HYDROLOGY K11/D5 3 PLANS

K11/D5

3 Plans

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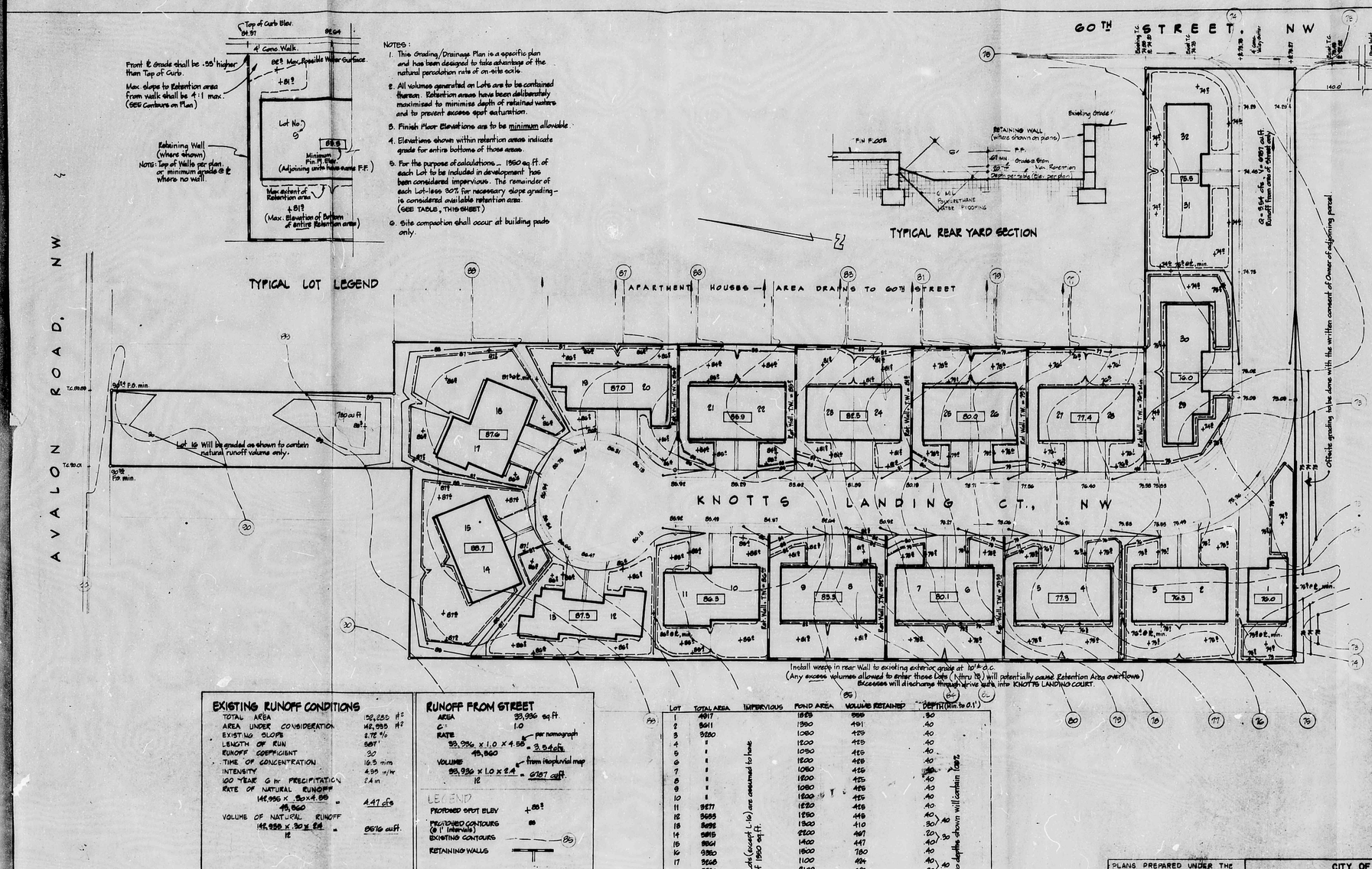
CITY OF ALBUQUERQUE



EXISTING RUNOFF CONDITIONS

TOTAL AREA	52,255 ft²
AREA UNDER CONSIDERATION	48,955 ft²
EXISTING SLOPE	2.78 %
LENGTH OF RUN	587'
RUNOFF COEFFICIENT	.30
TIME OF CONCENTRATION	16.5 mins
INTENSITY	4.55 in/hr
100 YEAR 6 hr PRECIPITATION	2.4 in
RATE OF NATURAL RUNOFF	
48,955 x .30 x 4.55 / 12 = 49,860	4.47 cfs
VOLUME OF NATURAL RUNOFF	
48,955 x .30 x 2.4 / 12 =	6576 cu.ft.

RUNOFF FROM STREET

AREA	33,936 sq.ft.
C'	1.0
RATE	
33,936 x 1.0 x 4.55 / 49,860 =	3.04 cfs (per nomograph)
VOLUME	
33,936 x 1.0 x 2.4 / 12 =	6787 cu.ft. (from Hydrovial map)

LEGEND

PROPOSED SPOT ELEV	+85.5
PROPOSED CONTOURS (1' Intervals)	85
EXISTING CONTOURS	85
RETAINING WALLS	

LOT	TOTAL AREA	IMPERVIOUS	POND AREA	VOLUME RETAINED	DEPTH (Min. to 0.1')
1	4917	For the purposes of calculations, all Lots (except L-16) are assumed to have an impervious coverage of 1980 sq.ft.	1885	888	.50
2	5611		1980	791	.40
3	5250		1080	429	.40
4	"		1200	425	.40
5	"		1050	425	.40
6	"		1200	425	.40
7	"		1080	425	.40
8	"		1200	425	.40
9	"		1080	425	.40
10	"		1200	425	.40
11	5277		1220	425	.40
12	5685		1250	449	.40
13	5895		1320	410	.30
14	5815		2120	497	.20
15	5861		1400	447	.40
16	9350		1800	780	.40
17	3246		1100	494	.40
18	5750		2100	626	.30
19	5229		1050	421	.40
20	3045		1100	406	.40
21	5277		1050	425	.40
22	"		1100	425	.40
23	"		1050	425	.40
24	"		1100	425	.40
25	"		1050	425	.40
26	"		1050	425	.40
27	"		1050	425	.40
28	"		1100	425	.40
29	5456		1100	499	.40
30	5900		1490	474	.40
31	"		1490	474	.40
32	5700		1800	499	.40

Retention areas constructed to depths shown will contain 100% of site runoff per Lot.

PLANS PREPARED UNDER THE DIRECTION OF:

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GRADING / DRAINAGE PLAN
PATLILLY SUBDIVISION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design			Traffic		11/5/81
A.C.E.- Hydrology			Water		11/5/81

DRAWING NO. C-29-425 SHEET 3 OF 9

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
G-21 @ Intersection of 60th & Central
Avalon Road, NW
'X' chiseled in Top of Curb @ SGW return.
Elev. = 5489.246

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
STAKES CHECKED BY DATE
ACCEPTANCE BY DATE
INSPECTOR
VERIFICATION BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

REFERENCES
MAP NO. K-11
EST. NO. W.O. NO.

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

C-29-425

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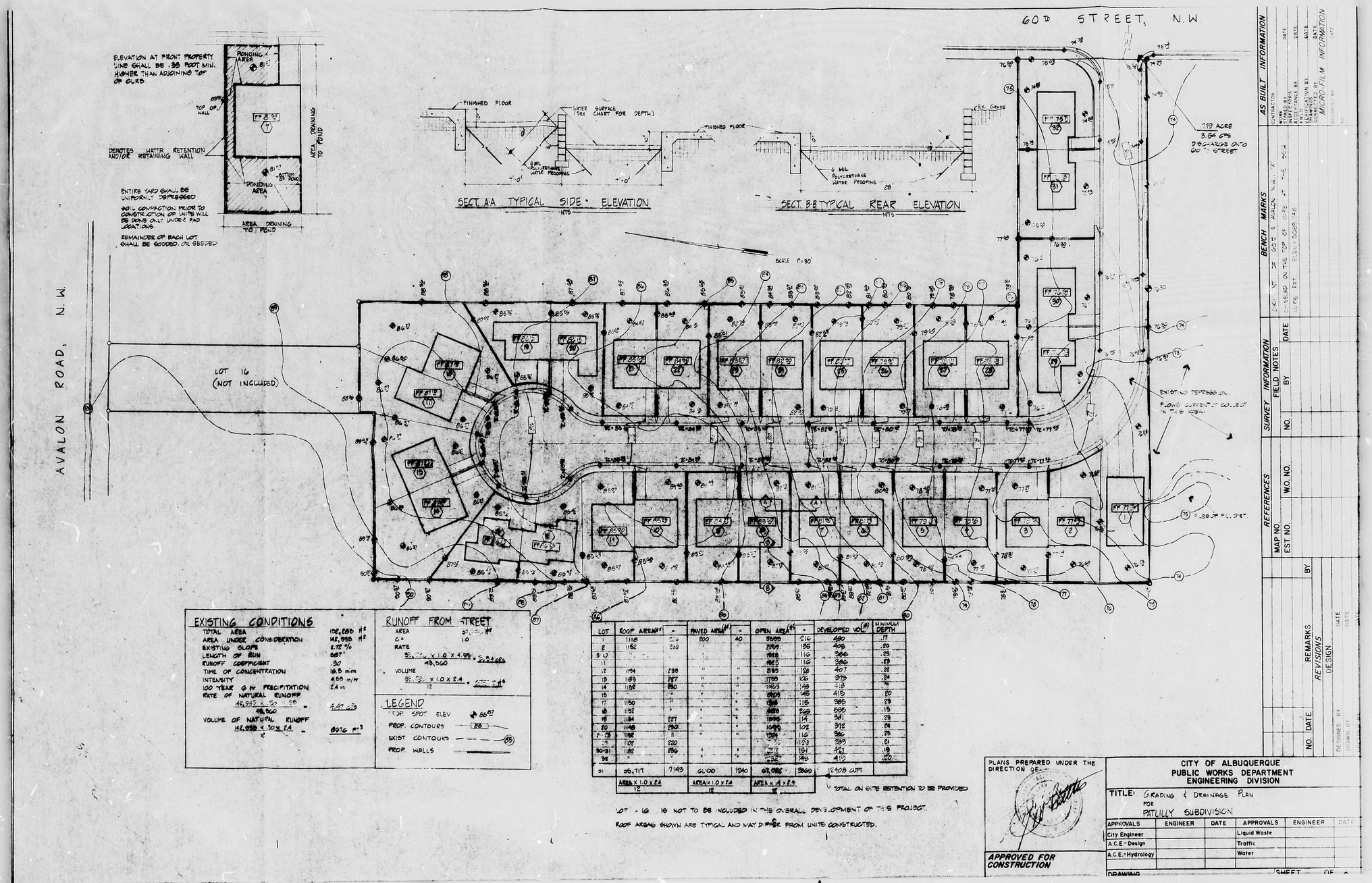

EXISTING CONDITIONS

TOTAL AREA	152,889 ft²
AREA UNDER CONSIDERATION	148,995 ft²
EXISTING SLOPE	2.72 %
LENGTH OF RUN	587'
RUNOFF COEFFICIENT	.30
TIME OF CONCENTRATION	16.5 mins
INTENSITY	4.85 in/hr
100 YEAR 6 hr PRECIPITATION	2.4 in
RATE OF NATURAL RUNOFF = 148,995 x .30 x 4.85 / 43,560	4.97 cfs
VOLUME OF NATURAL RUNOFF = 148,995 x .30 x 2.4 / 12	8876 ft³

RUNOFF FROM STREET

AREA 85,[illegible] ft²

C = 1.0

RATE

85,[illegible] x 1.0 x 4.85 / 43,560 = 2.54 cfs

VOLUME

85,[illegible] x 1.0 x 2.4 / 12 = [illegible] ft³

LEGEND

TOP SPOT ELEV	86.97
PROP. CONTOURS	88
EXIST CONTOURS	85
PROP. WALLS	

LOT	ROOF AREA(ft²)	C	PAVED AREA(ft²)	C	OPEN AREA(ft²)	C	DEVELOPED VOL.(ft³)	MINIMUM DEPTH
1	1118	.90	200	.90	2509	.216	480	.17
2	1152	.90	"	"	2209	.156	405	.20
3-10	"	"	"	"	1968	.116	386	.25
11	"	"	"	"	1965	.116	386	.23
12	1194	.90	"	"	2150	.126	407	.22
13	1185	.90	"	"	1789	.106	370	.24
14	1158	.90	"	"	1943	.146	418	.22
15	"	"	"	"	2108	.146	415	.20
17	1150	"	"	"	1968	.116	385	.23
18	1152	"	"	"	2478	.156	535	.15
19	1184	.90	"	"	1895	.114	381	.23
20	1148	.90	"	"	1695	.102	372	.24
21-23	1182	"	"	"	1934	.116	386	.23
24	1129	.90	"	"	2172	.123	339	.21
25-31	1182	.90	"	"	2672	.151	421	.19
32	"	"	"	"	2352	.146	410	.20
51	25,717	.7149	6,000	.1040	67,082	.3960	12408 cuft	
	AREA x 1.0 x 2.4 / 12		AREA x 1.0 x 2.4 / 12		AREA x .4 x 2.4 / 12			

TOTAL ON SITE RETENTION TO BE PROVIDED

LOT - 16 IS NOT TO BE INCLUDED IN THE OVERALL DEVELOPMENT OF THIS PROJECT.

ROOF AREAS SHOWN ARE TYPICAL AND MAY DIFFER FROM UNITS CONSTRUCTED.

PLANS PREPARED UNDER THE DIRECTION OF:

APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE
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ENGINEERING DIVISION

TITLE: GRADING & DRAINAGE PLAN FOR PATILLY SUBDIVISION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
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DRAWING SHEET OF

AS BUILT INFORMATION

CONTRACTOR DATE
WORK STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
REVISIONS BY DATE
CORRECTED BY DATE
MICROFILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

B.M. NO. 25 OF 60TH & AVALON, N.W.
ELEVATION 5589.30 ON THE TOP OF CURB AT THE S.E.C.
BUTTS REF. ELEV. 5589.48

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE

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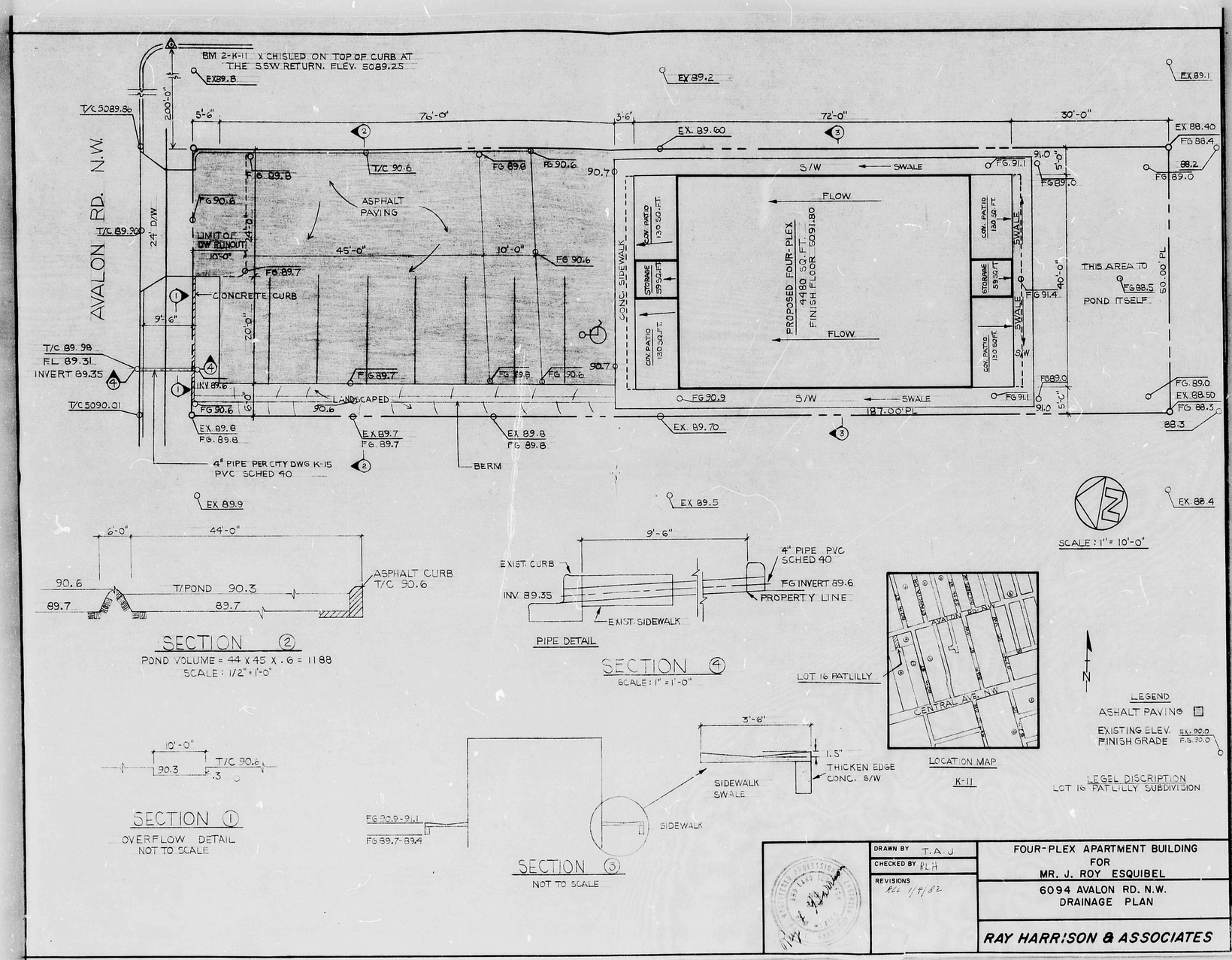

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