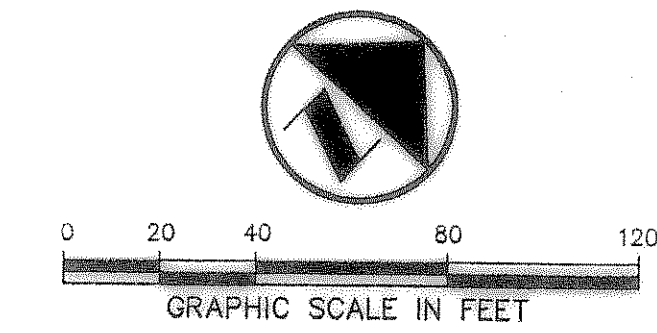
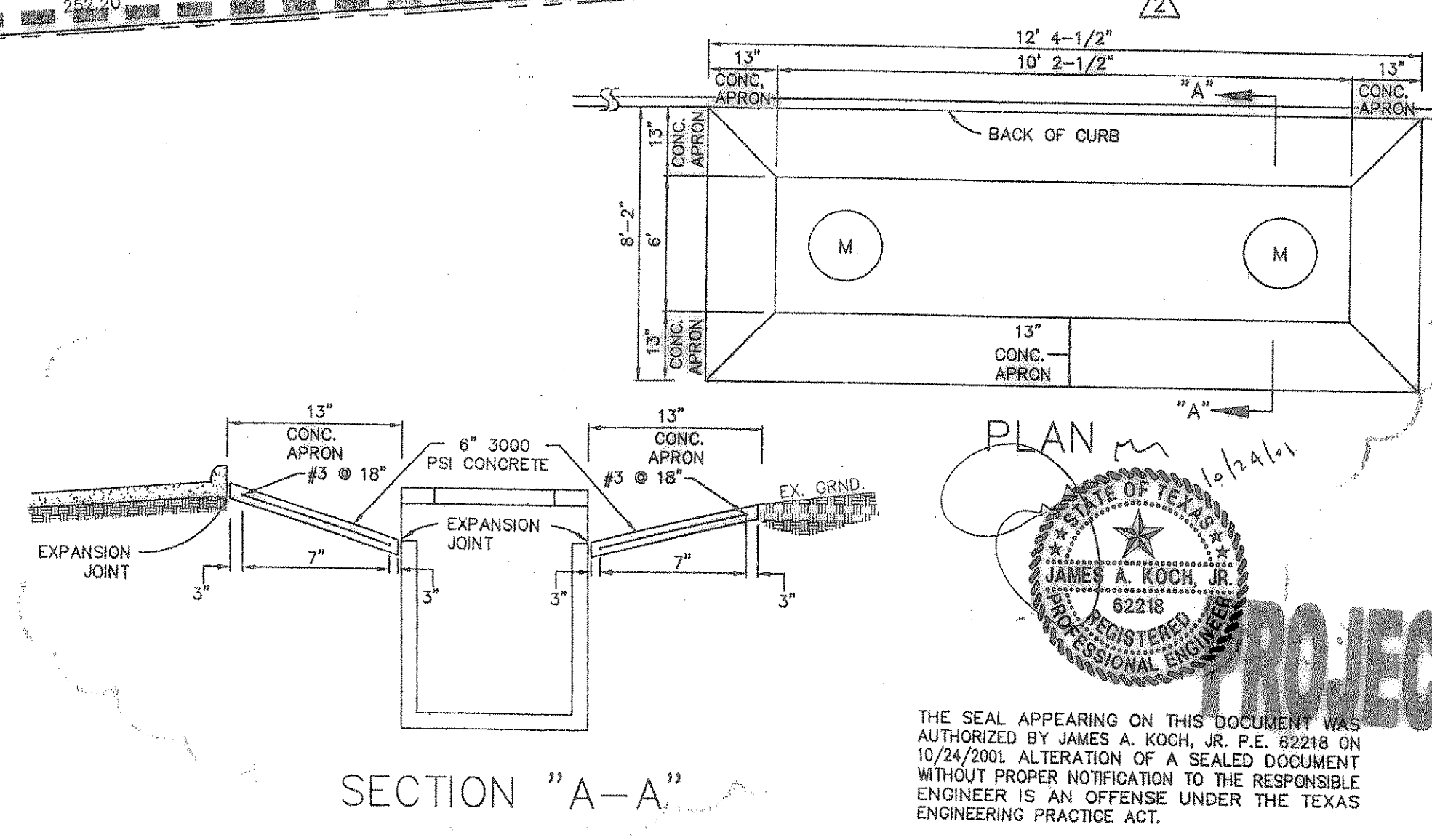


LEGEND	
B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CS	CLEANOUT
MH	MANHOLE
GM	GAS METER
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
TV	TV BOX
FP	FLAG POLE
SP	TRAFFIC SIGN
---	PROPERTY LINE
- - -	FENCE



- GRADING AND DRAINAGE GENERAL NOTES**
- REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
 - 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 AND COMPACTED BY SHEEPS FOOT ROLLER.
 - ALL WALKS TO HAVE A MAXIMUM CROSS SLOPE OF 2%.
 - GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
 - 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.
 - UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OR APPROVED EQUAL.
 - REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
 - ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
 - TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 6.2.10. AND SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH NCTCOG ITEM 8.2.9 TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE SHOWN OR STATED IN THE STANDARD CITY SPECIFICATIONS.
 - EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 8.2.9 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS. THERE SHALL BE NO SAND OR GRANULAR MATERIAL ABOVE ROCK EMBEDMENT.
 - A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
 - ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 7.4.5, CLASS "F" 4,200 PSI, UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS. (NO FLY ASH IN STRUCTURES)
 - 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.
 - IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.
 - SEE STRUCTURAL FOR RETAINING WALL DETAILS.
 - CONCRETE FOR FIRELANE TO BE CLASS "C" OR "S" MIN. FOR MACHINE FINISH, 6.5" SACK FOR HAND FINISH (3,600 PSI)

STORM SEWER CALCULATIONS						
LINE	SIZE	Q ₁₀₀ (cfs)	C (cfs)	V (fps)	V ² /2g	S _f
LINE "A" (4+97.66-5+33.40)	2-39"	147.74	155.78	8.90	1.23	0.008005
LINE "A" (5+30.40-6+56.79)	2-39"	143.68	155.78	8.66	1.17	0.007571
LINE "A" (6+56.79-7+45.63)	2-39"	142.58	155.78	8.59	1.15	0.007455
LINE "A" (7+45.63-8+43.80)	2-39"	139.20	155.78	8.39	1.09	0.007106
LINE "A1" (0+00-0+33.41)	18"	4.06	28.09	2.30	0.08	0.001494
LINE "A2" (0+00-6+56.79)	18"	1.10	52.55	0.62	0.01	0.000110
LINE "A3" (0+00-0+16)	18"	3.38	31.07	1.91	0.06	0.001035
LINE "ST-2.1" (0+00-1+16.92)	18"	6.87	4.70	3.89	0.23	0.004278
LINE "ST-2.2" (0+00-0+96.30)	21"	10.38	7.09	4.32	0.29	0.004292
LINE "ST-1.5" (0+00-0+58.51)	48"	90.45	143.64	7.20	0.81	0.003965



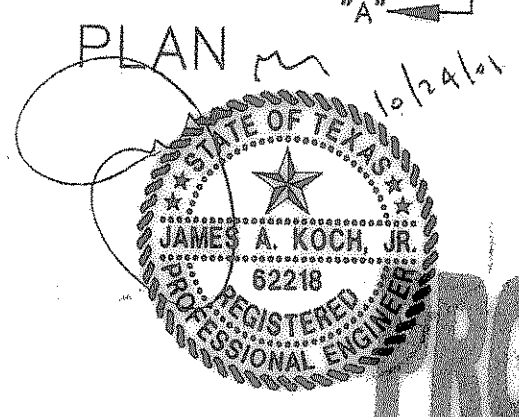
BENCHMARKS		
BM 1	FOUND RAIL ROAD SPIKE IN POWER POLE @ SOUTHWEST ENTRANCE TO LAKESIDE CHEVROLET	ELEV=560.81
BM 2	TOP OF EXISTING WET WELL OF LIFT STATION ON NORTH SIDE OF GRADY ADDITION	ELEV=561.10
BM 3	SET "4" CUT ON CONCRETE OF MOTEL DRIVE @ SOUTHEAST CORNER OF LAKESIDE CHEVROLET PROPERTY	ELEV=571.35
BM 4	SET "2" CUT SOUTHEAST OF CONCRETE PAD OF GRATE INLET 200'± EAST OF NORTHEAST CORNER OF INTERSECTION SH 205 AND IH 30 AT NORTH SIDE OF IH 30	ELEV=558.43

REVISED 05/13/2002 REVISED INLET
 REVISED 11/09/2001

Pacheco Koch Consulting Engineers
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DRAINAGE PLAN
LAKESIDE CHEVROLET
 2005 SOUTH GOLIAD STREET
 JOSEPH CADLE SURVEY, ABST NO.65
 CITY OF ROCKWALL, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJE	RRL	AUG. 28 2001	1"=40'			C4.0



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