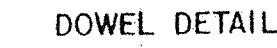
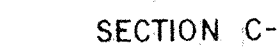
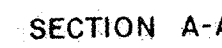




- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- 4.) TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATION SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
- 4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

[illegible]

- A. MATCH NEAREST CONTROL JOINT; INSTALL 1/2" EXPANSION JOINT.
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADIUS (1/4" MINIMUM) CORNERS.
- D. CHECKED-IN STEEL PLATE (PAINT PER NOTE J, ABOVE).
- E. FOR SECURING PLATE USE 1" X 5" S.S. ROD ANCHOR, "RED HEAD MULTI-SET 16 SH-308 ANCHOR" OR APPROVED EQUIV. (MAX. PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C. - A MINIMUM OF 2 PER SIDE AND ONE WITHIN 6" OF EACH END).
- F. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOMELS AT 10" O.C. MAX., 1 1/2" MINIMUM FROM FACE OF CONCRETE.
- G. 3/8" - 16 X 1" COUNTERNUT, F.W., STAINLESS STEEL, MACHINE SCREW.
- H. SLOPE 1/4" PER FT. MIN.
- J. DRAIN WIDTH PER PLAN (12" MIN., 24" MAX.)

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN AS SHOWN HEREON:

- AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED IN THE PERFECTO ARMIJO & BROTHERS ADDITION AT THE SOUTHWEST INTERSECTION OF SEVENTH (7th) STREET N.W. AND GRANITE AVENUE N.W., WITHIN THE CITY LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "J-14-Z").

AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED IN THE PERFECTO ARMIJO & BROTHERS ADDITION AT THE SOUTHWEST INTERSECTION OF SEVENTH (7th) STREET N.W. AND GRANITE AVENUE N.W., WITHIN THE CITY LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "J-14-Z").

THE PROJECT SITE, (1.) DOES NOT LIE WITHIN A FLOOD PLAIN, (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY.

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES.

I. REFERENCES:

- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), VOL. 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.
- B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, (SCS SHEET NO. 30).

A. SOIL TYPE: SOIL TYPE IS GLENDALE LOAM ("Gk"), HYDROLOGIC SOIL GROUP "B".

- B. IMPERVIOUSNESS:
- SITE AREA = 0.978 ACRES, (42,620.0 SQ. FT.).
PRESENT UNDEVELOPED "C" FACTOR = 0.40
- C. TYPE OF SURFACE (DEVELOPED):
EXISTING
- | | | | |
|--------------------------------|-------------|-------------------|--------|
| HARD SURFACED (ASPHALT/GRAVEL) | = 0.014 AC. | = 01 % X (C=0.95) | = 0.01 |
| BUILDING ROOF AREA | = 0.440 AC. | = 45 % X (C=0.90) | = 0.40 |
| LANDSCAPED AREA | = 0.071 AC. | = 07 % X (C=0.25) | = 0.02 |
| UNDEVELOPED AREA | = 0.453 AC. | = 47 % X (C=0.40) | = 0.18 |
- AVERAGE "WEIGHTED" "C" = 0.40

HARD SURFACED (ASPHALT/CONC.)	= 0.401 AC.	= 41% X	(C=0.95) = 0.39
BUILDING ROOF AREA	= 0.240 AC.	= 45% X	(C=0.90) = 0.41
LANDSCAPED AREA	= 0.137 AC.	= 14% X	(C=0.25) = 0.04
UNDEVELOPED AREA	= 0.000 AC.	= 00% X	(C=0.40) = 0.00
AVERAGE "WEIGHTED" 'C'			= 0.84

- D. RAINFALL, 100-YR., 6-HR., R_6 : (SEE REF. A., PLATE 22.2 D-1)
 $R_6 = 2.2$ INCHES.
- E. TIME OF CONCENTRATION, $T_c =$ TEN (10) MINUTES FOR A SITE THIS SIZE
- F. RAINFALL INTENSITY, "I", (SEE REF. A., PLATE 22.2 D-2)
 $I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times (10)^{-0.51} = 4.65$ IN./HR.

UNDEVELOPED: $Q_{100} = 0.63 \times 4.65 \times 0.978 = 2.87 \text{ cfs}$
(EXISTING) $Q_{10} = 0.657 \times 2.87 = 1.89 \text{ cfs}$

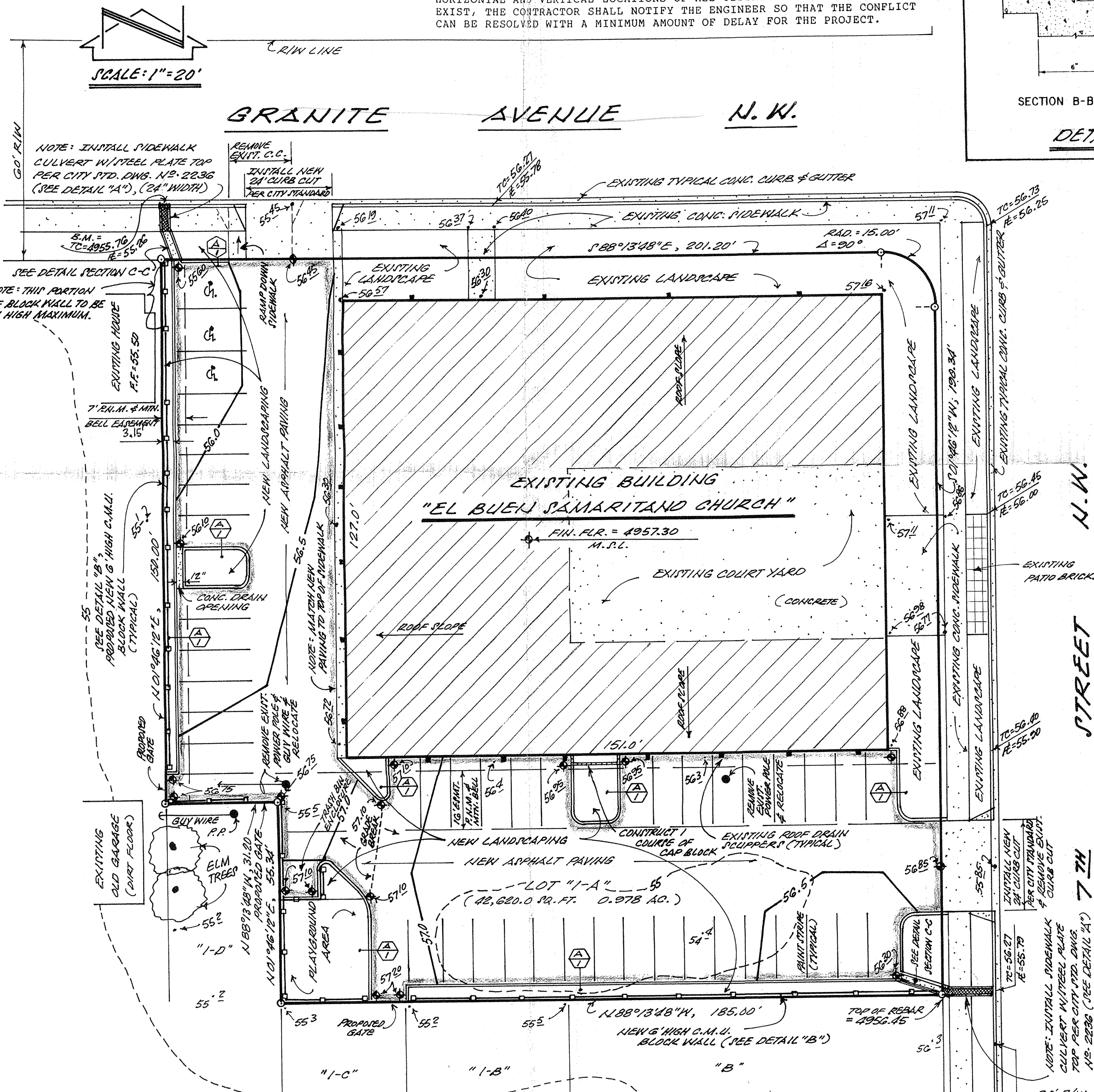
DEVELOPED: $Q_{100} = 0.84 \times 4.65 \times 0.978 = 3.82 \text{ cfs}$
(PROPOSED) $Q_{10} = 0.657 \times 3.82 = 2.51 \text{ cfs}$ ** Q_{100} INCREASE = 0.95

A. EXISTING CONDITIONS:
 $V_{100} = 0.63 \times (2.2/12) \times 42,620.0 = 4,922.6 \text{ CU. FT.}$
 $V_{10} = 0.657 \times 4,922.6 = 3,234.2 \text{ CU. FT.}$

B. DEVELOPED CONDITIONS:
 $V_{100} = 0.84 \times (2.2/12) \times 42,620.0 = 6,563.5 \text{ CU. FT.}$
 $V_{10} = 0.657 \times 6,563.5 = 4,312.2 \text{ CU. FT.}$

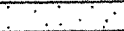
** V_{100} INCREASE = 1,640.9

NOTE: ALL WORK WITHIN PUBLIC EASEMENT SHALL BE PERFORMED UNDER SEPARATE PERMIT.



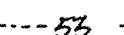
LEGEND :

T.C. = 56.40 = TOP OF CURB ELEVATION
 E = 56.35 = CURB FEEL LINE ELEVATION

 = EXISTING OR PROPOSED CONCRET CURB

--- 55 --- = EXISTING CURTOUR
 — 56 — = PROPOSED CURTOUR

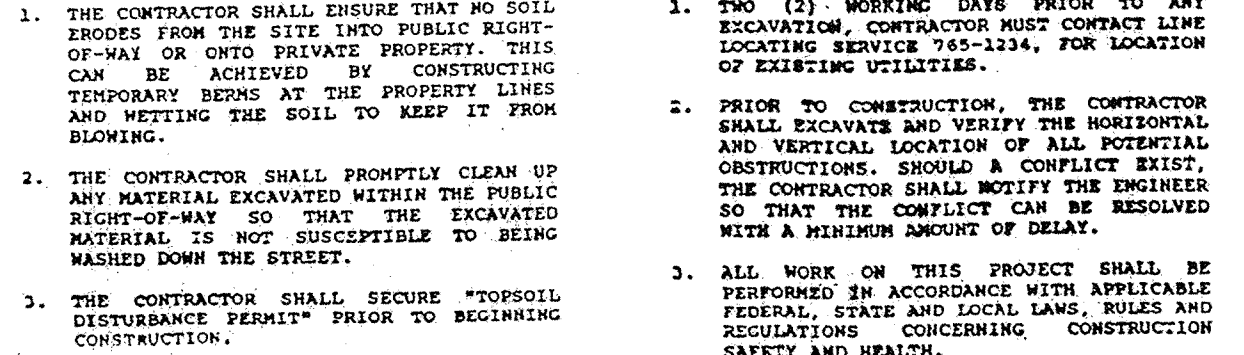
— x — = EXISTING FENCE
 * 52.50 = PROPOSED SPOT ELEVATION

 = PROPOSED LIMIT OF NEW PAVING

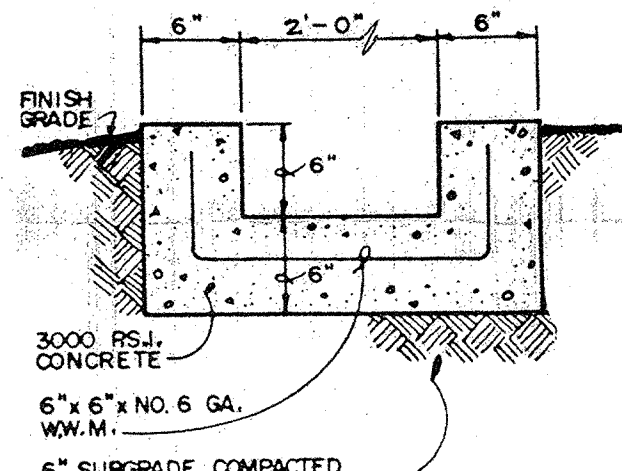
— 55.5 = EXISTING SPOT ELEVATION

LOT "1-A" IN BLOCK NUMBERED THIRTY-TWO (32), OF THE PERFECTO ARMIJO & BROTHERS
ADDITION, AN ADDITION TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
(REPLAT FILED: JANUARY 20, 1988, BK. C35, P. 1370.

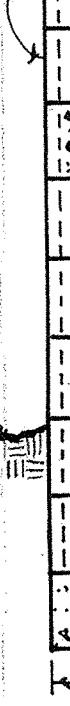
CITY OF ALBUQUERQUE - SURVEY DEPARTMENT STATION "12-J14A", LOCATED AT THE SOUTHWEST INTERSECTION OF 7th STREET N.W. AND MOUNTAIN ROAD N.W., (A SQUARE CUT ON THE TOP OF THE WSW CURB RETURN); M.S.L. DATUM ELEVATION = 4957.76 .



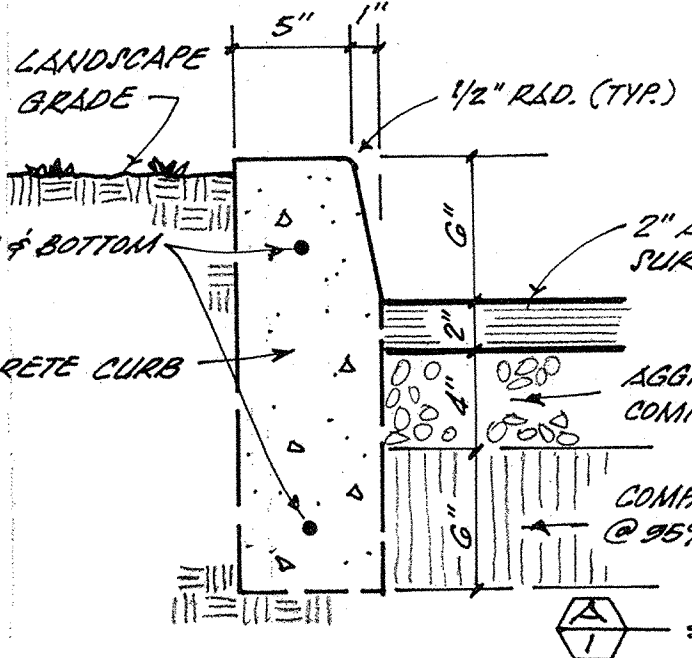
SCALE: 1"=1' 0"



AND 6.0' HIGH)



APPROVALS	NAME	DATE
A.C.E. / DESIGN	B. Matige	14/15/8
INSPECTOR		
A.C.E. / FIELD		



GRADING AND DRAINAGE PLAN
FOR NEW PARKING LOT
EL BUEN SAMARITANO
UNITED METHODIST CHURCH
(7TH STREET N.W. & GRANITE AVENUE N.W.)
ALBUQUERQUE, NEW MEXICO
DECEMBER, 1988