

LEGEND

MATERIALS

CONCRETE
RIP-RAP

LINES

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

EARTHWORK

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

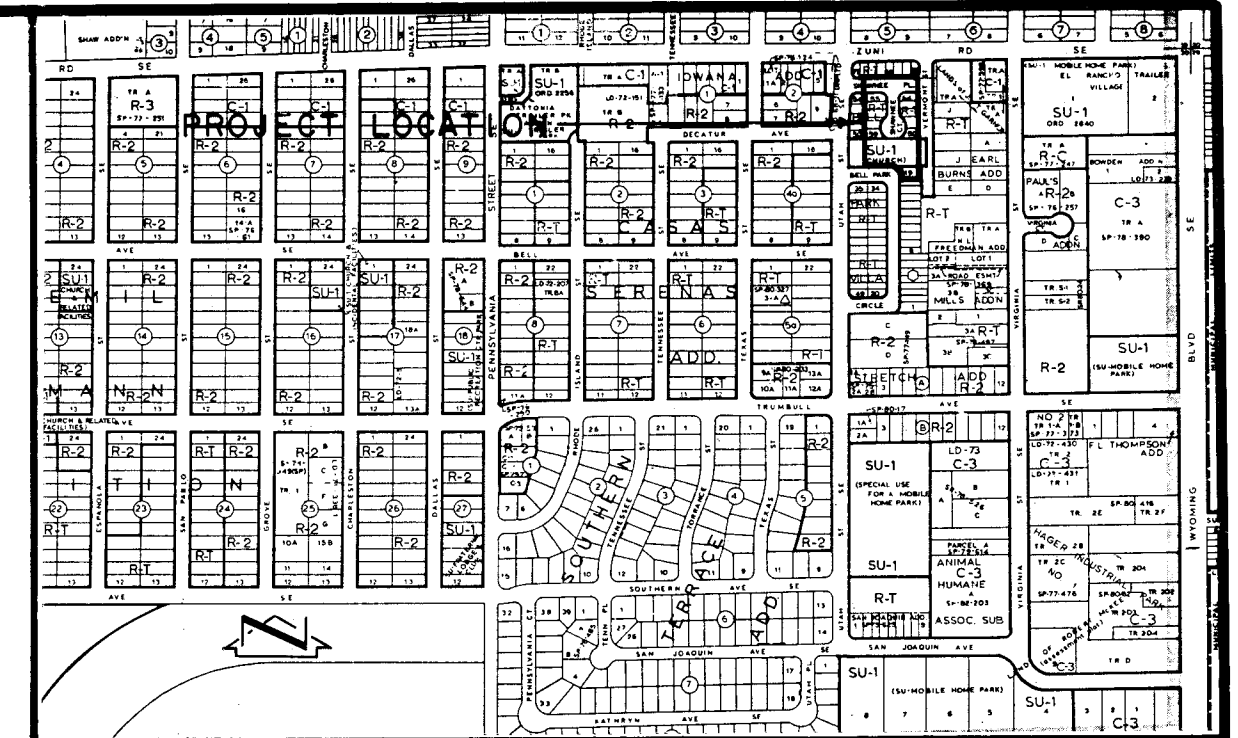
FOR

BELL PARK VILLA
ALBUQUERQUE, NEW MEXICO
AUGUST 1986

INDEX OF DRAWINGS

DESCRIPTION

| SHEET NO. | TITLE |
|-----------|---|
| 1. | TITLE, LEGEND, VICINITY MAP, GENERAL NOTES, INDEX OF DRAWINGS |
| 2. | FINAL PLAT |
| 3. | GRADING PLAN (FOR INFORMATION ONLY) |
| 4. | UTILITY PLAN & PROFILE |
| 5. | PAVING PLAN & PROFILE |



VICINITY MAP
SCALE: 1" = 800'

L-19

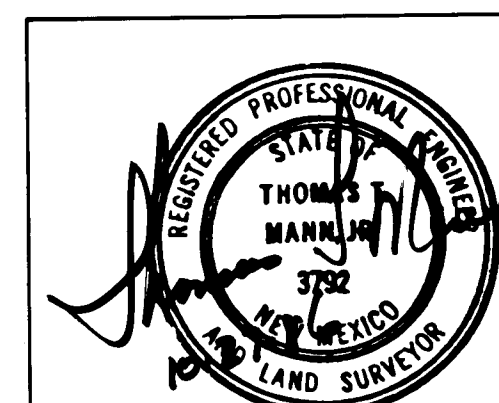
GENERAL NOTES:

- 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 DEPRESSIONED 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.

APPROVED AS BUILT DRAWINGS
ASST. CITY ENGINEER FIELD
[Signature]
DATE 7-14-87

26 30750187

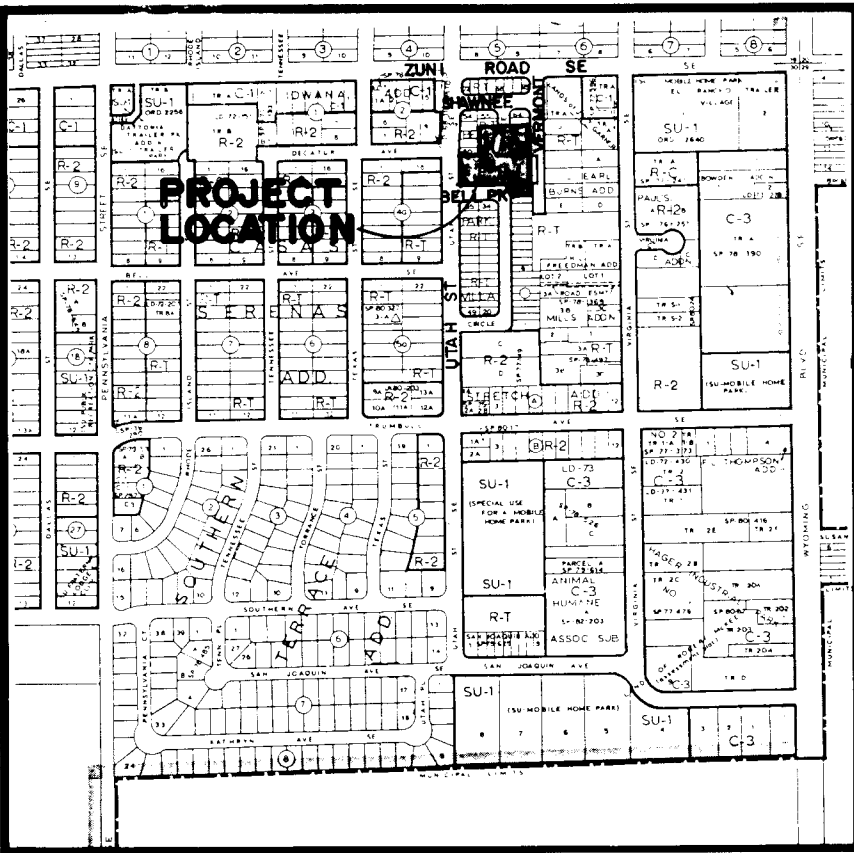
| REV | SHEETS | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE |
|-----------------------|--------|---------------|------|-----------------|------|-----------------|------|
| APPROVAL OF REVISIONS | | | | | | | |



APPROVED FOR CONSTRUCTION
[Signature]
3/1/87 C.E.

3075

SHEET 1 OF 5



VICINITY MAP

SCALE: 1" = 800'

L-19

SUBDIVISION PLAT OF
BELL PARK VILLA TOWNHOUSES, UNIT 2
 A REPLAT OF
 LOTS 19, 57-62, VACATED PUBLIC RIGHT-OF-WAY
 IN SHAWNEE COURT S.E., AND THE ADJOINING UNPLATTED PARCEL
 BELL PARK VILLA TOWNHOUSES
 ALBUQUERQUE, NEW MEXICO
 JULY, 1986

DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque, comprising Lots 19, 57 through 62, a portion of Shawnee Court S.E., vacated by V-86-104, and the adjoining unplatted parcel of land, Bell Park Villa Townhouses, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on July 25, 1983, Book C-21, Page 164, and being more particularly described as follows:

Beginning at the northeast corner of the parcel herein described, being the northeast corner of said Lot 62, and also being a point on the west right-of-way line of Vermont Street S.E.; thence S 00°31'00" W a distance of 267.65 feet along said right-of-way line; thence N 89°29'00" W a distance of 79.00 feet to a point on the east right-of-way line of Bell Park Circle S.E.; thence N 00°31'00" E a distance of 14.55 feet along said right-of-way line; thence along the arc of a curve to the left with DELTA = 90°15'00", R = 25.00 feet, and L = 39.38 feet along said right-of-way line; thence N 89°44'00" W a distance of 174.63 feet along said right-of-way line to a point on the east right-of-way line of Utah Street S.E.; thence N 00°31'00" E a distance of 110.00 feet along said right-of-way line; thence S 89°44'00" E a distance of 76.87 feet; thence N 00°31'00" E a distance of 42.00 feet; thence N 02°57'59" E a distance of 32.03 feet; thence N 00°31'00" E a distance of 44.00 feet; thence S 89°29'00" E a distance of 99.50 feet to the centerline of Shawnee Court S.E.; thence N 00°31'00" E a distance of 0.53 feet along said centerline; thence S 89°29'00" E a distance of 101.00 feet to the point of beginning and containing 1.3234 acres more or less.

Notes:

- No field work was performed.
- 0.03 mi. full-width street created.
- All distances are ground distances.
- Site located within Section 30, T10N, R4E, N.M.P.M.
- Bearing base is plat of "Amended plat of Bell Park Villa Townhomes" filed July 25, 1983, Book C21, Page 164.
- The purpose of this plat is to show the public right-of-way and easements vacated by V-86-104, and create Lots A through K, Lot 19-A, Lot 57-A, and Lot 62-A, plus dedicate additional public right-of-way and grant additional easements as shown hereon.



811 DALLAS N.E. • ALBUQUERQUE • NEW MEXICO • 87110
 ENGINEERS
 JOB NO. 61081

DEDICATION AND FREE CONSENT

The undersigned owners of the land shown hereon do hereby consent to the subdivision of said land in the manner shown on this plat and do hereby dedicate the rights-of-way and grant the easements shown including the rights of ingress and egress and the right to trim interfering trees.

LOT 57, JOHN DUFAY
 LOT 62, JOHN DUFAY
 LOT 19, ANDREW L. PALMER
 LOT 19, ANNA MARIE ELISABETH PALMER
 LOT 51-B, AND EASTERLY PORTION OF UNPLATTED PARCEL
 LAWRENCE A. GARCIA
 BEA ANNA GARCIA
 F. DARRELL LANCE
 BETSY L. LANCE
 ACKNOWLEDGEMENT
 STATE OF NEW MEXICO)
 COUNTY OF BERNALILLO) SS

C33
116

The foregoing instrument was acknowledged before me this

17th day of September, 1986
 Juan M. Cala
 Notary Public

DRB. 86-503 5-86-50

APPROVALS:

Jack Clend 4-24-87
 Planning Director, City of Albuquerque, N.M. Date
Jon E. Ertsgaard 3/10/87
 Water Utilities, City of Albuquerque, N.M. Date
Frank J. Jarama 4-8-87
 City Engineer, City of Albuquerque, N.M. Date
Frank J. Jarama 4-8-87
 A.M.A.C.E.A. Date
Robert A. Lamm 3-10-87
 Traffic Engineer, City of Albuquerque, N.M. Date
John H. McHenry 4-1-87
 Parks and Recreation, City of Albuquerque, N.M. Date
Ken Clute 09/08/86
 Chief City Surveyor, City of Albuquerque, N.M. Date
John H. McHenry 4-1-87
 Property Manager, City of Albuquerque, N.M. Date
John H. McHenry 9-25-86
 Public Service Company of New Mexico Date
John H. McHenry 9-24-86
 Gas Company of New Mexico Date
Sherry Hunt 9-25-86
 Mountain Bell Date

CERTIFICATION
 I, Thomas T. Mann, Jr., a registered Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my supervision; shows all easements noted in a title report prepared by SOUTHWEST GUARANTY & TITLE CO. on JULY 1, 1986 (SF NO. 5102 MD-58); meets the minimum requirements of monumentation and surveys of the Albuquerque Subdivision Ordinance and is true and correct to the best of my knowledge and belief.

Thomas T. Mann, Jr. 9-17-86
 State of New Mexico
 3792
 NEW MEXICO
 LAND SURVEYOR

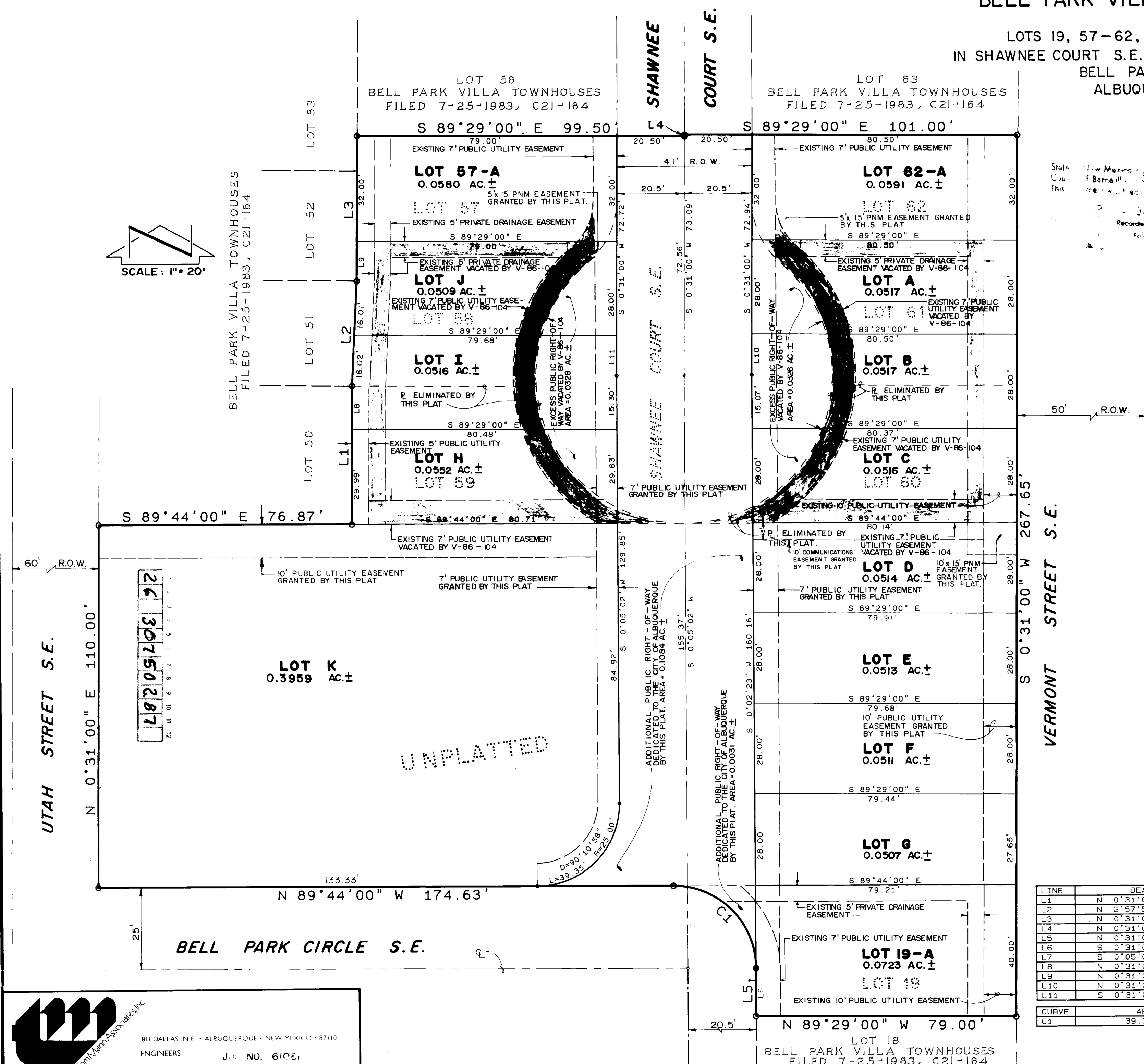
ACKNOWLEDGEMENT
 STATE OF NEW MEXICO)
 COUNTY OF BERNALILLO) SS

The foregoing instrument was acknowledged before me on this
 17th day of September, 1986
 Juan M. Cala
 Notary Public

SHEET 1 OF 2

08742315

SUBDIVISION PLAT OF
BELL PARK VILLA TOWNHOUSES, UNIT 2
 A REPLAT OF
 LOTS 19, 57-62, VACATED PUBLIC RIGHT-OF-WAY
 IN SHAWNEE COURT S.E., AND THE ADJOINING UNPLATTED PARCEL
 BELL PARK VILLA TOWNHOUSES
 ALBUQUERQUE, NEW MEXICO
 JULY, 1986

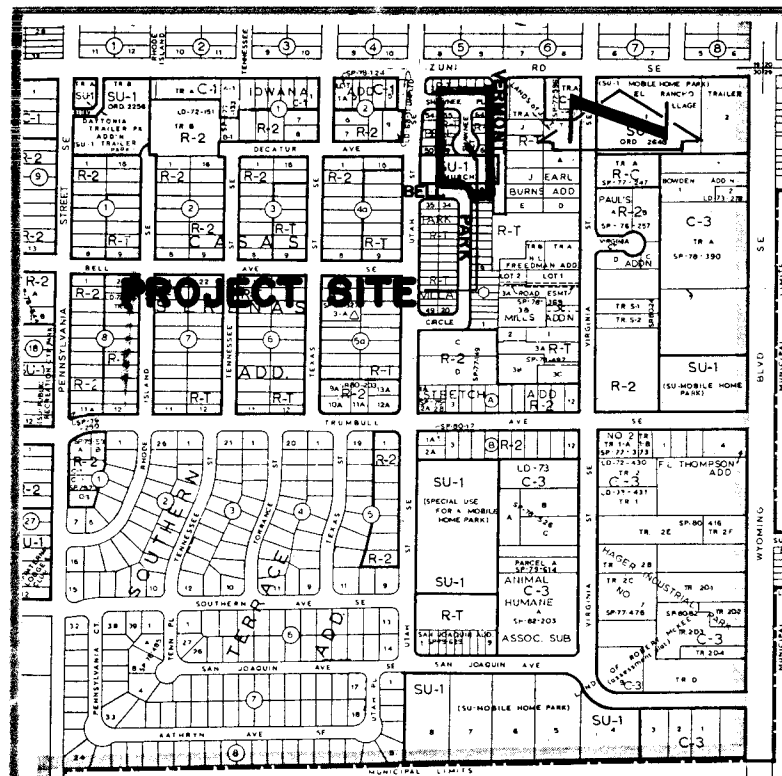


State of New Mexico
 County of Bernalillo
 This plat was recorded on
 9-28-86
 C33
 116

| LINE | BEARING | DISTANCE |
|------|--------------|----------|
| L1 | N 0°31'00" E | 42.00 |
| L2 | N 2°57'59" E | 32.03 |
| L3 | N 0°31'00" E | 44.00 |
| L4 | N 0°31'00" E | .53 |
| L5 | N 0°31'00" E | 14.55 |
| L6 | S 0°31'00" W | 14.57 |
| L7 | S 0°05'02" W | 24.63 |
| L8 | N 0°31'00" E | 12.01 |
| L9 | N 0°31'00" E | 12.00 |
| L10 | N 0°31'00" E | 12.94 |
| L11 | S 0°31'00" W | 12.72 |

| CURVE | ARC | DELTA | RADIUS |
|-------|-------|-----------|--------|
| G1 | 39.38 | 90°15'00" | 25.00 |

SHEET 2 OF 2



VICINITY MAP L-19

SCALE: 1" = 800'

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY THE 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.
6. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
7. MAINTENANCE OF THE 4" PUC CURB DRAIN ON SHAWNEE PLACE S.E. AS SHOWN HEREON SHALL BE THE RESPONSIBILITY OF THE OWNER OF LOTS 62A, 63, AND 64, BELL PARK VILLA.

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 NETTING 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.

NOTICE TO CONTRACTOR

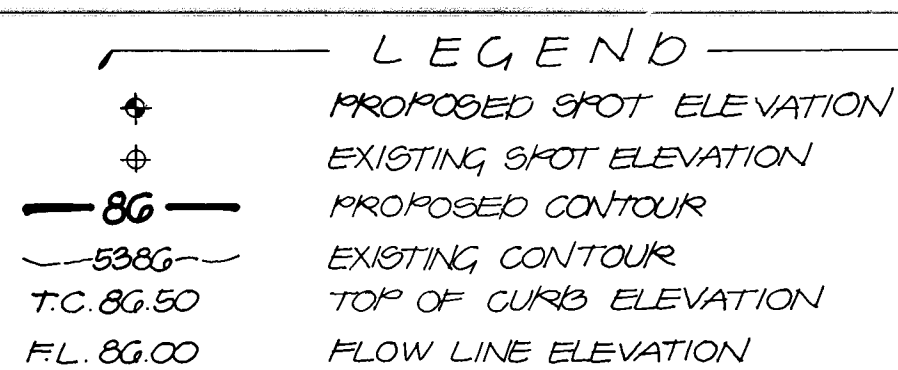
1. An excavation/construction permit will be required before beginning any work within city right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided hereon, be constructed in accordance with the City of Albuquerque Interim Standard Specifications - Public Works Construction - 1995.
3. Two (2) working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing 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 or surveyor so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to RESIDENTIAL street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

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

PROJECT BENCHMARK STATION IS A STANDARD 4" BRASS DISK SET IN A CONCRETE CYLINDER IN THE GROUND ON THE WEST MEDIAN NOSE OF THE INTERSECTION OF CENTRAL AVENUE & BELL PARK VILLA, BLVD. S.E. STATION IS STAMPEO 4-K10 1914 AC. ELEVATION = 5385.443 FT (1914.0)

TEMPORARY BENCHMARK TOP OF MANHOLE RIM LOCATED @ THE INTERSECTION OF SHAWNEE PL. S.E. & SHAWNEE COURT S.E. AS SHOWN BELOW ELEVATION = 5370.33 FT (1914.0)

LEGAL DESCRIPTION LOT 19, LOTS 51 THROUGH 62 INCLUSIVE AND THE DRAPED TRACT EXISTING CURB SITE BELT TRACT 19-10-00-000 NEW MEXICO, 1914-00-000-000, NEW MEXICO, ON JULY 25, 1983, VOLUME 621, FOLIO 164-1.



The following items concerning the Bell Park Villa Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As depicted by the Vicinity Map, the proposed improvements are located at Shawnee Court S.E., east of Utah Street and south of Zuni Road. This site is described specifically as Lot 19, Lot 57 through 62, and the unplatted tract (existing church site) Bell Park Villa. This site is presently undeveloped and it is proposed that Shawnee Court S.E. be extended southward to Bell Park Circle S.E. in order to serve this subdivision. The area surrounding the proposed subdivision is fully developed.

A review of Plate L-19 of the Albuquerque Master Drainage Study, indicates that the subject site does not lie within a designated Flood Hazard Zone. At present, about half the site drains to Shawnee Court S.E. and the rest of the site drains to Bell Park Circle S.E.

The Grading Plan shows 1) existing and proposed grades indicated by spot elevations at 1' intervals, 2) interface and continuity of existing improvements, 3) limit and character of the existing improvements, and 4) limit and character of proposed improvements. Since the project area qualifies as an infill site, it is proposed to grade all lots to discharge onto Shawnee Court. The Fairground System Phase II is in place, thereby eliminating any flooding potential downstream. The development of the proposed project site will create minimal impact on downstream facilities as the total increase in peak flow is less than 1.5 cfs. Modification of the existing subsurface drainage system along the rear yards of Lots 62, 63, and 64 together with the addition of a curb drain on Shawnee Place will eliminate the need for the 5' private drainage easement on Lots A, B, and C. The vacation of the existing 5' drainage easement on Lots H, I, and J will not affect the existing subsurface drainage system north of the project area.

The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The SCS Method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II. The calculations shown hereon should adequately quantify the developed runoff volumes. The Grading and Drainage concept presented here is consistent with the predesign conference recap which accompanies this submittal.

CALCULATIONS

Ground Cover Information

From SCS Bernalillo County Soil Survey,
Plate:
Hydrologic Soil Group: B (Bubado, etc.)
Existing Pervious CN = 70 (DPM Plate 22.2 C-2)
Pasture or Range Land: fair condition)
Developed Pervious CN = 69 (DPM Plate 22.2 C-2)
Time of Concentration/Time to Peak
 $T_c = 0.0078 L^{0.77} S^{0.385}$ (Kirpich Equation)
 $T_p = T_c = 10$ min.
Point Rainfall
 $P_6 = 2.4$ in. (DPM Plate 22.2 D-1)
Rational Method
Discharge: $Q = CIA$
Where C varies
 $I = P_6 (6.84) T_c^{-0.51} = 5.07$ in/hr
 $P_6 = 2.4$ in (DPM Plate 22.2 D-1)
 $T_c = 10$ min (minimum)
 $A =$ area, acres

SCS Method

Volume: $V = 3630 (DRO) A$
Where DRO = Direct runoff in inches
 $A =$ area, acres

Basin A - Lots A, B, and C

Existing Condition
Atotal = 4,480 sf = 0.10 Ac
Landscape area = 4,480 sf = (100%)
 $C = 0.25$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.13$ cfs
 $A_{imp} = -0$ sf; % impervious = -0 %
Composite CN = 70 (DPM Plate 22.2 C-3)
DRO = 0.50 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 182$ cf

Developed Condition
Atotal = 6,756 sf = 0.16 Ac
Roof area = 3,700 sf = (55%)
Paved area = 600 sf = (9%)
Landscape area = 2,456 sf = (36%)
 $C = 0.67$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.54$ cfs
 $A_{imp} = 4,300$ sf; % impervious = 64 %
Composite CN = 87 (DPM Plate 22.2 C-3)
DRO = 1.30 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 697$ cf

Comparison
 $\Delta Q_{100} = (0.54 - 0.13) = 0.41$ cfs (increase)
 $\Delta V_{100} = (697 - 182) = 515$ cf (increase)

Basin B - Lots H, I, and J

Existing Condition
Atotal = 5,560 sf = 0.13 Ac
Landscape area = 5,560 sf = (100%)
 $C = 0.25$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.16$ cfs
 $A_{imp} = -0$ sf; % impervious = -0 %
Composite CN = 70 (DPM Plate 22.2 C-3)
DRO = 0.50 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 236$ cf

Developed Condition
Atotal = 6,870 sf = 0.16 Ac
Roof area = 3,700 sf = (54%)
Paved area = 600 sf = (9%)
Landscape area = 2,570 sf = (37%)
 $C = 0.67$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.54$ cfs
 $A_{imp} = 4,300$ sf; % impervious = 63 %
Composite CN = 87 (DPM Plate 22.2 C-3)
DRO = 1.20 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 697$ cf

Comparison
 $\Delta Q_{100} = (0.54 - 0.16) = 0.38$ cfs (increase)
 $\Delta V_{100} = (697 - 236) = 461$ cf (increase)

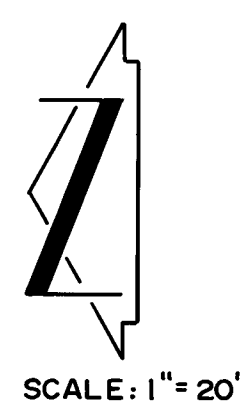
Basin C - Lots D, E, F, and G

Existing Condition
Atotal = 8,910 sf = 0.20 Ac
Landscape area = 8,910 sf = (100%)
 $C = 0.25$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.28$ cfs
 $A_{imp} = -0$ sf; % impervious = -0 %
Composite CN = 70 (DPM Plate 22.2 C-3)
DRO = 0.50 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 363$ cf

Developed Condition
Atotal = 8,910 sf = 0.20 Ac
Roof area = 4,930 sf = (55%)
Paved area = 800 sf = (9%)
Landscape area = 3,180 sf = (36%)
 $C = 0.67$
(Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = CIA = 0.68$ cfs
 $A_{imp} = 5,730$ sf; % impervious = 64 %
Composite CN = 87 (DPM Plate 22.2 C-3)
DRO = 1.20 in (DPM Plate 22.2 C-4)
 $V_{100} = 3630 (DRO) A = 871$ cf

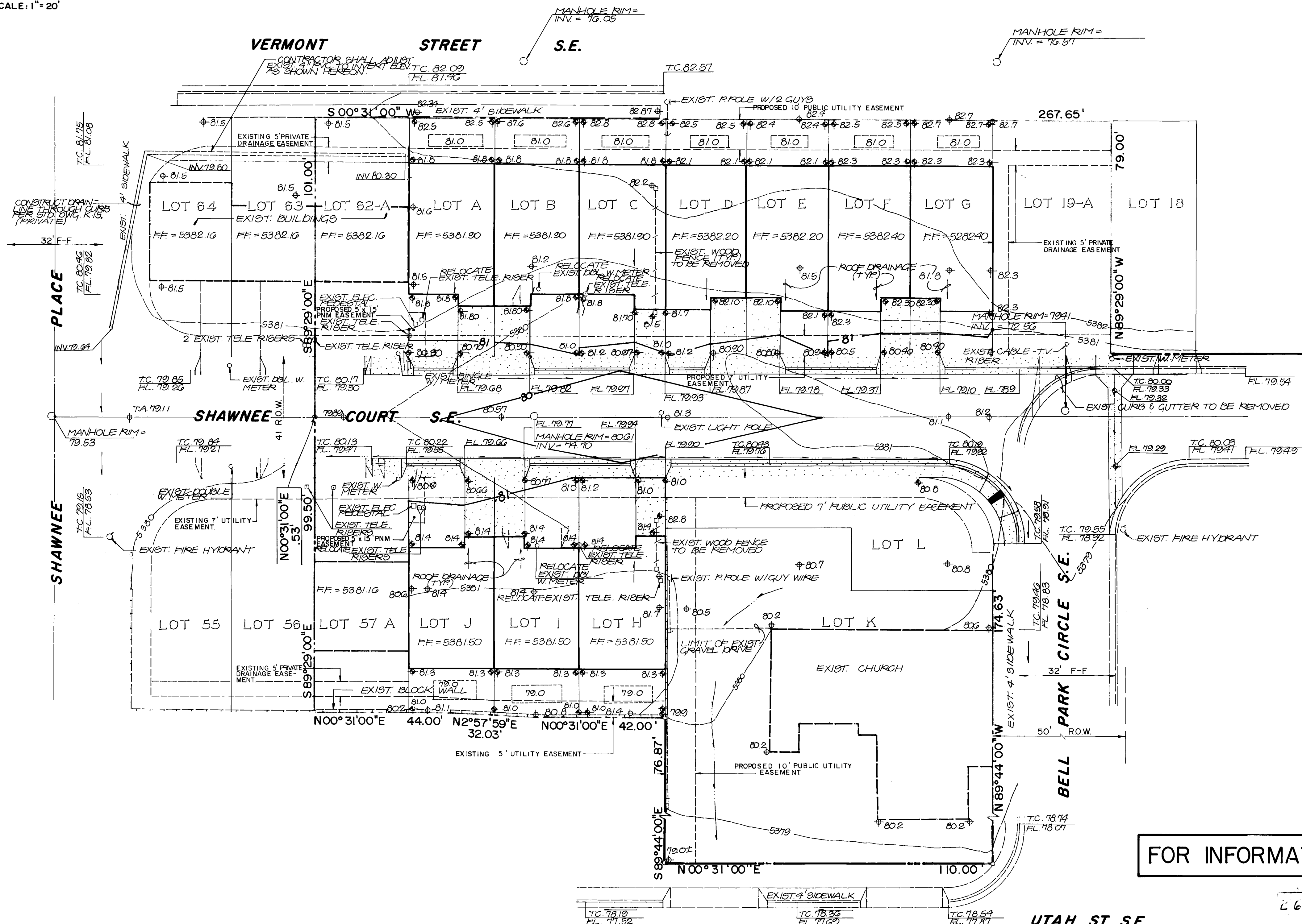
Comparison
 $\Delta Q_{100} = (0.68 - 0.28) = 0.40$ cfs (increase)
 $\Delta V_{100} = (871 - 363) = 508$ cf (increase)

Total
 $Q_{100} = (0.41 + 0.38 + 0.43) = 1.22$ cfs (increase)
Total $V_{100} = (515 + 461 + 508) = 1,484$ cf (increase)

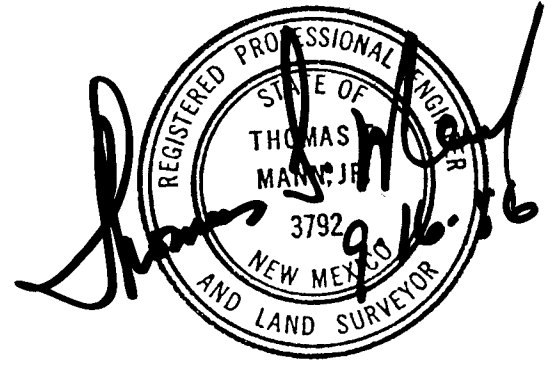


SCALE: 1" = 20'

NOTE: PRIVATE DRAIN SYSTEM FOR LOTS 62A, 63 & 64 SHALL BE CONSTRUCTED WITH THE FIRST LOT TO SEEK BUILDING PERMIT.



FOR INFORMATION ONLY



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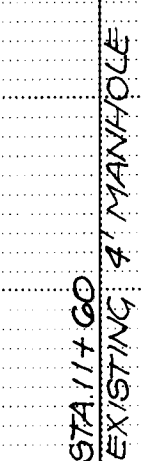
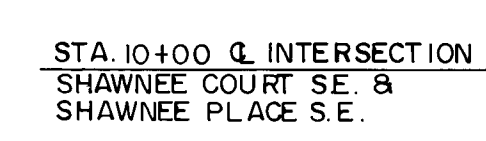
UTAH ST. S.E.



10/86 RP ADDED NOTE & SIGNATURE BLOCK FOR PRIVATE DRAIN

R.P. 61081
SGH. 8-86
T.T.M.

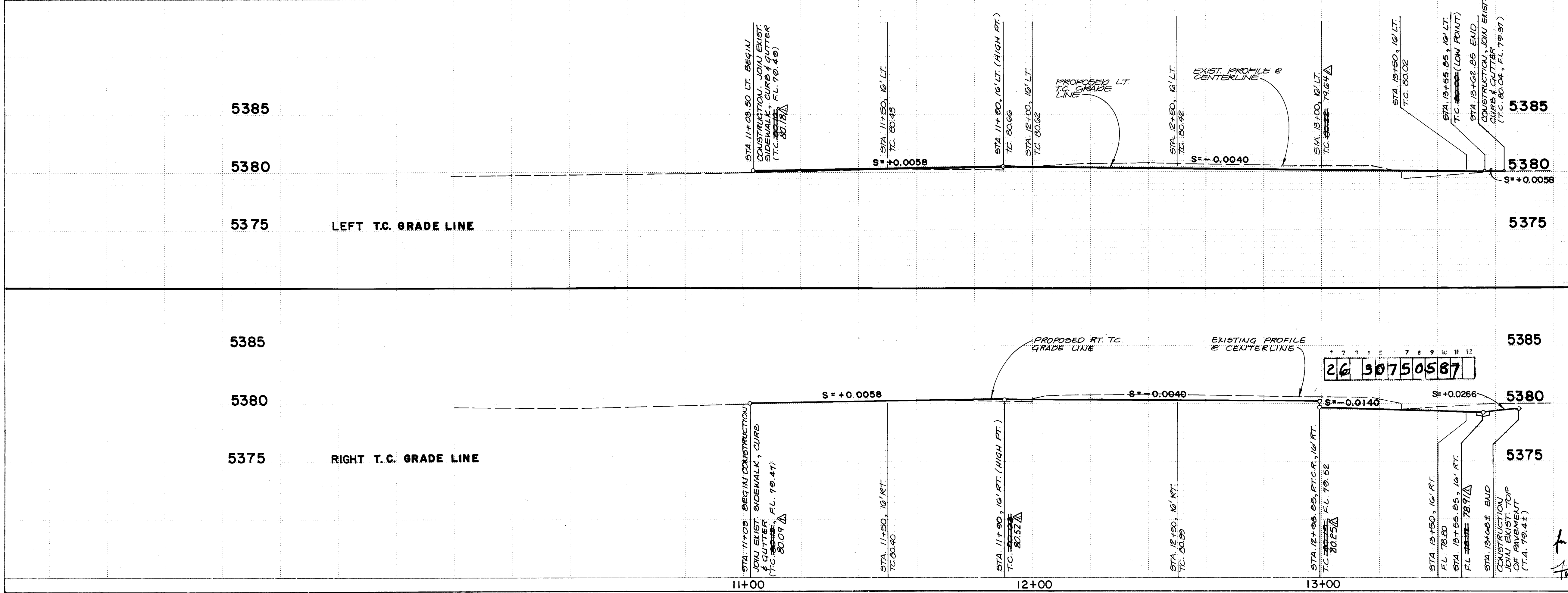
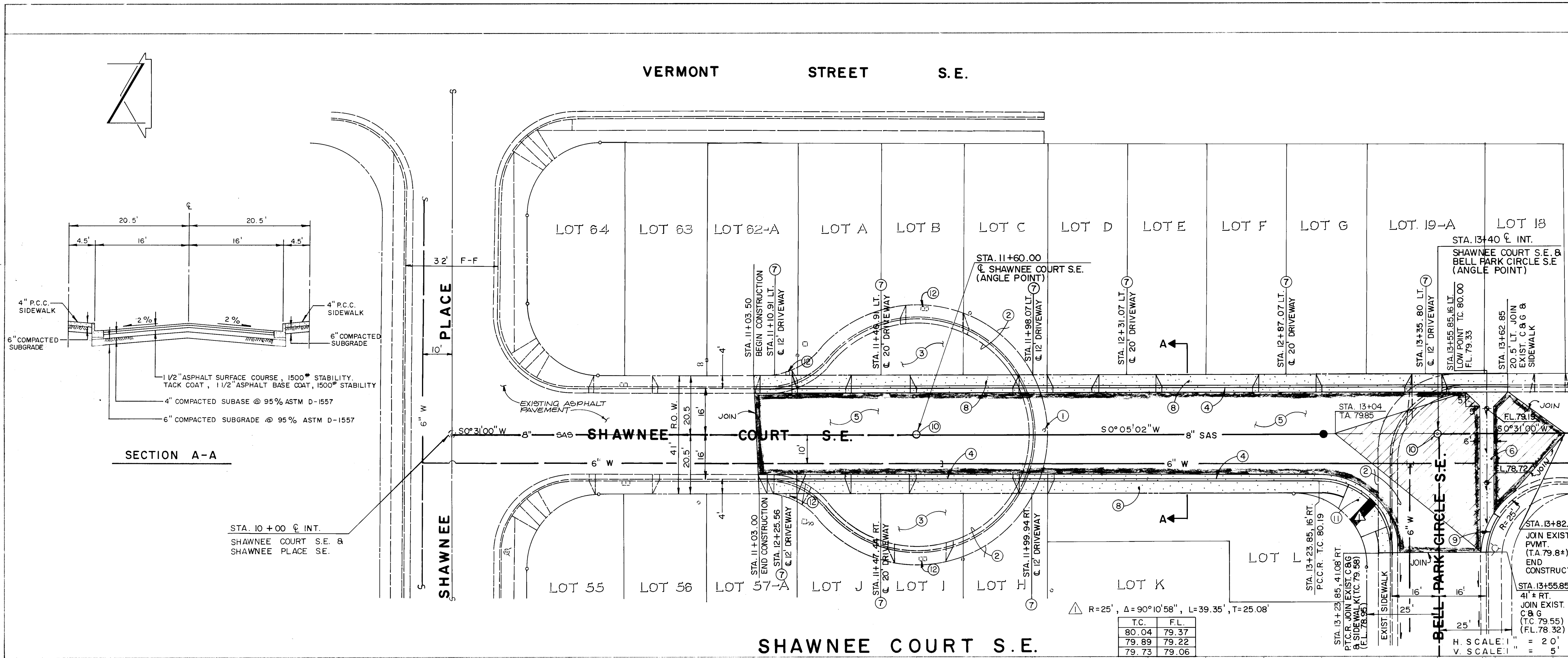
GRADING & DRAINAGE PLAN
BELL PARK VILLA



- | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 26 | | 3 | 0 | 7 | 5 | 0 | 4 | 8 | 7 | | |

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|------------------|--------------------|----------|--------------|-------------------------|---------|
| City Engineer | <i>[Signature]</i> | 12/10/86 | Liquid Waste | <i>[Signature]</i> | 12-5-86 |
| A.C.E.-Design | <i>[Signature]</i> | 12/9/86 | Traffic | N.A. <i>[Signature]</i> | 12-5-86 |
| A.C.E.-Hydrology | <i>[Signature]</i> | 12/9/86 | Water | <i>[Signature]</i> | 12-5-86 |

JOB NO. 61081



STREET PAVING IMPROVEMENTS

- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON CENTERLINE STATIONING UNLESS OTHERWISE NOTED.
- WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE OF CURB.
- CONTRACTOR SHALL ADJUST TO GRADE ALL VALVE BOXES AND MANHOLES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS.
- 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.

CONSTRUCTION NOTES

- RELOCATE EXISTING LIGHT POLE BY OTHERS.
- REMOVE EXISTING CONCRETE CURB AND GUTTER AND SIDEWALK.
- REMOVE EXISTING RESIDENTIAL PAVEMENT.
- CONSTRUCT STANDARD CONCRETE CURB AND GUTTER.
- CONSTRUCT RESIDENTIAL PAVEMENT PER PAVING SECTION HEREON.
- CONSTRUCT CONCRETE VALLEY GUTTER PER CITY STD. P-10.
- CONSTRUCT CONCRETE DRIVEPAD PER CITY STD. P-11.
- CONSTRUCT 4" THICK CONCRETE SIDEWALK.
- REMOVE AND REPLACE STANDARD CONCRETE CURB AND GUTTER.
- ADJUST EXISTING MANHOLE TO FINISHED GRADE.
- CONSTRUCT WHEEL CHAIR RAMP.
- RELOCATE EXISTING WATER METER & METER BOX PER INSTRUCTIONS ON SHEET 4 OF 5.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: BELL PARK VILLA
SHAWNEE COURT EXTENSION
PAVING PLAN & PROFILE

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|--------------------|--------------------|----------|--------------|--------------------|---------|
| City Engineer | <i>[Signature]</i> | 12/10/16 | Liquid Waste | <i>[Signature]</i> | 12-5-16 |
| A.C.E. - Design | <i>[Signature]</i> | 12/9/15 | Traffic | <i>[Signature]</i> | 12/5/16 |
| A.C.E. - Hydrology | <i>[Signature]</i> | 12/9/15 | Water | <i>[Signature]</i> | 12-5-16 |

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| 1 | 8-16 | DESIGN |
| 2 | 8-16 | DESIGN |
| 3 | 8-16 | DESIGN |

DESIGNED BY R.P. **DRAWN BY** J.M.C. **CHECKED BY** T.T.M.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS L. QUINN
12512

ENGINEERS
81 DALLAS N.E. • ALBUQUERQUE • NEW MEXICO • 87110

AS BUILT INFORMATION

CONTRACT NO. _____
DATE _____
INSPECTOR'S NAME _____
DATE _____
FIELD NO. _____
DATE _____
DRAWING NO. _____
DATE _____
MICRO-FILM INFORMATION
RECORDED BY _____
NO. _____

BENCH MARKS

STATION IS A STANDARD 4" BENCH DISK
SET IN A CONCRETE CYLINDER IN THE GROUND
ON THE WEST MEDIAN NOSE OF THE INTERSEC-
TION OF CENTRAL AVE. & PENNSYLVANIA BLVD.
SE STATION IS STATIONED 10+00.00
ELEVATION = 6353.443 ± (175.10)

SURVEY INFORMATION

FIELD NOTES
NO. _____
DATE _____
BY _____