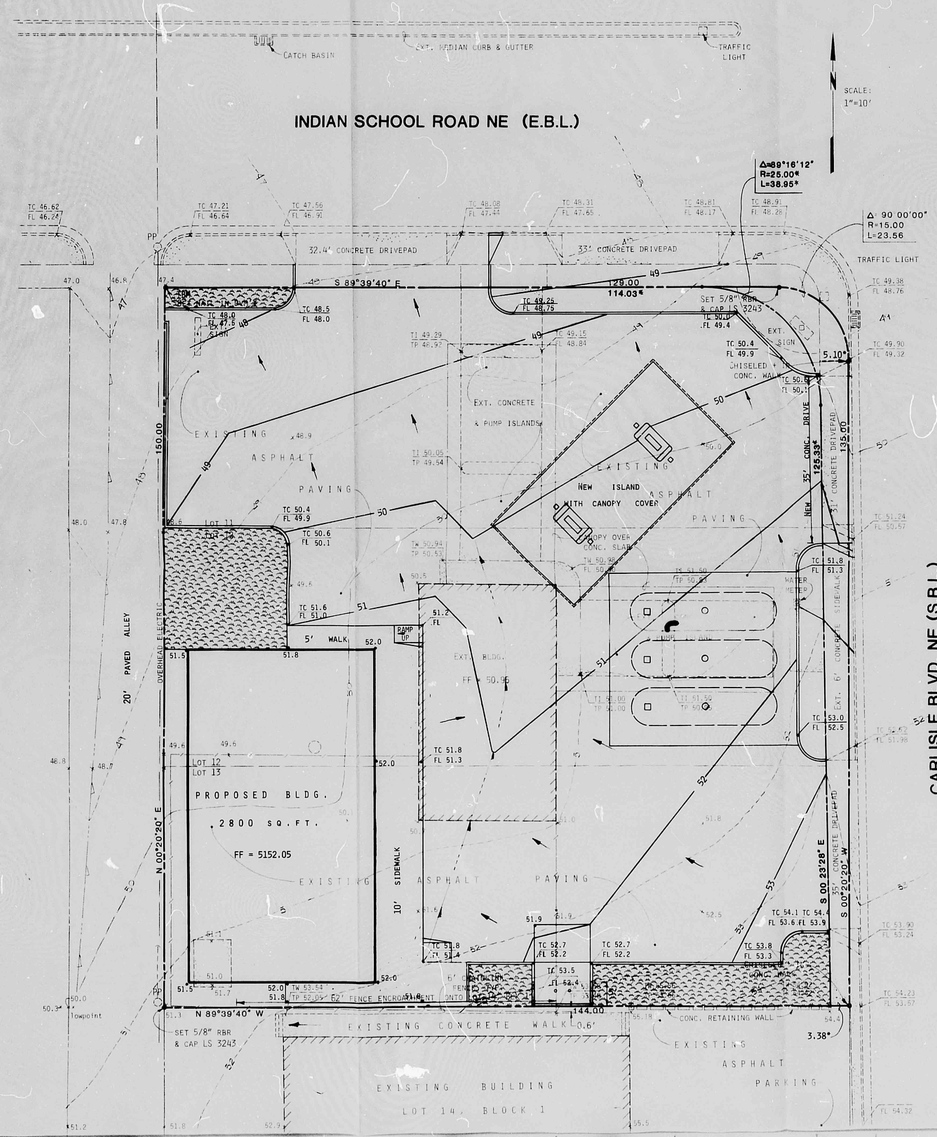
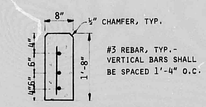
Hydrology

File No. J-16/D008



LEGEND

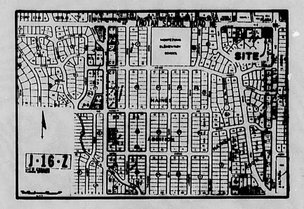
50.0	EXISTING SPOT ELEVATION
TP	TOP OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
TI	TOP OF PUMP ISLAND
TW	TOP OF WALK
PP	POWER POLE W/GUY WIRE
FF = 5152.05	FINISH FLOOR ELEV.
51.8*	PROPOSED SPOT ELEV.
	FLOW DIRECTIONAL ARROW
	DRAINAGE SWALE
	2'-0" CURB OPENING
	HEADER CURB (SEE DETAIL)



HEADER CURB DETAIL

NO SCALE

*DISTANCES MARKED BY AN ASTERISK ARE TAKEN FROM A REPLAT (WHICH IS PRESENTLY BEING PROCESSED BY THE C.O.A.) WHICH DEDICATES ADDITIONAL RIGHT-OF-WAY FOR CARLISLE BLVD.



VICINITY MAP

BENCHMARK: ACS "2-H16", A SQUARE CHISELED ON THE WNW CURB RETURN AT THE NW QUADRANT OF INDIAN SCHOOL & CARLISLE
ELEVATION: 5147.44
TEMPORARY BENCHMARK: A NAIL SET IN THE PAVEMENT AT THE NW PROPERTY CORNER.
ELEVATION: 5147.40

LEGAL DESCRIPTION: LOTS 11, 12 & 13, BLOCK 1 OF THE GARLAND SCOTT SUBDIVISION OF THE HAINES ADDITION.

SURVEY PERFORMED BY WILLIAM PETTIT N.M.L.S. #3243, DATED 11/87.

FLOOD HAZARD STATEMENT: FROM PANEL 29 OF 50, FEMA FLOOD MAPS, THIS SITE IS NOT IN A DESIGNATED FLOOD ZONE.

OFFSITE FLOWS: THIS SITE DOES NOT ACCEPT ANY OFFSITE FLOWS.

DRAINAGE COMPUTATIONS

EXISTING CONDITIONS: THIS SITE IS PRESENTLY DEVELOPED AND CONSISTS ALMOST ENTIRELY OF IMPERVIOUS SURFACES. STORMWATERS ENTER EITHER THE PUBLIC RIGHT-OF-WAY OF INDIAN SCHOOL ROAD OR THE PAVED ALLEY ABUTTING THE WEST PROPERTY LINE. THE FLOW IS THEN CARRIED WEST ON INDIAN SCHOOL ROAD 700'± TO A DRAINAGE CHANNEL WHICH CARRIES IT NORTH TO THE DIVERSION CHANNEL.

COMPOSITE "C" VALUE:

LAND USE	% AREA	C	COMPOSITE
PAVED	82	.95	.78
ROOF	17	.90	.15
LANDSCAPE	1	.25	.00
	100	C =	.93

AREA = 0.4948 Ac.
= 21,552 SQ.FT.
P = 2.25"/HR
I = (2.16)(2.25) = 4.86
Q = CIA
Tc = 10 MIN.

Q_{100} = (0.93)(4.86)(0.4948) = 2.2 CFS
Q_{10} = (0.657)(2.2) = 1.4 CFS
V_{100} = (0.93)(2.25/12)(21,552) = 3,758 CU.FT.
V_{10} = (0.657)(3,758) = 2,469 CU.FT.

PROPOSED CONDITIONS: STORMWATERS WILL CONTINUE TO EXIT THE SITE VIA THE TWO DRIVEPADS ONTO INDIAN SCHOOL ROAD AND ONTO THE PAVED ALLEY DIRECTLY WEST OF THE PROPERTY. HISTORIC DRAINAGE PATTERNS THEREFORE, WILL NOT BE CHANGED. ALL TRAFFIC AREAS ARE PROPOSED TO BE CONCRETE SURFACES.

COMPOSITE "C" VALUE:

LAND USE	% AREA	C	COMPOSITE
PAVED	73	.95	.70
ROOF	20	.90	.18
LANDSCAPE	7	.25	.02
	100	C =	0.90

Tc = 10 MIN.

Q_{100} = (0.90)(4.86)(0.4948) = 2.2 CFS
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NEITHER RUNOFF FLOWS NOR VOLUMES ARE INCREASED WITH THE PROPOSED DEVELOPMENT. THE RE-DEVELOPMENT OF AN EXISTING SITE THEREFORE, WILL NOT ADVERSELY IMPACT DOWNSTREAM FACILITIES.

RECEIVED
APR 18 1988
HYDROLOGY SECTION

1-14-88
1-25-88
1-18-88

Date
Designed
Checked

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

GRADING & DRAINAGE PLAN

CIRCLE K STORE
CARLISLE & INDIAN SCHOOL NE
ALBUQUERQUE, NEW MEXICO

Sheet 1 of 1

REF. 21 DATE 2-24-88 OP. ESP
CITY OF ALBUQUERQUE

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Karen Acom
CITY CLERK RECORDER

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NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires MAY 8 1988
Normerta Sanchez

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

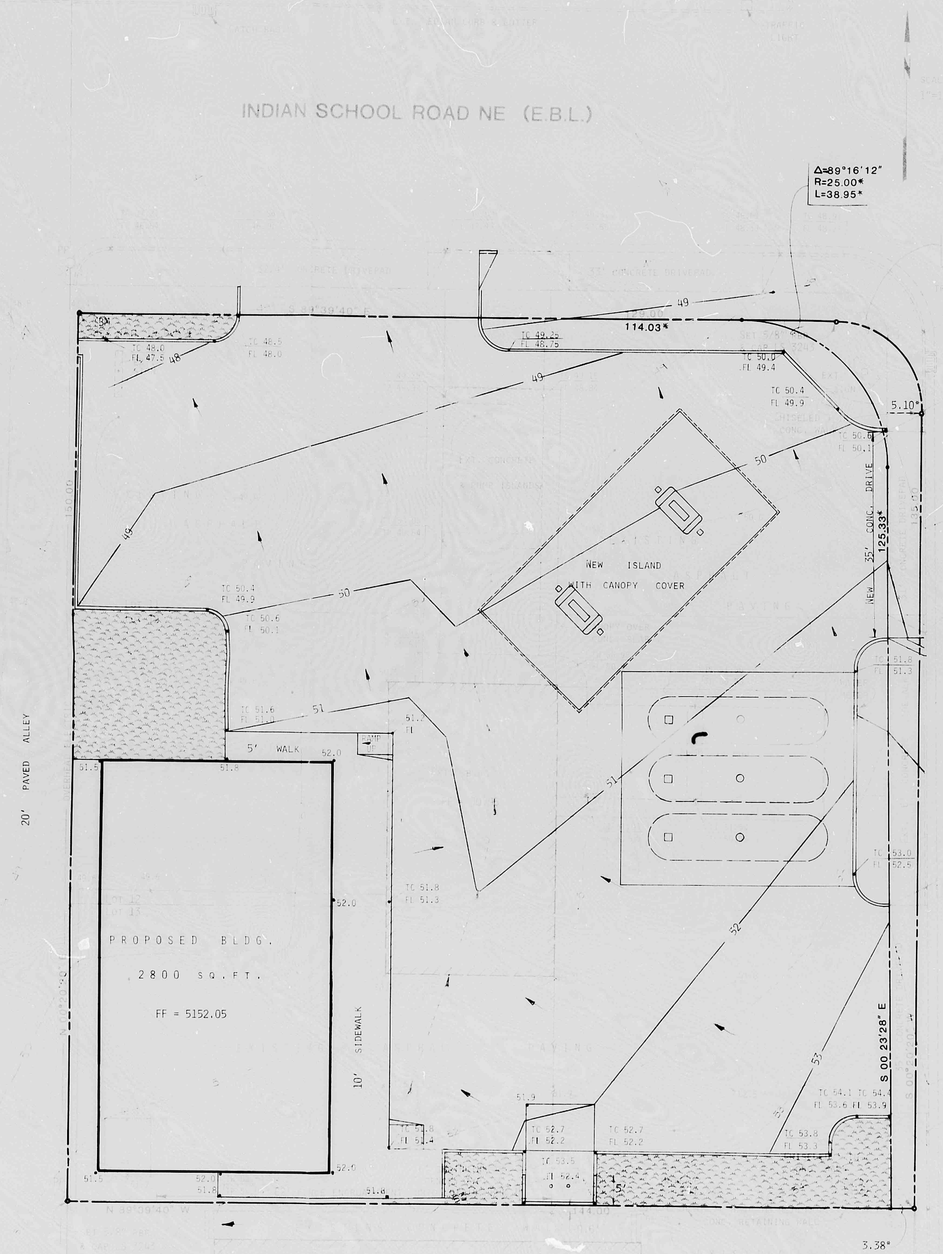
FILE DESC: J-16/D008

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F



CARLISLE BLVD NE (S.B.L.)

LEGEND

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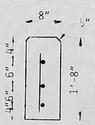

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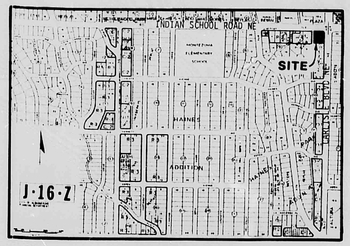

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RECEIVED APR 1 0 1988 HYDROLOGY SECTION

Date
Designed
Checked

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

GRADING & DRAINAGE PLAN

CIRCLE K STORE
CARLISLE & INDIAN SCHOOL NE
ALBUQUERQUE, NEW MEXICO

Sheet 1 of 1

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CITY OF ALBUQUERQUE

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