



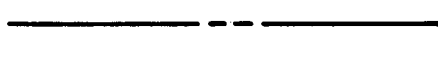
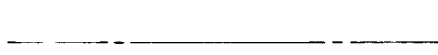

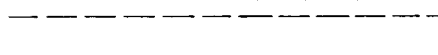


· L E G E N D ·











**MATERIALS**

CONCRETE	
RIP · RAP	

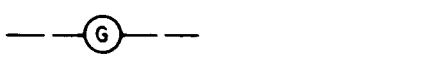


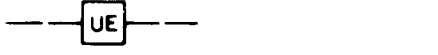
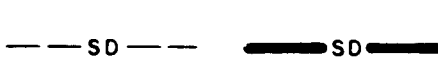

**LINES**

SUBDIVISION BOUNDARY	
PROPERTY LINE (PLAN)	
PROPERTY LINE (SECTION)	
CENTERLINE	
EASEMENT LINE	
MATCH LINE	
SECTION CUT LINE	




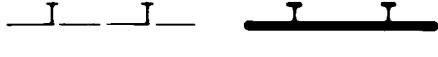
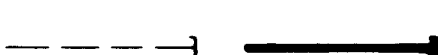
**EARTHWORK**

	EXISTING	NEW
CONTOUR LINE		
SPOT ELEVATION		
PROJECT / PHASE BOUNDARY		
SWALE		
DIRECTION OF FLOW		




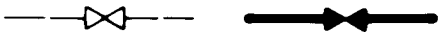


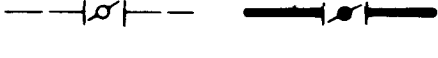
**MISCELLANEOUS UTILITIES**

GAS LINE	
UNDERGROUND TELEPHONE	
UNDERGROUND ELECTRICAL	
STORM DRAIN	
STORM DRAIN MANHOLE	
STORM DRAIN INLET	

**SANITARY SEWER**

SANITARY SEWER LINE	
SANITARY SEWER MANHOLE	
SAS SERVICE CONNECTIONS	
SAS CAP OR PLUG	
ENCASEMENT	






**WATER**

WATER LINE	
WATER SERVICE CONNECTIONS	
GATE VALVE	
FIRE HYDRANT	
BUTTERFLY VALVE	
REDUCER	
WATER PRESSURE ZONE BOUNDARY	

**WATER FITTINGS**

CAPS AND PLUGS	
ELBOW	
CROSS	
TEE	

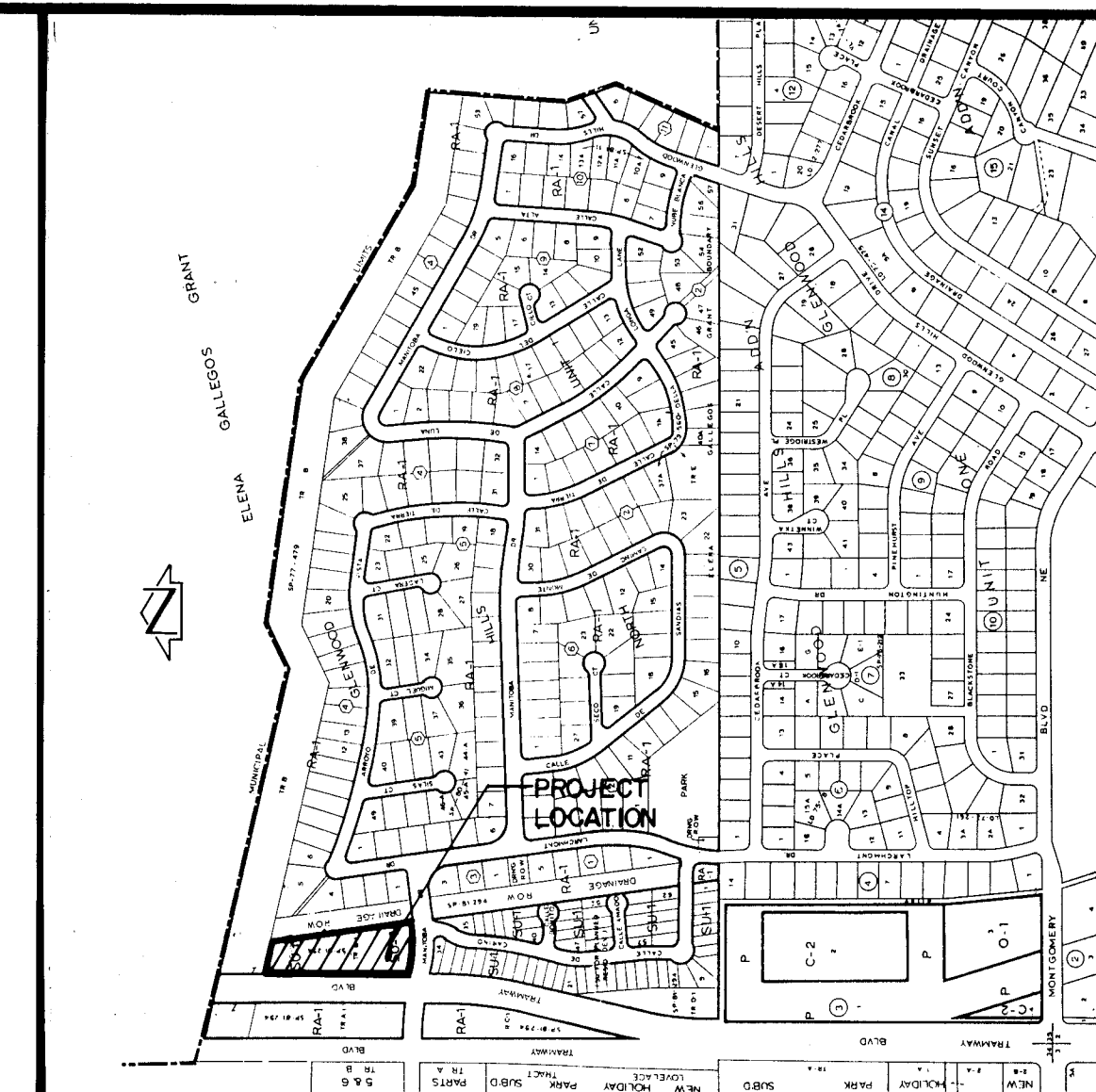
**MISCELLANEOUS**

CHAINLINK FENCE	
FIELD FENCE	
COMMON YARD WALL	
RETAINING WALL	
POWER OR TELEPHONE POLE	

CONSTRUCTION PLANS  
FOR  
**GLENWOOD POINTE**  
SEWER & WATERLINE IMPROVEMENTS  
OCTOBER, 1986

INDEX OF DRAWINGS

STREET NO.	TITLE
1	TITLE, LEGEND, VICINITY MAP, GENERAL NOTES, INDEX OF DRAWINGS
2	FINAL PLAT
3	GRADING PLAN (FOR INFORMATION ONLY)
4	UTILITY SITE PLAN
5	STATION 0+00 TO 3+61.92 WATER (LINE 'A') & SAS PLAN & PROFILE
6	STATION 3+61.92 TO 5+85.00 - WATER (LINE 'A') SAS PLAN & PROFILE
7	STATION 0+00 TO STATION 4+28.5 WATER (LINE 'B') PLAN & PROFILE



VICINITY MAP  
SCALE: 1" = 800'

F-23



GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1985.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT 48 HOURS PRIOR TO CONSTRUCTION.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

APPROVAL OF ALBUQUERQUE  
CITY ENGINEER  
*James B. White*  
5-26-88

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

		APPROVED FOR CONSTRUCTION <i>John H. White</i> 1/28/87 C.E.
3083		SHEET 1 OF 7

1 2 3 4 5 6 7 8 9 10 11  
26 30830188





The following items concerning the Tierra Amada Drainage Plan are contained herein:

#### DRAINAGE PLAN

1. Vicinity Map
2. Grading Plan
3. Calculations

The proposed improvements as shown by the Vicinity Map are located on the north side of Manitoba Drive N.E. and east of Tramway Boulevard N.E. At present, the site is undeveloped. The surrounding area is almost fully developed.

As shown by Plate F-23 of the Albuquerque Master Drainage Study the site does not lie in a designated Flood Hazard Zone. Further study of this plate reveals the site is adjacent to the 75' drainage right-of-way of the Bear Canyon Arroyo. The drainage study indicates that all flood waters are contained within the 75' drainage right-of-way and the Bear Canyon Arroyo. The channel within the 75' drainage right-of-way is approximately 18' deep with earth sides. Treatment of the channel sides has been inconsistent and generally is non-existent. Since this project will not flow waters over the sides of the channel, there are no plans for bank stabilization. Bank stabilization would be inappropriate for a single project in this reach of the channel when the majority of upstream projects have not had any stabilization.

A portion of Manitoba Drive N.E. is temporary paving. That is a result of the future plans for the widening of Tramway Boulevard. Tramway will be developed as a divided arterial section. At the present time Bernalillo County is preparing for consultant selection for the design of Tramway which would also include the small portion of Manitoba that is now temporary paving. In all probability, Tramway will be designed as it was south of Montgomery. There will be slopes from the property down to jarring paths and bike lines. The slopes will be stabilized by seeding. The plans for this project would lend very well to the anticipated future design of Tramway.

The project site is bounded on the east and north by the 75' drainage right-of-way and the Bear Canyon Arroyo which prevent flow from entering the site. The site is above the proposed location of Tramway and for the most part is above Manitoba Drive. Therefore, offsite flows do not affect this project.

The grading plan shows (1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, (2) the continuity between existing and proposed elevations, (3) the limit and character of the existing and proposed grading, and (4) the limit and character of the proposed improvements. As shown by this plan, the proposed improvements consist of the construction of apartment buildings, with associated parking, landscaping, and recreational areas. At present, the site drains to the southwest corner of the site and discharges into the Bear Canyon Arroyo. The Grading Plan indicates that a depression will be created in the center of the site and all runoff from the site will be directed to the depressed area. Very minor flows along the edges of the site will escape onto the adjoining right-of-ways. The flows to the center of the site will be collected by a catch basin and piped through a 24" CMP to the 75' drainage right-of-way. The inlet to the channel will be very close to the intersection of the channel and the Bear Canyon Arroyo, therefore, there is a large capacity to receive the flows. The intersection with the Bear Canyon Arroyo is upstream from the John Robert Inn, thereby providing adequate storage facilities. A retaining wall will be placed along a portion of Tramway to stabilize the bank and assure that all flows are inward during the interim period prior to construction of Tramway.

The discharge of flows from the site in the manner indicated allows the timely and orderly construction of this project without causing any influence on the design of Tramway or Manitoba. Conversely, the design of those two streets by Bernalillo County should not hold up the progress of this project.

The calculations which appear below analyze both the existing and developed conditions for the 100-year, 4-hour rainfall event. The Soil Conservation Service Method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II. As shown by these Calculations, the proposed improvements will result in an increase in runoff discharged from the site. This pattern of runoff is consistent with the pre-design conference recap which accompanies this submittal.

#### GROUND COVER INFORMATION

From RCS Bernalillo County Soil Survey, Plate 22  
Hydrologic Soil Group: Embudo R2C - 8  
Existing Porous CN = 70 (DPM Plate 22.2 C-2)  
Pasture or Range Land: Fair condition  
Developed Porous CN = 61 (DPM Plate 22.2 C-2)  
Time of Concentration/Time to Peak  
 $T_c = 0.0078 \frac{1.0-77}{50.385}$  (Kirpich Equation)  
 $T_p = T_c = 10 \text{ min.}$

#### POINT RAINFALL

$P_2 = 2.5 \text{ in. (DPM Plate 22.2 D-1)}$

#### EXISTING CONDITION

$A_{total} = 101,059 \text{ sf} = 2.32 \text{ ac}$

$A_{imp} = 0 \text{ sf}; \text{ Impervious} = 0 \%$   
Composite CN = 70 (DPM Plate 22.2 C-3)

$Q_p = 45.4 \text{ A/Tp} = 10.5 \text{ cfs/in runoff}$

$Q_{100} = Q_{peak} \times Q_p \text{ (DRO)} = 5.3 \text{ cfs}$

$V_{100} = 3630 \text{ (DRO)} \times A = 4,211 \text{ cf}$

$A_{total} = 101,059 \text{ sf} = 2.32 \text{ ac}$

$A_{imp} = 41,859 \text{ sf}; \text{ Impervious} = 81 \%$   
Composite CN = 91 (DPM Plate 22.2 C-3)

$Q_p = 45.4 \text{ A/Tp} = 10.5 \text{ cfs/in runoff}$

$Q_{100} = Q_{peak} \times Q_p \text{ (DRO)} = 16.8 \text{ cfs}$

$V_{100} = 3630 \text{ (DRO)} \times A = 13,475 \text{ cf}$

#### COMPARISON

$Q_{100} = 16.8 - 5.3 = 11.5 \text{ cfs (increase)}$

$V_{100} = 13,475 - 4,211 = 9,264 \text{ cf (increase)}$

#### INLET CAPACITY

$Q = C_v \sqrt{H} \times A$   
 $Q = 0.6 \sqrt{12.2} \times 6.9 = 27.8 \text{ cfs} > 16.8 \text{ cfs}$

#### 24" CMP CAPACITY

$Q = (1.49/n) \times A \times S^{2/3} \times 1/2$   
 $Q = (1.49/0.026) \times (3.14) \times (0.63) \times (0.1549) = 17.6 \text{ cfs}$

#### EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.

3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

#### CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 765-1234, FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THEREOF, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		

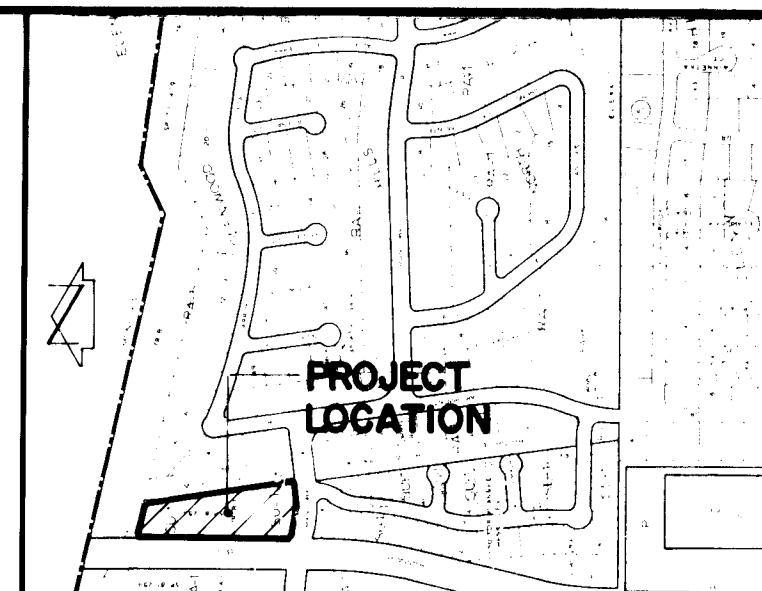
PROJECT BENCHMARK  
ACS STA. 1+22  
ELEVATION = 5997.02 FEET (MSLD)

T.B.M.  
TOP OF CONCRETE ELEVATION @ N.W. CORNER OF CONCRETE  
RUNDOWN AS SHOWN BELOW  
ELEVATION = 5992.49 FEET (MSLD)

LEGAL DESCRIPTION  
TRACT B-1, TIERRA AMADA TOWNHOMES

#### LEGEND

- 5900' EXISTING CONTOUR
- 00' PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED CONCRETE
- EXISTING CONCRETE
- NEW ASPHALT PAVEMENT
- SWALE
- RETAINING WALL
- TW TOP OF WALL



VICINITY MAP  
SCALE 1" = 800'

F-23

#### SECTION B-B

SCALE: 1" = 3'-0"

#### SECTION C-C

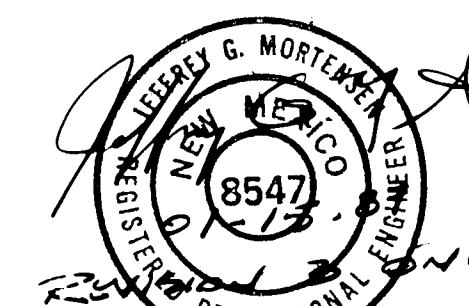
SCALE: 1" = 3'-0"

#### CONCRETE DRIVEPAD DETAIL

SCALE: 1" = 2'-0"

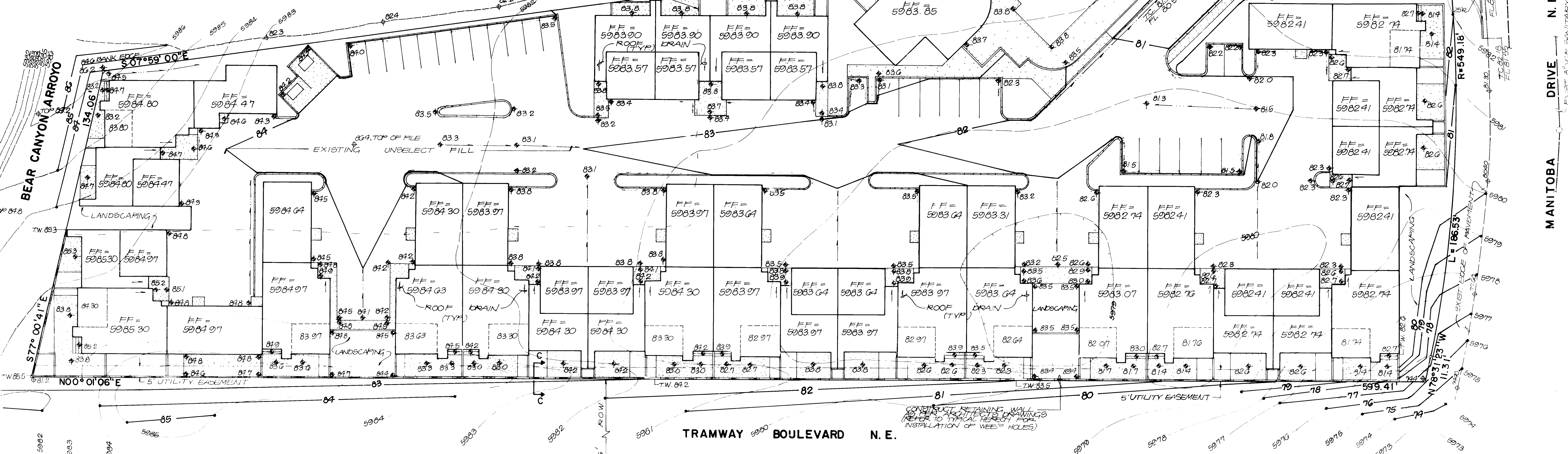
#### SECTION A

NTS



#### SECTION C (TYP)

NTS



TRAMWAY BOULEVARD N.E.

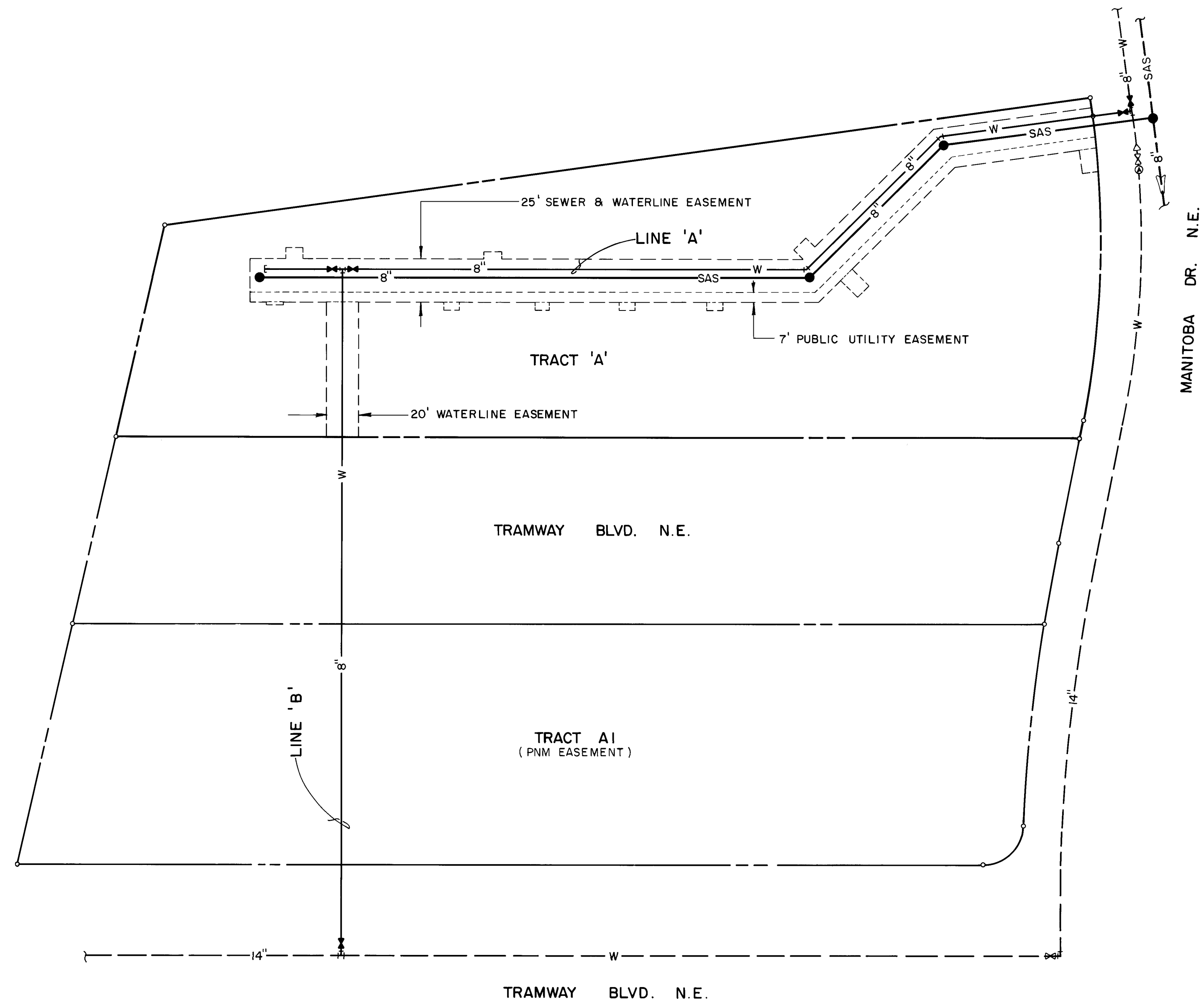
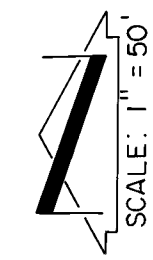
MANITOBA DRIVE N.E.

26 30830388

	NO.	DATE	BY	REVISIONS	DESIGNED BY	R.P.	JOB NO.	60692
	1	9/86	R.P.	RELOCATE ON-SITE INLET & REVISE GRADING.	DRAWN BY	T.M.A.	DATE	4-86
	2	12/86	U.R.	REVISE RUNDOWN & INDICATE INVERTS	APPROVED	T.T.M.		
	3	01/87	U.R.	REVISE PRIVATE ENTRANCE				

GRADING & DRAINAGE PLAN  
GLENWOOD POINTE

3083  
+3 x 7



26 30830488



811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110  
ENGINEERS

NO.	DATE	BY	REVISIONS

DESIGNED BY R. PAUL  
DRAWN BY R. TORRES  
APPROVED T. MAH

FILE NO.  
**60692**  
DATE  
**10 • 86**

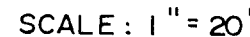
GLENWOOD POINTE  
UTILITY SITE PLAN

FILE NO. **3083**  
**3086**  
SHEET **4** OF **7**

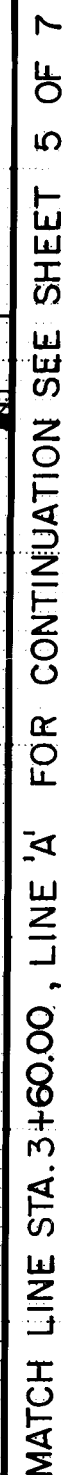




	TC	FL
1	82.03	81.64
2	—	81.82
3	82.51	82.01



HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 10'



WATERLINE AND SANITARY SEWER NOTES:

1. ALL STATIONING IS BASED ON CENTERLINE OF EASEMENT UNLESS INDICATED OTHERWISE.
2. THE CONTRACTOR SHALL FURNISH ELECTRONIC MARKER DISKS (EMD) ON ALL SEWER AND WATER SERVICE STUBS, CAPS AND PLUGS.
3. WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE WATER RESOURCES DIVISION.
4. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE).
5. ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
6. WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PRESSURE PIPE, IT SHALL BE CONCRETE ENCASED 10' EACH SIDE OF WATER LINE.
7. ALL SEWER PIPE SHALL BE PVC C-900 PRESSURE PIPE.
8. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING S-2-3 UNLESS OTHERWISE NOTED.
9. VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE IN LIEU OF PVC FOR SANITARY SEWER LINES.
10. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME OF CONSTRUCTION. THEREFORE, THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

26 308 30688



811 DALLAS, N.E. • ALBUQUERQUE  
NEW MEXICO • 87110  
ENGINEERS

CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION

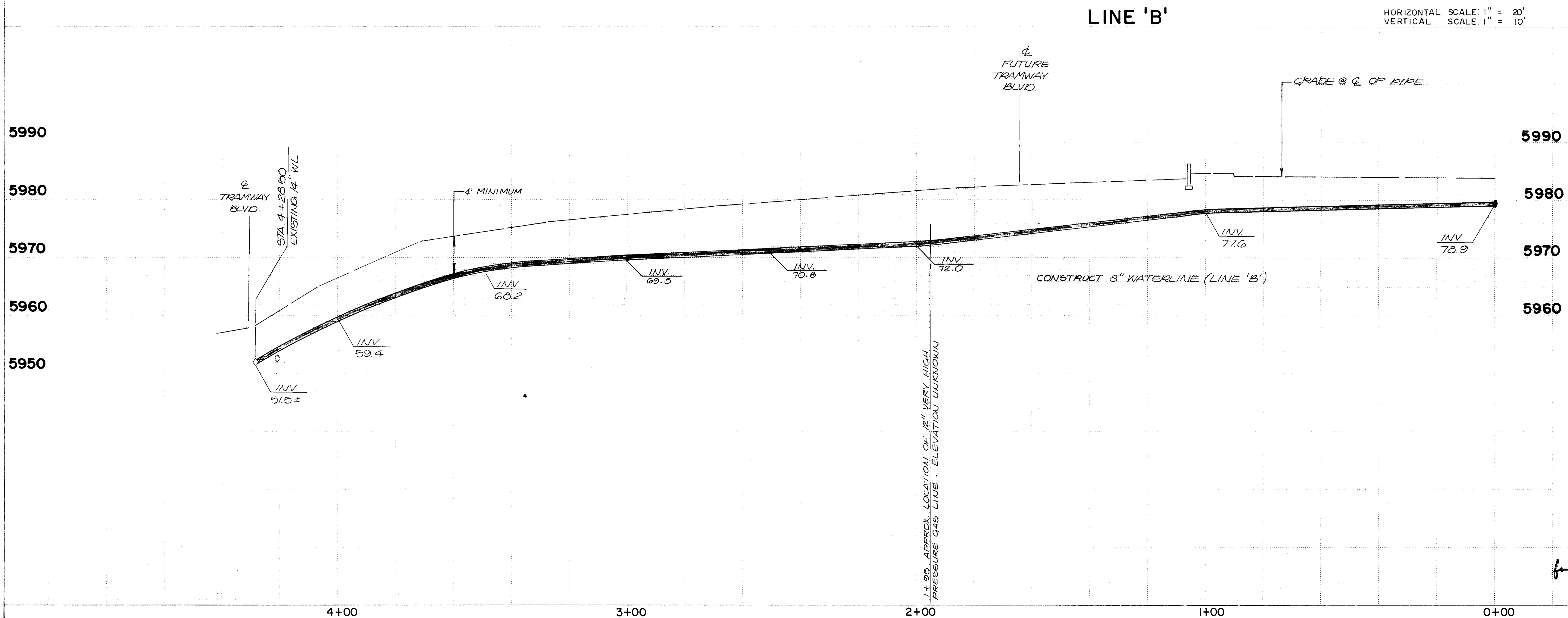
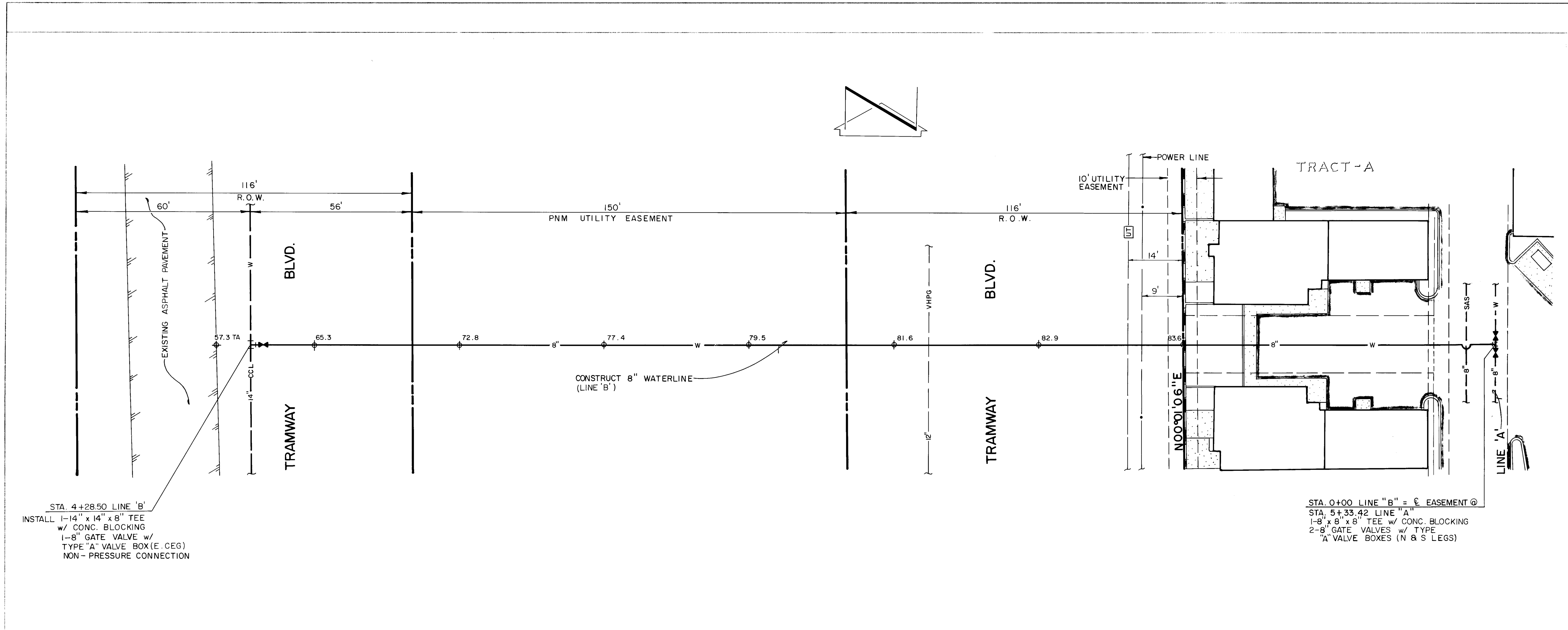
TITLE: GLENWOOD POINTE  
WATER (LINE 'A') & SAS PLAN & PROFILE  
STA. 3+66.31 TO STA. 5+87.30

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	1/2/97	Liquid Waste	<i>[Signature]</i>	1/8/97
A C E - Design	" "	"	Traffic	NADW H	1/8/97
A C E -Hydrology	" "	"	Water	<i>[Signature]</i>	1/8/97

DRAWING NO.	3083	MAP NO.	F-23	SHEET	6	OF	7
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JOB NO. 60692





- WATERLINE AND SANITARY SEWER NOTES:
- ALL STATIONING IS BASED ON CENTERLINE OF EASEMENT UNLESS INDICATED OTHERWISE.
  - THE CONTRACTOR SHALL FURNISH ELECTRONIC MARKER DISKS (EMD) ON ALL SEWER AND WATER SERVICE STUBS, CAPS AND PLUGS.
  - WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE WATER RESOURCES DIVISION.
  - WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE).
  - ALL PIPE SHALL BE FURNISHED WITH CLASS 10' BEDDING UNLESS OTHERWISE NOTED. ALL TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
  - WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PRESSURE PIPE, OR SHALL BE CONCRETE ENCASED 10' EACH SIDE OF WATER LINE.
  - ALL SEWER PIPE SHALL BE PVC C-900 PRESSURE PIPE.
  - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING S-2-3 UNLESS OTHERWISE NOTED.
  - VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE IN LIEU OF PVC FOR SANITARY SEWER LINES.
  - IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

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81 DALLAS N.E. - ALBUQUERQUE ENGINEERS

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION

TITLE: GLENWOOD POINTE WATER (LINE 'B') PLAN & PROFILE STA. 0+00 TO 4+28.5

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	1/2/87	Liquid Waste	<i>[Signature]</i>	1/8/87
A.C.E. - Design	"	"	Traffic	NA DWH	1/8/87
A.C.E. - Hydrology	"	"	Water	<i>[Signature]</i>	1/8/87

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL	REVISIONS	DESIGN	NO.	DATE	BY
CONTRACTOR: Sundance Mech.	1. A STANDARD ACS BRASS TABLET, STAMPED "1"-F22", SET IN TOP OF A CONCRETE POST PROJECTING 0.3' ABOVE GROUND LOCATED ON THE NORTH SIDE OF MANITOBA ST., 0.0' WEST OF THE ROAD JUNCTION.	NO. BY DATE		NO. DATE	DESIGNED BY: R. PANG	10/86		
INSPECTOR: City	2. FIELD MEASUREMENT BY: J. CALA				DRAWN BY: J. CALA	10/86		
DATE: 1/2/87	3. DATE OF FIELD MEASUREMENT: 1/2/87				CHECKED BY: T. MANN	10/86		
DATE: 1/2/87	4. DATE OF FIELD MEASUREMENT: 1/2/87							