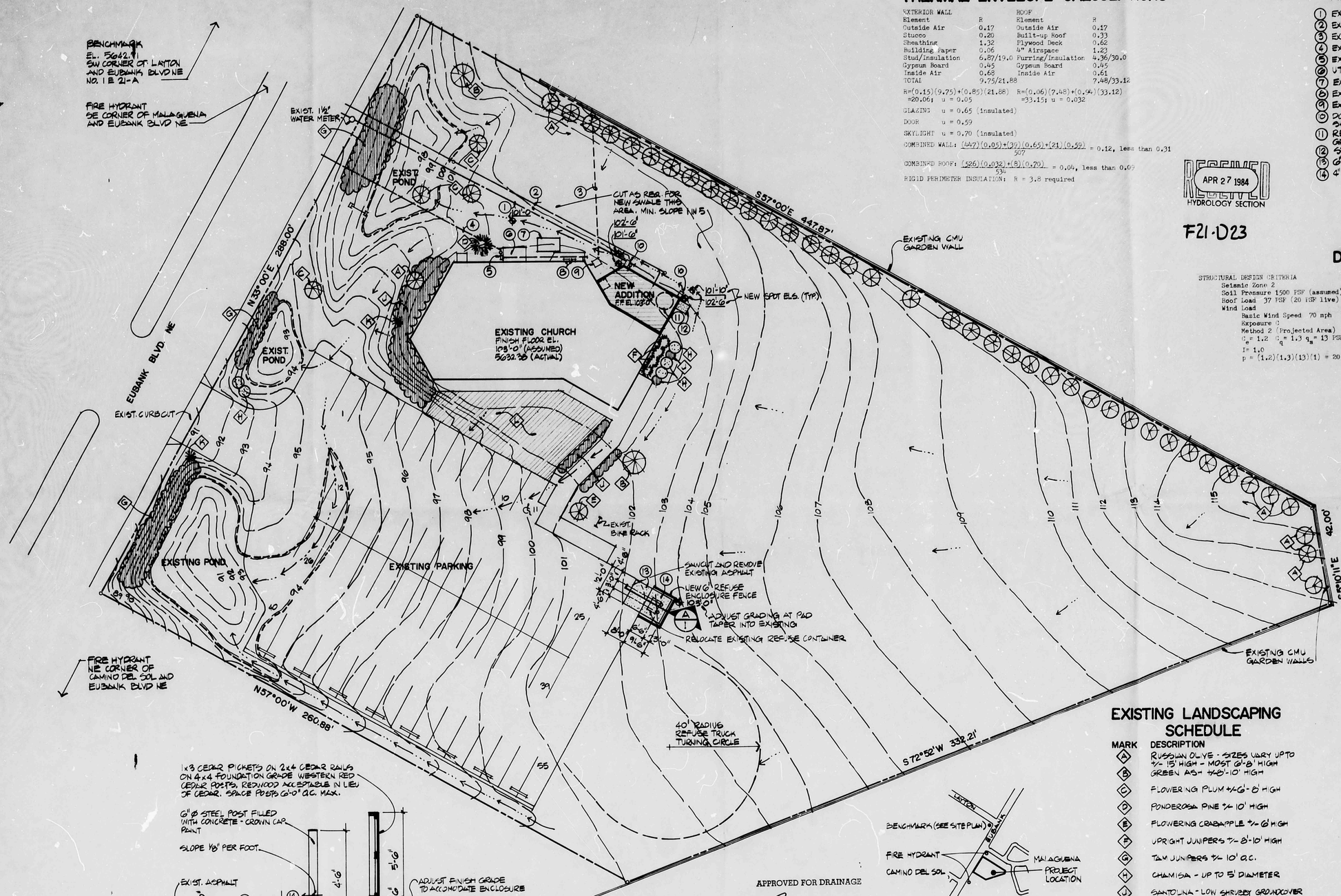
HYDROLOGY F21/D23 NEW LIFE PRESBYTERIAN CHURCH AD

F 21/ D 23

NEW LIFE PRESBYTERIAN CHURCH ADDN.

1 PLAN



THERMAL ENVELOPE CALCULATIONS

EXTERIOR WALL Element	R	ROOF Element	R
Outside Air	0.17	Outside Air	0.17
Stucco	0.20	Built-up Roof	0.33
Sheathing	1.32	Plywood Deck	0.62
Building Paper	0.06	4" Airspace	1.23
Stud/Insulation	6.87/19.0	Furring/Insulation	4.36/30.0
Gypsum Board	0.45	Gypsum Board	0.45
Inside Air	0.68	Inside Air	0.61
TOTAL	9.75/21.88		7.48/33.12

R=(0.15)(9.75)+(0.85)(21.88) =20.06; u = 0.05

R=(0.06)(7.48)+(0.94)(33.12) =33.15; u = 0.032

GLAZING u = 0.65 (insulated)

DOOR u = 0.59

SKYLIGHT u = 0.70 (insulated)

COMBINED WALL: $\frac{(147)(0.05)+(39)(0.65)+(21)(0.59)}{507}$ = 0.12, less than 0.31

COMBINED ROOF: $\frac{(526)(0.032)+(8)(0.70)}{534}$ = 0.04, less than 0.09

RIGID PERIMETER INSULATION: R = 3.8 required

RECEIVED APR 27 1984 HYDROLOGY SECTION

F21-D23

KEYED NOTES

1. EXISTING 1¼" WATER SERVICE
2. EXISTING 4" SEWER (C.I. AT NEW ADDITION)
3. EXISTING 2" TELEPHONE CONDUIT
4. EXISTING GAS YARD LINE
5. EXISTING GAS METER AND REGULATOR
6. UTILITY ENCLOSURE WITH 3'-6" H. FENCE (EXIST.)
7. EXISTING 6'x10' METAL STORAGE SHED
8. EXISTING ELECTRIC METER AND DISCONNECT
9. EXISTING TRANSFORMER
10. DOWNSPOUT AND SPLASHBLOCK - ARROWS SHOW DIRECT ON OF DRAINAGE
11. RELOCATE OR REPLACE TREE AND PLAY-GROUND EQUIPMENT
12. STOOP - SEE FLOOR PLAN
13. 6" CONCRETE APRON W/ #6@4x4W1.4W1.4 WWM
14. 4" CONCRETE SLAB W/ #6@4x W1.4W1.4 WWM

DESIGN CRITERIA

STRUCTURAL DESIGN CRITERIA
Seismic Zone 2
Soil Pressure 1500 PSF (assumed)
Roof Load 37 PSF (20 PSF live)
Wind Load
Basic Wind Speed 70 mph
Exposure C
Method 2 (Projected Area)
C_e = 1.2 C_q = 1.3 q_s = 13 PSF
q_h
I= 1.0
p = (1.2)(1.3)(13)(1) = 20.4

ADDRESS: 5940 Eubank Blvd NE

ZONE ATLAS LOCATION: F-21

ZONING: O-1

LEGAL DESCRIPTION: Parcel C of Tract K, Academy Place Subdivision

UNIFORM PROPERTY CODE: 1-021-061-097-479-21888

PARKING (REQUIRED): $\frac{220}{6}$ = 37 spaces

EXISTING PARKING: 55 spaces, including one handicap space

LANDSCAPING (REQUIRED): 7% of 21,180 SF = 1483 SF

LANDSCAPING (PROVIDED): 1879 SF grass
900 SF santolina
200 SF trees
1525 SF junipers
4504 SF total

REFUSE: A new enclosure is provided for the existing refuse container

HYDROLOGY: 534 SF impervious area added
See attached letter from Hydrology

ENVIRONMENTAL HEALTH: No Commercial Food Service. See attached letter to Environmental Health.

USE OCCUPANCY GROUP: A-3 (Sanctuary)
B-2 (Remainder)

USE: TYPE OF CONSTRUCTION:
Type V-1 hour (existing)
Type V-1 hour (addition)

FLOOR AREA (ACTUAL):

Sanctuary	3301 SF
Offices/Sunday School	1047 SF
SUBTOTAL	4882 SF
New Addition	534 SF
TOTAL	4882 SF

FLOOR AREA PERMITTED:

Group	A-3	B-2
Base Area	10,500	14,000
Separation 4 sides	21,000	28,000

$\frac{3301}{21000} + \frac{1581}{28000}$ = 0.22, permissible

BUILDING HEIGHT: Actual: 10 feet, 1 story
Allowed: 50 feet, 2 stories

OCCUPANT LOAD:

Existing Sanctuary	220
Existing Offices/Corridor	5
Existing Sunday School	6
Existing Utility	1
EXISTING SUBTOTAL	232

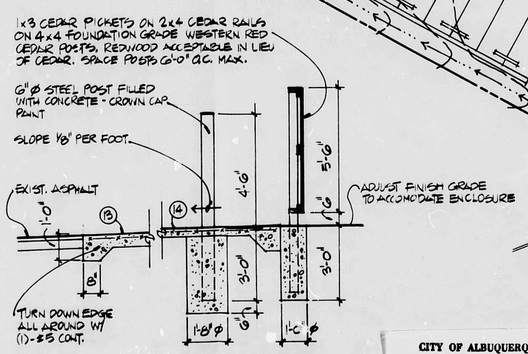
2 exits required from Sanctuary;
3 provided after new construction

4'-8" exit width required;
10'-7" exit width provided

New Classroom/Conference	25
New Kitchen	1
SUBTOTAL FOR ADDITION	26
TOTAL FOR CHURCH	258

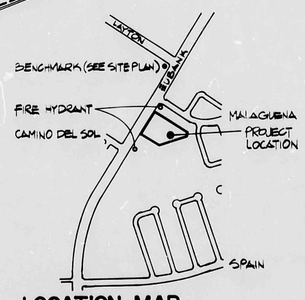
EXISTING LANDSCAPING SCHEDULE

MARK	DESCRIPTION
A	RUSSIAN OLIVE - SIZES VARY UP TO +/- 15' HIGH - MOST 6'-8' HIGH
B	GREEN ASH - +/-8'-10' HIGH
C	FLOWERING PLUM +/-6'-8' HIGH
D	PONDEROSA PINE +/- 10' HIGH
E	FLOWERING CRABAPPLE +/- 6' HIGH
F	UPRIGHT JUNIPERS +/- 8'-10' HIGH
G	TAM JUNIPERS +/- 10' O.C.
H	CHAMISA - UP TO 5' DIAMETER
J	SANTOLINA - LOW SHRUBBY GROUNDCOVER
K	YUCCA
L	LAWN GRASS



REFUSE ENCLOSURE
SCALE: 3/8" = 1'-0"

APPROVED FOR DRAINAGE
SIGNATURE
ADVISE DEVELOPER OF ANY ADDITIONAL CHARGES WHEN GRADING PERMIT IS REQUESTED



LOCATION MAP
NO SCALE

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

SITE PLAN
SCALE: 1" = 20'-0"
BASED UPON ORIGINAL SITE PLAN (APRIL 1, 1978) AND FIELD OBSERVATION

ADDITION TO
NEW LIFE PRESBYTERIAN CHURCH
5940 Eubank Boulevard NE
Albuquerque, NM, 87111
April 9, 1984

Contractor:
Dalen Construction

Architect:
Tyler Mason, AIA
PO Box 907
Cedar Crest, NM
87008 281-1631

F21/D23