO EX. WATER LINE AFTER SIZE VERIFICATION

INSTALL:
1–6" WATER SERVICE
1–6"x 6" TEE
1–6" VALVE
1–STD. FIRE HYDRANT

INSTALL:
1–8"x 6" TEE
1–8" VALVE
CONNECT TO EXISTING 8" WATER LINE

INSTALL:
2–6" 45° HORIZ. BENDS
CONNECT TO EX. 6" WATER LINE

STA. 3+10.00 LINE "SS–2"
END 8" S.S. SERVICE
CONNECT TO EX. 8"
INSTALL:
1–STD. 4' DIA. MANHOLE
END & PLUG TO SOUTH
FL EX 8"(IN)=588.6±
FL 8"(OUT)=588.40

STA. 5+61.00 LINE "SS–1"
END 6" S.S. SERVICE @ A POINT 5' FROM BLDG. FACE
INSTALL:
1–DOUBLE CLEANOUT
FL 6"=586.00

STA. 4+10.00 LINE "SS–1"
INSTALL:
1–6" 45° WYE CONNECTION
1–CLEANOUT
20 LF 6" S.S. SERVICE
1–DOUBLE CLEANOUT
END 6" S.S. @ A POINT 5' FROM BLDG. FACE
FL 6" @ WYE=582.98
FL 6" @ BLDG=585.00

INSTALL:
1–8" x 6" TEE
1–6" WATER SERVICE
1–6" VALVE
1–STD. FIRE HYDRANT

INSTALL:
1–8"x 6" TEE
1–8"x 2" TEE
1–6" FIRE SERVICE
1–6" DOUBLE DETECTOR CHECK ASSEMBLY
1–2" WATER SERVICE
1–2" WATER METER
1–2" DOUBLE CHECK VALVE
END SERVICES @ A POINT 5' FROM BUILDING FACE

STA. 2+08.00 LINE "SS–2"
INSTALL:
1–STD. 4' DIA. MANHOLE
FL 8" (IN)=587.65
FL 8" (OUT)=587.45

STA. 2+00.00 LINE "SS–1"
END 8" S.S. SERVICE
BEGIN 6" S.S. SERVICE
INSTALL:
1–STD. 4' DIA. MANHOLE
FL 8" (OUT)=578.58
FL 6" (IN)=578.78

INSTALL:
1–8" 45° HORIZ. BEND

STA. 1+20.00 LINE "SS–1"
INSTALL:
1–STD. 4' DIA. MANHOLE
65 LF 6" S.S. SVC
1–DOUBLE CLEANOUT
END 6" S.S. @ A POINT 5' FROM BLDG. FACE
FL 8" (IN)=575.08
FL 8" (OUT)=573.58
FL 6" (IN)=575.08
FL 6" @ BLDG=583.00

STA. 0+13.00 LINE "SS–1"
INSTALL:
27 LF OF CONCRETE ENCASEMENT

STA. 0+00 LINE "SS–1"
BEGIN 8" S.S. SERVICE
CONNECT TO EX. 12" S.S.
INSTALL:
1–STD. 4' DIA. MANHOLE
RIM ELEV=580.50
FL 8"(IN)=572.98
FL EX. 12"(OUT)=572.78±

STA. 0+63.60 LINE "SS–2"
INSTALL:
1–STD. 4' DIA. MANHOLE
FL 8" (IN)=586.39
FL 8" (OUT)=586.19

STA. 0+00 LINE "SS–2"
CONNECT TO EX. 8" S.S.
INSTALL:
1–STD. 4' DIA. MANHOLE
23 LF 6" S.S. PIPE
1–DOUBLE CLEANOUT
CUT & CAP EX S.S. TO NORTH
END SERVICES @ A POINT 5' FROM BUILDING FACE
FL 8"(IN)=585.72
FL EX. 8"(OUT)=585.52±
FL @ BLDG=586.75

INSTALL:
1–8"x 6" TAPPING SLEEVE
1–8"x 2" TAPPING SLEEVE
1–6" FIRE SERVICE
1–6" DOUBLE CHECK DETECTOR ASSEMBLY
1–2" WATER SERVICE
1–2" WATER METER
1–2" DOUBLE CHECK VALVE
END SERVICES @ A POINT 5' FROM BUILDING FACE

END 8" WATER MAIN
CONNECT TO EX 8" WATER LINE
INSTALL:
2–8" 90° HORIZ. BENDS
1–8" VALVE
CUT & CAP TO EAST

INSTALL:
1–8" 45° HORIZ. BEND

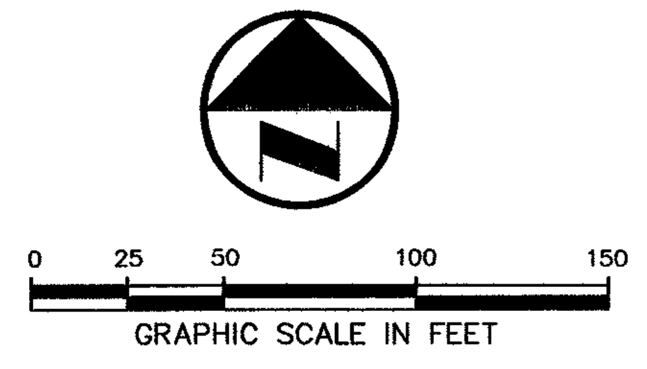
INSTALL:
1–8"x 6" TAPPING SLEEVE
1–8"x 2" TAPPING SLEEVE
1–6" FIRE SERVICE
1–6" DOUBLE CHECK DETECTOR ASSEMBLY
1–2" WATER SERVICE
1–2" WATER METER
1–2" DOUBLE CHECK VALVE
END SERVICES @ A POINT 5' FROM BUILDING FACE

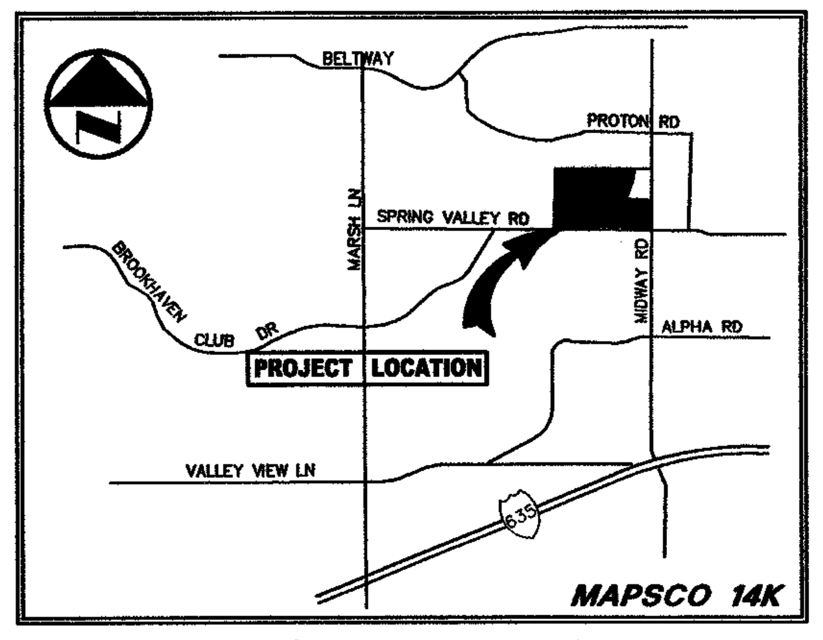
INSTALL 68 LF OF CONCRETE ENCASEMENT

INSTALL 52 LF OF CONCRETE ENCASEMENT

1 Abandonment of Existing Manhole

NOT TO SCALE

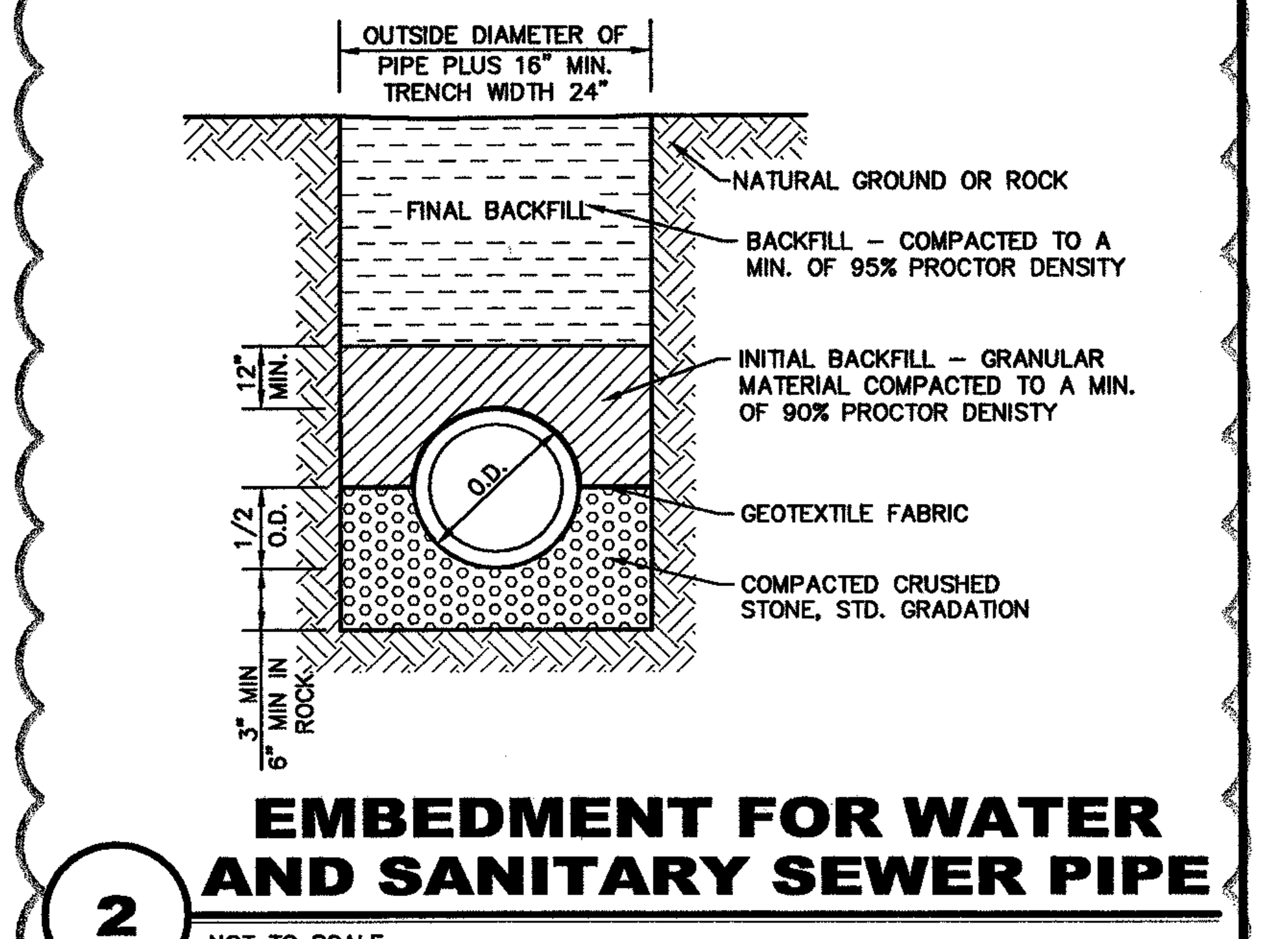




VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
— — —	PROPERTY LINE
—X—	FENCE
—OHL—	OVERHEAD UTILITY LINE
—6"W—	UNDERGROUND WATER LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
—C—	UNDERGROUND CABLE LINE
~~—6"SS— UNDERGROUND SANITARY SEWER LINE~~	



2 EMBEDMENT FOR WATER AND SANITARY SEWER PIPE

NOT TO SCALE

NOTE:
ALL WATER LINES SHOWN TO BE REMOVED ARE TO BE ABANDONED IN PLACE.

WATER AND SANITARY SEWER GENERAL NOTES

1. ~~UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CLASS "A"~~, (3000 PSI).
2. ALL WATER MAINS SHALL BE PVC C909, DR 14, CLASS 150.
3. ~~WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING~~ CODE REQUIREMENTS.
4. ALL WATER MAINS UNLESS OTHERWISE NOTED SHALL HAVE A MINIMUM COVER OF 48" BELOW FINISHED GRADE.
5. SANITARY SEWER PIPE SHALL BE PVC SDR–35.
6. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:
   - (A) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
   - (B) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   - (C) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI–RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   - (D) WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
   - (E) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS (A) OR (D) OF THIS PARAGRAPH.
   - (F) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY TWO FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS (C) OR (D).
7. CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AN SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB OF ALLEY IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
9. ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
10. THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO (2') FEET BACK OF THE CURB LINE AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE CURB, WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS".
11. ALL METER BOXES SHALL BE LOCATED IN NON–TRAFFIC AREAS.
12. UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL MEETING NCTCOG ITEM 6.2.10 AND MECHANICALLY COMPACTED IN 8" LIFTS TO THE TOP OF THE SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
13. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN–UP AND ALIGNMENT HAS BEEN COMPLETED, THE CONTRACTOR (UTILITY) SHALL POUR A CONCRETE BLOCK 24"X24"X6" AROUND ALL VALVE BOXES TOPS SO THE FINISHED GRADE IS LEVEL WITH THE FINISHED GRADE.
14. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

BENCH MARKS

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 #9:	"☐" cut at NEC of electric MH on north side cafeteria, south side of drive 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 of lower school and walk along south side Lower school. Elev. 587.78

STEVEN A. MARKUSSEN
70090

3/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
1	04/30/2004	REVISED NOTE, DETAIL, ADDED/CHANGED APPURTENANCES

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

WATER & SANITARY SEWER PLAN
GREENHILL SCHOOL
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C4.1

GREENHILL SCHOOL

PK FILE: 1082–03.024

DWG FILE: 1082–03.024CV.DWG
XREF FILE: FS.DWG

DWEV
04/30/2004 – 2:29PM
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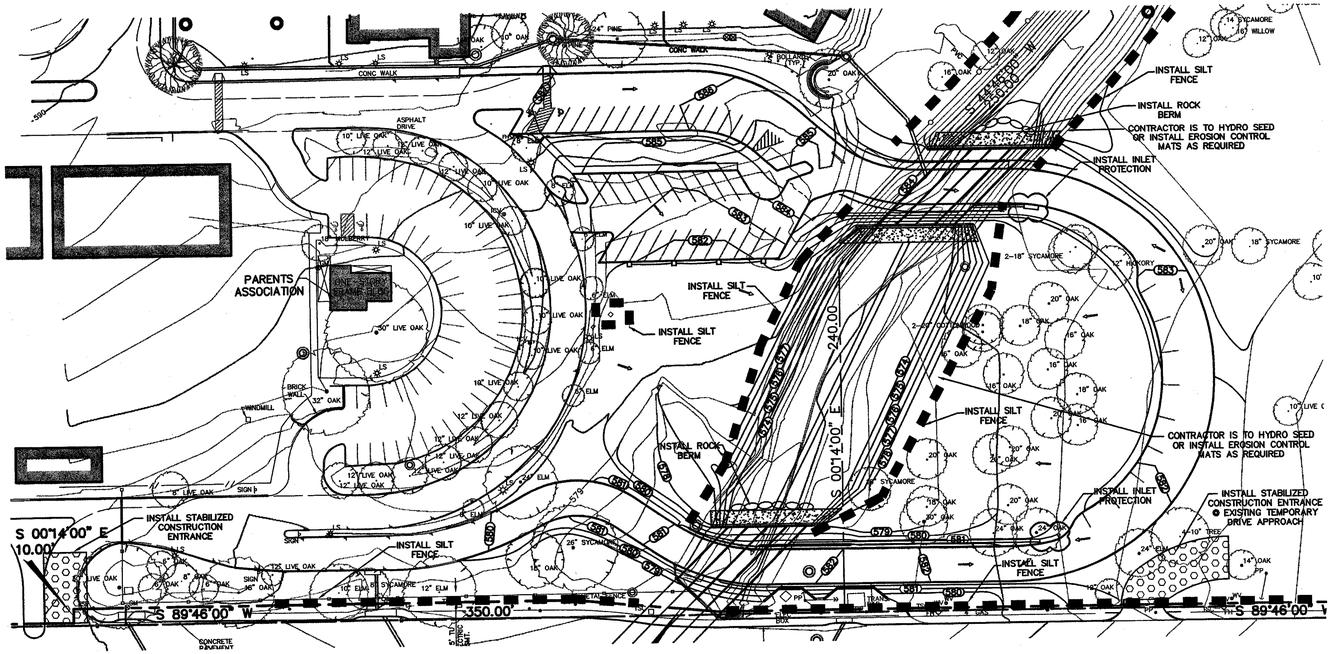
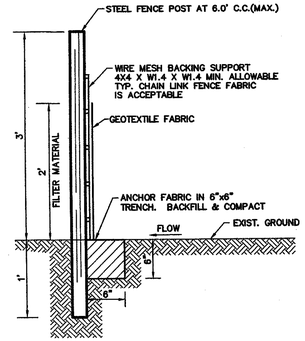
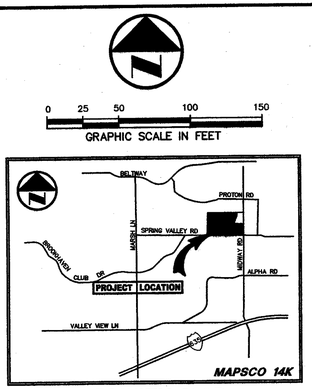




4 SILT FENCE
NOT TO SCALE



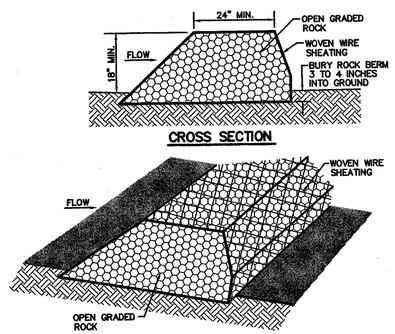
VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2"-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
612.39	EXIST SPOT ELEVATION
TC 612.39 G 611.92	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
613	PROPOSED CONTOUR
TC 614.5 G 614.0	PROPOSED TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED INLET PROTECTION
	PROPOSED SILT FENCE
	PROPOSED ROCK BERM

POLLUTION CONTROL GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
   - A. CLEARING AND GRUBBING
   - B. ROUGH GRADING
   - C. FINAL GRADING
   - D. UTILITY INSTALLATION
   - E. PAVEMENT INSTALLATION
   - F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 12.5 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.7.
5. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
7. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
8. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED FOR A MINIMUM OF 21 DAYS MUST BE STABILIZED BY THE CONTRACTOR TO CONTROL EROSION.
9. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
10. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
11. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
12. CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 10 ACRES OF LAND.
13. ALL FINISHED GRADES ARE TO BE HYDROMULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED ON AND OFF-SITE.
14. A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF CONCRETE TRUCKS.
15. A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON SITE.
16. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
17. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
18. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
19. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES.



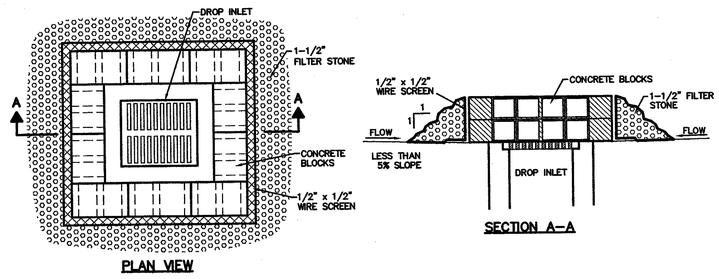
NOTES :
1. USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS.
2. ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAX. OPENING OF 1 INCH AND A MIN. WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROX. 3 TO 4 INCHES DEEP.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASED TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASH OUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
6. ROCK BERM SHOULD BE USED AS CHECK DAMS FOR CONCENTRATED FLOW AND ARE NOT INTENDED FOR USE IN PERIMETER PROTECTION.

2 ROCK BERM
NOT TO SCALE

NOTE:
GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE. DRAINAGE MUST FLOW AWAY FROM ENTRANCE.

STABILIZED CONSTRUCTION ENTRANCE

3
NOT TO SCALE



1 DROP INLET PROTECTION
NOT TO SCALE

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STATE OF TEXAS · STEVEN A. MARKUSSEN · 70090 · REGISTERED PROFESSIONAL ENGINEER · 5/4/05

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

EROSION CONTROL PLAN & DETAILS

PARKING LOT
GREENHILL SCHOOL ADDITION
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	DRI	MAY 2005	1"=50'			C5.0

PK FILE: 1082-03.024 DWG FILE: 1082-03.024CV2.DWG

GREENHILL SCHOOL

DWEY
05/04/2005 - 9:34AM
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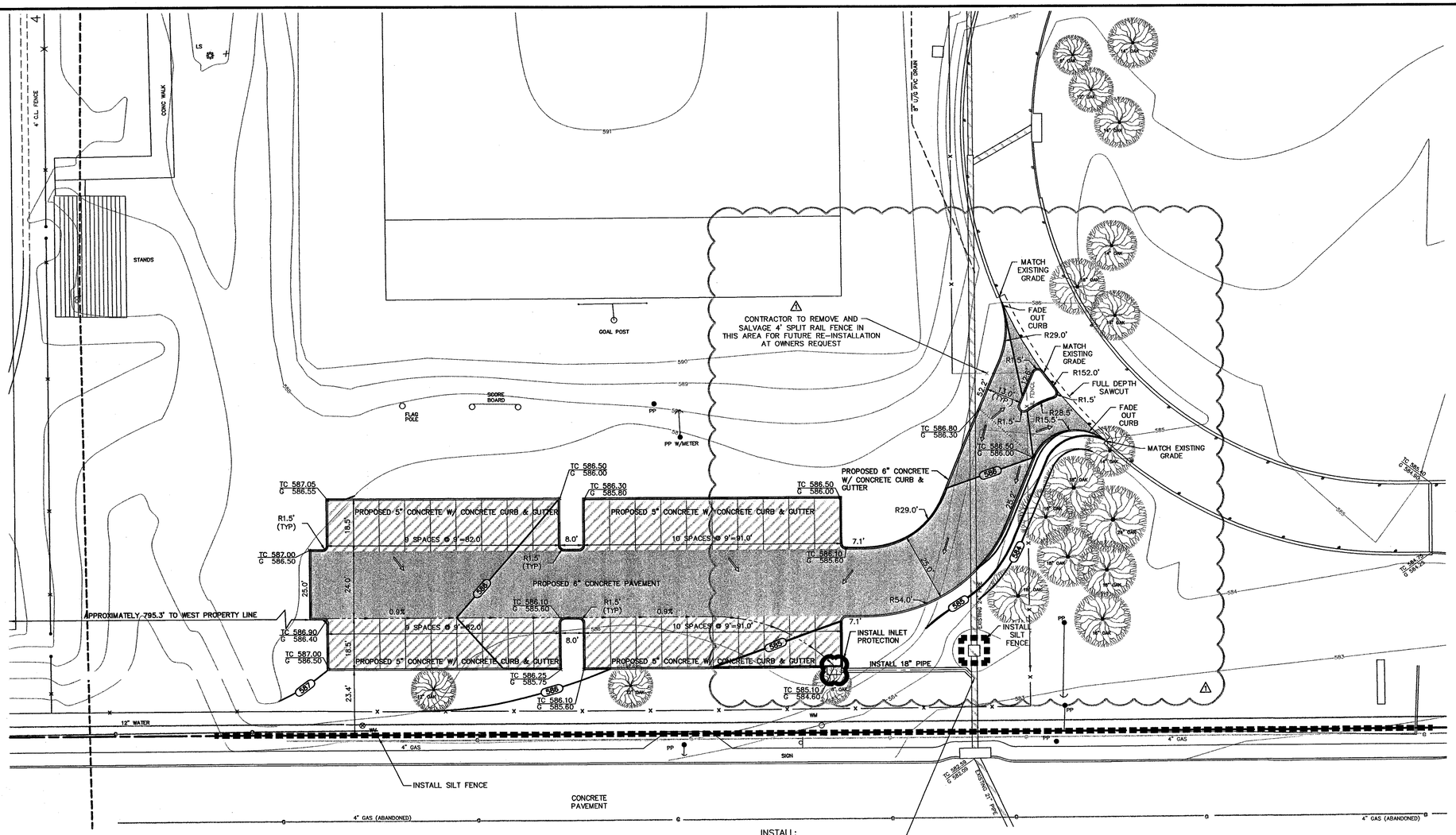
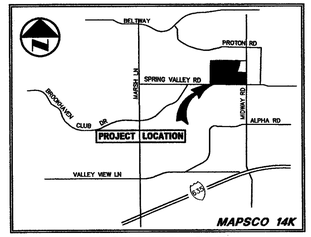


0 25 50 100 150

GRAPHIC SCALE IN FEET



VICINITY MAP

LEGEND

B	BOLLARD
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(C.M.)	CONTROLLING MONUMENT
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T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
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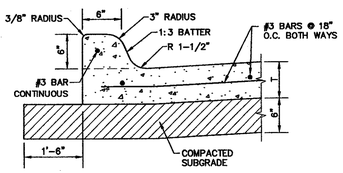
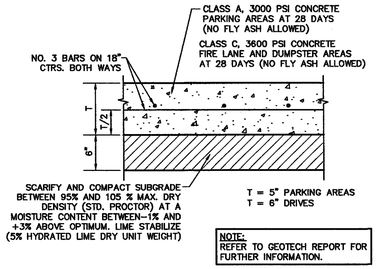
612.39	EXIST SPOT ELEVATION
TC 612.39 / G 611.92	EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
613	PROPOSED CONTOUR
TC 614.5 / G 614.0	PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
	PROPOSED DRAINAGE FLOW DIRECTION
	PROPOSED 5" CONCRETE PAVEMENT LIGHT TRAFFIC AREAS
	PROPOSED 6" CONCRETE PAVEMENT HEAVY TRAFFIC (DRIVES)
	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION

NOTE: ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

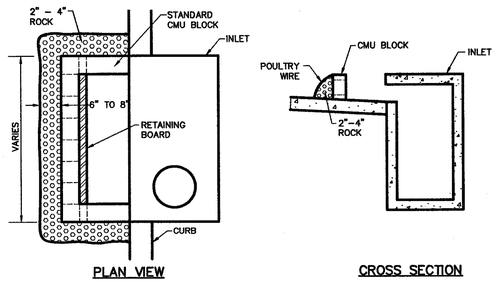


1 INTEGRAL CURB
NOT TO SCALE

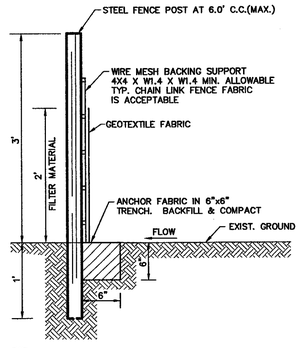


NOTE: REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

2 CONCRETE PAVEMENT SECTION
NOT TO SCALE



3 CURB INLET PROTECTION TYPE "B"
NOT TO SCALE



4 SILT FENCE
NOT TO SCALE

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED
PROFESSIONAL ENGINEER
3/31/04

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
1	04/30/2004	REVISED DRIVE LAYOUT

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

WEST PARKING LOT PLAN
GREENHILL SCHOOL
LOT NUMBER, BLOCK NUMBER
GREENHILL SCHOOL ADDITION
TOWN OF ADDISON, TEXAS

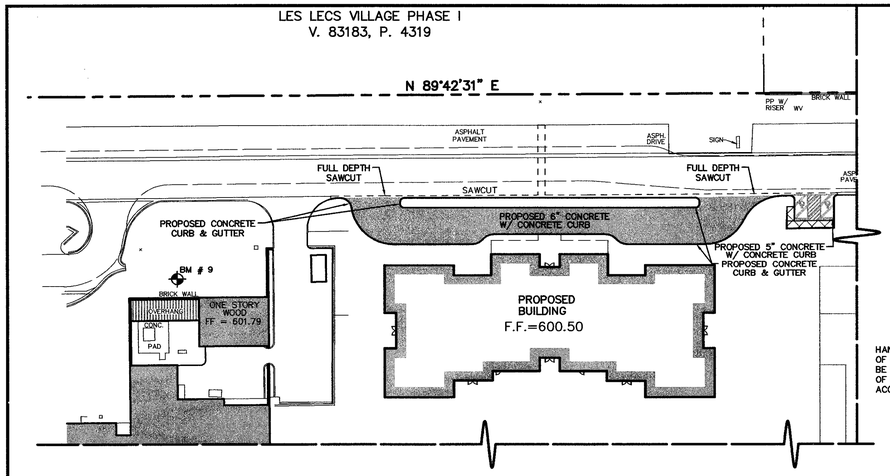
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	BLT	NOV. 2003	1"=20'			C5.0

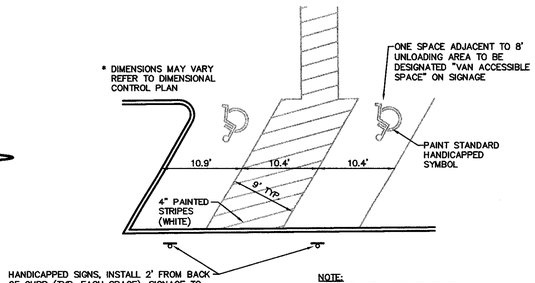
GREENHILL SCHOOL

DIVEY 04/30/2004 2:05PM M:\DWG\1082-03-024\DWG\1082-03-024WP.DWG

PK FILE: 1082-03.024

DWG FILE: 1082-03.024WP.DWG
XREF FILE: FS.DWG





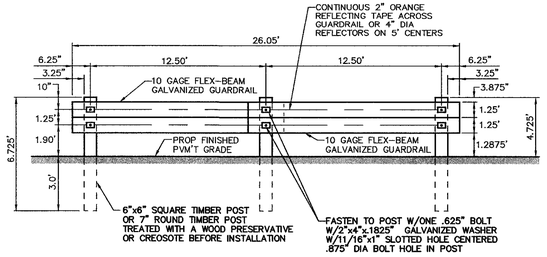
HANDICAPPED SIGNS, INSTALL 2' FROM BACK OF CURB (TYP. EACH SPACE), SIGNAGE TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION TEXAS ACCESSIBILITY STANDARDS (TAS) PER 4.6.4

NOTE: SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATIONS.

4 HANDICAP PARKING

NOT TO SCALE

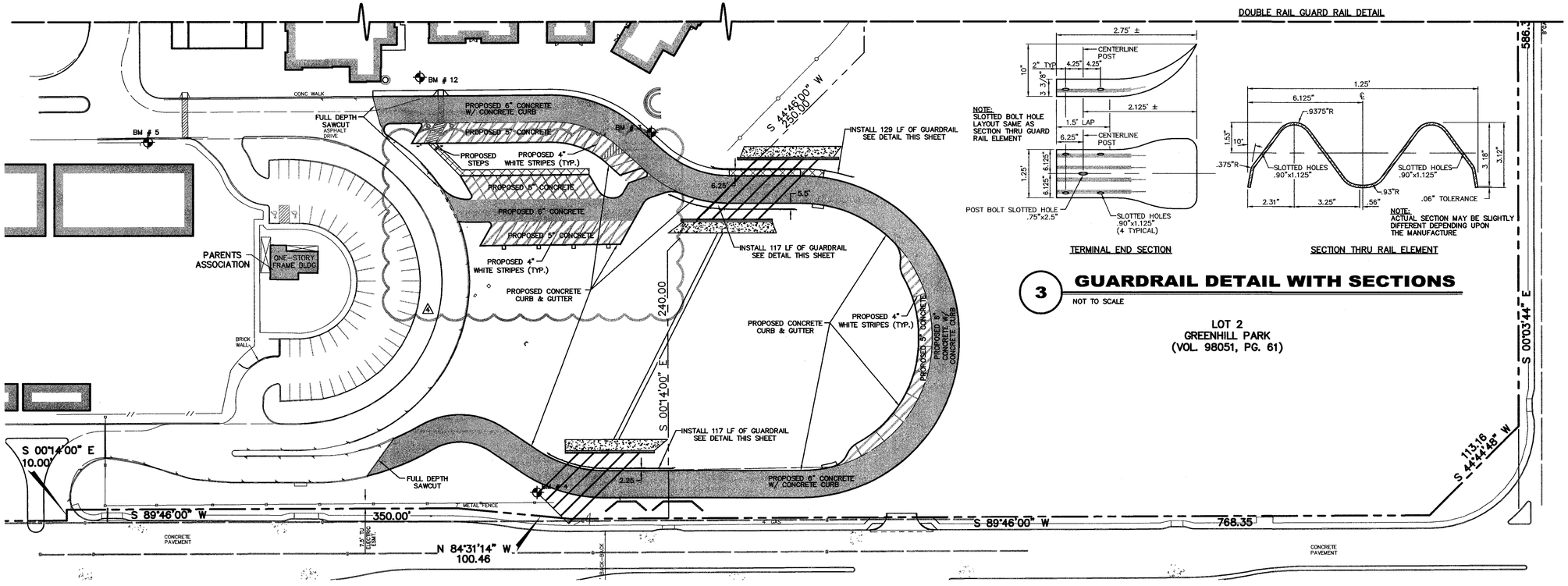
NOTE:
1. AT THE OPTION OF THE CONTRACTOR THE RAIL ELEMENT OF THE GUARD FENCE MAY BE FURNISHED IN EITHER 12.50 OR 25.00 FOOT NOMINAL LENGTHS. RAIL SHALL BE FURNISHED WITH POST BOLT SLOTS FOR 5/8" DIA BOLT CONNECTION TO POST.
2. BOLTS USED IN ATTACHING RAIL TO POST SHALL BE OF SUFFICIENT LENGTH THROUGH THE FULL THICKNESS OF THE NUT.
3. TIMBER POSTS MAY BE BEVELED AT APPROX 10° ON THE TOP OR BOTH ENDS WITH HIGH SIDE PLACES TOWARD THE THE ROADWAY OR THEY MAY BE DOMED.
4. BOLTS USED IN ATTACHING RAIL TO RAIL REQUIRE FOUR 5/8" DIA x 1 1/4" OVAL SHOULDER BUTTON HEAD GALVANIZED BOLT W/5/8" GALVANIZED NUT.
5. ALL NUTS, BOLTS, & WASHERS TO BE GALVANIZED.
6. GUARD RAIL TO BE MOUNTED PER MANUFACTURES REQUIREMENTS.



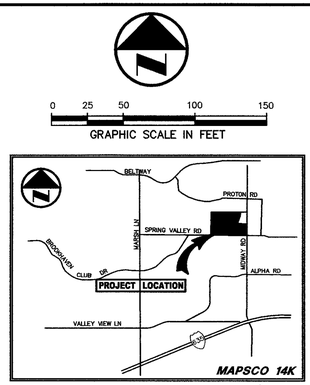
DOUBLE RAIL GUARD RAIL DETAIL

3 GUARDRAIL DETAIL WITH SECTIONS

NOT TO SCALE



LOT 2
GREENHILL PARK
(VOL. 98051, PG. 61)



VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
-X-	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
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	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 5" CONCRETE PAVEMENT LIGHT TRAFFIC AREAS
	PROPOSED 6" CONCRETE PAVEMENT HEAVY TRAFFIC (FIRE LANES, SERVICE DRIVES)

PAVING NOTES

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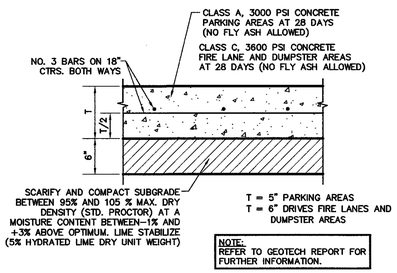
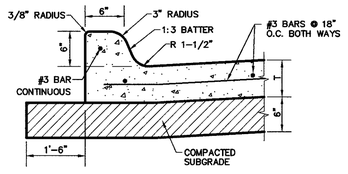


1 CONCRETE PAVEMENT SECTION

NOT TO SCALE



2 INTEGRAL CURB

NOT TO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

PLANS PREPARED UNDER THE DIRECT SUPERVISION OF STEVEN A. MARKUSSEN, P.E. TEXAS REGISTRATION NO. 70090 DATE: 02/27/2004

ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE **NOT** BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
1		ADDED PARKING AREA

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

PAVING PLAN & DETAILS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C6.0

PK FILE: 1082-03.024 DWG FILE: 1082-03.024CV.DWG

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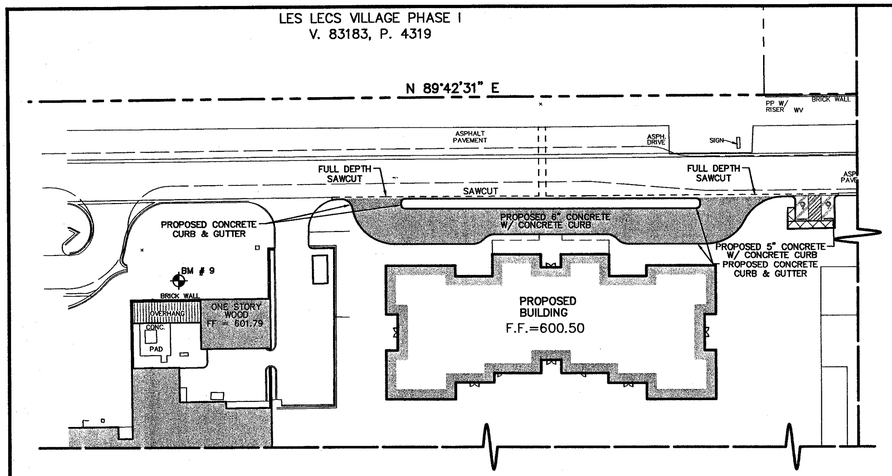

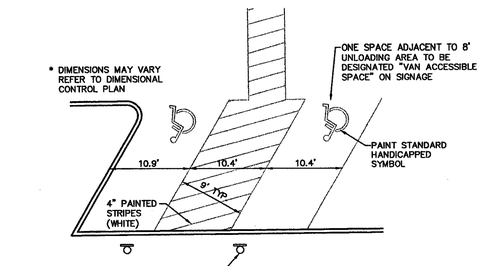

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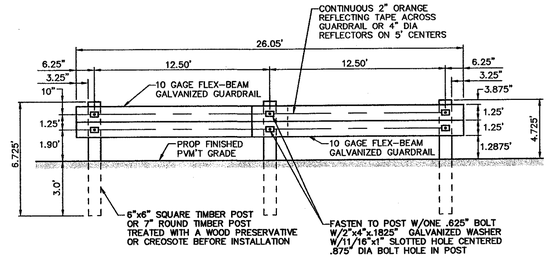
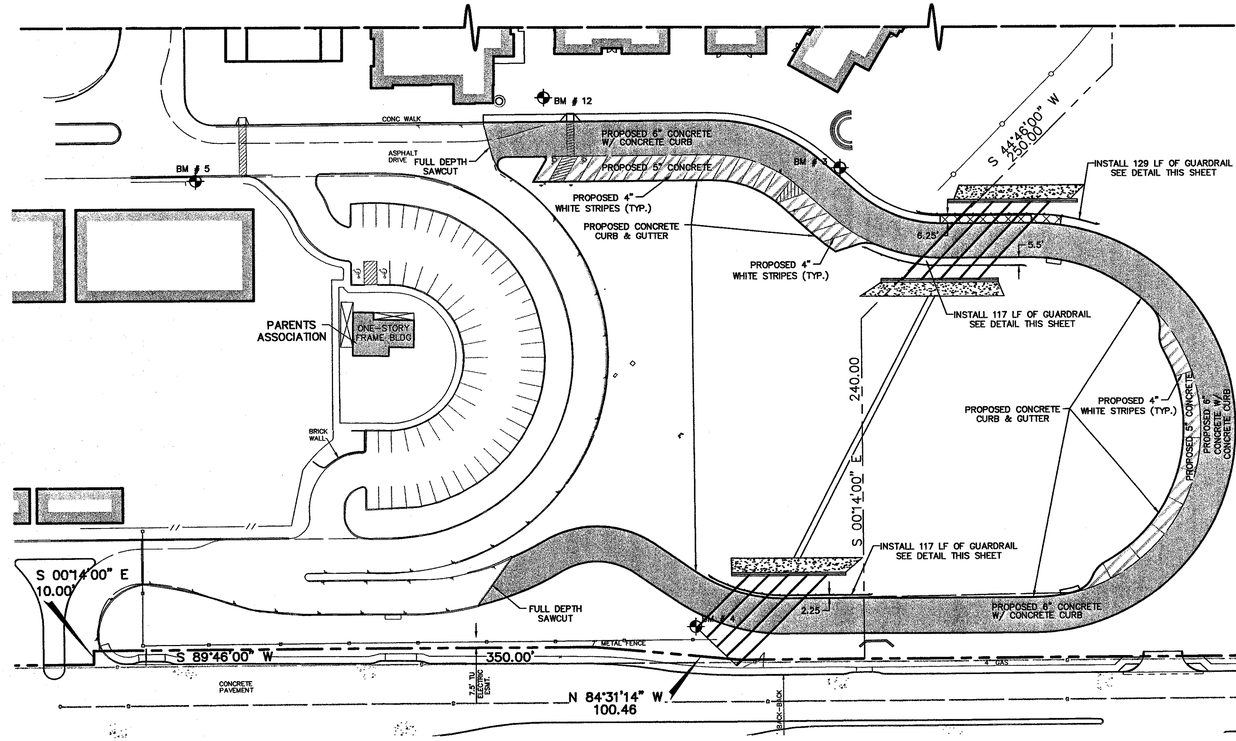
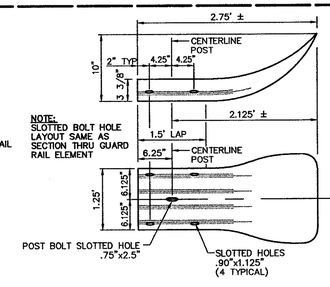


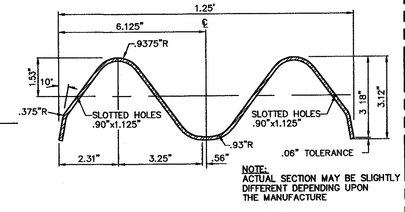
DOUBLE RAIL GUARD RAIL DETAIL





NOTE:
SLOTTED BOLT HOLE LAYOUT SAME AS SECTION THRU GUARD RAIL ELEMENT

TERMINAL END SECTION



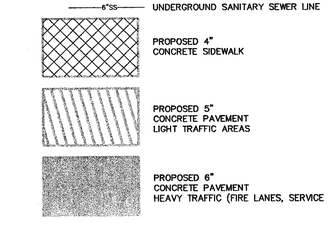
NOTE:
ACTUAL SECTION MAY BE SLIGHTLY DIFFERENT DEPENDING UPON THE MANUFACTURE

SECTION THRU RAIL ELEMENT

3 GUARDRAIL DETAIL WITH SECTIONS

NOT TO SCALE

LOT 2
GREENHILL PARK
(VOL. 98051, PG. 61)



VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
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ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
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TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
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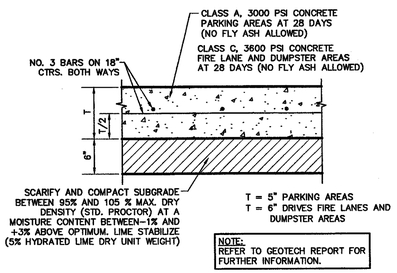

NOTE:
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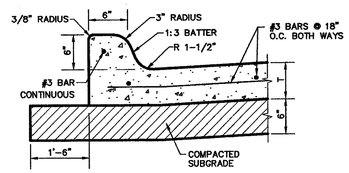
1 CONCRETE PAVEMENT SECTION

NOT TO SCALE



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STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED
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3/31/04

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

PAVING PLAN & DETAILS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C6.0

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

DIVEY
04/30/2004 - 1:51PM
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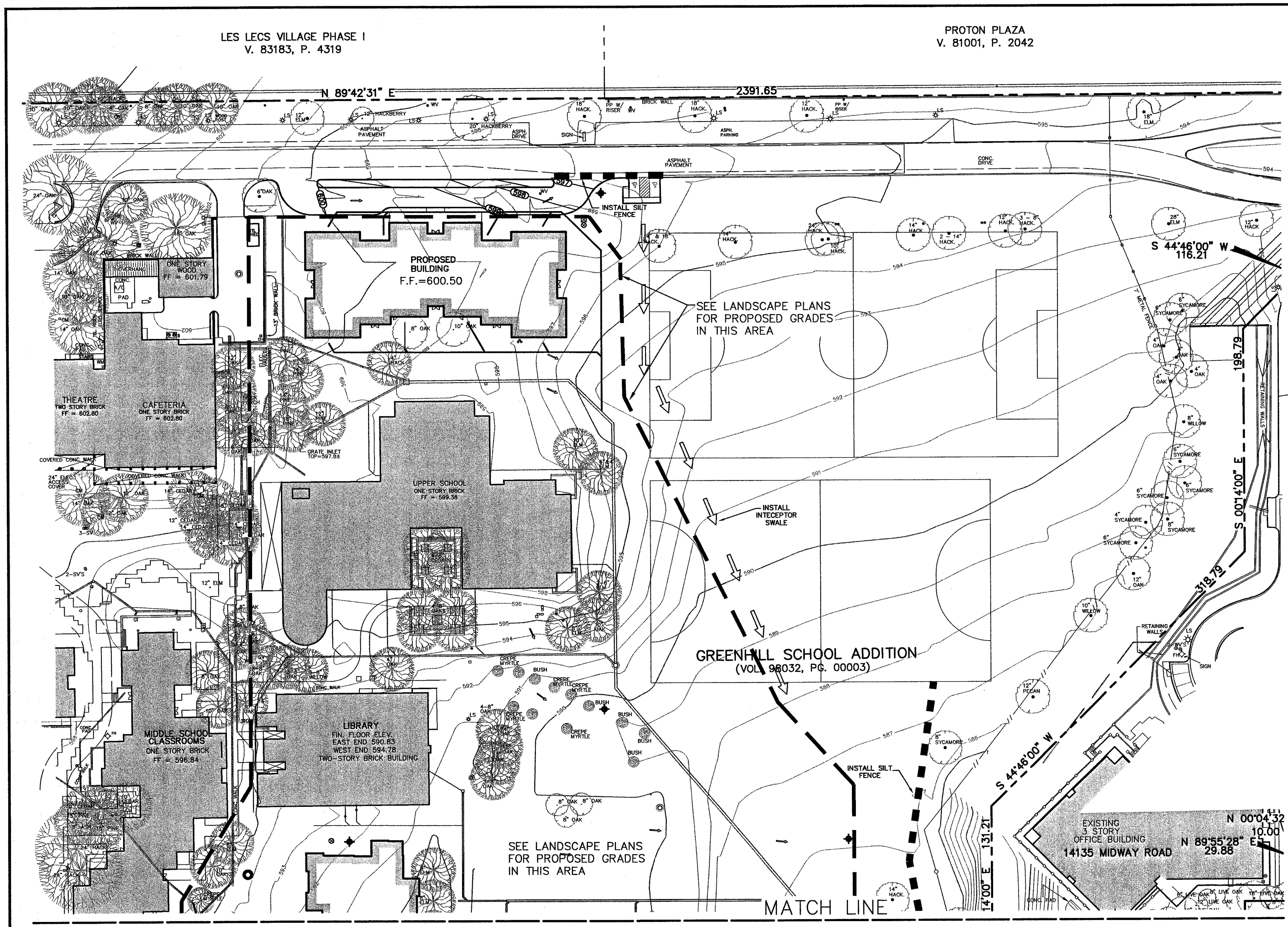

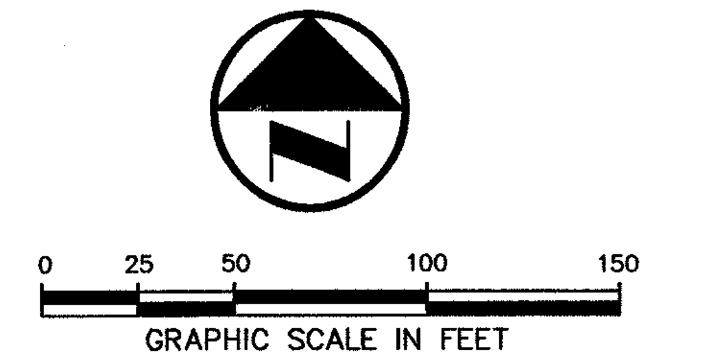

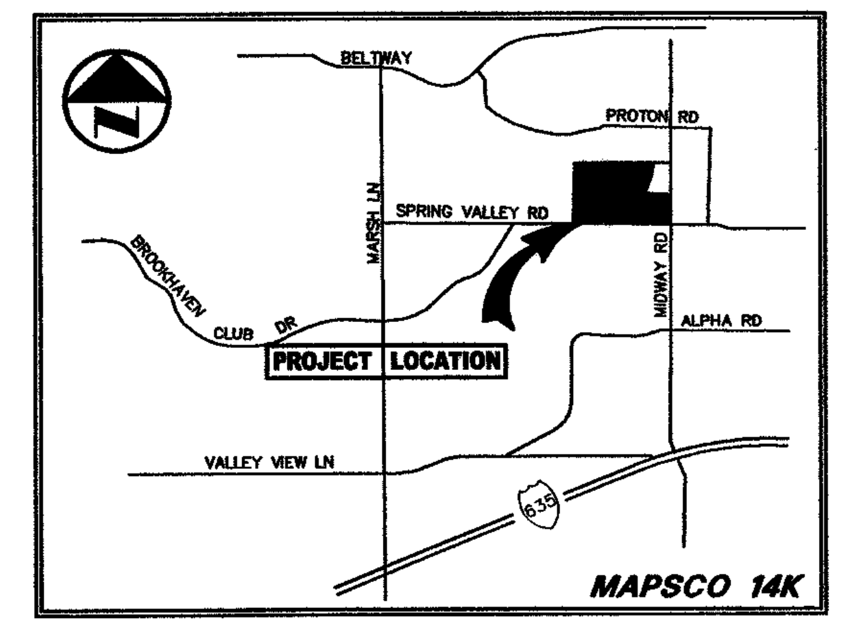

VICINITY MAP

LEGEND

B.	BOLLARD
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PP	POWER POLE
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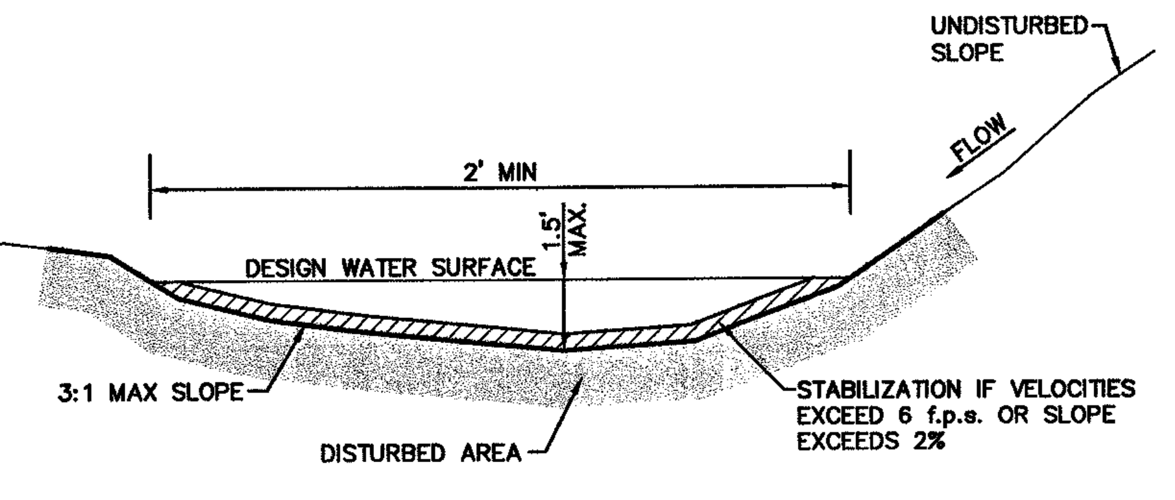
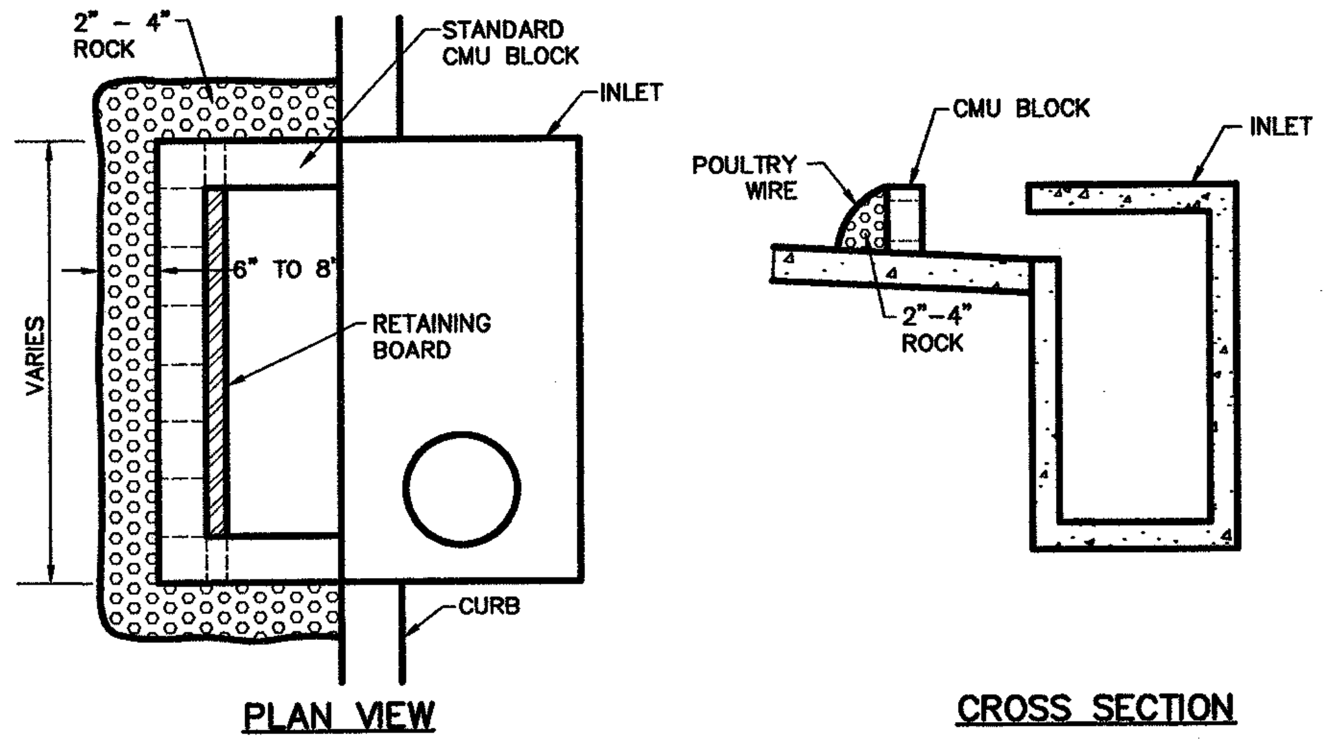
612.39	EXIST SPOT ELEVATION
TC 612.39 G 611.92	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
613	PROPOSED CONTOUR
TC 614.5 G 614.0	PROPOSED TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION
EL 614.5	PROPOSED SPOT ELEVATION
⟹	PROPOSED DRAINAGE FLOW DIRECTION
613	EXIST CONTOUR
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED INLET PROTECTION
■ ■ ■	PROPOSED SILT FENCE
	PROPOSED ROCK BERM
⇨	PROPOSED INTERCEPTOR SWALE
■ ■	LIMITS OF DISTURBED AREA



③ INTERCEPTOR SWALE

NOT TO SCALE

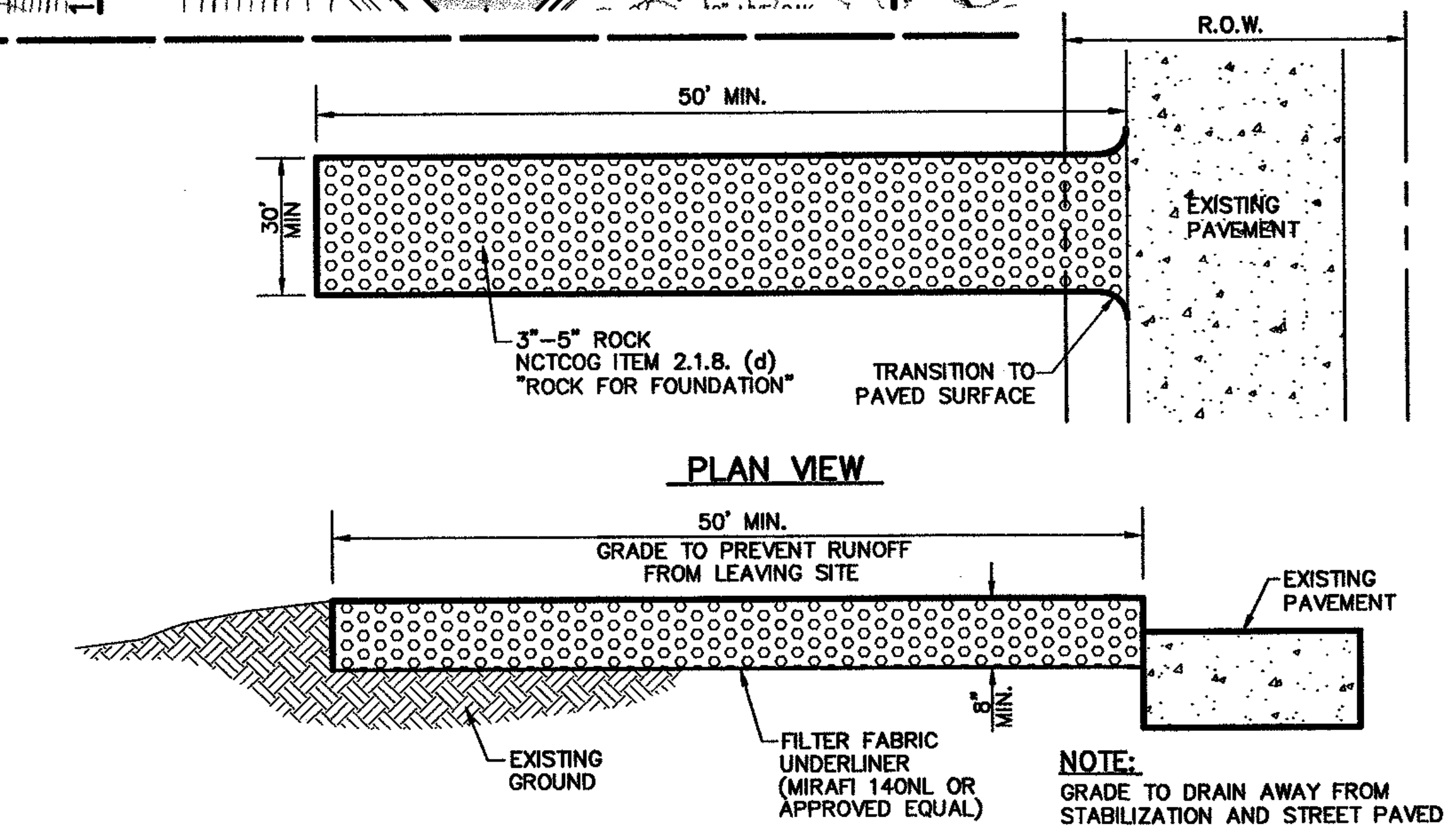


PLAN VIEW

CROSS SECTION

② CURB INLET PROTECTION TYPE "B"

NOT TO SCALE



PLAN VIEW

PROFILE

NOTE:
GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE. DRAINAGE MUST FLOW AWAY FROM ENTRANCE.

① STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

POLLUTION CONTROL GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
   - A. CLEARING AND GRUBBING
   - B. ROUGH GRADING
   - C. FINAL GRADING
   - D. UTILITY INSTALLATION
   - E. PAVEMENT INSTALLATION
   - F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 12.5 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.7.
5. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
7. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
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STEVEN A. MARKUSSEN
70090
3/31/04

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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

EROSION CONTROL PLAN & DETAILS

GREENHILL SCHOOL
LOT NUMBER, BLOCK NUMBER
GREENHILL SCHOOL ADDITION
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C7.0

GREENHILL SCHOOL

PK FILE: 1082-03.024

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

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04/29/2004 – 5:31PM
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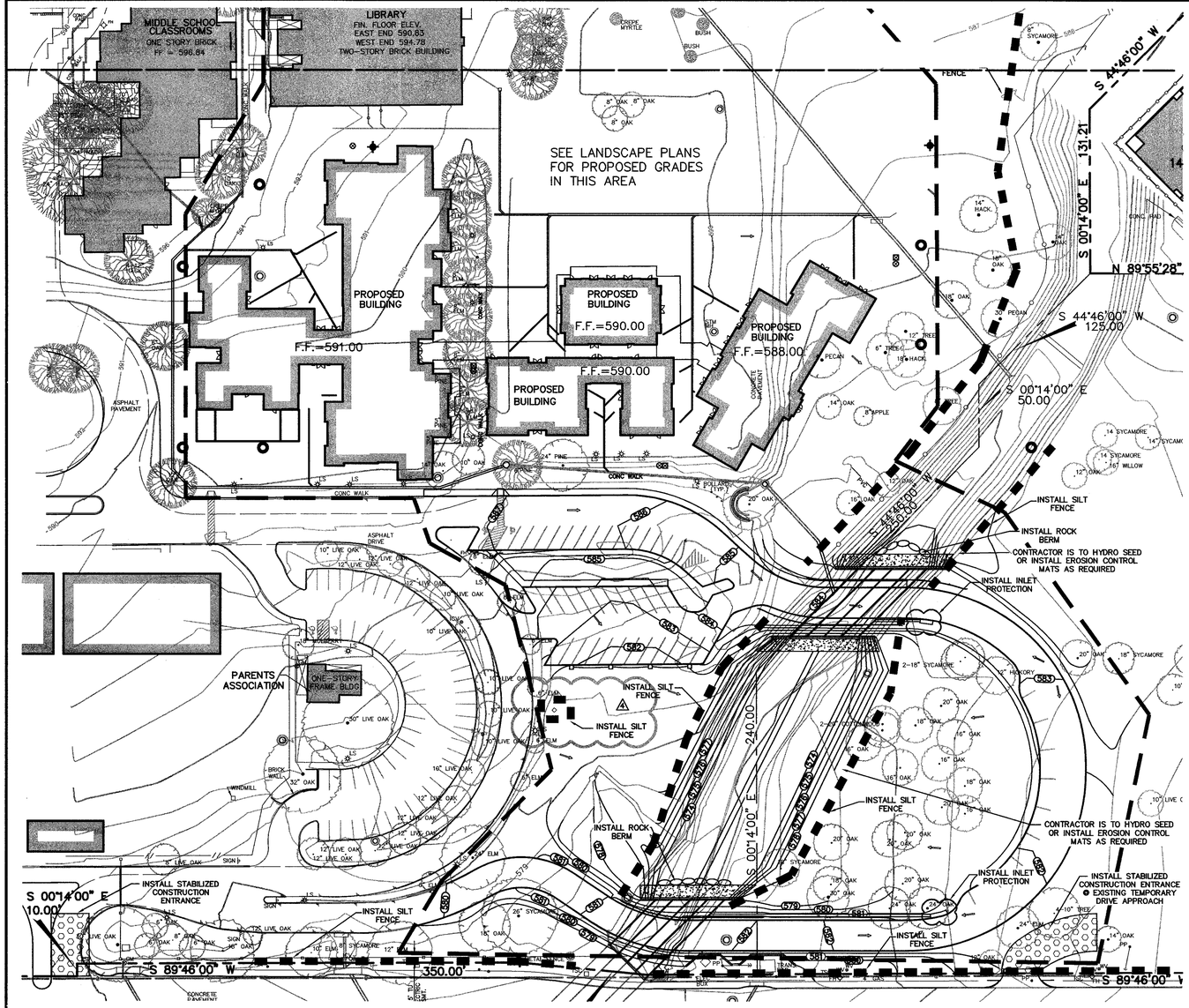
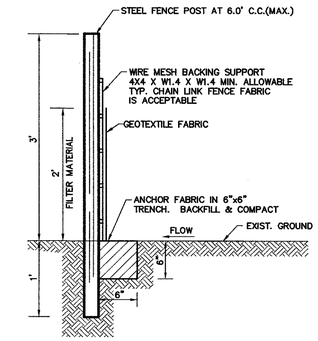
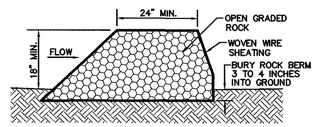


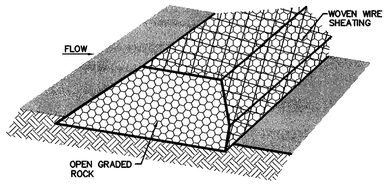


6 SILT FENCE

NOT TO SCALE



CROSS SECTION



ISOMETRIC PLAN VIEW

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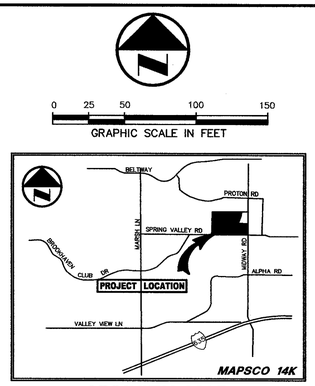
5 ROCK BERM

NOT TO SCALE



VICINITY MAP

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
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(C.M.)	CONTROLLING MONUMENT
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X	FENCE
OHL	OVERHEAD UTILITY LINE
6"W	UNDERGROUND WATER LINE
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TC 612.39 G 611.92	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
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TC 614.5 G 614.0	PROPOSED TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION
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613	EXIST CONTOUR
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED INLET PROTECTION
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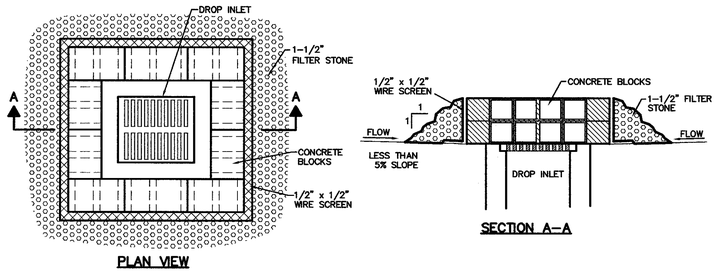

4 DROP INLET PROTECTION

NOT TO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

PLANS PREPARED UNDER THE DIRECT SUPERVISION OF STEVEN A. MARKUSSEN, P.E. TEXAS REGISTRATION NO. 70090 DATE: 02/27/2004

ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE **NOT** BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.

NO.	DATE	REVISION
2		ADDED SILT FENCE
1	04/30/2004	ADDED STABILIZED ENTRANCE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

EROSION CONTROL PLAN & DETAILS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C7.1

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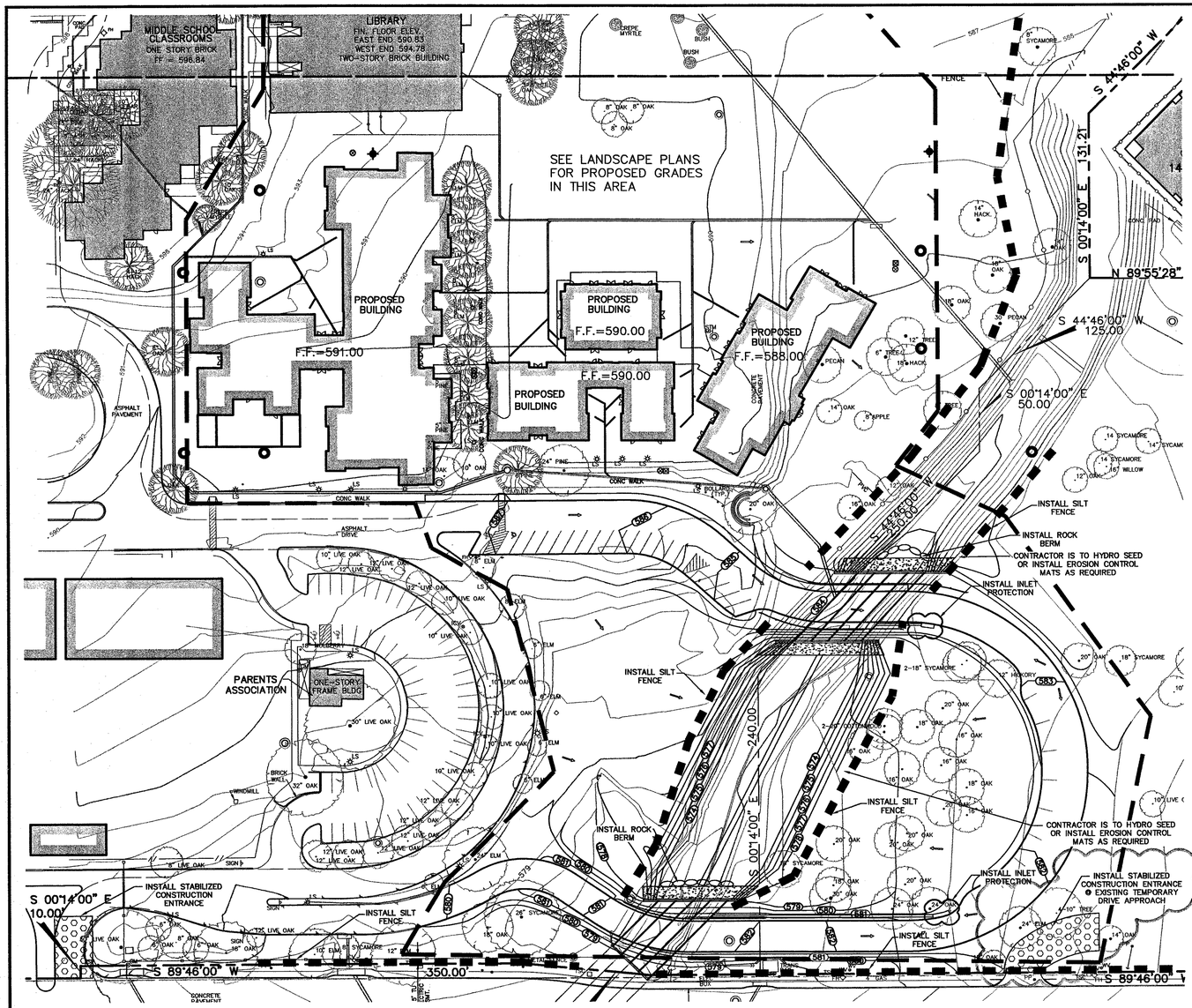

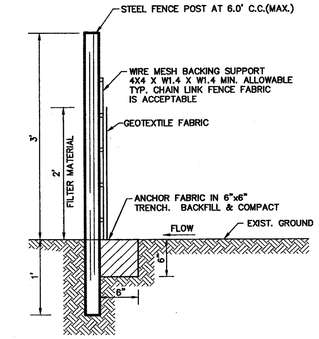

6 SILT FENCE

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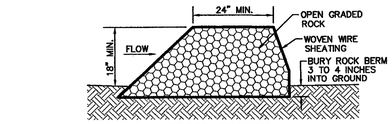

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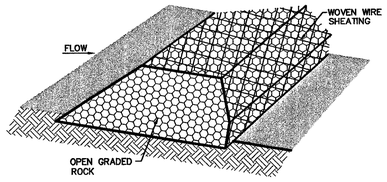

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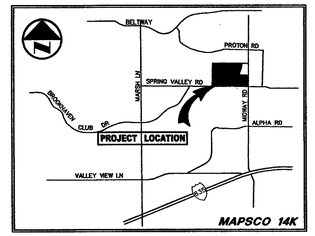
5 ROCK BERM

NOT TO SCALE

0 25 50 100 150

GRAPHIC SCALE IN FEET



VICINITY MAP

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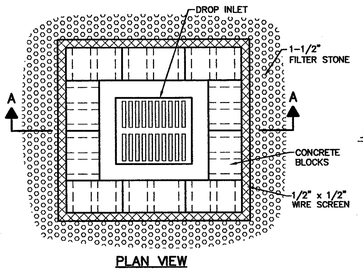
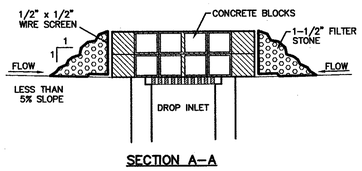


PLAN VIEW



SECTION A–A

4 DROP INLET PROTECTION

NOT TO SCALE

NO.	DATE	REVISION
1	04/30/2004	ADDED STABILIZED ENTRANCE

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

EROSION CONTROL PLAN & DETAILS

GREENHILL SCHOOL

GREENHILL SCHOOL ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
BJM	FJM	NOV. 2003	1"=50'			C7.1

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
3/31/04

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PK FILE: 1082–03.024

DWG FILE: 1082–03.024CV.DWG
XREF FILE: FS.DWG

GREENHILL SCHOOL

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CONSTRUCTION PLANS
FOR

GREENHILL UPPER SCHOOL ADDITION/ NEW PRE-SCHOOL & LOWER SCHOOL

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DRAWING SHEET INDEX

TxDOT STANDARD DETAILS

(PW) PARALLEL WINGS

(MC-9-10) MULTIPLE BOX CULVERTS ⚠

FOR

F&S PARTNERS

8350 North Central Expressway
Suite 500
Dallas, Texas 75206
214.559.4851

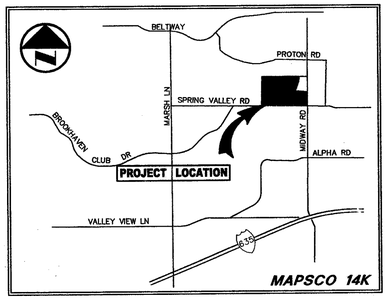
OWNER/DEVELOPER

Greenhill School
4141 Spring Valley Road
Addison, TX 75001

PREPARED BY

Pacheco Koch Consulting Engineers

8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031



VICINITY MAP

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 03/31/2004. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

CONSTRUCTION SET
ISSUED BY
TOWN OF ADDISON
PUBLIC WORKS DEPARTMENT
NAME: Steve Chmelar DATE: 5/11/04

⚠ 04/30/2004 ADDED TxDOT STANDARD DETAILS

GREENHILL SCHOOL

DWG FILE: 1082-03.024CV.DWG
XREF FILE: FS.DWG

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04/29/2004 - 10:34AM
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B19-14

CONSTRUCTION PLANS
FOR
GREENHILL SCHOOL ADDITION
PARKING LOT

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DRAWING SHEET INDEX

SHEET	DESCRIPTION
C1.0	DIMENSIONAL CONTROL PLAN
C2.0	GRADING PLAN
C3.0	DRAINAGE PLAN
C4.0	PAVING PLAN & DETAILS
C5.0	EROSION CONTROL PLAN & DETAILS

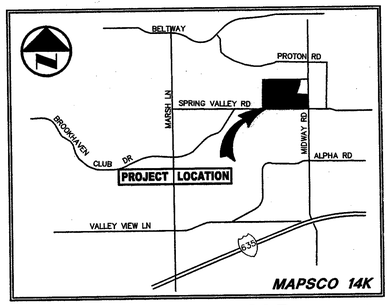
FOR

F&S PARTNERS

8350 North Central Expressway
Suite 500
Dallas, Texas 75206
214.559.4851

OWNER/DEVELOPER

Greenhill School
4141 Spring Valley Road
Addison, TX 75001



VICINITY MAP

PREPARED BY

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

STATE OF TEXAS
STEVEN A. MARKUSSEN
70090
REGISTERED PROFESSIONAL ENGINEER
5/4/05

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STEVEN A. MARKUSSEN, P.E. 70090 ON 5/04/2005. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

CONSTRUCTION SET
ISSUED BY
TOWN OF ADDISON
PUBLIC WORKS DEPARTMENT
NAME: Steve Chutchian DATE: 5/5/05

B19-14

DWG FILE: 1082-03-024CV2.DWG

GREENHILL SCHOOL

DWG FILE:
05/03/2005 - 4:19PM
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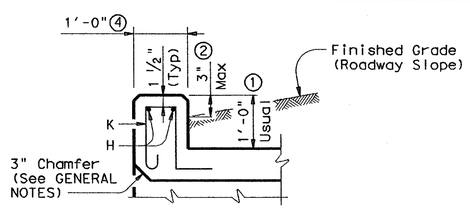
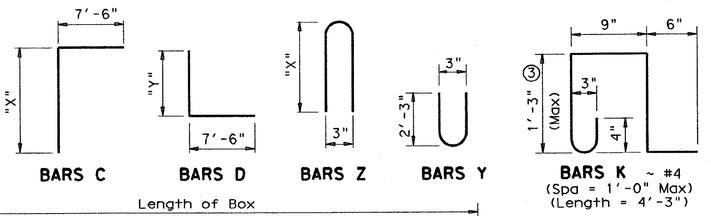
BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

NUMBER OF SPANS	SECTION DIMENSIONS				Bars B					Bars C & D							Bars E					Bars F_1 ~#4				Bars F_2 ~#4 at 1'-6" Max			Bars M~#4 at 1'-6" Max			Bars Y & Z~#4 at 9" Max					Bars H 4~#4		Bars K		QUANTITIES					
													Bar C		Bar D																												Per foot of Barrel		Curb		Total	
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	Length	Wt	No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	9'-0"	5'-0"	8"	7"	194	#5	5"	19'- 6"	3,946	194	#4	5"	13'- 0"	1,685	9'- 9"	1,264	194	#6	5"	8'-10"	2,574	24	9"	39'-9"	637	68	39'-9"	1,806	56	5'- 0"	187	54	4'- 8"	168	11'- 2"	403	19'- 6"	52	42	119	1.299	316.8	1.5	171	53.5	12,841
3	9'-0"	5'-0"	8"	7"	194	#5	5"	29'- 1"	5,885	194	#4	5"	13'- 0"	1,685	9'- 9"	1,264	194	#6	5"	18'- 5"	5,366	36	9"	39'-9"	956	97	39'-9"	2,576	56	5'- 0"	187	108	4'- 8"	337	11'- 2"	806	29'- 1"	78	60	170	1.881	476.6	2.2	248	77.4	19,310
4	9'-0"	5'-0"	8"	7"	194	#5	5"	38'- 8"	7,824	194	#4	5"	13'- 0"	1,685	9'- 9"	1,264	194	#6	5"	28'- 0"	8,159	48	9"	39'-9"	1,275	126	39'-9"	3,346	56	5'- 0"	187	162	4'- 8"	505	11'- 2"	1,208	38'- 8"	103	80	227	2.462	636.3	2.9	330	101.4	25,783
5	9'-0"	5'-0"	8"	7"	194	#5	5"	48'- 3"	9,763	194	#4	5"	13'- 0"	1,685	9'- 9"	1,264	194	#6	5"	37'- 7"	10,951	60	9"	39'-9"	1,593	155	39'-9"	4,116	56	5'- 0"	187	216	4'- 8"	673	11'- 2"	1,611	48'- 3"	129	100	284	3.043	796.1	3.6	413	125.3	32,256
6	9'-0"	5'-0"	8"	7"	194	#5	5"	57'-10"	11,702	194	#4	5"	13'- 0"	1,685	9'- 9"	1,264	194	#6	5"	47'- 2"	13,744	72	9"	39'-9"	1,912	184	39'-9"	4,886	56	5'- 0"	187	270	4'- 8"	842	11'- 2"	2,014	57'-10"	155	118	335	3.624	955.9	4.3	490	149.3	38,726
2	9'-0"	6'-0"	8"	7"	194	#5	5"	19'- 6"	3,946	194	#4	5"	14'- 0"	1,814	9'- 9"	1,264	194	#6	5"	8'-10"	2,574	24	9"	39'-9"	637	74	39'-9"	1,965	56	6'- 0"	224	54	4'- 8"	168	13'- 2"	475	19'- 6"	52	42	119	1.364	326.7	1.5	171	56.1	13,238
3	9'-0"	6'-0"	8"	7"	194	#5	5"	29'- 1"	5,885	194	#4	5"	14'- 0"	1,814	9'- 9"	1,264	194	#6	5"	18'- 5"	5,366	36	9"	39'-9"	956	105	39'-9"	2,788	56	6'- 0"	224	108	4'- 8"	337	13'- 2"	950	29'- 1"	78	60	170	1.967	489.6	2.2	248	80.9	19,832
4	9'-0"	6'-0"	8"	7"	194	#5	5"	38'- 8"	7,824	194	#4	5"	14'- 0"	1,814	9'- 9"	1,264	194	#6	5"	28'- 0"	8,159	48	9"	39'-9"	1,275	136	39'-9"	3,611	56	6'- 0"	224	162	4'- 8"	505	13'- 2"	1,425	38'- 8"	103	80	227	2.570	652.5	2.9	330	105.7	26,431
5	9'-0"	6'-0"	8"	7"	194	#5	5"	48'- 3"	9,763	194	#4	5"	14'- 0"	1,814	9'- 9"	1,264	194	#6	5"	37'- 7"	10,951	60	9"	39'-9"	1,593	167	39'-9"	4,434	56	6'- 0"	224	216	4'- 8"	673	13'- 2"	1,900	48'- 3"	129	100	284	3.173	815.4	3.6	413	130.5	33,029
6	9'-0"	6'-0"	8"	7"	194	#5	5"	57'-10"	11,702	194	#4	5"	14'- 0"	1,814	9'- 9"	1,264	194	#6	5"	47'- 2"	13,744	72	9"	39'-9"	1,912	198	39'-9"	5,257	56	6'- 0"	224	270	4'- 8"	842	13'- 2"	2,375	57'-10"	155	118	335	3.776	978.4	4.3	490	155.3	39,624
2	9'-0"	7'-0"	8"	7"	194	#5	5"	19'- 6"	3,946	162	#5	6"	15'- 0"	2,534	10'- 2"	1,718	194	#6	5"	8'-10"	2,574	24	9"	39'-9"	637	74	39'-9"	1,965	56	7'- 0"	262	54	4'- 8"	168	15'- 2"	547	19'- 6"	52	42	119	1.429	358.8	1.5	171	58.7	14,522
3	9'-0"	7'-0"	8"	7"	194	#5	5"	29'- 1"	5,885	162	#5	6"	15'- 0"	2,534	10'- 2"	1,718	194	#6	5"	18'- 5"	5,366	36	9"	39'-9"	956	105	39'-9"	2,788	56	7'- 0"	262	108	4'- 8"	337	15'- 2"	1,094	29'- 1"	78	60	170	2.053	523.5	2.2	248	84.3	21,188
4	9'-0"	7'-0"	8"	7"	194	#5	5"	38'- 8"	7,824	162	#5	6"	15'- 0"	2,534	10'- 2"	1,718	194	#6	5"	28'- 0"	8,159	48	9"	39'-9"	1,275	136	39'-9"	3,611	56	7'- 0"	262	162	4'- 8"	505	15'- 2"	1,641	38'- 8"	103	80	227	2.678	688.2	2.9	330	110.0	27,859
5	9'-0"	7'-0"	8"	7"	194	#5	5"	48'- 3"	9,763	162	#5	6"	15'- 0"	2,534	10'- 2"	1,718	194	#6	5"	37'- 7"	10,951	60	9"	39'-9"	1,593	167	39'-9"	4,434	56	7'- 0"	262	216	4'- 8"	673	15'- 2"	2,188	48'- 3"	129	100	284	3.302	852.9	3.6	413	135.7	34,529
6	9'-0"	7'-0"	8"	7"	194	#5	5"	57'-10"	11,702	162	#5	6"	15'- 0"	2,534	10'- 2"	1,718	194	#6	5"	47'- 2"	13,744	72	9"	39'-9"	1,912	198	39'-9"	5,257	56	7'- 0"	262	270	4'- 8"	842	15'- 2"	2,735	57'-10"	155	118	335	3.927	1,017.7	4.3	490	161.4	41,196
2	9'-0"	8'-0"	8"	7"	194	#5	5"	19'- 6"	3,946	162	#5	6"	16'- 0"	2,703	10'- 2"	1,718	194	#6	5"	8'-10"	2,574	24	9"	39'-9"	637	80	39'-9"	2,124	56	8'- 0"	299	54	4'- 8"	168	17'- 2"	619	19'- 6"	52	42	119	1.494	369.7	1.5	171	61.3	14,959
3	9'-0"	8'-0"	8"	7"	194	#5	5"	29'- 1"	5,885	162	#5	6"	16'- 0"	2,703	10'- 2"	1,718	194	#6	5"	18'- 5"	5,366	36	9"	39'-9"	956	113	39'-9"	3,000	56	8'- 0"	299	108	4'- 8"	337	17'- 2"	1,238	29'- 1"	78	60	170	2.140	537.6	2.2	248	87.8	21,750
4	9'-0"	8'-0"	8"	7"	194	#5	5"	38'- 8"	7,824	162	#5	6"	16'- 0"	2,703	10'- 2"	1,718	194	#6	5"	28'- 0"	8,159	48	9"	39'-9"	1,275	146	39'-9"	3,877	56	8'- 0"	299	162	4'- 8"	505	17'- 2"	1,858	38'- 8"	103	80	227	2.786	705.5	2.9	330	114.3	28,548
5	9'-0"	8'-0"	8"	7"	194	#5	5"	48'- 3"	9,763	162	#5	6"	16'- 0"	2,703	10'- 2"	1,718	194	#6	5"	37'- 7"	10,951	60	9"	39'-9"	1,593	179	39'-9"	4,753	56	8'- 0"	299	216	4'- 8"	673	17'- 2"	2,477	48'- 3"	129	100	284	3.432	873.3	3.6	413	140.9	35,343
6	9'-0"	8'-0"	8"	7"	194	#5	5"	57'-10"	11,702	162	#5	6"	16'- 0"	2,703	10'- 2"	1,718	194	#6	5"	47'- 2"	13,744	72	9"	39'-9"	1,912	212	39'-9"	5,629	56	8'- 0"	299	270	4'- 8"	842	17'- 2"	3,096	57'-10"	155	118	335	4.078	1,041.1	4.3	490	167.4	42,135
2	9'-0"	9'-0"	8"	7"	194	#5	5"	19'- 6"	3,946	194	#5	5"	17'- 0"	3,440	10'- 2"	2,057	194	#6	5"	8'-10"	2,574	24	9"	39'-9"	637	86	39'-9"	2,284	56	9'- 0"	337	54	4'- 8"	168	19'- 2"	691	19'- 6"	52	42	119	1.559	403.4	1.5	171	63.9	16,305
3	9'-0"	9'-0"	8"	7"	194	#5	5"	29'- 1"	5,885	194	#5	5"	17'- 0"	3,440	10'- 2"	2,057	194	#6	5"	18'- 5"	5,366	36	9"	39'-9"	956	121	39'-9"	3,213	56	9'- 0"	337	108	4'- 8"	337	19'- 2"	1,383	29'- 1"	78	60	170	2.226	574.4	2.2	248	91.2	23,222
4	9'-0"	9'-0"	8"	7"	194	#5	5"	38'- 8"	7,824	194	#5	5"	17'- 0"	3,440	10'- 2"	2,057	194	#6	5"	28'- 0"	8,159	48	9"	39'-9"	1,275	156	39'-9"	4,142	56	9'- 0"	337	162	4'- 8"	505	19'- 2"	2,074	38'- 8"	103	80	227	2.894	745.3	2.9	330	118.7	30,143
5	9'-0"	9'-0"	8"	7"	194	#5	5"	48'- 3"	9,763	194	#5	5"	17'- 0"	3,440	10'- 2"	2,057	194	#6	5"	37'- 7"	10,951	60	9"	39'-9"	1,593	191	39'-9"	5,072	56	9'- 0"	337	216	4'- 8"	673	19'- 2"	2,766	48'- 3"	129	100	284	3.562	916.3	3.6	413	146.1	37,065
6	9'-0"	9'-0"	8"	7"	194	#5	5"	57'-10"	11,702	194	#5	5"	17'- 0"	3,440	10'- 2"	2,057	194	#6	5"	47'- 2"	13,744	72	9"	39'-9"	1,912	226	39'-9"	6,001	56	9'- 0"	337	270	4'- 8"	842	19'- 2"	3,457	57'-10"	155	118	335	4.229	1,087.3	4.3	490	173.5	43,982

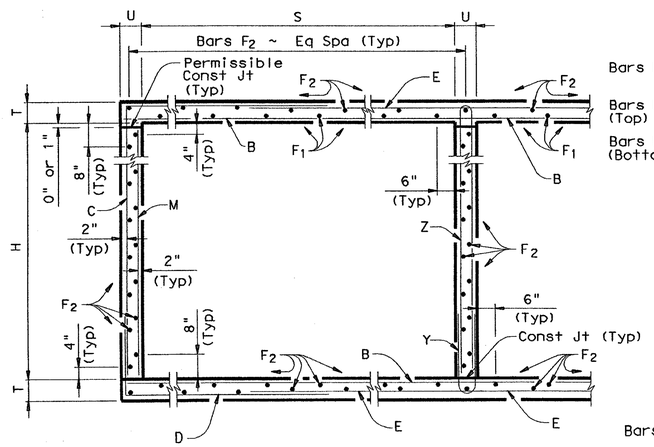
H	Bar Dimensions	
	"X"	"Y"
5'-0"	5'-6"	2'- 3"
6'-0"	6'-6"	2'- 3"
7'-0"	7'-6"	2'- 8"
8'-0"	8'-6"	2'- 8"
9'-0"	9'-6"	2'- 8"



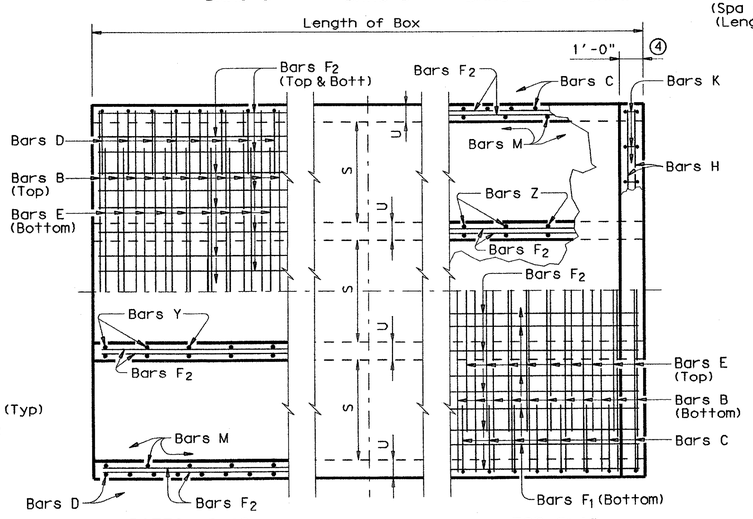
SECTION THRU CURB



BARS C BARS D BARS Z BARS Y BARS K ~ #4 (Spa = 1'-0" Max) (Length = 4'-3")



TYPICAL SECTION



BOTTOM SLAB PART PLANS TOP SLAB

GENERAL NOTES:

Designed according to current AASHTO Standard and Interim Specifications.
Designed to the maximum fill height shown.
All reinforcing steel shall be Grade 60.
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.
Class "C" concrete shall have a minimum compressive strength of 3600 psi.
Class "S" concrete shall have a minimum compressive strength of 4000 psi.
The bottom edge of the top slab shall be chamfered 3" at the entrance.
Reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option. If this option is used, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.
See standard MC-MD for skewed ends, angle sections and lengthening details.

① 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures without railing and curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with bridge rail, other than T6, refer to RAC standard.

② For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.

Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.

④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

HS20 LOADING

Texas Department of Transportation
Bridge Division

MULTIPLE BOX CULVERTS CAST-IN-PLACE 9'-0" SPAN 0' TO 10' FILL

MC-9-10

FILE: mc910ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT December 2003	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY		CONTROL SECT JOB	HIGHWAY

LEVELS DISPLAYED ACC:

TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

Dimensions					Variable Reinforcing				Estimated ④ Quantities per ft of wing (2~Wings)		Estimated Quantities per ft of Toewall (1~Toewall)	
					Bars J1		Bars J2					
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	43.13	0.406	6.85	0.071
2'-9"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	43.80	0.424	6.85	0.071
3'-0"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	44.47	0.444	6.85	0.071
3'-3"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	47.81	0.462	6.85	0.071
3'-6"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	48.48	0.480	6.85	0.071
4'-0"	3'- 2"	1'- 2"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	50.26	0.532	6.85	0.071
4'-6"	3'- 2"	1'- 2"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	54.27	0.568	6.85	0.071
5'-0"	3'- 9"	1'- 7"	1'- 2"	7"	#4	1'-0"	#4	1'-0"	57.94	0.632	6.96	0.075
5'-6"	3'- 9"	1'- 7"	1'- 2"	7"	#4	1'-0"	#4	1'-0"	61.95	0.668	6.96	0.075
6'-0"	4'- 4"	2'- 0"	1'- 4"	7"	#5	1'-0"	#5	1'-0"	75.16	0.730	7.07	0.078
6'-6"	4'- 4"	2'- 0"	1'- 4"	7"	#5	1'-0"	#5	1'-0"	79.54	0.768	7.07	0.078
7'-0"	5'- 0"	2'- 3"	1'- 9"	8"	#5	1'-0"	#5	1'-0"	86.65	0.864	8.07	0.093
7'-6"	5'- 0"	2'- 3"	1'- 9"	8"	#5	1'-0"	#5	1'-0"	91.03	0.902	8.07	0.093
8'-0"	5'- 6"	2'- 8"	1'-10"	8"	#5	6"	#5	6"	133.54	0.962	8.13	0.095
8'-6"	5'- 6"	2'- 8"	1'-10"	8"	#5	6"	#5	6"	138.96	1.000	8.13	0.095
9'-6"	6'- 0"	2'-10"	2'- 2"	9"	#5	6"	#5	6"	151.43	1.136	8.41	0.110
10'-6"	6'- 5"	3'- 0"	2'- 5"	9"	#6	6"	#5	6"	190.76	1.234	8.57	0.117
11'-6"	7'- 2"	3'- 6"	2'- 8"	11"	#6	6"	#6	6"	224.62	1.438	9.52	0.140
12'-6"	7'- 8"	3'- 9"	2'-11"	1'- 0"	#7	6"	#6	6"	277.90	1.592	9.74	0.157
13'-6"	8'- 2"	4'- 0"	3'- 2"	1'- 2"	#8	6"	#6	6"	343.21	1.804	10.02	0.186
14'-6"	8'-10"	4'- 5"	3'- 5"	1'- 4"	#9	6"	#6	6"	427.43	2.046	10.30	0.218
15'-6"	9'- 6"	4'-10"	3'- 8"	1'- 6"	#9	6"	#7	6"	484.01	2.302	11.24	0.253
16'-0"	9'-11"	5'- 0"	3'-11"	1'- 7"	#9	6"	#7	6"	500.21	2.448	11.47	0.279

TABLE OF WINGWALL REINFORCING (2~Wings)

Bar	Size	No.	Spa
D1	#5	~	1'-0"
D2	#5	~	1'-0"
E1	#4	~	1'-0"
F	#4	~	1'-0"
G	#5	~	1'-0"
M1	#4	4	~
P	#4	~	1'-0"
V	#4	~	1'-0"

TABLE OF TOEWALL REINFORCING

Bar	Size	No	Spa
J3	#4	~	1'-0"
M2	#4	2	~
E2	#4	~	1'-0"

WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

Hw = H + T + C

Lw = (Hw) (SL) ÷ Cosine (ϕ)

For Cast-in-place culverts:

Ltw = [(N) (S) + (N + 1) (U)] ÷ (Cosine ϕ)

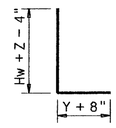
For Precast culverts:

Ltw = [(N) (2 U + S) + (N − 1) (0.5')] ÷ (Cosine ϕ)

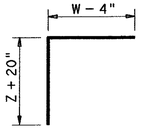
Total Wingwall Area (Two Wings ~ S.F.) = (2) (Hw) (Lw)

Hw = Height of Wingwall
Lw = Length of Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans
SL:1 = Channel Slope ratio. (Horizontal: 1 Vertical, Usual value is 2:1)
ϕ = Culvert Skew

See applicable box culvert standard for S, H, T and U values.



BARS J1



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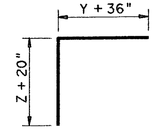

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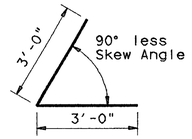

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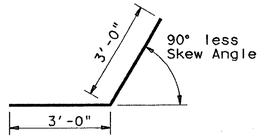

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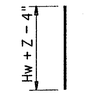
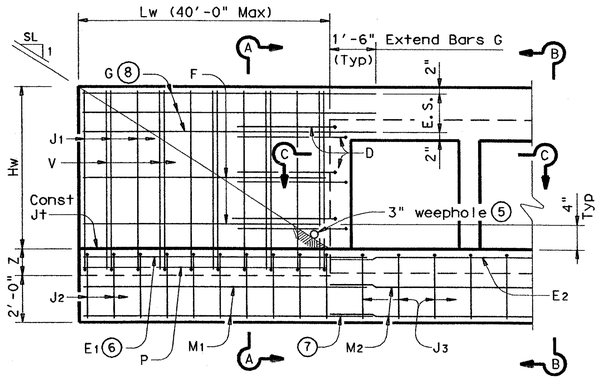
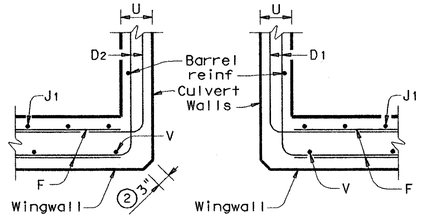


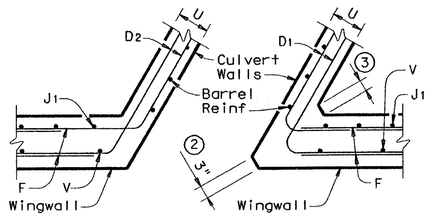
BARS V



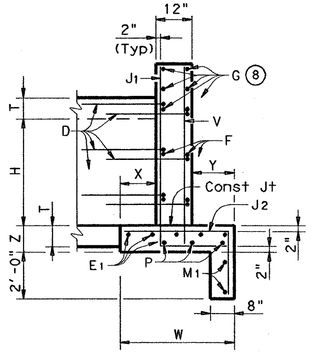
PARTIAL ELEVATION



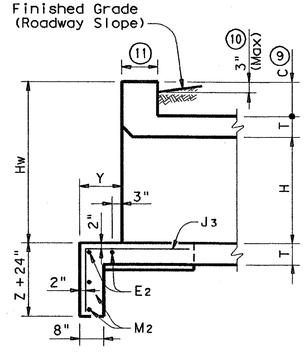
SECTION C-C



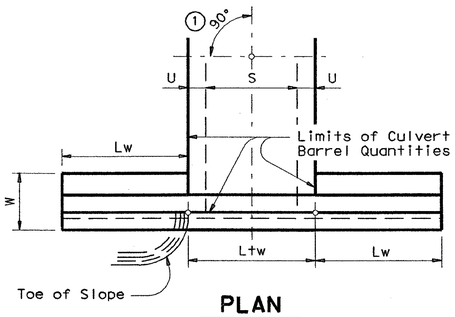
SECTION C-C



SECTION A-A
(Showing Wing Reinf)

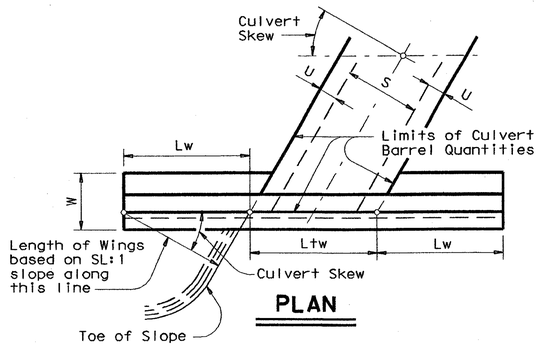


SECTION B-B
(Showing Toewall Reinf)



PLAN

DETAILS FOR NON-SKEWED BOX CULVERTS



PLAN

DETAILS FOR SKEWED BOX CULVERTS
(Showing 30° Skew)

(1) Skew Angle = 0°
(2) At discharge end, chamfer may be ¾".
(3) For 15° Skew ~ 1"
For 30° Skew ~ 2"
For 45° Skew ~ 3"
(4) Quantities shown are for two wings. To determine total quantities for two wings, multiply the tabulated values by Lw.
(5) Provide weepholes for Hw = 5'-0" and greater. Fill around weepholes with coarse gravel.
(6) Extend Bars E1 1'-6" minimum into the bottom slab of the culvert.
(7) Lap Bars M1 1'-6" minimum with Bars M2.
(8) Bars G shall be equally spaced at 1'-0" maximum, placed as shown. There shall be at least 4 Bars G per wing.
(9) 0" min to 5'-0" max. For T6 or C6 Rail, see T6-CM standard for additional details. For all other rail types, refer to the RAC standard. For curbs without rail and greater than 1'-0" high, see ECD standard for additional details. Estimated curb heights are shown elsewhere in the plans.
(10) For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.
Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
(11) 1'-0" typical. 2'-0" typical when RAC standard is referenced elsewhere in the plans.

GENERAL NOTES:

Designed according to current AASHTO Standard and Interim Specifications.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.

When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.

See BCS sheet for additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

ACC:
LEVELS DISPLAYED

Texas Department of Transportation
Bridge Division

CONCRETE WINGWALLS
WITH PARALLEL WINGS FOR FOR SKEWED AND NON-SKEWED BOX CULVERTS

PW

FILE: pwstde01.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
©TxDOT December 2003	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

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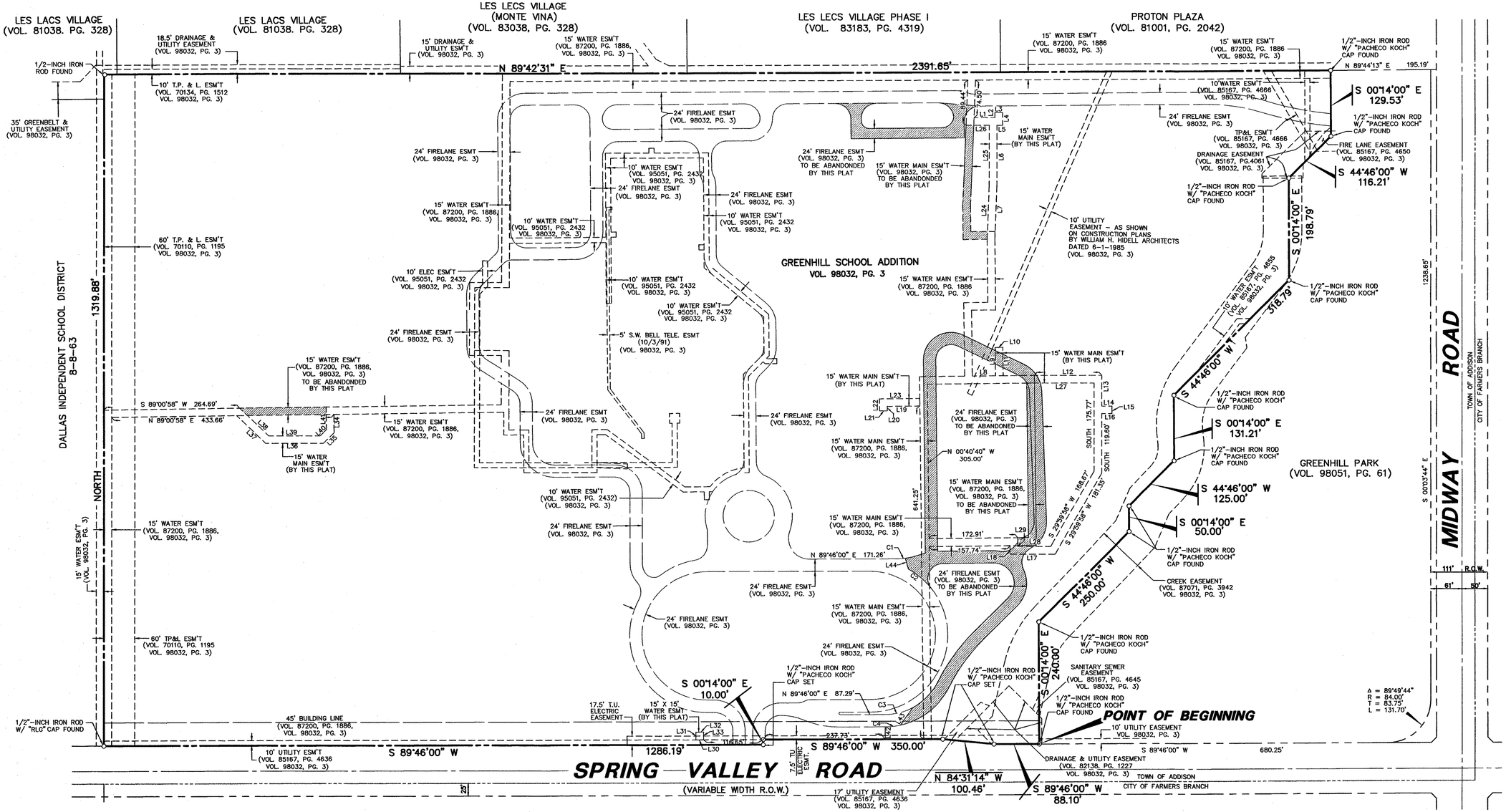

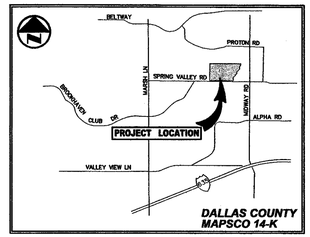

VICINITY MAP
(NOT TO SCALE)

0 50 100 200 300
GRAPHIC SCALE IN FEET

LINE TABLE

LINE	BEARING	LENGTH
L1	N 90°00'00" E	40.59
L2	N 00°00'00" W	10.07
L3	S 90°00'00" E	15.00
L4	S 00°00'00" E	25.07
L5	S 90°00'00" W	10.92
L6	S 00°00'00" E	119.71
L7	S 01°59'53" W	103.97
L8	N 89°19'20" E	45.20
L9	N 00°40'40" W	56.27
L10	N 89°19'20" E	15.00
L11	S 00°40'40" E	56.27
L12	N 90°00'00" E	131.51
L13	S 00°00'00" E	60.28
L14	S 90°00'00" E	19.67
L15	S 00°00'00" E	15.00
L16	N 90°00'00" W	19.67
L17	S 90°00'00" W	88.14
L18	N 90°00'00" W	16.35
L19	S 89°19'20" W	63.54
L20	S 00°40'40" E	8.87
L21	S 89°19'20" W	15.00
L22	N 00°40'40" W	23.87
L23	N 89°19'20" E	78.54
L24	N 01°59'53" E	103.71
L25	N 00°00'00" W	119.13
L26	S 90°00'00" W	45.27
L27	N 90°00'00" E	116.34
L28	S 90°00'00" W	64.48
L29	S 00°00'00" W	16.53
L30	S 89°46'00" W	15.00
L31	N 00°00'00" E	15.00
L32	N 89°46'00" E	15.00
L33	S 00°00'00" W	15.00
L34	S 00°18'11" E	37.27
L35	S 44°41'49" W	29.81
L36	S 89°41'49" W	112.84
L37	N 45°18'11" W	79.33
L38	S 45°18'11" E	79.43
L39	N 89°41'49" E	100.41
L40	N 44°41'49" E	17.38
L41	N 00°18'11" W	45.88
L42	N 00°00'14" W	24.02
L43	S 35°28'31" W	42.11
L44	S 15°06'42" E	21.62

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C1	7°33'41"	126.00	16.63	8.33	N 85°59'10" E	16.62
C2	22°10'30"	151.50	58.63	29.69	N 49°31'39" W	58.27
C3	27°44'40"	115.50	55.93	28.52	N 75°53'40" E	55.38
C4	12°04'46"	139.50	29.41	14.76	S 83°43'37" W	29.36

NOTE:

1. *Bearing system for this survey is based on the Greenhill School Addition, an addition to the Town of Addison according to the replat recorded in Volume 95051, Page 2432 of the Deed Records of Dallas County, Texas.*

APPROVED BY THE ADDISON TOWN COUNCIL ON THE _____ DAY OF _____, 2004.

MAYOR

CITY SECRETARY

SHEET 1 OF 2

REPLAT

OF THE

GREENHILL SCHOOL ADDITION

AN ADDITION TO THE TOWN OF ADDISON, TEXAS
AND BEING OUT OF THE
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO 273
DALLAS COUNTY, TEXAS

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
CMW	JAK	1"=100'	03/17/04	1082-03.024

DWG FILE: 1082-03-024RP.DWG
XREF FILE: FS.DWG

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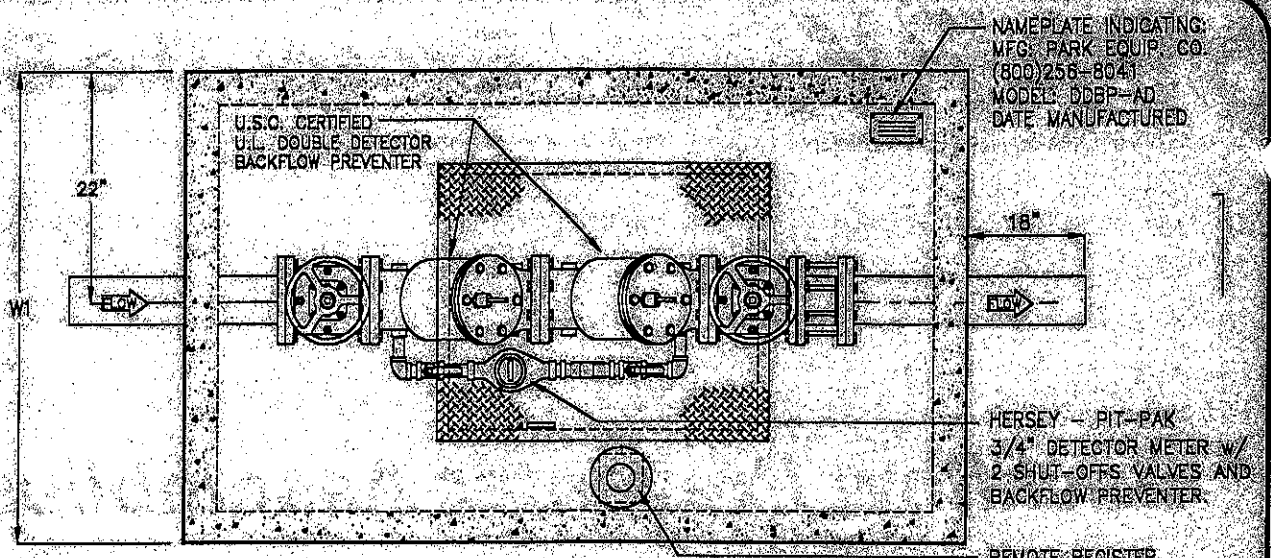
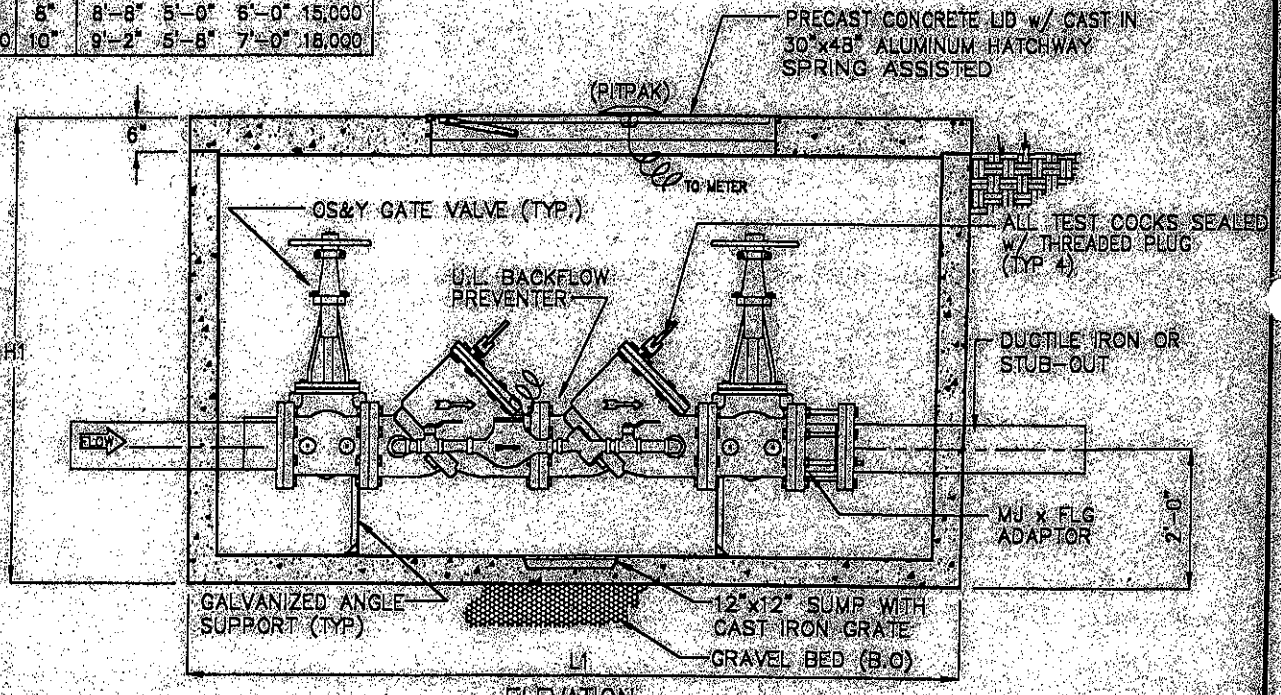


PLAN VIEW

MODEL	SIZE	L1	W1	H1	WEIGHT LBS.
DDBP-AD4	4"	7'-10"	4'-4"	6'-0"	9,000
DDBP-AD6	6"	7'-10"	4'-4"	6'-0"	9,200
DDBP-AD8	8"	8'-8"	5'-0"	6'-0"	15,000
DDBP-AD10	10"	9'-2"	5'-8"	7'-0"	18,000



ELEVATION

Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: 1/4" Aluminum diamond plate cover, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & hinges.

Engineering Data

The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA

PROJECT :

CUSTOMER :

ENGINEER :

PARK EQUIPMENT COMPANY

WATS 800-256-8041

TOWN OF ADDISON

4" THRU 10" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ASSEMBLY

SCALE	NONE	DWG. NO.	REV.
DATE	8/97	DDBP-AD	A

OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF DALLAS

WHEREAS, GREENHILL SCHOOL, a Texas Corporation, is the owner of a tract of land situated in the Thomas L. Chenoweth Survey, Abstract No. 273, Town of Addison, Dallas County, Texas; said tract being a part of a 83.97 acre tract of land conveyed to said Greenhill School as recorded in Volume 5320, Page 453 of the Deed Records, Dallas County, Texas, and being all of the Greenhill School Addition, an addition to the Town of Addison, Texas according to the amended plat thereof recorded in Volume 98032, Page 3 of the Deed Records of Dallas County, Texas; said 63.845 acre tract being more particularly described as follows:

BEGINNING, at a 1/2-inch iron rod with "Pacheco Koch" cap found for corner in the north right-of-way line of Spring Valley Road (A variable width right-of-way); said point also being the most southwesterly corner of the Greenhill Park, an addition to the Town of Addison as recorded in Volume 98051, Page 61 of the Deed Records of Dallas County, Texas;

THENCE, along said north line of Spring Valley Road the following five (5) calls;

South 89 degrees, 46 minutes, 00 seconds West, a distance of 88.10 feet to a 1/2-inch iron rod with "Pacheco Koch" cap set at an angle point;

North 84 degrees, 31 minutes, 14 seconds West, a distance of 100.46 feet to a 1/2-inch iron rod with "Pacheco Koch" cap set at an angle point:

South 89 degrees, 46 minutes, 00 seconds West, a distance of 350.00 feet to a 1/2-inch iron rod with "Pacheco Koch" cap set for corner;

South 00 degrees, 14 minutes, 00 seconds East, a distance of 10.00 feet to a 1/2-inch iron rod with "Pacheco Koch" cap set for corner;

South 89 degrees, 46 minutes, 00 seconds West, a distance of 1286.19 feet to a 1/2-inch iron rod with "RLG" cap found for corner; said point also being the most the most southeasterly corner of a tract of land conveyed to the Dallas Independent School District on August 8, 1963 as recorded in the Deed Records, Dallas County, Texas;

THENCE, due North along a line with the said Dallas Independent School District tract, a distance of 1,319.88 feet to a 1/2-inch iron rod found for corner in the southerly line of a tract of land conveyed to Les Lacs Village as recorded in Volume 81038, Page 328 of the Deed Records, Dallas County, Texas;

THENCE, North 89 degrees, 42 minutes, 31 seconds East, along the southerly line of said Les Lacs Village Tract, passing at 1,138.55 feet the southwesterly corner of Les Lacs Village Phase 1, an addition to the Town of Addison as recorded in Volume 83183, Page 4319 of the Deed Records, Dallas County, Texas; passing at 1,749.60 feet the southwesterly corner of Proton Plaza, an addition to the Town of Addison, Texas as recorded in Volume 81001, Page 2042, Deed Records, Dallas County, Texas, in all a total distance of 2,391.65 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found for corner; said point also being the most northwesterly corner of said Greenhill Park;

THENCE, South 00 degrees, 14 minutes, 00 seconds East, along the westerly common line of said Greenhill Park, a distance of 129.53 feet to a point;

THENCE, South 44 degrees, 46 minutes, 00 seconds West, continuing along said common line, a distance of 116.21 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 00 degrees, 14 minutes, 00 seconds East, continuing along said common line, a distance of 198.79 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 44 degrees, 46 minutes, 00 seconds West, continuing along said common line, a distance of 318.79 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 00 degrees, 14 minutes, 00 seconds East, continuing along said common line, a distance of 131.21 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 44 degrees, 46 minutes, 00 seconds West, continuing along said common line, a distance of 125.00 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 00 degrees, 14 minutes, 00 seconds East, continuing along said common line, a distance of 50.00 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 44 degrees, 46 minutes, 00 seconds West, continuing along said common line, a distance of 250.00 feet to a 1/2-inch iron rod with "Pacheco Koch" cap found;

THENCE, South 00 degrees, 14 minutes, 00 seconds East, continuing along said common line, a distance of 240.00 feet to the POINT OF BEGINNING; CONTAINING, 2,781,125 square feet or 63.845 acres of land, more or less.

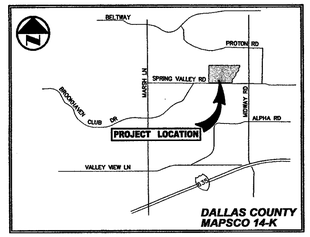
That GREENHILL SCHOOL, a Texas Corporation, ("Owner") does hereby adopt this plat designating the hereinabove property as Greenhill School, an addition to the Town of Addison, Texas, and, subject to the conditions, restrictions and reservations stated hereinafter, owner dedicates to the public use forever the streets and alleys shown hereon.

The easements shown on this plat are hereby reserved for the purposes as indicated, including, but not limited to, the installation and maintenance of water, sanitary sewer, storm sewer, drainage, electric, telephone, gas and cable television. Owner shall have the right to use the easements, provided however, that it does not unreasonably interfere or impede with the provision of the services to others. Said utility accommodation of all public utilities using or desiring to use the same. An express easement of ingress and egress is hereby expressly granted on, over and across all such easements for the benefit of the provider of services for which easements are granted.

Any drainage and floodway easement shown hereon is hereby dedicated to the public's use forever, but including the following covenants with regards to maintenance responsibilities. The existing channels or creeks traversing the drainage and floodway easement will remain as an open channel, unless required to be enclosed by ordinance, at all times and shall be maintained by the individual owners of the lot or lots that are traversed by or adjacent to the drainage and floodway easement. The Town will not be responsible for the maintenance and operation of said creek or creeks or for nay damage or injury of private property or person that results from the flow of water along said creek, or for the control of erosion. No obstruction to the natural flow of water run-off shall be permitted by construction of any type building, fence or any other structure within the drainage and floodway easement. Provided, however, it is understood that in the event it becomes necessary for the Town to channelize or consider erecting any type of drainage structure in order to improve the storm drainage, then in such event, the Town shall have the right, but not the obligation, to enter upon the drainage and floodway easement at any point, or points, with all rights of ingress and egress to investigate, survey, erect, construct or maintain any drainage facility deemed necessary by the Town for drainage purposes. Each property owner shall keep the natural drainage channels and creeks traversing the drainage and floodway easement adjacent to his property clean and free of debris, silt, growth, vegetation, weeds, rubbish, refuse, matter and any substance which would result in unsanitary conditions or obstruct the flow of water, and the Town shall have the right of ingress and egress for the purpose of inspection and supervision and maintenance work by the property owner to alleviate any undesirable conditions which may occur. The natural drainage channels and creeks through the drainage and floodway easement, as in the case of all natural channels, are subject to storm water overflow and natural bank erosion to an extent that cannot be definitely defined. The Town shall not be held liable for any damages or injuries of any nature resulting from the occurrence of the se natural phenomena, nor resulting from the failure of any structure or structures, within the natural drainage channels, and the owners hereby agree to indemnify and hold harmless the Town from any such damages and injuries. Building areas outside the drainage and floodway easement line shall be filled to a minimum elevation as shown on the plat. The minimum floor of elevation of each lot shall be shown on the plat.

The maintenance or paving of the utility and fire lane easements is the responsibility of the property owner. All public utilities shall at all times have upon the said utility easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining and adding to or removing all or parts of its respective system without the necessity at anytime of procuring the permission of anyone. Any public utility shall have the right of ingress and egress to private property for the purpose of reading meters and any maintenance and service required or ordinarily performed by the utility. Buildings, fences, trees shrubs or other improvements or growth may be constructed, reconstructed or placed upon, over or across the utility easement as shown; provided, however, that owner shall at its sole cost and expense be responsible under any and all circumstances for the maintenance and repair of such improvements or growth, and any public utility shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs or other improvements or growth which in any way endanger or interfere with the construction, maintenance or efficiency of its respective system or service.

Water main and sanitary sewer easements shall also include additional area of working space for construction and maintenance of the systems. Additional easement area is also conveyed for installation and maintenance of manholes, cleanouts, fire hydrants, water service and sewer services from the main to curb or pavement line, and the descriptions of such additional easements herein granted shall be determined by their locations as installed.



VICINITY MAP
(NOT TO SCALE)

This plat is approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Addison, Texas.

WITNESS my hand at Dallas, Texas, this the ____ day of _____, 2004.

_____
GREENHILL SCHOOL

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this ____ day of _____, 2004.

My commission expires:

_____
Notary Public in and for Dallas County, Texas

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT I, JAMES A. KOCH, JR., Registered Professional Land Surveyor, do hereby certify that this plat was prepared from an actual and accurate survey of the land made on the ground and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with the platting rules and regulations of the Town of Addison, Texas.

STATE OF TEXAS · REGISTERED · JAMES A. KOCH, JR. · 4688 · PROFESSIONAL LAND SURVEYOR

RELEASED 03/26/04 FOR REVIEW PURPOSES ONLY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE.

_____
James A. Koch, Jr.
Registered Professional Land Surveyor
No. 4688

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared James A. Koch, Jr., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this ____ day of _____, 2004.

My commission expires:

_____
Notary Public in and for Dallas County, Texas

SHEET 2 OF 2

REPLAT

OF THE

GREENHILL SCHOOL ADDITION

AN ADDITION TO THE TOWN OF ADDISON, TEXAS
AND BEING OUT OF THE
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO 273
DALLAS COUNTY, TEXAS

Pacheco Koch Consulting Engineers
8350 N CENTRAL EXPWY SUITE 1000 DALLAS, TEXAS 75206 972.235.3031

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
CMW	JAK	1"=100'	03/17/04	1082-03.024

DWG FILE: 1082-03-024RP.DWG
XREF FILE: FS.DWG

DIVEY
04/30/2004 - 2:58PM
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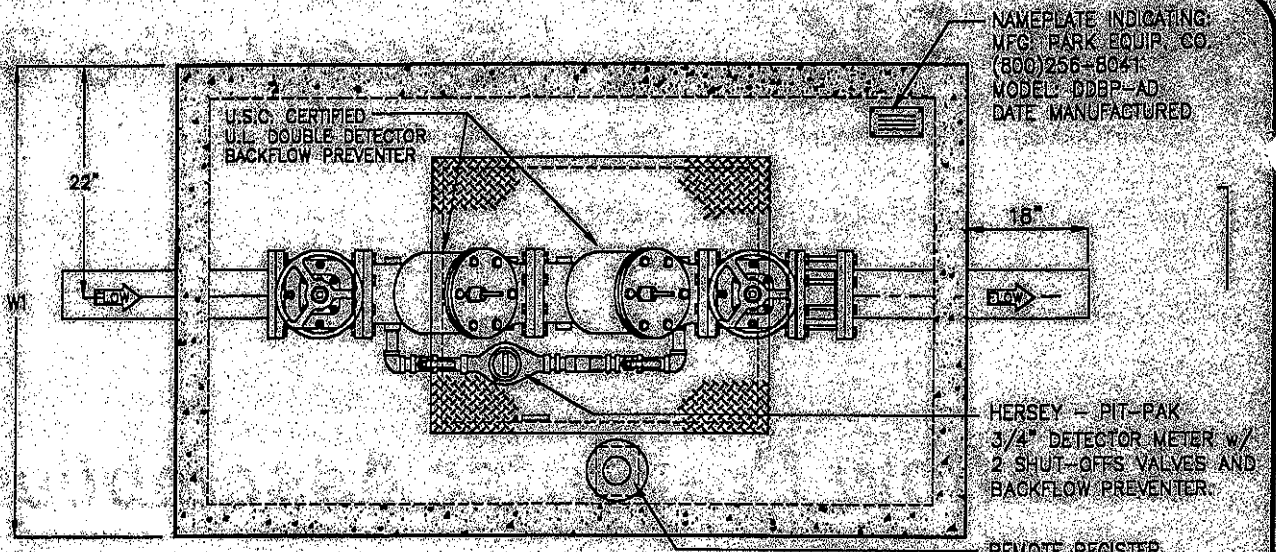
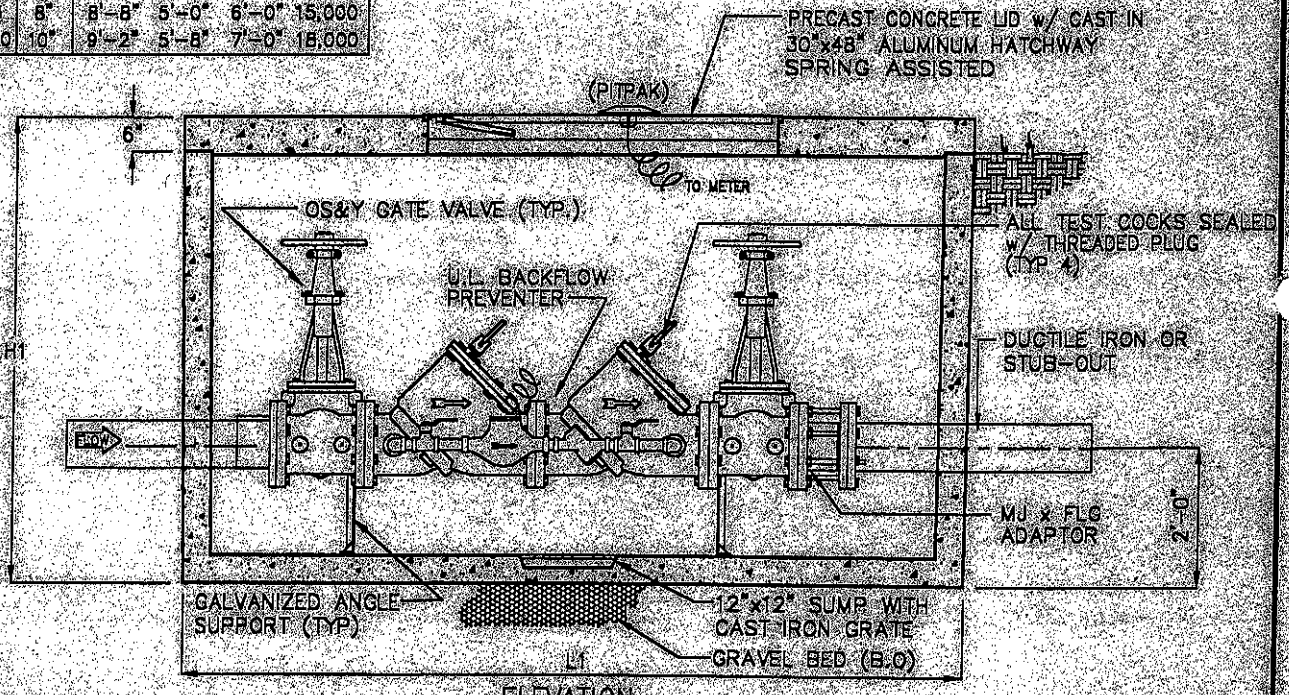


PLAN VIEW

MODEL	SIZE	L1	W1	H1	WEIGHT LBS
DDBP-AD4	4"	7'-10"	4'-4"	6'-0"	9,000
DDBP-AD6	6"	7'-10"	4'-4"	6'-0"	9,200
DDBP-AD8	8"	8'-8"	5'-0"	6'-0"	15,000
DDBP-AD10	10"	9'-2"	5'-8"	7'-0"	16,000



ELEVATION

Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: 1/4" Aluminum diamond plate cover, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & hinges.

Engineering Data

The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL USC FM

PROJECT :

CUSTOMER :

ENGINEER :

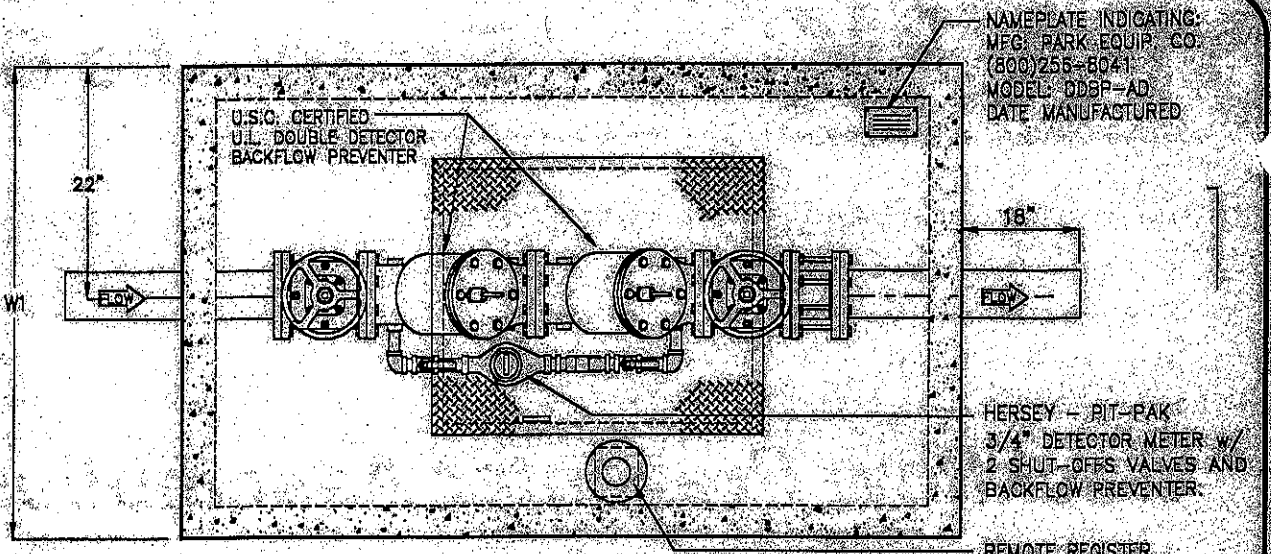
PARK EQUIPMENT COMPANY

WATS 800-256-8041

TOWN OF ADDISON

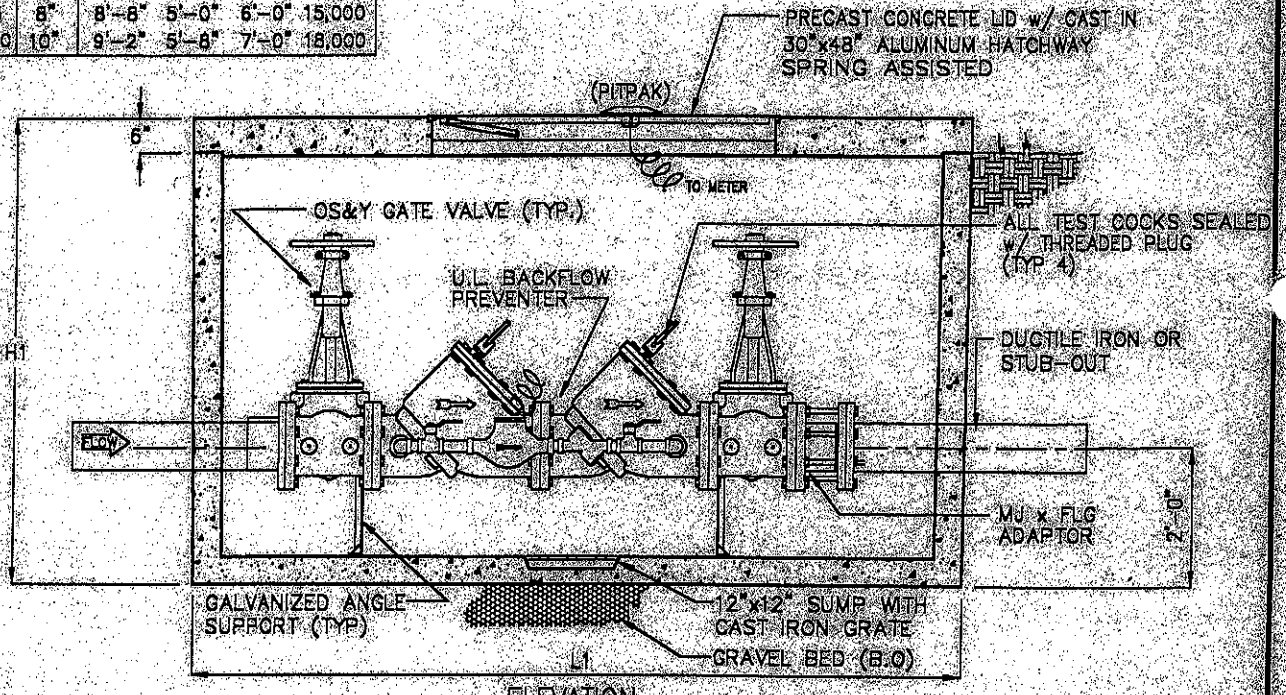
4" THRU 10" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ASSEMBLY

SCALE	NONE	DWG. NO.	REV.
DATE	8/97	DDBP-AD	A



PLAN VIEW

MODEL	SIZE	L1	W1	H1	WEIGHT LBS
DDBP-AD4	4"	7'-10"	4'-4"	6'-0"	9,000
DDBP-AD6	6"	7'-10"	4'-4"	6'-0"	9,200
DDBP-AD8	8"	8'-8"	5'-0"	6'-0"	15,000
DDBP-AD10	10"	9'-2"	5'-8"	7'-0"	18,000



ELEVATION

Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction of floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: 1/4" Aluminum diamond plate cover, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & hinges.

Engineering Data

The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA

PROJECT :

CUSTOMER :

ENGINEER :

PARK EQUIPMENT COMPANY

WATS 800-256-8041

TOWN OF ADDISON

4" THRU 10" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ASSEMBLY

SCALE	NONE	DWG. NO.	REV.
DATE	8/97	DDBP-AD	A