HYDROLOGY

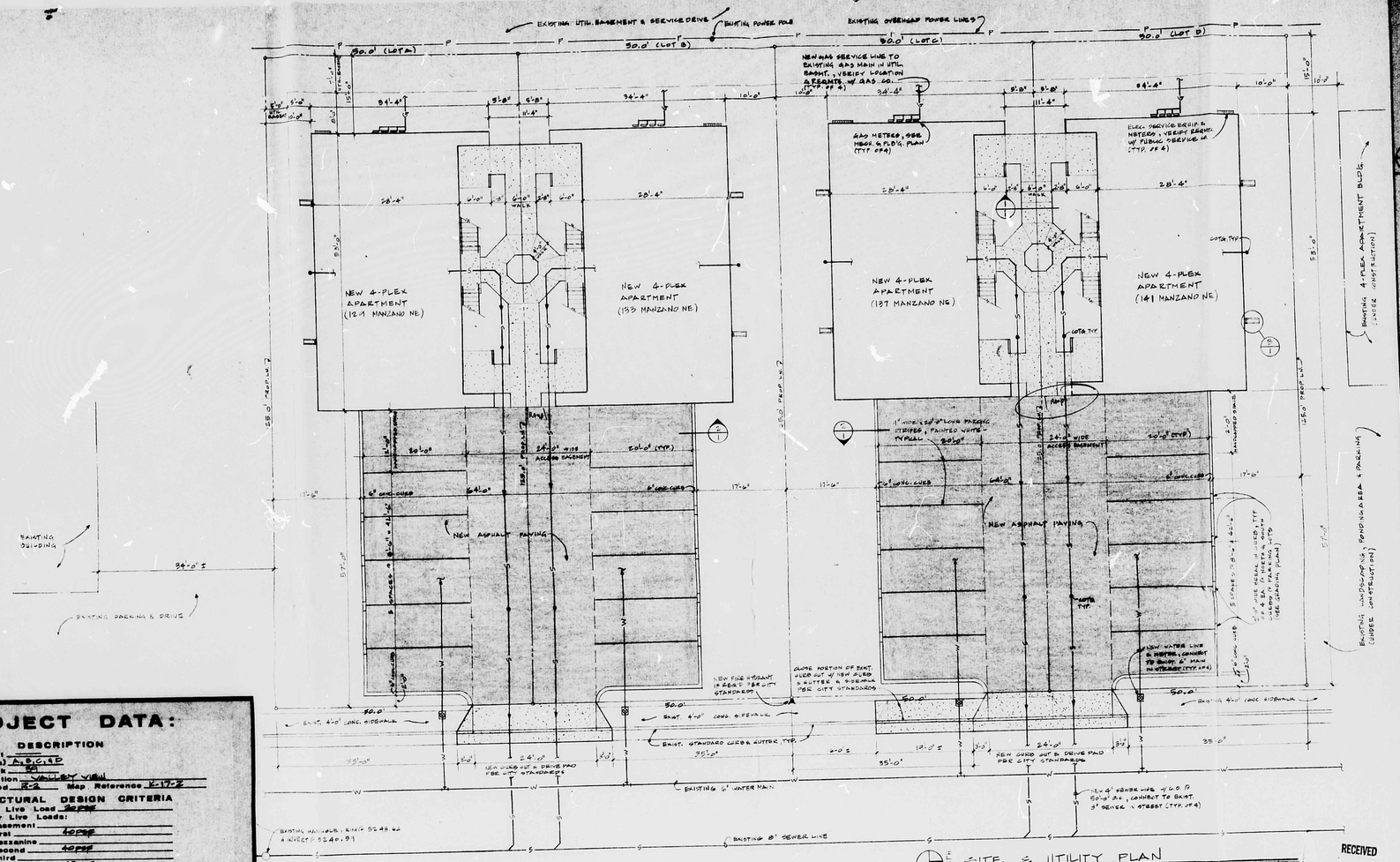
K17/D5

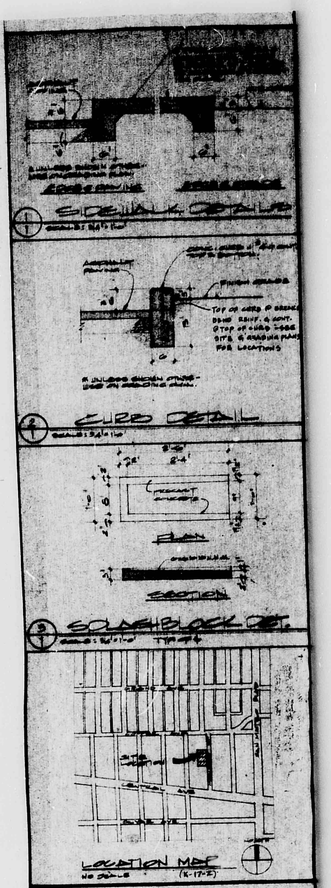
9 PLANS
1 of 3

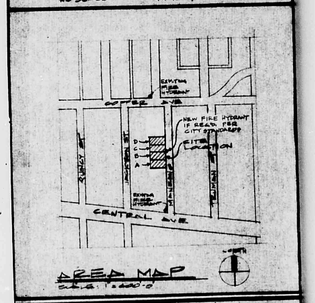
K17/D5

9 Plans

CITY OF ALBUQUERQUE







PROJECT DATA:

LAND DESCRIPTION
Tract ____
Lot(s) A, B, C, & D
Block 51
Addition VALLEY VIEW
Zoned R-2 Map Reference K-17-Z

STRUCTURAL DESIGN CRITERIA
Roof Live Load 20 PSF
Floor Live Loads:
Basement ____
First 40 PSF
Mezzanine ____
Second 40 PSF
Third ____
Wind Load 25 PSF
Seismic Zone 2
Fire Zone N/A
Type of Construction V-N
Occupancy R-1
Stress Values:
Lumber 1200 f
Steel 24000 PSI
Soil Bearing Capacity 2500 PSF

CONCRETE STRENGTHS, 28 DAY TEST
Block Fill 4000 PSI
Floor Slabs, Bond Beams 3500 PSI
Footings, Walls 3000 PSI
Exterior Walks, Slabs, Etc. 3000 PSI AIR ENTRAINED

FLOOR AREAS
Basement ____
First 1534
Mezzanine ____
Second 1534
Third ____
Total Area 3068 FSQ FT
Occupant Load 15
Parking Required 6 SPACES
Parking Provided 6 SPACES

SQ. FT. ALLOWABLE
Base 6000 SQ FT
Multistory 6000 SQ FT
Separation 60
Sprinklers ____
Separation Sides
Total Allowable 12000 SQ FT

REFUSE CONTAINERS
SHALL BE TO PROVIDE REFUSE CONTAINERS PER REQUIREMENTS OF CITY OF ALBUQUERQUE.

GENERAL NOTES
1. GENERAL CONTRACTOR TO BE ESTABLISHED AND COMPLIANCE WITH REQUIREMENTS OF CITY OF ALBUQUERQUE DEPT. OF ENVIRONMENTAL HEALTH, AIR MANAGEMENT DIVISION REGARDING CONTROL OF DUST FROM EXCAVATION AND GRADING OPERATIONS. CONTRACTOR SHALL OBTAIN TYPICAL GRADING PERMIT.
2. AFFECTED CONTRACTORS TO VERIFY EXACT LOCATION OF ALL UTILITIES.

RECEIVED
AUG 14 1981
ENGINEERING

ALBUQUERQUE BLDG. DEPT.
JUL 31 1981
U.B.C. PLAN CHECK SECTION

EXTRA COPY FOR DRAINAGE

no.	date	revision

ART DEKKER
architect · engineer
2403 san mateo n.e. albuquerque, n.m. 505-884-3305
plaza 15 87110 884-3589

4 PLEXES FOR 3RD CENTURY HOMES
129, 133, 137, 141 MANZANO ST NE. ALBUQUERQUE N.M.

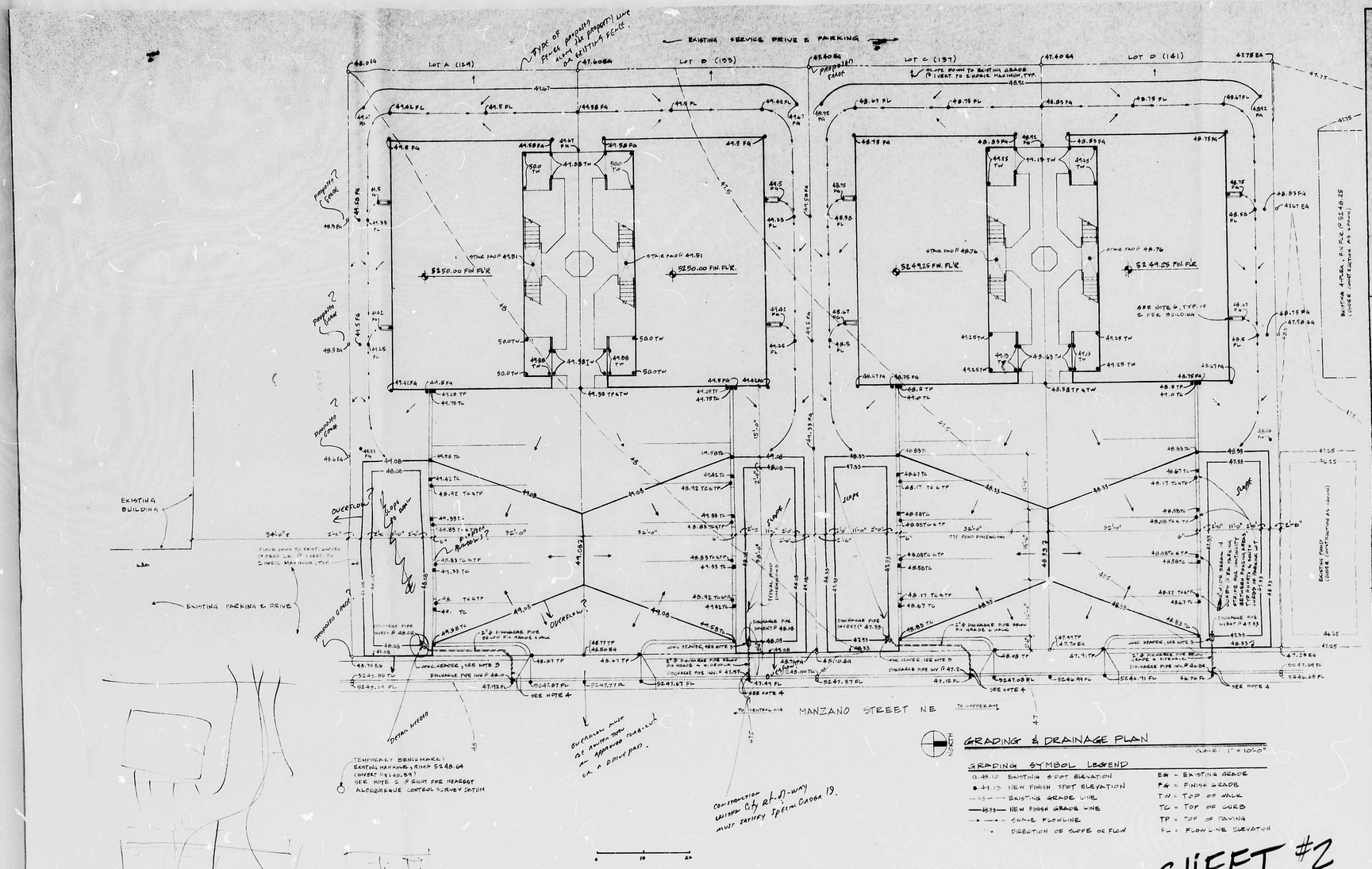
job no. 2119
dr. by TDP
ck. by AWD
issued 7-24-81
sheet 1 of 6

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

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D



GRADING & DRAINAGE PLAN

SCALE: 1" = 10'-0"

GRADING SYMBOL LEGEND

0.49.10 EXISTING SPOT ELEVATION	EG = EXISTING GRADE
●49.10 NEW FINISH SPOT ELEVATION	FG = FINISH GRADE
48 EXISTING GRADE LINE	TW = TOP OF WALK
4833 NEW FINISH GRADE LINE	TC = TOP OF CURB
SWALE FLOWLINE	TP = TOP OF PAVING
DIRECTION OF SLOPE OR FLOW	FL = FLOW LINE ELEVATION

GRADING & DRAINAGE NOTES:

1. LOTS ARE NOT WITHIN A FLOOD HAZARD AREA PER FIRM, dated December 4, 1979, and there is adequate provision for off-site drainage.
2. Existing grades are taken from actual ground survey prepared by Hugg Surveying Company under supervision of Garry P. Hugg, NMPLS No. 5823, dated January 24, 1979. Temporary Benchmark as shown on plan and nearest Albuquerque Control Survey Vertical Datum location is the north side of rim of manhole at the intersection of Jackson St. and Central Avenue with mean sea level elevation of 5248.177.
3. Set end of discharge pipe @ pond in 12"± 12"± 8'-0" long concrete header. Set pipe at invert shown on plan with a minimum of 3" concrete cover all around, and cut pipe flush with face of header.
4. Remove and replace existing sidewalk and curb and gutter as required for installation of discharge pipe. Daylight pipe at face of curb with invert as shown on plan and encase pipe in 3" minimum concrete cover all around under sidewalk. Installation of pipe through curb to be per City Standard Detail K-15.
5. All swales and 1'-0" deep ponding areas to be lined with 3/4" to 1 1/2" river run gravel over 6 mil polyethylene lapped 8" minimum in direction of runoff flow (see Landscaping Plan).
6. Downspout from roof to precast concrete splashblock, see Details Sheet #1.
7. See Sheet #1 for Site Plan showing paved areas, sidewalks, curbs, easements, etc., and for Location Plan, Project Data, typical Details.

RECAP OF DRAINAGE MANAGEMENT REPORT
(See copy of report attached for calculations and analysis)

NOTE: All quantities are for each individual lot.

RUNOFF RATES:

Q_{100} Undeveloped = .309 cfs

Q_{100} Developed = .695 cfs

Q_5 Undeveloped = .1613 cfs

PONDING VOLUMES:

$Volume_{100}$ Developed = 1121 cu. ft.

$Volume_{100}$ Undeveloped = 498 cu. ft.

Pond Volume Required = 623 cu. ft.

Pond Volume Provided = 634 cu. ft.

POND DISCHARGE RATE:

Max. Pond Discharge allowed = Q_5 Undeveloped = .1613 cfs

Under conditions shown on plan a pipe of approximately 2 1/16" diameter would produce the Q_5 discharge rate, and since a 2" diameter discharge pipe is being provided the discharge rate is less than the maximum allowed Q_5 rate.

Unrestricted emergency overflow of the ponding areas is through the 24' drives and standard City curb cuts into Manzano Street, NE.

I cannot verify. If approved that the overflow will take all known the pond because of the equal elevation surrounding the pond.

RECEIVED
AUG 14 1981
ENGINEERING

ALBUQUERQUE BLDG. DEPT. JUL 31 1981 U.S.C. PLAN CHECK SECTION

VOID - SEE REVISED SHEET #2 DATED 8-21-81 ATTACHED HERETO — TOP

EXTRA COPY FOR DRAINAGE

no.	date	revision

ART DEKKER
architect·engineer
2403 san mateo n.e. plaza 15
albuquerque, n.m. 87110
505-884-3309 884-2699

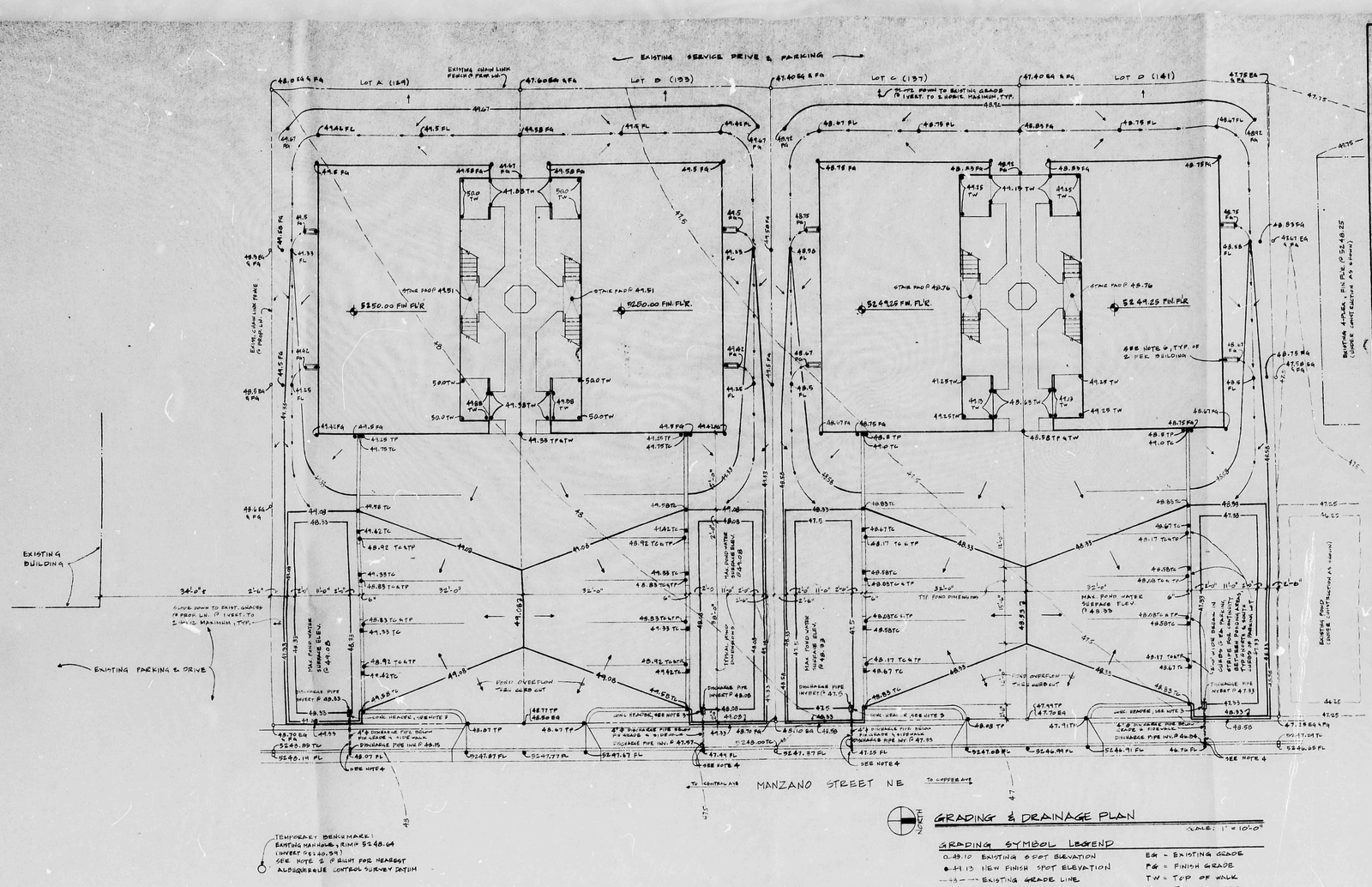
4-PLEXS for 3rd CENTURY CORP.
129, 133, 137, 141 MANZANO ST. NE ALBUQUERQUE, N.M.

job no. 824
drn. by MA
des. by AWD
issued 7-24-81
sheet 2 of 6

CITY OF ALBUQUERQUE

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

D 24 C 20 B 16 A 12 C D


EXISTING SERVICE DRIVE & PARKING
LOT A (139)
LOT B (133)
LOT C (137)
LOT D (141)
EXISTING CHAIN LINK FENCE (TYP.)
EXISTING CHAIN LINK FENCE (TYP.)
$250.00 FIN. FLR.
$250.00 FIN. FLR.
$249.25 FIN. FLR.
$249.25 FIN. FLR.
STONE PAD @ 49.51
STONE PAD @ 49.51
STONE PAD @ 48.76
STONE PAD @ 48.76
SEE NOTE 6, TYP. OF 2 PER BUILDING
BUILDING AREA (UNDER CONSTRUCTION AS A WHOLE)
EXISTING BUILDING
EXISTING PARKING & DRIVE
MAX. POND WATER SURFACE ELEV. @ 49.08
MAX. POND WATER SURFACE ELEV. @ 48.39
MAX. POND WATER SURFACE ELEV. @ 48.55
MAX. POND WATER SURFACE ELEV. @ 47.95
TYP. POND DIMENSIONS
POND OVERFLOW THRU CURB CUT
POND OVERFLOW THRU CURB CUT
DISCHARGE PIPE INVERT @ 48.08
DISCHARGE PIPE INVERT @ 47.5
DISCHARGE PIPE INVERT @ 48.08
DISCHARGE PIPE INVERT @ 47.33
CONC. HEADER, SEE NOTE 3
CONC. HEADER, SEE NOTE 3
CONC. HEADER, SEE NOTE 3
CONC. HEADER, SEE NOTE 3
4"ø DISCHARGE PIPE BELOW PIN LEADS & SIDEWALK
4"ø DISCHARGE PIPE BELOW PLUGGED & SIDEWALK
4"ø DISCHARGE PIPE BELOW CONC. & SIDEWALK
4"ø DISCHARGE PIPE BELOW CONC. & SIDEWALK
SEE NOTE 4
SEE NOTE 4
MANZANO STREET NE
TO CENTRAL AVE
TO COPPER AVE
TEMPORARY BENCHMARK:
EXISTING MANHOLE, RIM= 5248.64
INVERT = 5240.59
SEE NOTE 2 @ RIGHT FOR NEAREST ALBUQUERQUE CONTROL SURVEY DATUM
EXISTING BUILDING
EXISTING PARKING & DRIVE
34'-0"±
32'-0"
11'-0"
2'-6"
6"
6"

HYDROLOGY K17/D5 9 PLANS
2 of 3

USE CHAPTER 23 REQUIREMENTS

PROJECT: 4 PLEX FOR 3RD CENTURY HOMES — ZONE TYPE: R-2 — PAGE 1 OF 1

	SUMMER	WINTER
INSIDE	75°F	70°F
OUTSIDE	97°F	17°F
DIFFERENCE	19°F	53°F

DESIGN DATA: 4500 LATITUDE 35°

	ACTUAL	ALLOW.
"U" ROOF MAX. =	.05	.05
"U" WALL MAX. =	.151	.151
ATTY MAX. =	53	61.0

WALL TYPE "A" Tape 44

	sq.	R-val
AREA	.17	.17
1" STUCCO	.20	.20
½" WALL SHEATHING	1.32	1.32
6x6 STUDS @ 24" O.C.	....	4.97
6" BATT INSUL.	19.0	....
½" GYP. BD.	.45	.45
I.S.A.	.68	.68
TOTAL "R" VALUE	22.84	19.77
TOTAL "U" VALUE	.044	.051
AVG "U" VALUE	.047	

WALL TYPE "B" Tape 44

	sq.	R-val
AREA	.17	.17
½" HD. SIDING	.62	.62
½" WALL SHEATHING	1.32	1.32
6x6 STUDS @ 24" O.C.	....	4.97
6" BATT INSUL.	19.0	....
½" GYP. BD.	.45	.45
I.S.A.	.68	.68
TOTAL "R" VALUE	22.84	19.77
TOTAL "U" VALUE	.044	.051
AVG "U" VALUE	.047	

ROOF TYPE "1"

	sq.	R-val
AREA	.17	.17
BUILT ROOF	.33	.33
½" PLYWOOD	.77	.77
12x4 RAFTERS @ 24" O.C.	....	4.97
6" BATT INSUL.	24.0	....
½" GYP. BD.	.45	.45
I.S.A.	.68	.68
TOTAL "R" VALUE	32.4	6.77
TOTAL "U" VALUE	.031	.148
AVG "U" VALUE	.035	

WALL TYPE		sq. ft.
A		2278
B		119
GLAZING AREA	A	601
GLAZING AREA	B	
DOOR AREA	A	80
DOOR AREA	B	
DOOR AREA		
GROSS WALL AREA		2798

GLASS TYPE		1502
FACTORY MADE		
SHOP BUILT AREA		
OTHER		
FIXED		
OPERABLE		
DOOR		
GLASS ROOF AREA		1502

GLASS	QTY.	U-VAL	CONDITION
FIXED	2	0.9	
OPERABLE	6	0.9	
DOOR	24	1.0	

WALLS: $H_C = \frac{(.044)(2278)+(.047)(119)+(.151)(601)+(.10)(80)}{2798} = .164 \le .31$ ✓

ROOF: $H_C = \frac{(.035)(1502)}{1502} = .035 \le .05$ ✓

TOTAL HEAT LOSS (BTU)

	ALLOW.	ACTUAL
WALLS	15·1502·55 = 91801.3	2278·164 = 373,592
ROOF	1502·53 = 84952.71	1502·35 = 52,570
	= 176754.01	= 426,162

GLASS: $QTTV = \frac{(.048)(2278)(60)+(.047)(119+601)+(.66)(1502)(11)}{2798} + \frac{(11.5)(80)(11)+(.48)(80)(24)}{2798}$

$QTTV = 10.64 \le 52$ ✓

DOOR: $H_C = \frac{(.099)(1502)}{1502}$

$H_C = .033 \le .05$ ✓

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — NO. 1546 — ARNOLD W. DEKKER

PROJECT DATA:

LAND DESCRIPTION
Tract _____
Lot(s) FORMERLY E & F
Block 61
Addition HALLETT VIEW
Zoned R-2 Map Reference K-17-Z

STRUCTURAL DESIGN CRITERIA
Roof Live Load 20 PSF
Floor Live Loads:
Basement _____
First 40 PSF
Mezzanine _____
Second 40 PSF
Third _____
Wind Load 25 PSF
Seismic Zone 3
Fire Zone N/A
Type of Construction V-N
Occupancy R-1
Stress Values:
Lumber 1800 ℔
Steel 24,000 PSI
Soil Bearing Capacity 2500 PSF

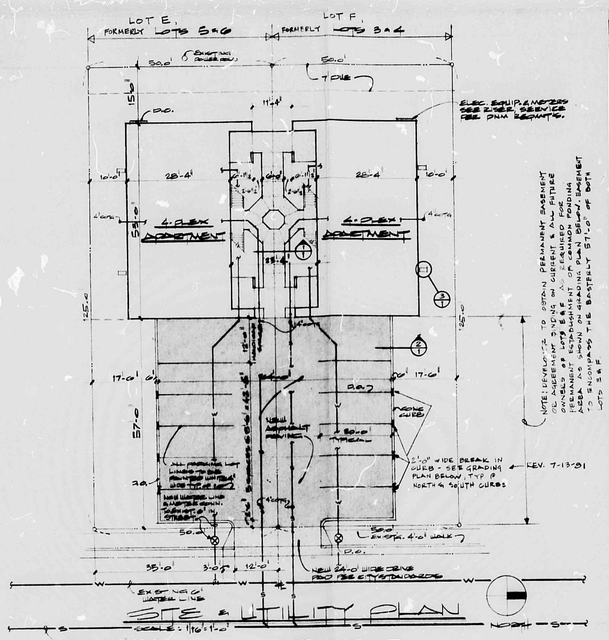
CONCRETE STRENGTHS, 28 DAY TEST
Block Fill 2,000 PSI
Floor Slabs, Bond Seams, 3,000 PSI
Footings, Walls 3,000 PSI
Exterior Walks, Slabs, Etc. 3,000 PSI AIR ENTRAINED

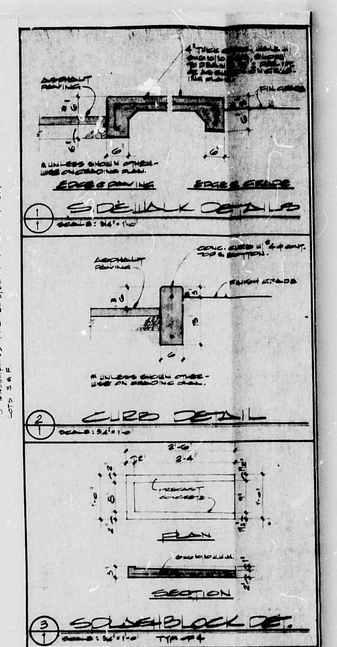
FLOOR AREAS
Basement _____
First 1534
Mezzanine _____
Second 1534
Third _____
Total Area 3068 SQ. FT.
Occupancy Load 15
Parking Required 6 CAR LOT
Parking Provided 6 CAR LOT

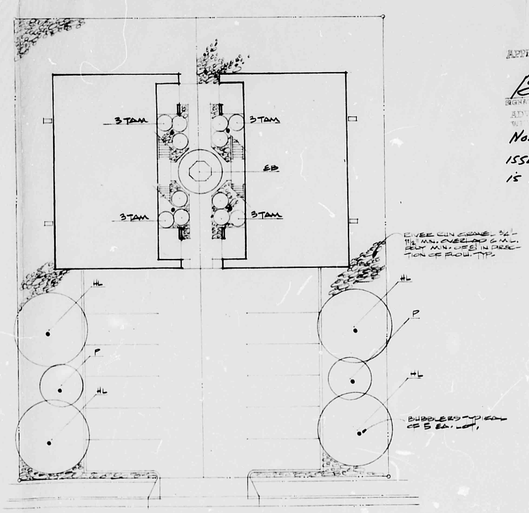
SQ. FT. ALLOWABLE
Base 6000 SQ. FT. LOT
Multistory 6000 SQ. FT. LOT
Separation 60 _____
Sprinklers _____
Separation Sides _____
Total Allowable 12,000 SQ. FT. LOT

REFUSE CONTAINERS
A NICHE TO RECEIVE REFUSE CONTAINERS PER REQUIREMENTS OF CITY OF ALBUQUERQUE.

GENERAL NOTES
1. CONTRACTOR TO BE RESPONSIBLE FOR COMPLIANCE WITH REGULATIONS OF CITY OF ALBUQUERQUE DEPT. OF ENVIRONMENTAL HEALTH AIR MANAGEMENT DIVISION REGARDING CONTROL OF DUST FROM EXCAVATION AND GRADING OPERATIONS. CONTRACTOR SHALL OBTAIN PERMIT REMOVAL PERMIT.
2. AFFECTED CONTRACTORS TO VERIFY EXACT LOCATION OF ALL UTILITIES.



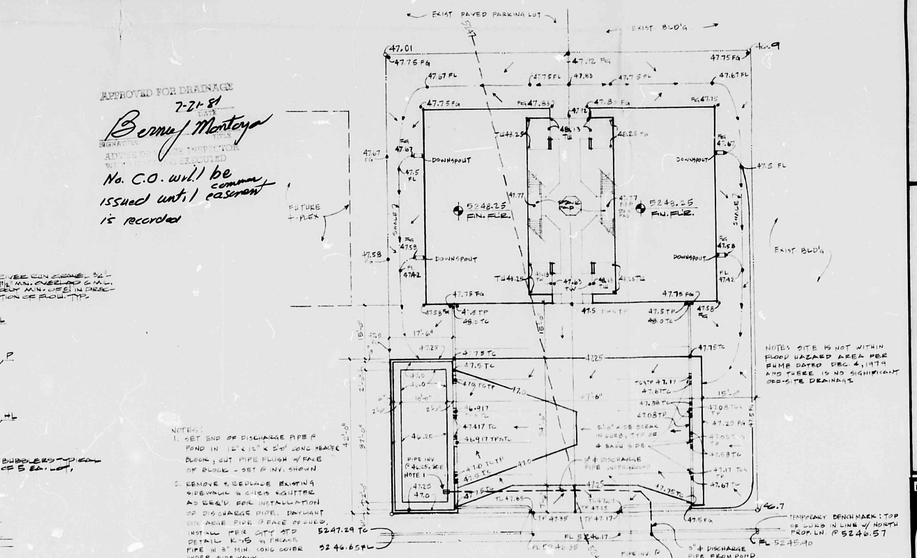


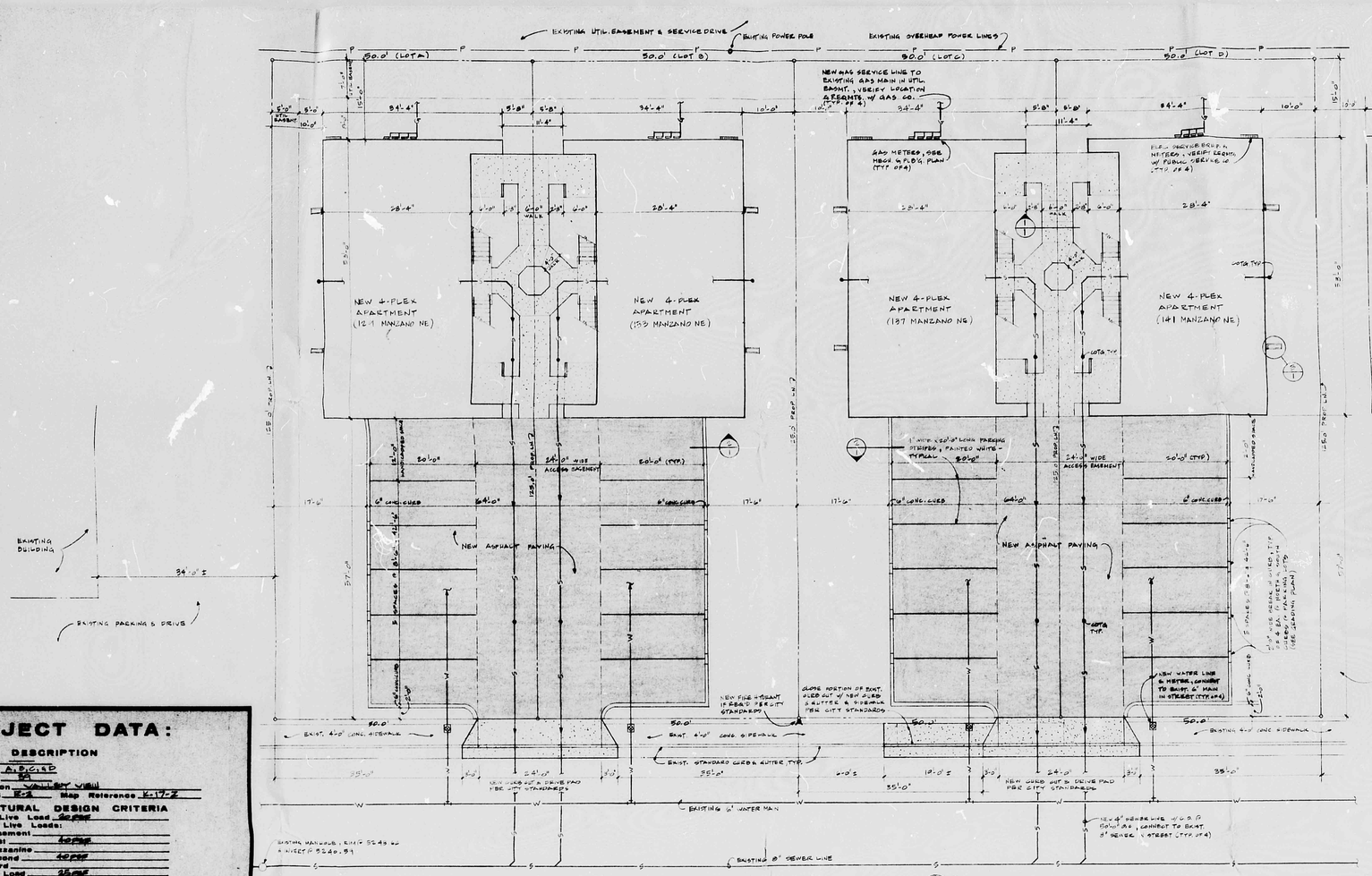


LANDSCAPE SITE PLAN
SCALE: 1/16"=1'-0"
NORTH

LANDSCAPE SCHEDULE (ALL LOCAL)(EXCEPT EB)

SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	REMARKS
HL	CHOKECHERRY	PRUNUS VIRGINIANA MELANOCARPA 'CANADA RED'	2	2 CAL/PEB	B&B
P	P. NON P.NE	PINUS EDULIS OR P. PONDEROSA	1	2 CAL/PEB	B&B
EB	EASTERN REDBUD	CERCIS CANADENSIS	1	2 CAL/PEB	B&B
TAM	TAM JUNIPER	JUNIPERUS SABINA TAMARISCIFOLIA	6	5 GAL.	CONTAINER


EXIST PAVED PARKING LOT
EXIST BLDG
47.01
47.75 FG
47.67 FL
47.83
47.55 FG
47.83 FG
47.67 FL
47.67 FG
47.75 FG
47.67 FL
47.67
47.75 FG
47.67 FL
47.67 FG
47.75 FG
47.67 FL
47.67 FG
47.75 FG
47.67 FL
47.67 FG



SITE & UTILITY PLAN

NOTE: 4-PLEXES SHOWN ABOVE SAME AS 4-PLEXES PREVIOUSLY APPROVED BY C.T.Y. & CURRENTLY UNDER CONSTRUCTION @ 145 & 141 MANZANO NE

SCALE: 1" = 10'-0"

SUBMIT TO ALBUQUERQUE CITY ENGINEER/DESIGN SECTION FOR APPROVAL OF WORK IN PUBLIC RIGHT-OF-WAY

PROJECT DATA:

LAND DESCRIPTION
- Tract
- Lot(s) A, B, C, & D
- Block 59
- Addition VALLEY VIEW
- Zoned R-3 Map Reference K-17-Z

STRUCTURAL DESIGN CRITERIA
- Roof Live Load 20 PSF
- Floor Live Loads:
  - Basement
  - First 40 PSF
  - Mezzanine
  - Second 40 PSF
  - Third
- Wind Load 25 PSF
- Seismic Zone 2
- Fire Zone N/A
- Type of Construction V-N
- Occupancy R-1
- Stress Values:
  - Lumber 1400 #
  - Steel 24000 PSI
- Soil Bearing Capacity 2500 PSF

CONCRETE STRENGTHS, 28 DAY TEST
- Block Fill 2000 PSI
- Floor Slabs, Bond Beams 3500 PSI
- Footings, Walls 3000 PSI
- Exterior Walks, Slabs, Etc. 3000 PSI AIR ENTRAINED

FLOOR AREAS
- Basement
- First 1534
- Mezzanine
- Second 1534
- Third
- Total Area 3068 SQ. FT.
- Occupant Load 15
- Parking Required 4 PER UNIT
- Parking Provided 4 PER UNIT

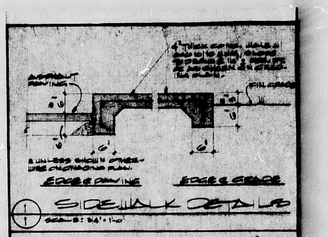
SQ. FT. ALLOWABLE
- Base 6000 PER UNIT
- Multistory 6000 PER UNIT
- Separation 60
- Sprinklers
- Separation Sides
- Total Allowable 12000 PER UNIT

REFUSE CONTAINERS

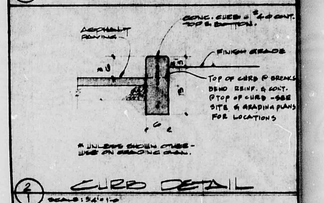
4 NUMBER TO PROVIDE REFUSE CONTAINERS PER REQUIREMENTS OF CITY OF ALBUQUERQUE.

GENERAL NOTES

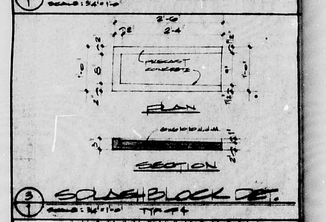
1. A GENERAL CONTRACTOR TO BE ESTABLISHED FOR COMPLIANCE WITH REQUIREMENTS OF CITY OF ALBUQUERQUE DEPT. OF ENVIRONMENTAL HEALTH SEDIMENT MANAGEMENT DIVISION REGARDING CONTROL OF DUST FROM EXCAVATION AND GRADING OPERATIONS. EXCAVATION SHALL OBTAIN TOPSOIL REMOVAL PERMIT.
2. AFFECTED CONTRACTORS TO VERIFY EXACT LOCATION OF ALL UTILITIES.



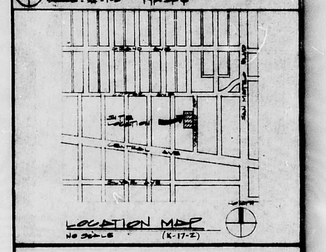
1 SIDEWALK DETAILS
SCALE: 3/4" = 1'-0"

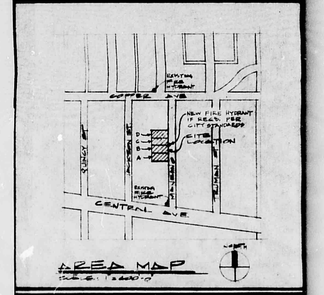


2 CURB DETAIL
SCALE: 3/4" = 1'-0"



3 SOLAR BLOCK DET.
SCALE: 3/4" = 1'-0"
TYP OF 4





no.	date	revision

ART DEKKER
architect · engineer
2403 san mateo n.e. plaza 15
albuquerque, n.m. 87110
505-884-3308 884-3688

4 PLEXES for 3RD CENTURY HOMES
129, 133, 137, 141 MANZANO ST NE. ALBUQUERQUE N.M.

job no. 8421
drn. by TOF
ck'd by AWD
issued 7-24-81
sheet 1 of 6

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

D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE C D

GRADING & DRAINAGE NOTES

1. LOTS ARE NOT WITHIN A FLOOD HAZARD AREA PER FHBM, dated December 4, 1979, and there is no significant off-site drainage.
2. Existing grades are taken from actual ground survey prepared by Hugg Surveying Company under supervision of Garry P. Hugg, NMPLS No. 5823, dated January 16, 1979. Temporary Benchmark as shown on plan and nearest Albuquerque Control Survey Vertical Datum location is the north side of rim of manhole at the intersection of Jackson St. and Central Avenue with mean sea level elevation of 5248.127.
3. Set end of discharge pipe @ pond in 12"x 12"x 2'-0" long concrete header. Set pipe at invert shown on plan with a minimum of 3" concrete cover all around, and cut pipe flush with face of header.
4. Remove and replace existing sidewalk and curb and gutter as required for installation of discharge pipe. Daylight pipe at face of curb with invert as shown on plan and encase pipe in 3" minimum concrete cover all around under sidewalk. Installation of pipe through curb to be per City Standard Detail K-15.
5. All swales and 1'-0" deep ponding areas to be lined with 3/4" to 1 1/2" river run gravel over 6 mil polyethylene lapped 8" minimum in direction of runoff flow (see Landscaping Plan).
6. Downspout from roof to precast concrete splashblock, see Details Sheet #1.
7. See Sheet #1 for Site Plan showing paved areas, sidewalks, curbs, easements, etc., and for Location Plan, Project Data, typical Details.

RECAP OF DRAINAGE MANAGEMENT REPORT

(See copy of report attached for calculations and analysis)

NOTE: All quantities are for each individual lot.

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Q_{100} Developed = .695 cfs

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PONDING VOLUMES:

$Volume_{100}$ Developed = 1121 cu. ft.

$Volume_{100}$ Undeveloped = 498 cu. ft.

Pond Volume Required = 623 cu. ft.

Pond Volume Provided = 634 cu. ft.

POND DISCHARGE RATE:

Max. Pond Discharge allowed = Q_5 Undeveloped = .1613 cfs

Under conditions shown on plan a pipe of approximately 2 1/16" diameter would produce the Q_5 discharge rate, and since a 2" diameter discharge pipe is being provided the discharge rate is less than the maximum allowed Q_5 rate.

Unrestricted emergency overflow of the ponding areas is through the 24' drives and standard City curb cuts into Manzano Street, NE.

APPROVED FOR DRAINAGE
9-2-81
DATE
ADVISE DRAINAGE INSPECTOR WHEN GRADING IS COMPLETED
(Comment on the letter dated August 27, 1981 to Mr. Stowell.)

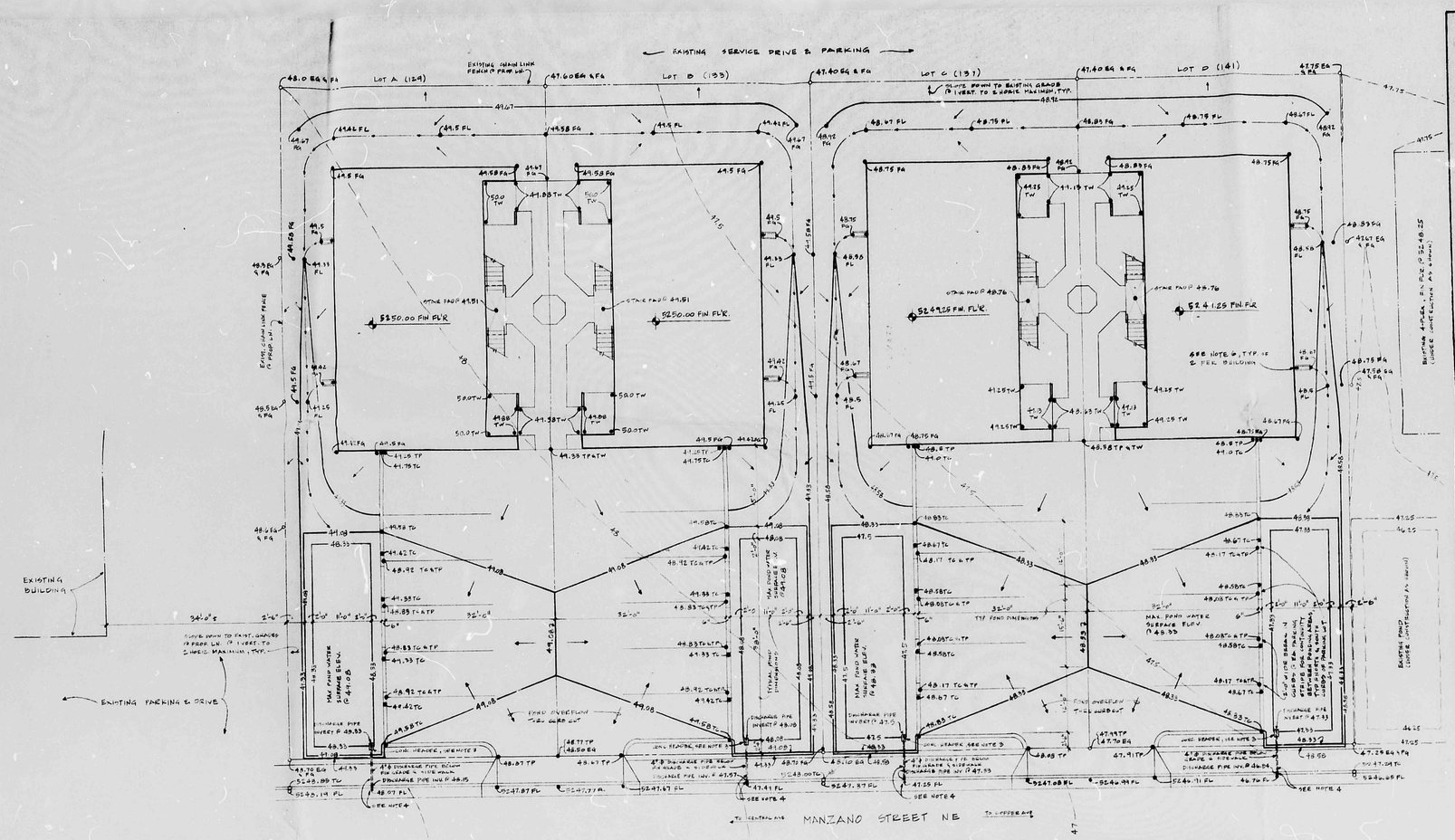
no.	date	revision
1	8-21-81	revised ponding grades, relocated discharge pipes & changed size to 4'-0", added pond max water surface level, erosion control, grading & area drainage per hydrology review requirements

ART DEKKER
architect·engineer
2403 san mateo n.e. plaza 15
albuquerque, n.m. 87110
505-884-2305 884-2306

4-PLEXS FOR 3RD CENTURY CORP.
139, 133, 137, 141 MANZANO ST. NE ALBUQUERQUE, N.M.

job no.	81
drn. by	TM
chd. by	AWD
issued	7-24-81
sheet	2 of 6

8-21-81 8-21-81



TEMPORARY BENCH MARK:
EXISTING MANHOLE, RIM = 5248.04
(INVERT IN = 5240.54)
SEE NOTE 2 & RIGHT FOR NEAREST ALBUQUERQUE CONTROL SURVEY DATUM

NORTH

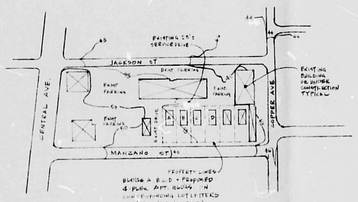
GRADING & DRAINAGE PLAN

SCALE: 1" = 10'-0"

GRADING SYMBOL LEGEND

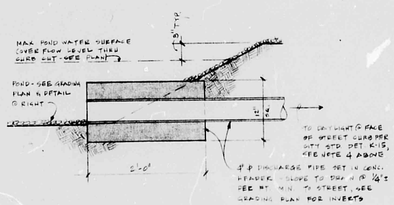
- 0 48.10 EXISTING SPOT ELEVATION
- ● 41.13 NEW FINISH SPOT ELEVATION
- 48 EXISTING GRADE LINE
- 4833 NEW FINISH GRADE LINE
- SWALE FLOWLINE
- DIRECTION OF SLOPE OR FLOW

EG = EXISTING GRADE
FG = FINISH GRADE
TW = TOP OF WALL
TC = TOP OF CURB
TP = TOP OF PAVING
FL = FLOWLINE ELEVATION



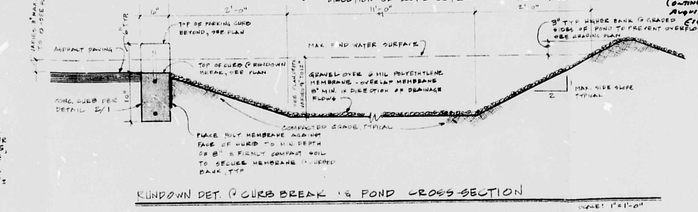
AREA SCHEMATIC

SCALE: 1" = 200'



CONC. HEADER @ POND OUTLET

SCALE: 1" = 1'-0"



WINDOW SILL HEIGHT

KLINDOWN DET. @ CURB BREAK @ POND CROSS-SECTION

SCALE: 1"=1'-0"

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

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D

UBC CHAPTER 53 REQUIREMENTS

PROJECT 4-PLEX FOR 3RD CENTURY HOMES — CLIMATE TYPE: A-2 — PAGE 1 OF 1

	SUMMER	WINTER
INSIDE	78°F	70°F
OUTSIDE	97°F	17°F
DIFFERENCE	19°F	53°F

HEATING DEGREE DAYS/YEAR UNITS USED 65°

	BTU/HR.
GLASS, MAX.	1,656
ALL WALLS, MAX.	6,181
ATTY. MAX.	6,744
	14,581

WALL TYPE "A" — TD = 44

	R-VAL	TD-VAL
CONC.	.17	.17
1" STUCCO	.20	.20
1/2" INSUL. SHEATHING	1.32	1.32
2x6 STUDS @ 24" O.C.	—	6.87
6" BATT INSUL.	19.0	—
1/2" GYP. BD.	.45	.45
R.A.	.68	.68
TOTAL "R" VALUE	21.86	9.69
TOTAL "U" VALUE	.046	.103
AVER. "U" VALUE	.046	

WALL TYPE "B" — TD = 44

	R-VAL	TD-VAL
CONC.	.17	.17
1/2" INS. SIDING	.33	.33
1/2" INSUL. SHEATHING	1.32	1.32
2x6 STUDS @ 16" O.C.	—	6.87
6" BATT INSUL.	19.0	—
1/2" GYP. BD.	.45	.45
R.A.	.68	.68
TOTAL "R" VALUE	21.96	10.11
TOTAL "U" VALUE	.046	.099
AVER. "U" VALUE	.047	

ROOF TYPE "1"

	R-VAL	TD-VAL
CONC.	.17	.17
BUILT ROOF	.33	.33
5/8" PLYWOOD	.77	.77
WOOD TRUSS @ 24" o.c.	—	4.37
6" BATT INSUL.	20.0	—
1/2" GYP. BD.	.45	.45
R.A.	.68	.68
TOTAL "R" VALUE	21.4	6.77
TOTAL "U" VALUE	.047	.148
AVER. "U" VALUE	.038	

WALL TYPE "A"	3276
WALL TYPE "B"	119
WINDOW AREA "A"	861
WINDOW AREA "B"	80
DOOR AREA	
DOOR AREA	
OPAQUE WALL AREA	2758

	SQ.FT.	PERIMETER	"U" VALUE
GLASS	12	7	.99
GLASS	10	15	.95
GLASS	28	10	.90

ROOF TYPE "1"

BUILT UP ROOF AREA	1502
SLOPED ROOF AREA	
OTHER	
OTHER	
OTHER	
OTHER	
SLOPED ROOF AREA	1502

WALLS: $U_o = \frac{(.046)(2758)+(.047)(80)+(.18)(80)+(.33)(119)+(.68)(861)}{2758}$

$U_o = .1264 \le .21$ ✓

ROOF: $U_o = \frac{(.038)(1502)}{1502}$

$U_o = .038 \le .05$ ✓

TOTAL HEAT LOSS (BTU)

	MAX BY CODE	ACTUAL
GLASS	85 · 1502 = 53 · 3180.3	205 · 1502 = 53 · 10,860.6
WALLS	14 · 2977 = 53 · 21582.71	1649 · 2977 = 53 · 6977.168
TOTAL	44869.01	8124.960

WALLS: $OTTV = \frac{(.046)(2758)(80)+(.047)(80)(15)+(.18)(80)+(.33)(119)+(.68)(861)}{2758}$

$OTTV = 16.94 \le 52$ ✓

ROOF: $U_o = \frac{(.038)(1502)}{1502}$

$U_o = .038 \le .05$ ✓

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — NO. 1949 — ARTHUR W. DEKKER

PROJECT DATA:

LAND DESCRIPTION
Tract ____
Lot(s) 5-8 BLK F
Block ____
Addition VALLEY VIEW
Zoned R-2 Map Reference K-17-Z

STRUCTURAL DESIGN CRITERIA
Real Live Load 30 PSF
Floor Live Loads:
Basement ____
First 40 PSF
Mezzanine ____
Second 40 PSF
Third ____
Wind Load 25 PSF
Seismic Zone 1
Fire Zone N/A
Type of Construction 5-N
Occupancy R-1
Stress Values:
Lumber 1200 f
Steel 24000 PSI
Soil Bearing Capacity 2500 PSF

CONCRETE STRENGTHS, 28 DAY TEST
Block Fill 2000 PSI
Floor Slabs, Bond Beams 2500 PSI
Footings, Walls 3000 PSI
Exterior Walks, Slabs, Etc. 3000 PSI AIR ENTRAINED

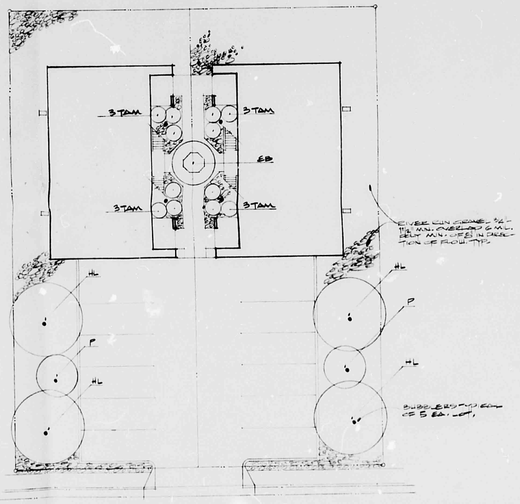
FLOOR AREAS
Basement ____
First 1554
Mezzanine ____
Second 1524
Third ____
Total Area 3078 PROJ
Occupant Load 15
Parking Required 6 REQ'D
Parking Provided 6 REQ'D

SQ. FT. ALLOWABLE
Base 6000 PER LOT
Multistory 6000 PER LOT
Separation 60 ____
Sprinklers ____
Separation Sides ____
Total Allowable 12000 PER LOT

REFUSE CONTAINERS
PROVIDE TO PROVIDE REFUSE CONTAINERS PER REQUIREMENTS OF CITY OF ALBUQUERQUE.

GENERAL NOTES
1. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CITY OF ALBUQUERQUE DEPT. OF ENVIRONMENTAL HEALTH AIR MANAGEMENT DIVISION REGARDING CONTROL OF DUST FROM EXCAVATION AND GRADING OPERATIONS. CONTRACTOR SHALL OBTAIN TYPE II REMOVAL PERMIT.
2. AFFECTED CONTRACTORS TO VERIFY EXACT LOCATION OF ALL UTILITIES.

APPROVED FOR DRAINAGE
7-21-81
Barney Montoya
ADMINISTRATIVE INSPECTOR
WHEN GRADING IS INVOLVED
No C.O. will be issued until comm Easement is recorded

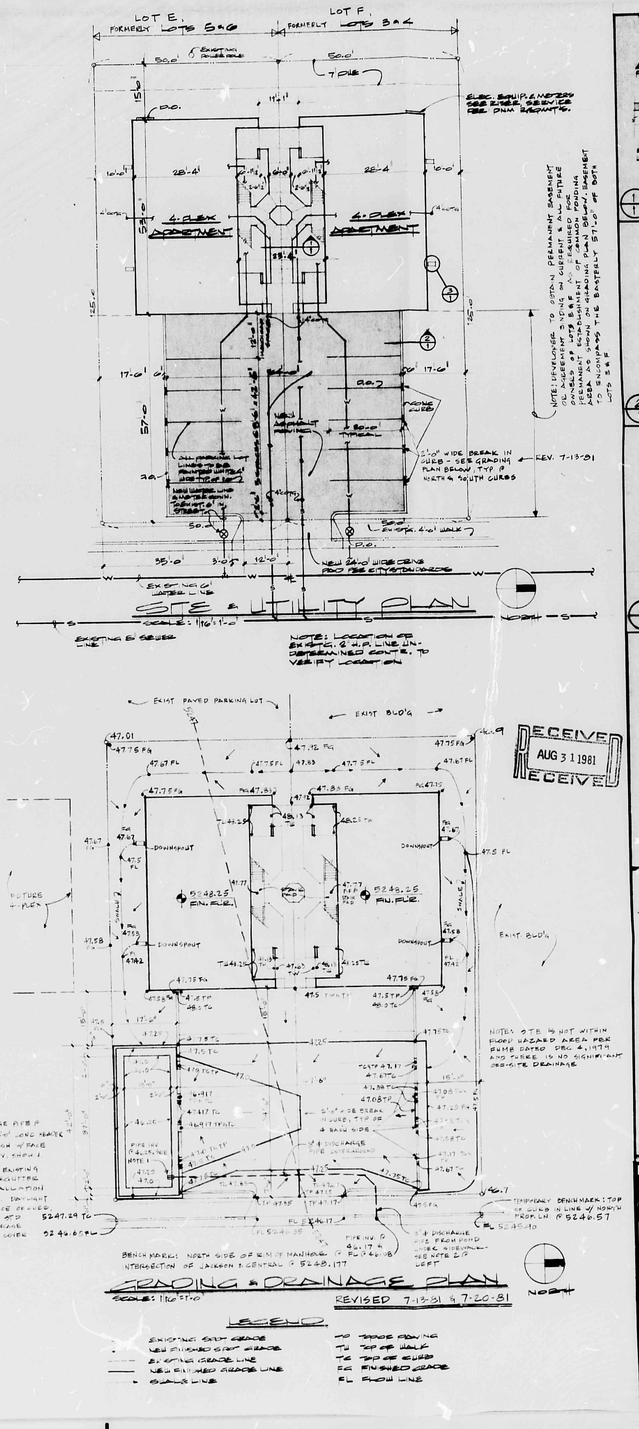


LANDSCAPE SITE PLAN
SCALE: 1"=10'-0"

NORTH

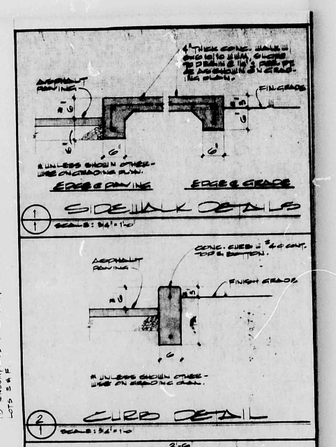
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	REMARKS
HL	CHOKECHERRY	PRUNUS VIRGINIANA MELANOCARPA 'CANADA RED'	2	2 GAL CAN	B&B
P	PINON PINE	PINUS EDULIS	1	2 GAL CAN	B&B
EB	EASTERN REDBUD	CERCIS CANADENSIS	1	2 GAL CAN	B&B
TAM	TAM JUNIPER	JUNIPERUS SABINA TAMARISCIFOLIA	6	5 GAL.	CONTAINER

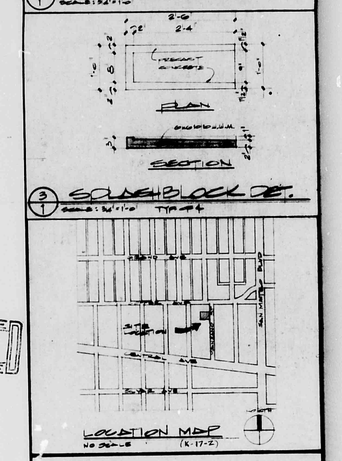
LANDSCAPE SCHEDULE (LOT 5-8 BLK F)

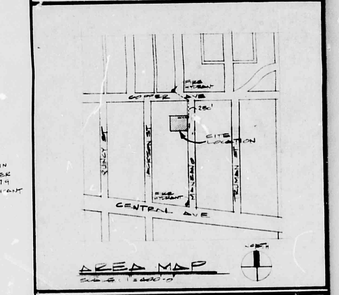


LEGEND

EXISTING GRADE	TG TOP OF CURB
PROPOSED GRADE	TW TOP OF WALL
EXISTING GRADE LINE	TC TOP OF CURB
PROPOSED GRADE LINE	FG FINISHED GRADE
CURB LINE	FL FLOW LINE







no.	date	revision

ART DEKKER
architect · engineer
2403 san mateo n.e. albuquerque, n.m. 87110
plaza 15
505-884-3308 884-3889

4-PLEXES for 3RD CENTURY HOMES
1425, 1429 MANZANO ST. N.E. ALBUQUERQUE N.M.

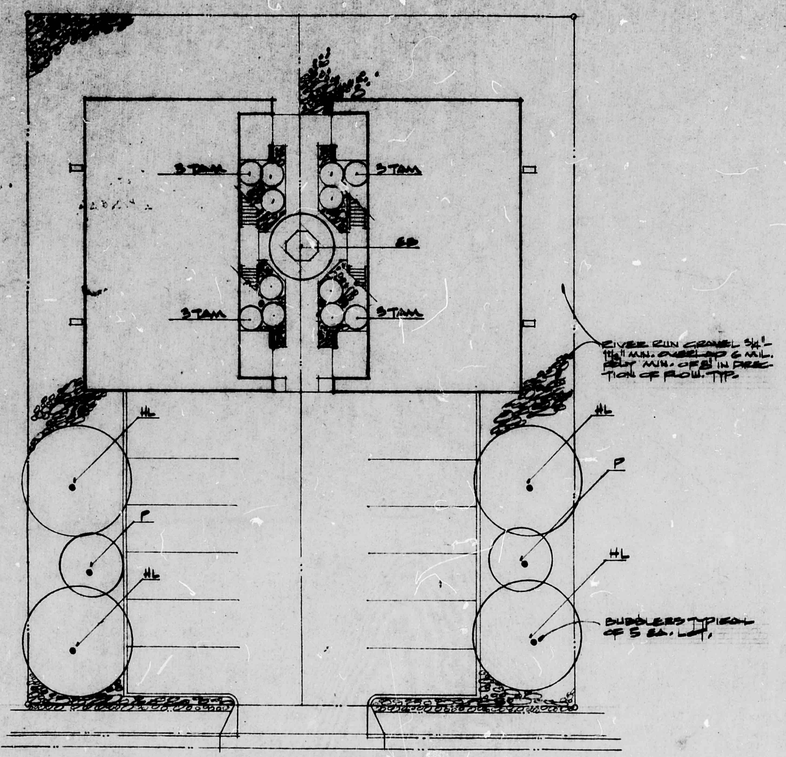
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — NO. 1949 — ARTHUR W. DEKKER

job no.	8116
drn. by	LEE
ck'd by	AWD
issued	8-22-81
sheet	1 of 5

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D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

HYDROLOGY K17/D5 9 PLANS
3 of 3



NOTE: PLAN SHOWN FOR LOTS A & B, SAME FOR LOTS C & D -SEE SHEET #1.

LANDSCAPE SITE PLAN

SCALE: 1/16" = 1'-0"

NORTH

LANDSCAPE SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	REMARKS
HL	HACKBERRY HONEY LOCUST	CELTIS OCCIDENTALIS GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER	2 EACH LOT	2 CALIPER	B & B
P	PINON PINE	PINUS EDULIS OR PONDEROSA	1 EACH LOT	2 CALIPER	B & B
SD	EASTERN REDBUD	CERCIS CANADENSIS	1 EA. 2 LOTS	2 CALIPER	B & B
TAM	TAM JUNIPER	JUNIPERUS SABINA	6 EACH LOT	5 GAL.	CONTAINER

LANDSCAPING
PLANT SIZES
Tree: 1.5 inch in caliper or 10-12 feet in length.
Shrubs: 5 gallon minimum
ZONING DIVISION

LANDSCAPING

I understand that the actual on site landscaping must match exactly that which has been approved on this plan. Any deletions, additions or modifications must be submitted to the zoning section & approved prior to final inspection.

Property owner or authorized representative

3rd Century Corp. by Peter Eckhardt

Date 8-11-81

ZONING SECTION

ALBUQUERQUE BLDG. DEPT. JUL 31 1981 U.B.C. PLAN CHECK SECTION

COPY FOR DRAINAGE

no.	date	revision

ART DEKKER
architect · engineer
2403 san mateo n.e. plaza 15
albuquerque, n.m. 87110
505-884-3305 884-3866

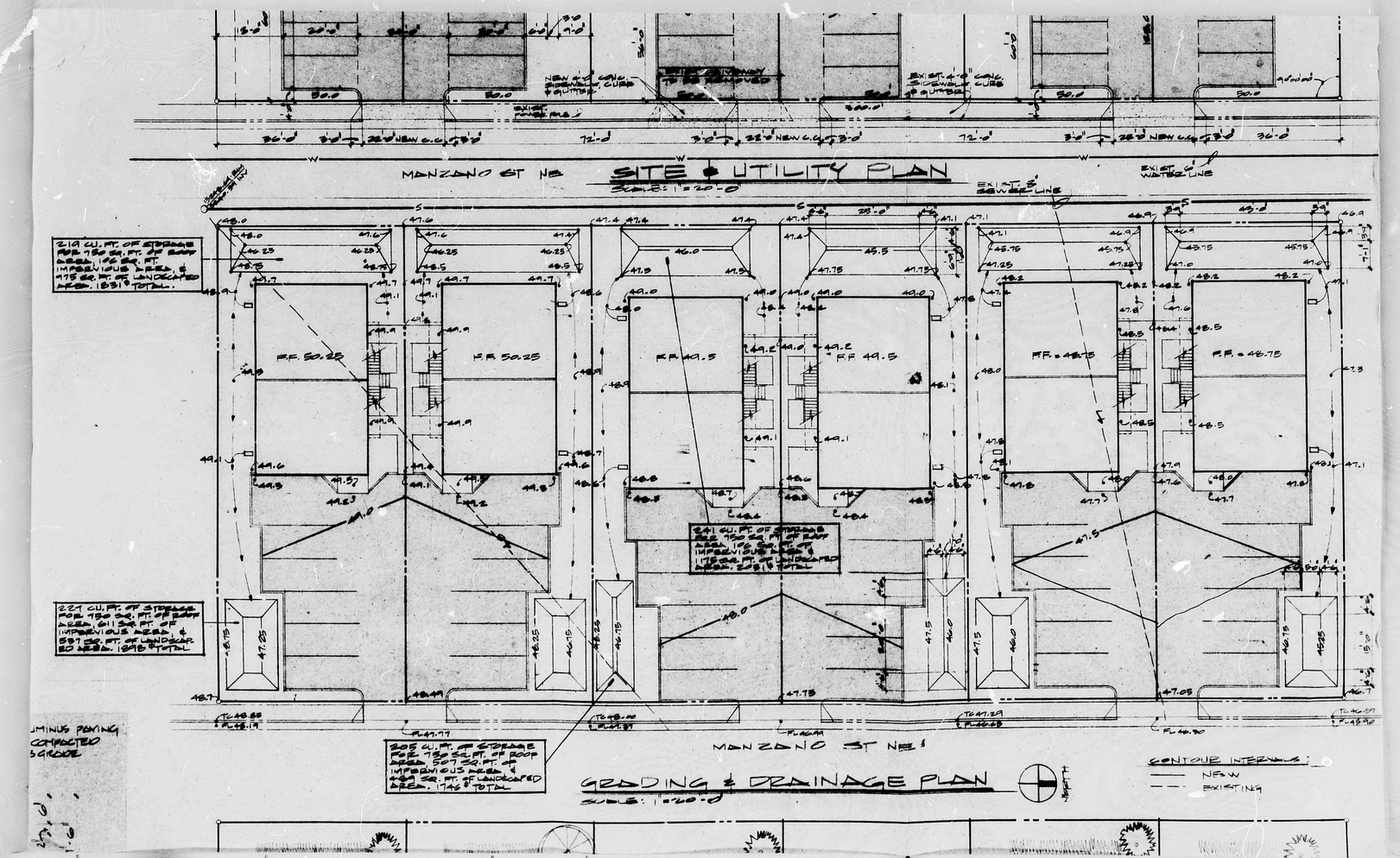
4-PLEXES for 3RD CENTURY CORP.
[illegible] ALBUQUERQUE, N.M.

STATE OF NEW MEXICO REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 1696

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CITY OF ALBUQUERQUE

B
A



CITY OF ALBUQUERQUE
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B 16 A 12
CITY OF ALBUQUERQUE