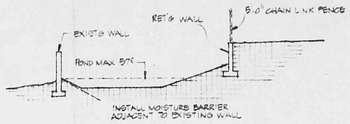
HYDROLOGY

F20/D15
3 PLANS

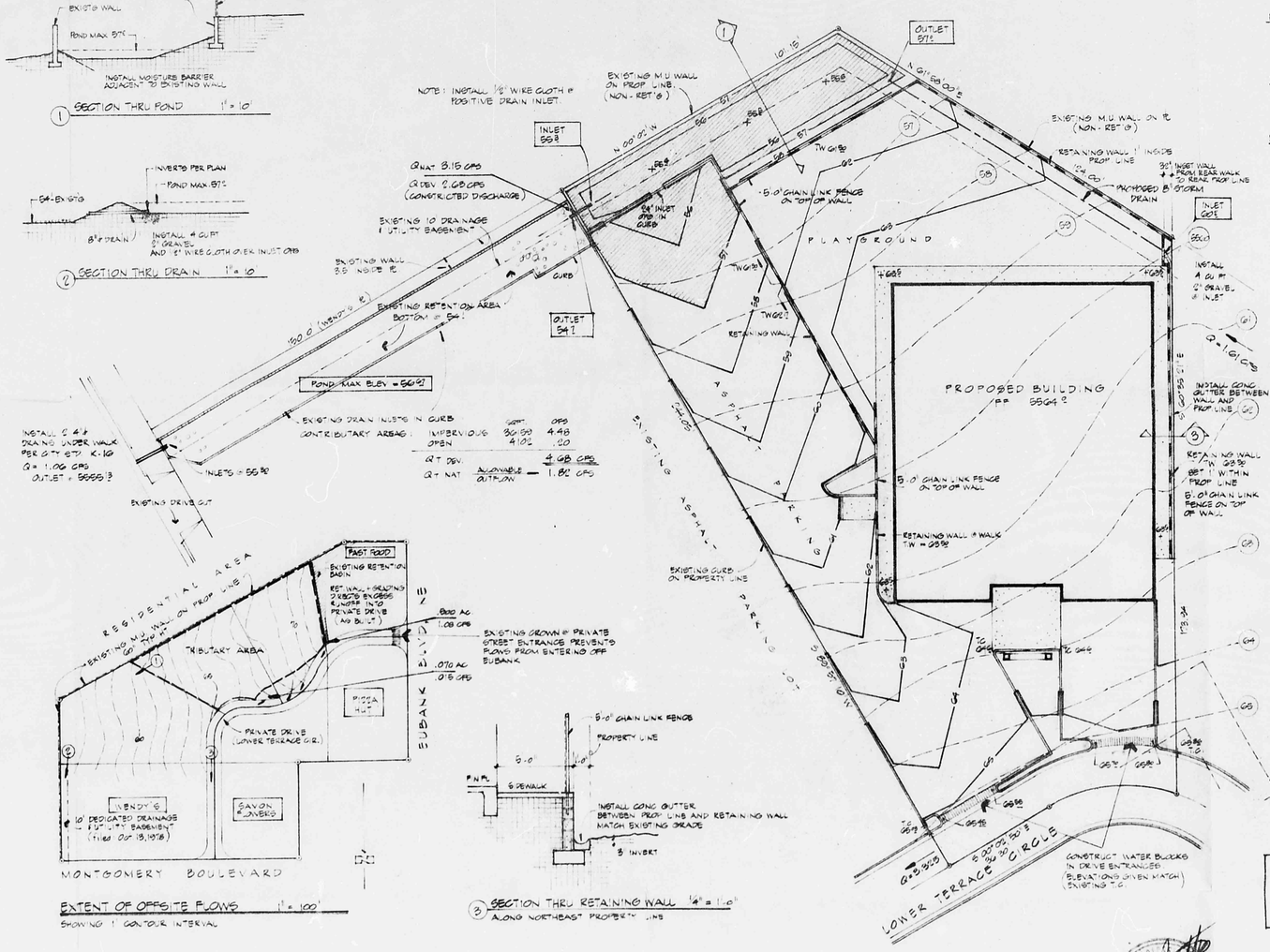
F 20/D 15

3 PLANS



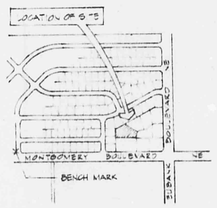
1 SECTION THRU POND 1" = 10'

2 SECTION THRU DRAIN 1" = 10'



EXTENT OF OFFSITE FLOWS 1" = 100'
SHOWING 1' CONTOUR INTERVAL

3 SECTION THRU RETAINING WALL 1/4" = 1'-0"
ALONG NORTHEAST PROPERTY LINE



VICINITY MAP NO SCALE

DRAINAGE PLAN 1" = 20'

CALCULATIONS

EXISTING (LOT ONLY)

	AREA	C	Y	Q
OPEN	29318	.40	2409	1.483
IMPERVIOUS	345	1.0	101	.117
			2630 CUFT	1.6 CFS

PROPOSED (LOT ONLY)

OPEN	9520	.40	782	.476
IMPERVIOUS	21073	1.0	4432	2.687
			5231 CUFT	3.118 CFS

UPLAND FLOWS

1 INPUT @ N.E. CORNER

TRIBUTARY AREA

30,550 .40 2718 CUFT 1.61 CFS

2 OUTFLOW @ S.W. CORNER

TRIBUTARY AREA (EXISTING CONDITIONS)

22413 .40 8285 CUFT 3.15 CFS

(PROPOSED CONDITIONS-UNCONTROLLED)

1.61
+ 3.11
4.72 CFS

3 STREET FLOWS (@ S.E. CORNER)

FLOW DISCHARGED BY "FAST FOOD" SITE 1.08 CFS

FROM NON-DEVELOPED PORTION .015

GENERATED BY STREET.

A = 9331 SQ.FT.
I = 5.4 IN/HR
C = 1.0 1.33 CFS

3.365 CFS

POND DATA

REQUIRED ON-SITE RETENTION

5231 - 2630 = 2641 CUFT

AVAILABLE RETENTION:

SURFACE AREA 3254 SQ.FT.
BOTTOM AREA 750 SQ.FT.
AVG DEPTH 1.4 FT

$V = \frac{1.4}{3}\left(\sqrt{3254 \cdot 750} + 3254 + 750\right) = 2580$ CUFT

DISCHARGE FROM POND

TO BE CONTROLLED BY AN 8" POSITIVE DRAIN.

h = POND MAX (87±) - OUTLET (54±) = 2.5 FT
a = CROSS SECTION OF PIPE = .349 SQ.FT.

$Q = .62a\sqrt{2gh}$ = 2.63 CFS

(⊗ EXISTING 3.15 CFS)

BENCH MARK

11-F20 ☐ CUT ON NNW CURB RETURN @ INTERSECTION OF MONTGOMERY BLVD & PIEDRA BLANCA ST
ELEV. 5691.911

Apr 27, 1981

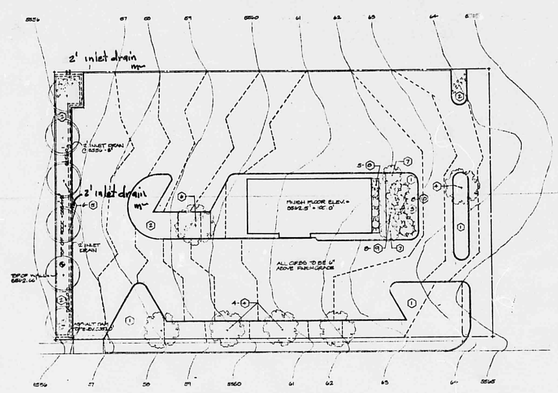
DRAINAGE PLAN

TRACT 5-A
OF MIANO J GUTIERREZ LOWER TERRACE SUBDIVISION
ALBUQUERQUE, NEW MEXICO

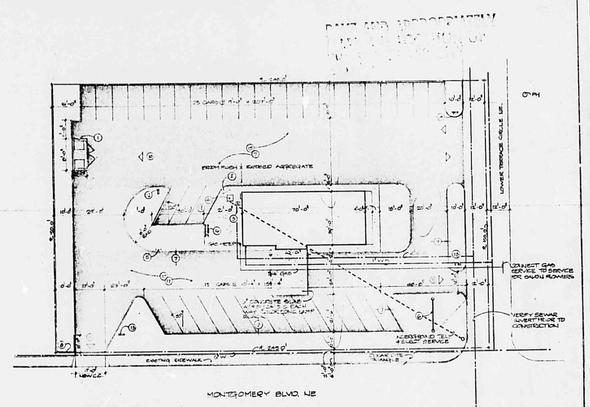
FOR
NATIONAL CHILD CARE CENTERS

PREPARED BY
ENCHANTMENT ENGINEERING
3310 INDIAN SCHOOL ROAD, NE
294-8859

APRIL 22, 1981



GRADING & LANDSCAPING PLAN
SCALE 1" = 20'-0"



SITE PLAN
SCALE 1" = 20'-0"

LANDSCAPING LEGEND

Ground Cover

1 Sodded Grass
2 Oversize 8 Rock (Minimum 3" diameter- Maximum 10" diameter.
3 Red Powder Rock & Redwood Bark, 3" Mtl.

Plant Material

Mark	Common Name	Botanical Name	Size
4	London Plane	Plantanus acerifolia	2" Cal.
5	Russian Olive	Elaegnus angustifolia	12' High
6	Mountain Cottonwood	Populus fremontii	2" Cal.
7	Purple Leaf Plum	Prunus cistena	15 Cal.
8	Oregon Grape	Mahonia aquifolium	5 Gal.
9	Flowering Almond	Prunus amygdalus nana	5 Gal.
10	Bar Harbor Juniper	Juniperus horizontalis	5 Gal.

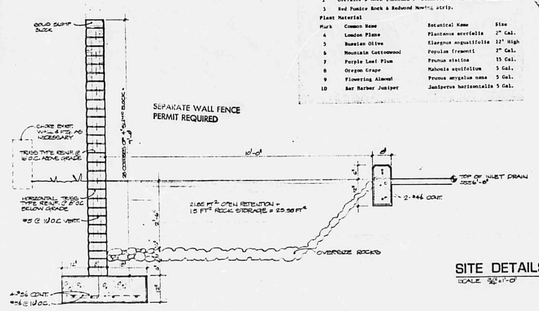
LANDSCAPING PLANT SIZES
Tree: 12 inch to 24 inch in height
Shrub: 3 gal. container to 24 inch
ZONING DIVISION

NOTICE TO CONTRACTOR

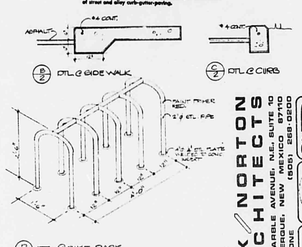
City approved street and alley top of curb elevations should be used when establishing lot grades at front and rear property lines. Should these approved elevations NOT be used, the city assumes no responsibility for loss of access to property or damage to property line walls upon construction of street and alley curb-gutter-paving.

SITE NOTES

1. 2-Hour Garbage Receptacle w/ 6'-0" high Slump Block walls and rough sawn cedar doors.Roof 5" slab within enclosure.
2. Auto Lt. 1'-5, 6'@'6" pole.
3. Grass Tree.
4. Outer Station.
5. Outer Station.
6. 24" x 8' Noise Sign.
7. 6" High Concrete Curb.
8. 42" High Pipe Railing.
9. Handicapped Trees w/ International Symbol of Access for the Handicapped.Sign to be located on space provided, for the Handicapped.
10. Arrow saying "Exit" (Unless noted all other arrows will have no other lettering.)
11. "Pick-up Window" sign.
12. "Exit" sign.
13. "Entrance" sign.
14. Parking lot 2" Asphaltic Concrete on Prime Coat Parking lot compacted subgrade.
15. Bike Rack.
16. Parking for 19 Cars (Includes 1 Handicapped space)



SITE DETAILS
SCALE 3/4"=1'-0"



DTL @ BIKE RACK

REX / NORTON ARCHITECTS
5800 MARBLE AVENUE, N.E. SUITE 10
ALBUQUERQUE, NEW MEXICO 87110
TELEPHONE (505) 265-0200

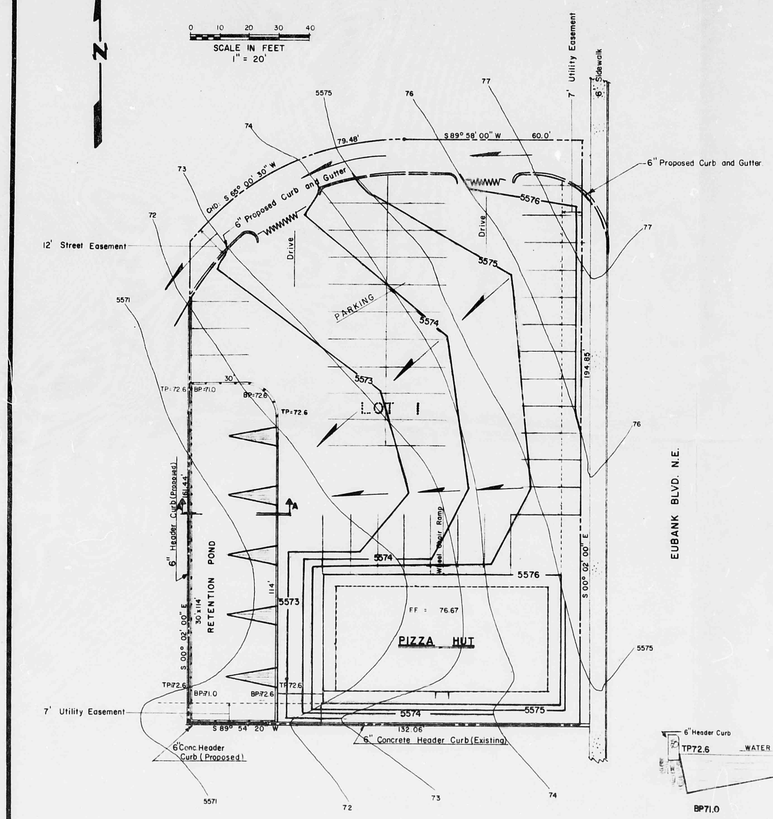
job title
WENDY'S OLD FASHIONED HAMBURGERS
ALBUQUERQUE
BLDG. DEPT.
OCT 5 1978
U.B.C.
SECTION

sheet title
SITE PLANS

job nr. 4-25-78
date 5-26-78
drawn MG
check
appr.

revisions

sheet 2 of



PIZZA HUT DRAINAGE STUDY

REPLAT OF

OFIMIANO J. GUTIERREZ

LOWER TERRACE

LOT I TRACT 16 A

SUBDIVISION OF ALBUQUERQUE, NEW MEXICO

1. Runoff before development

   Onsite:

   $Q = CIA$ Where: $C = 0.4$ Undeveloped State

   $= 0.4 \times 5.4 \times 0.57$ $I = \frac{189}{t+25} = \frac{189}{10+25} = 5.4$, $t = 10$ min

   $= 1.2$ c.f.s. $A = 0.57$ Ac.

2. Runoff after development

   Onsite:

   $Q = CIA$ Where: $C = 0.90$ Composite

   $= 0.90 \times 5.4 \times 0.57$ $I = \frac{189}{t+25} = 5.4$, $t = 10$ min

   $= 2.8$ c.f.s. $A = 0.57$

There is no offsite flow entering the site.
Flows from east is intercepted by Eubank Boulevard.
Flows from north is intercepted by proposed 6" median.
Curb and gutter on private street.

<u>Volume of storage pond required:</u>

V = Precipitation rate x Area x "C"

$= \frac{2.6}{12} \times 0.57 \times 0.50$

$= 2689$ cu. ft.

Section "A-A"

No Scale

TP — Top of pond
BP — Bottom of pond
"WW" — High point

ROUBAL & ASSOCIATES
PLANNING DESIGN MANAGEMENT CONSULTANTS
ALBUQUERQUE, NEW MEXICO 87111