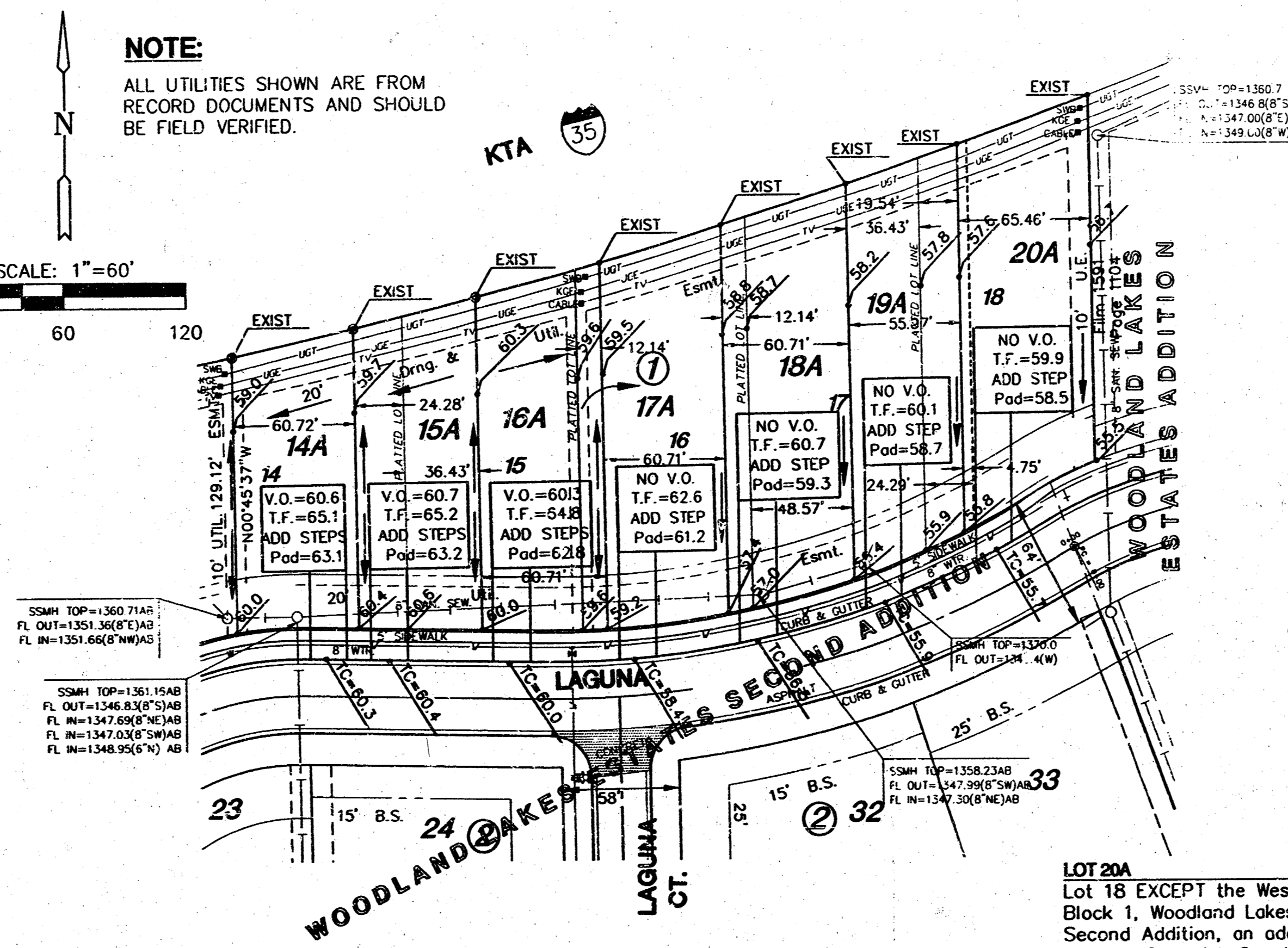


**NOTE:**  
ALL UTILITIES SHOWN ARE FROM  
RECORD DOCUMENTS AND SHOULD  
BE FIELD VERIFIED.

SCALE: 1"=60'  
0 60 120



SSMH TOP=130.7148  
FL OUT=130.300(3)AS  
FL IN=130.640(6)WAS

SSMH TOP=131.1548  
FL OUT=124.630(2)AB  
FL IN=137.090(6)SAB  
FL IN=134.700(8)SAB  
FL IN=134.800(5)AB

SSMH TOP=135.8238  
FL OUT=147.900(2)SAB  
FL IN=134.300(6)SAB

**APPROVED  
DRAINAGE PLAN**

**LEGAL DESCRIPTIONS**

**LOT 14A**  
The West 52.50 feet of Lot 14, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas.  
AND ALSO:  
The West 8.22 feet of the East 32.50 feet of said Lot 14, Block 1.

**LOT 15A**  
All of Lot 14, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas; EXCEPT, the West 60.72 feet AND ALSO:  
The West 36.43 feet of Lot 15, Block 1, said Woodland Lakes Estates Second Addition.

**LOT 16A**  
Lot 15 EXCEPT the West 36.43 feet and the West 12.14 feet of Lot 16, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas.

**LOT 17A**  
Lot 16 EXCEPT the West 12.14 feet and EXCEPT the East 12.14 feet, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas.

**LOT 18A**  
The East 12.14 feet of Lot 16 and the West 48.57 feet Lot 17, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas.

**LOT 19A**  
Lot 17 EXCEPT the West 48.57 feet and also; the West 19.54' Lot 18, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas; EXCEPTING the East 65.46', said Lot 18.

**LOT 20A**  
Lot 18 EXCEPT the West 24.29 feet, Block 1, Woodland Lakes Estates Second Addition, an addition to Wichita, Sedgwick County, Kansas.  
AND ALSO:  
The East 4.75 feet of the West 24.29 feet of Lot 18, Block 1, said addition.

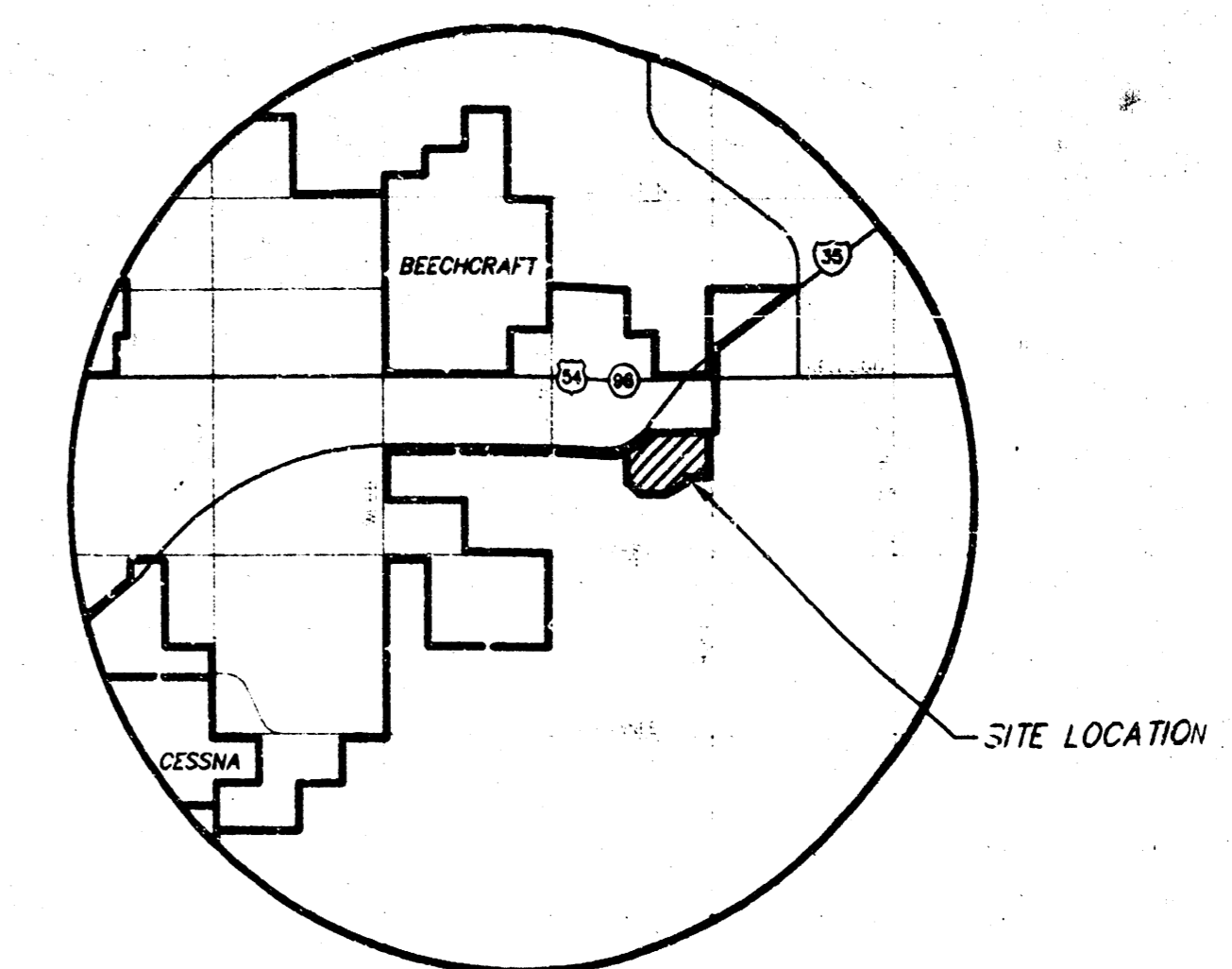
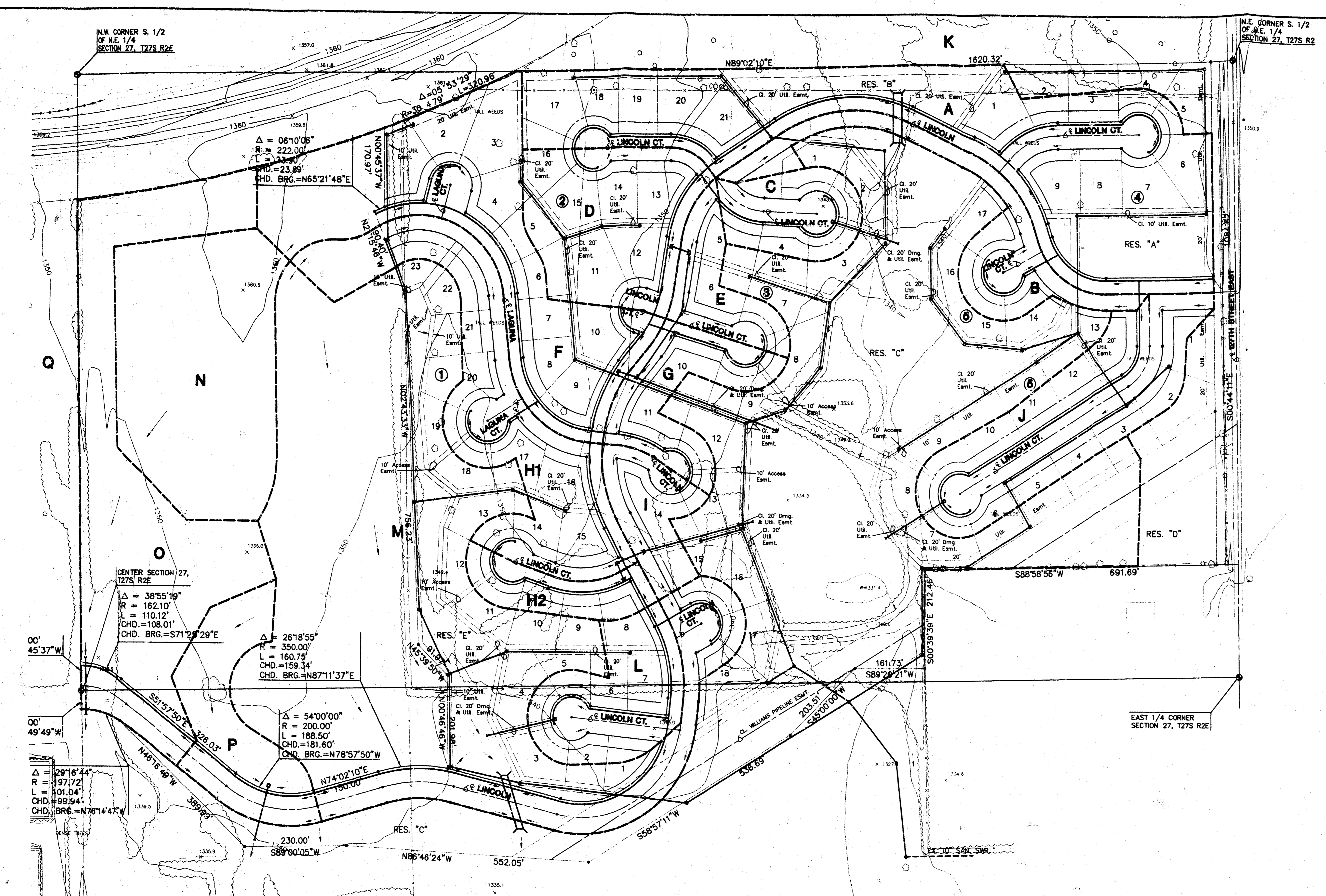
**LEGEND**

- SSMH — SANITARY SEWER MANHOLE
- WATER LINE
- SANITARY SEWER LINE
- TELEPHONE LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND CABLE TV LINE

**MKEC**  
ENGINEERING  
CONSULTANTS

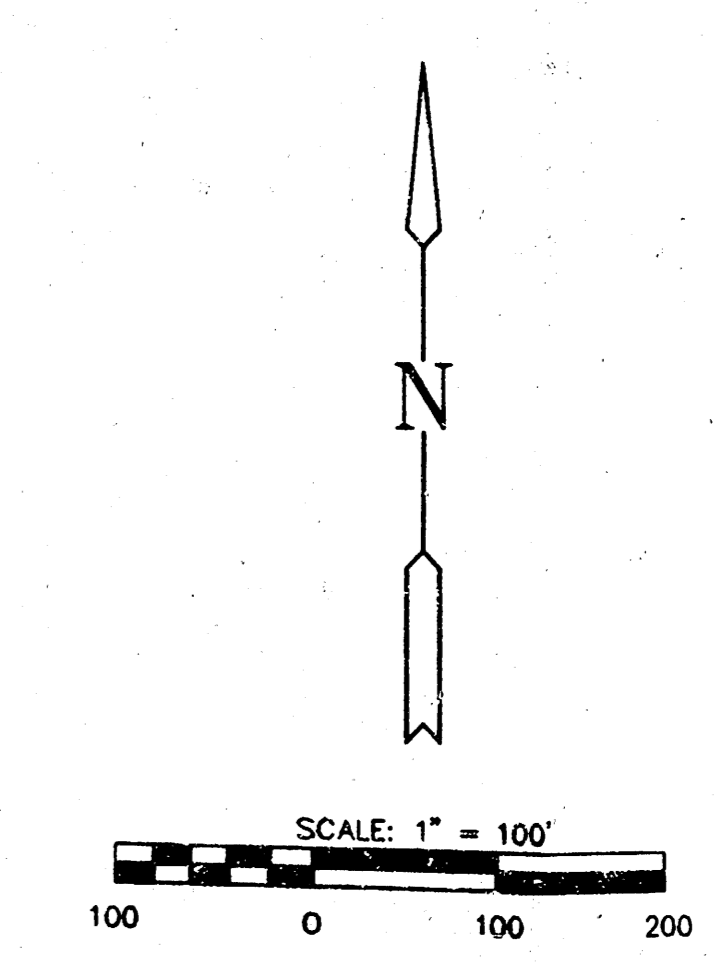
WOODLAND LAKES ESTATES  
SECOND ADDITION  
REVISED GRADING DUE TO LOT SPLIT  
LOTS 14, 15, 16, 17, & 18, BLOCK 1

DATE: 03/01/03  
SCALE: 1"=60'  
SHEET NO. 1 / 1



VICINITY MAP

| DRAINAGE AREA                                  | AREA | ADJAC. AREA | C2   | C100 | T2 | TC100 | I2   | I100  | Q2    | Q100       | PIPE SIZE  | PIPE SLOPE | INLET      | NOTES         |
|--|------|-------------|------|------|----|-------|------|-------|-------|------------|------------|------------|------------|---------------|
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 8.2  | 0.48        | 0.73 | 44   | 28 | 2.11  | 5.58 | 8.0   | 33.5  |            |            |            | L(1) = 30" | 2 yr. storm   |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.8  | 0.48        | 0.73 | 24   | 18 | 3.03  | 7.18 | 2.5   | 9.4   |            |            |            | L(1) = 10" | 2 yr. storm   |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 87   | 0.31        | 0.88 | 45   | 35 | 2.08  | 5    | 102.8 | 334.7 | 30 Sq. Ft. | min. slope |            |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.2  | 0.48        | 0.73 | 18   | 15 | 3.51  | 7.37 | 1.8   | 6.5   |            | min. slope |            |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 2.8  | 0.50        | 0.78 | 33   | 19 | 2.52  | 6.68 | 3.5   | 14.2  |            |            |            | L(1) = 15" | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.0  | 0.48        | 0.73 | 21   | 15 | 3.25  | 7.37 | 1.5   | 5.4   |            |            |            | L(1) = 5"  | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 5.4  | 3.8         | 0.18 | 0.75 | 33 | 19    | 2.52 | 6.68  | 4.7   | 19.0       | 24" RCP    | min. slope |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.5  | 0.48        | 0.73 | 21   | 15 | 3.25  | 7.37 | 2.2   | 8.1   |            |            |            | L(1) = 25" | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.5  | 0.48        | 0.73 | 21   | 15 | 3.25  | 7.37 | 2.2   | 8.1   |            |            |            | L(1) = 10" | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 10.7 | 0.49        | 0.75 | 38   | 30 | 2.28  | 5.4  | 12.0  | 43.3  | 36" Dia.   | min. slope |            |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 0.9  | 0.50        | 0.78 | 20   | 15 | 3.33  | 7.37 | 1.5   | 5.0   | 18" Dia.   | min. slope |            |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 3.8  | 0.50        | 0.78 | 33   | 22 | 2.52  | 6.28 | 4.9   | 18.4  |            |            |            | L(1) = 5"  | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.0  | 4.6         | 0.50 | 0.76 | 33 | 22    | 2.52 | 6.28  | 6.0   | 22.8       | 27" Dia.   | min. slope |            | 100 yr. storm |
| TYPE C & D SOIL<br>RESIDENTIAL (SINGLE FAMILY) | 1.0  | 0.48        | 0.73 | 22   | 15 | 3.17  | 7.37 | 1.5   | 5.4   |            |            |            | L(1) = 10" | 100 yr. storm |



PRELIMINARY DRAINAGE PLAN FOR PLAT PURPOSE TO PETITION AND MUST BE UPDATED OR REFINED DURING DESIGN PROCESS.

**WOODLAND LAKE ESTATES**  
PROJECT NAME

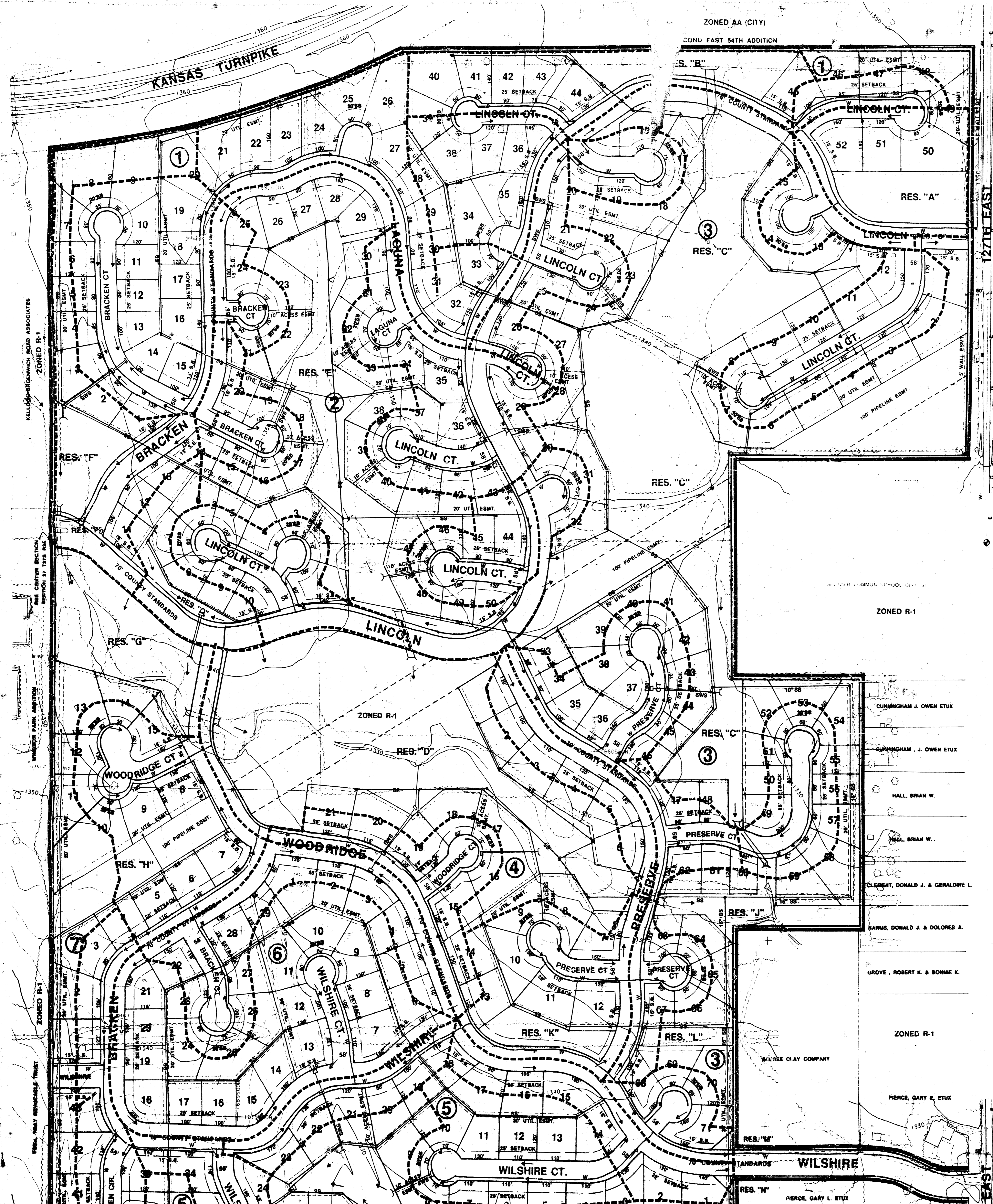
**DRAINAGE & UTILITY PLAN**  
SHEET TITLE

WIS KANSAS ENGINEERING CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316-684-9600

G.V.A.  
DESIGN BY: 11/22/95  
DATE

B.D.M.  
DRAWN BY: SROGEB  
CHECKED BY: DRINGPLANDWG

G.V.A./D.S.S.  
CHECKED BY: 1/1/96  
SHEET NO.



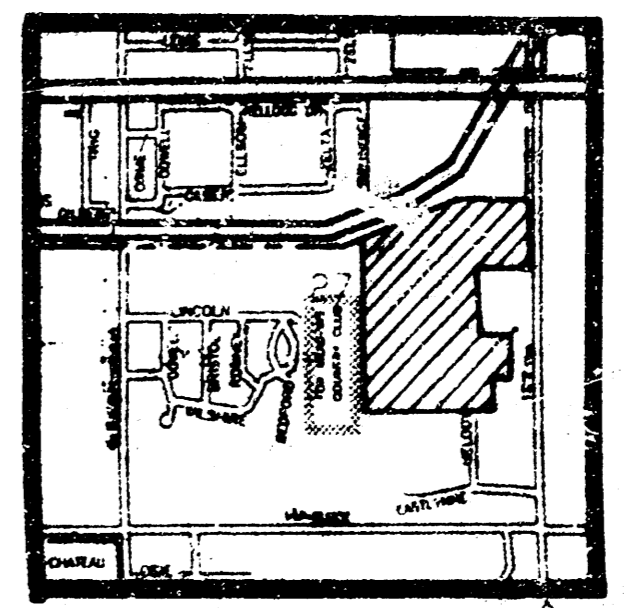
WEDMAN K. T. TRUST  
ZONED R-1

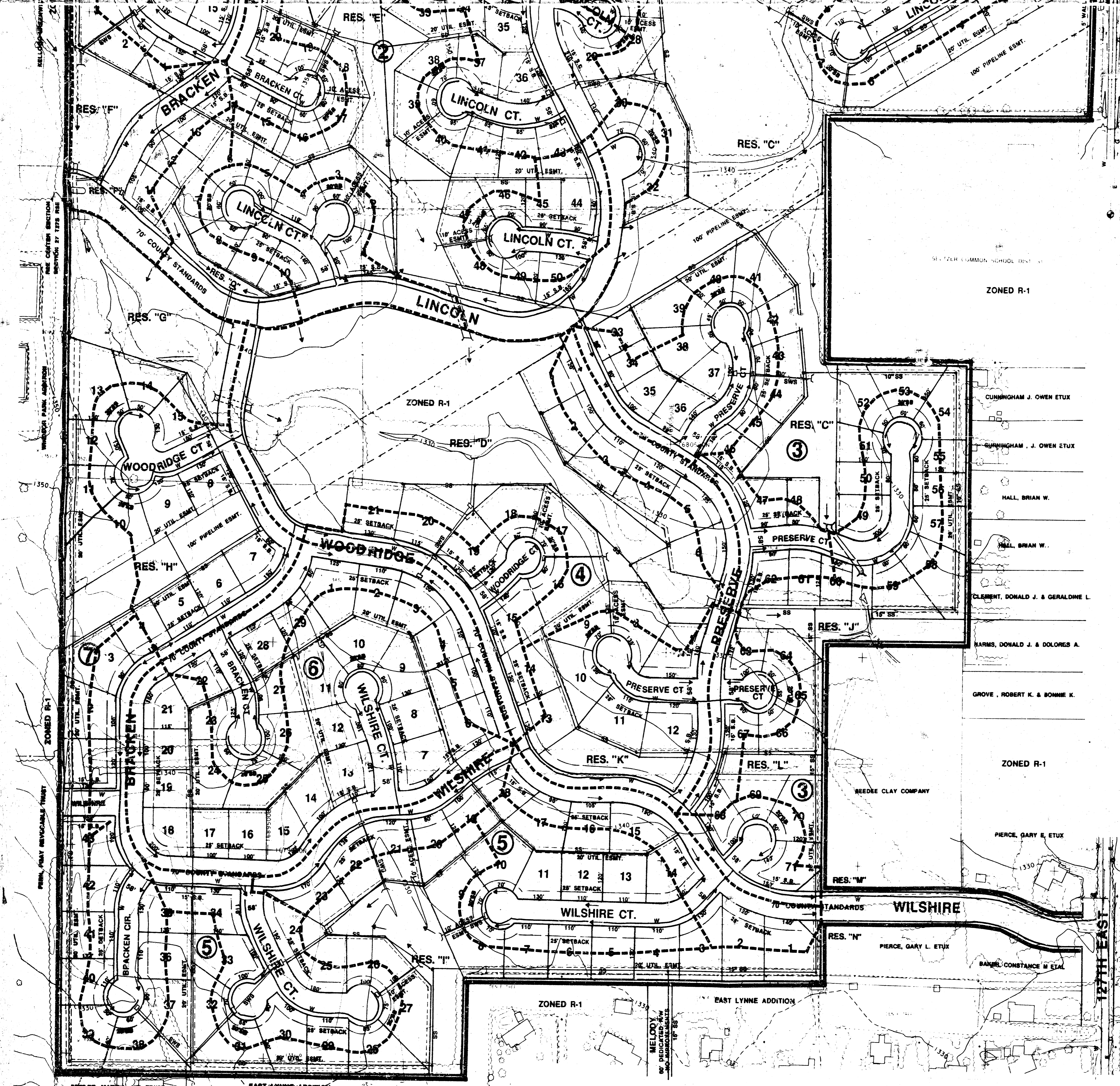
EAST 1/4 CORNER  
SECTION 27 T27S

ZONED R-1

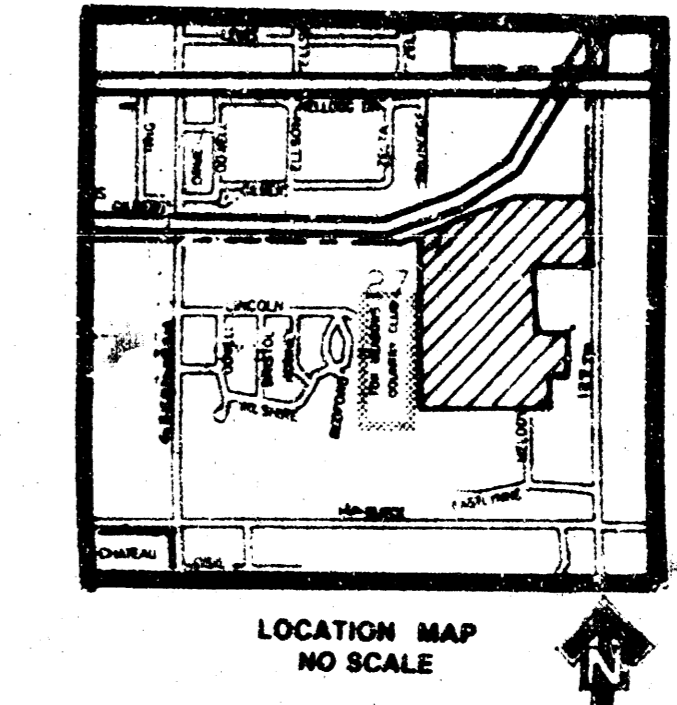
- NOTES:**
- RESERVES A, L AND Q ALLOW GRASS STRUCTURES, LAKES, RECREATIONAL EQUIPMENT, SWIMMING POOLS, GAZEBOS, CLUBHOUSE, WALKS, LIGHTING, LANDSCAPING, IRRIGATION, ENTRY AND PRIVATE WALLS AND UTILITIES COMPRISED TO EASEMENTS.
  - RESERVES M - P ALLOW ENTRY WALLS, PROJECT SIGNS, LIGHTING, LANDSCAPING, IRRIGATION, AND UTILITIES COMPRISED TO EASEMENTS.
  - MISSOURI ENGINEERING CORP. WILL PREPARE DRAINAGE PLANS AND UTILITY PLANS AND PROVIDE BENCHMARKS.
  - SUGGESTED UTILITY EASEMENTS ARE SHOWN ON PLAN. FINAL LOCATION WILL BE INDICATED ON THE FINAL PLAN WHEN THE UTILITY SYSTEM IS DESIGNED THROUGHOUT THE RESERVES AT FINAL PLAY.
  - TOPOGRAPHY PROVIDED BY M. J. HARDEN ASSOCIATES, INC. DATE OF PHOTOGRAPHY - FEBRUARY 4, 1964 AT TWO FOOT CONTOUR INTERVALS.
  - FRONT YARD SETBACKS AT THE CIRCULAR CUL-DE-SAC SHALL BE 20'. ALL OTHER FRONT YARD SETBACKS SHALL BE 25'. CORNER LOTS SHALL HAVE ONE 15' SIDE YARD SETBACK.

CUMMINGS, J. OWEN ETUX  
CUMMINGS, J. OWEN ETUX  
HALL, BRIAN W.  
HALL, BRIAN W.  
CLEMMENT, DONALD J. & GERALDINE L.  
HARRIS, DONALD J. & DOLORES A.  
GROVE, ROBERT K. & BONNIE K.  
WILSHIRE CLAY COMPANY  
PIERCE, GARY E. ETUX  
PIERCE, GARY L. ETUX





- NOTES:**
- RESERVES J - L AND Q ALLOW DRAINAGE STRUCTURES, LAKES, RECREATIONAL EQUIPMENT, SWIMMING POOLS, GAZEBOS, CLOTHROOMS, WALKS, LIGHTING, LANDSCAPING, IRRIGATION, ENTRY AND PRIVATE WALKS AND UTILITIES CONFINED TO EASEMENTS.
  - RESERVES M - P ALLOW ENTRY WALLS, PROJECT SIGNS, LIGHTING, LANDSCAPING, IRRIGATION, AND UTILITIES CONFINED TO EASEMENTS.
  - MID-KANSAS ENGINEERING CORP. WILL PREPARE DRAINAGE PLANS AND UTILITY PLANS AND PROVIDE ENGINEERING.
  - SUGGESTED UTILITY EASEMENTS ARE SHOWN ON PLAN. FINAL LOCATION WILL BE INDICATED ON THE FINAL PLAN WHEN THE UTILITY SYSTEM IS DEFINED THROUGHOUT THE RESERVES AT FINAL PLAN.
  - TOPOGRAPHY PROVIDED BY M. J. HANCOCK ASSOCIATES, INC. DATE OF PHOTOGRAPHY - FEBRUARY 4, 1994 AT TWO FOOT CONTOUR INTERVALS.
  - FRONT YARD SETBACKS AT THE CIRCULAR CUL-DE-SAC SHALL BE 20'. ALL OTHER FRONT YARD SETBACKS SHALL BE 25'. CORNER LOTS SHALL HAVE ONE (1) SIDE YARD SETBACK.

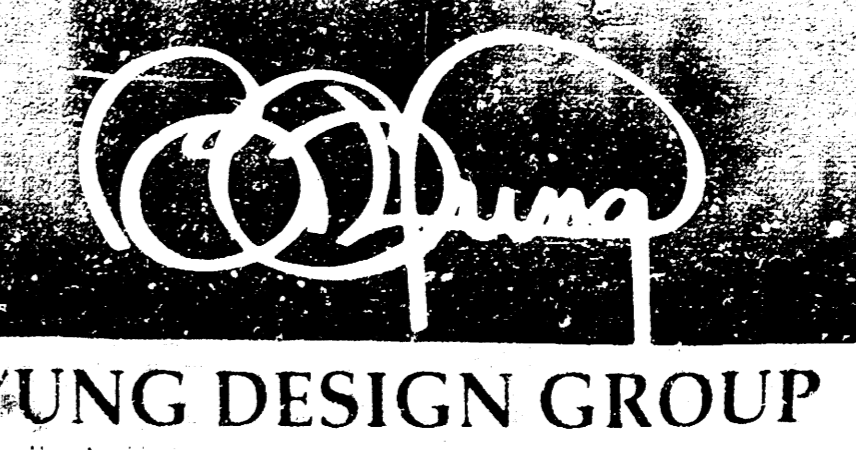


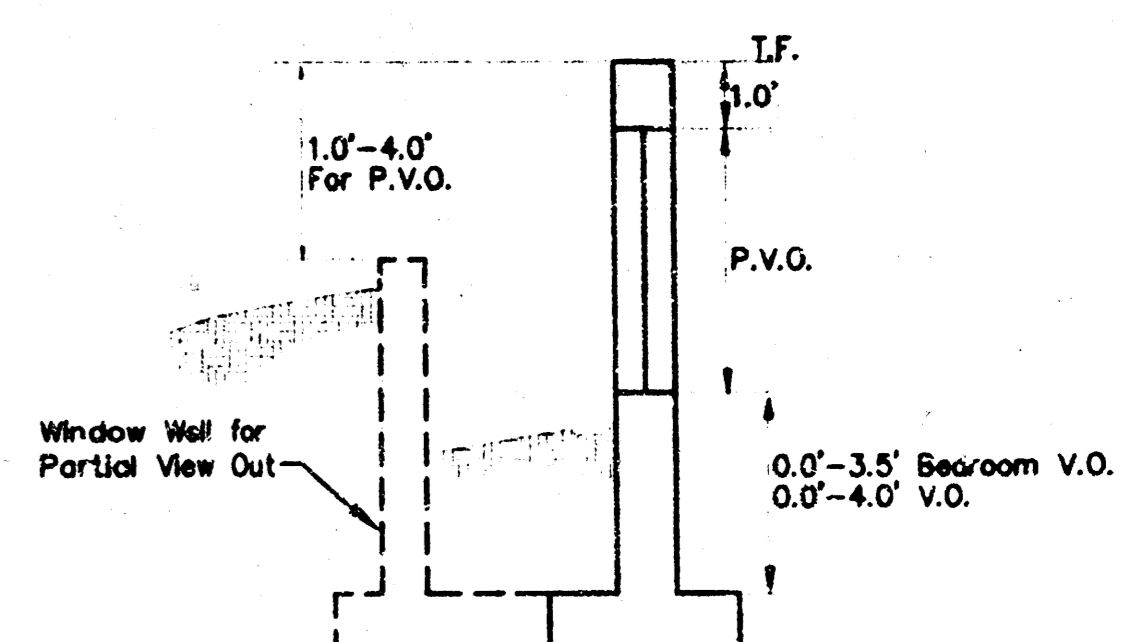
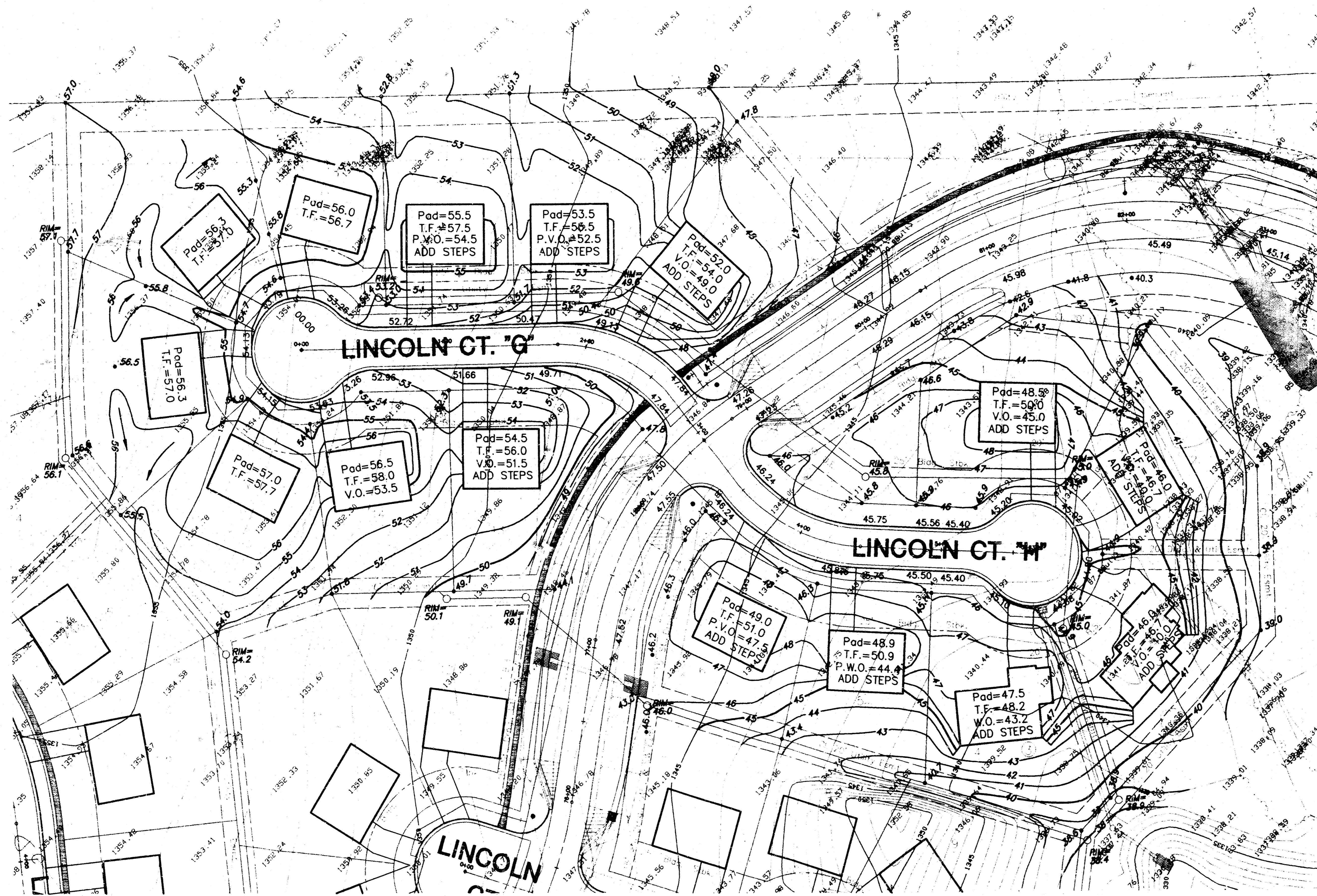
SCALE: 1" = 100'  
CONTOUR INTERVAL = 2'  
DATE: OCT. 19, 1995

MID-KANSAS ENGINEERING CONSULTANTS, INC.  
411 N. WEBB ROAD  
WICHITA, KS. 67206  
316 - 684 - 9600

**PRELIMINARY PLAT  
WOODLAND LAKES ESTATES**

OWNER/SUBDIVIDER: LEEWOOD HOMES 3500 N. ROCK RD WICHITA, KS 67226  
ENGINEER: MID-KANSAS ENGINEERING CONSULTANTS 411 N. WEBB RD WICHITA, KS 67206





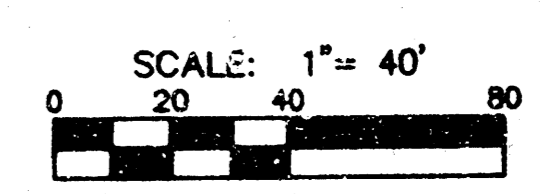
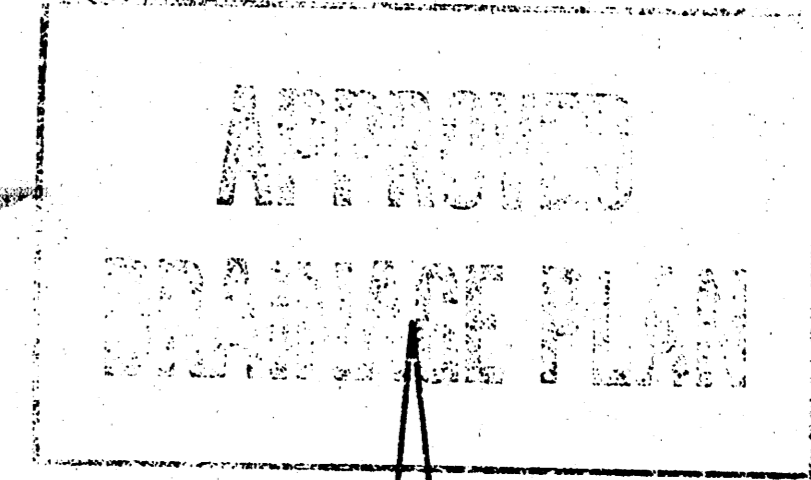
VIEW OUT & PARTIAL VIEW OUT DETAIL

LEGEND

|                   |                                   |
|-------------------|-----------------------------------|
| +47.5             | Proposed Elevations               |
| 135.0             | Existing Elevations               |
| V.O.              | Top of View Wall Elevation        |
| T.F.              | Top of Foundation                 |
| Pad               | Elevation @ Garage Door Elevation |
| P.V.O. (See Note) | Partial View Wall Elevation       |
| — 47 —            | Proposed Contour                  |
| →                 | Flow Arrow                        |

Note: P.V.O.'s may be V.O.'s depending on the number of steps added.

Builders shall drop siding or brick ledges or build a retaining wall to transition between properties.



| MINIMUM PAD ELEVATIONS |       |            |            |
|------------------------|-------|------------|------------|
| Lowest opening         |       |            |            |
| Lot                    | Block | City Datum | USGS Datum |
| 1                      | 3     | 154.6      | 1342.0     |
| 2                      | 3     | 154.6      | 1342.0     |
| 3                      | 3     | 153.1      | 1340.5     |
| 4                      | 3     | 153.1      | 1340.5     |

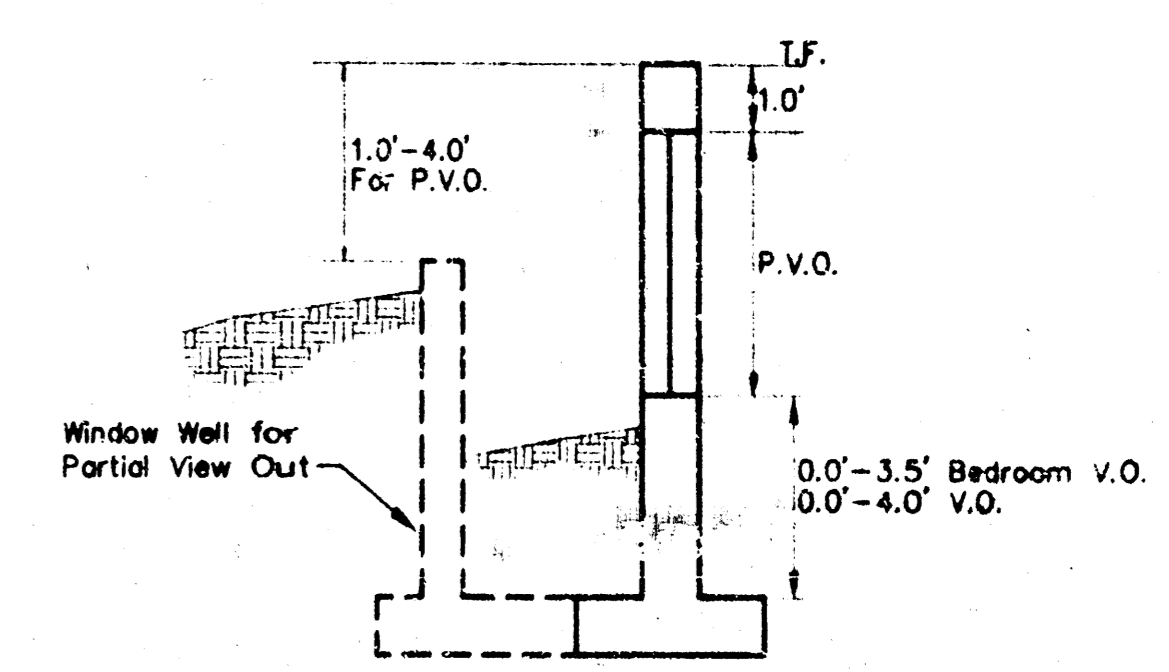
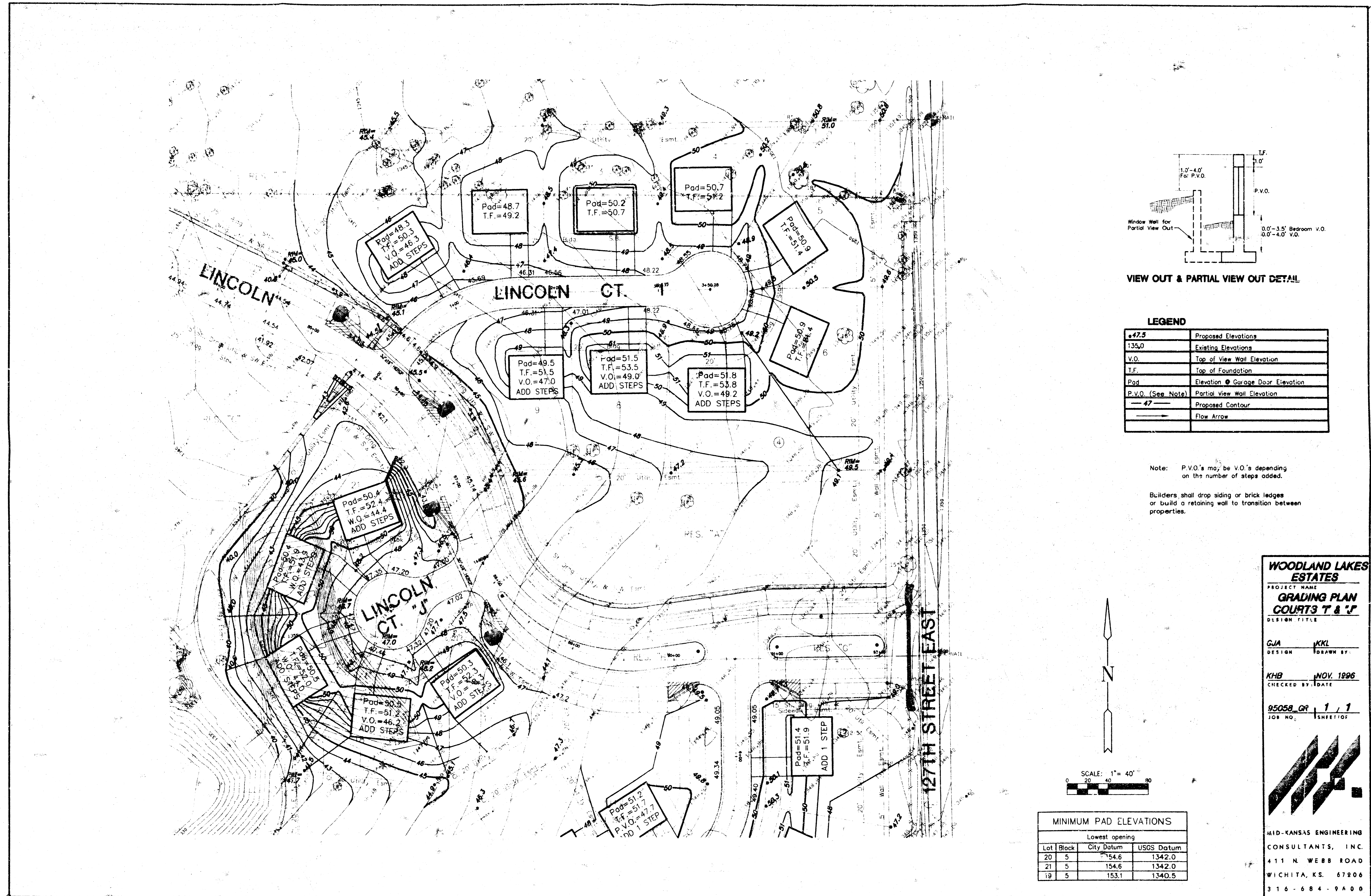
**WOODLAND LAKES ESTATES**  
 PROJECT NAME  
**GRADING PLAN COURTS 'G' & 'H'**  
 DESIGN TITLE

GJA DESIGN KKL DRAWN BY.

KHB NOV. 1996 CHECKED BY: DATE

95058 GR 1 / 1 JOB NO. SHEET OF

**AID-KANSAS ENGINEERING CONSULTANTS, INC.**  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9600



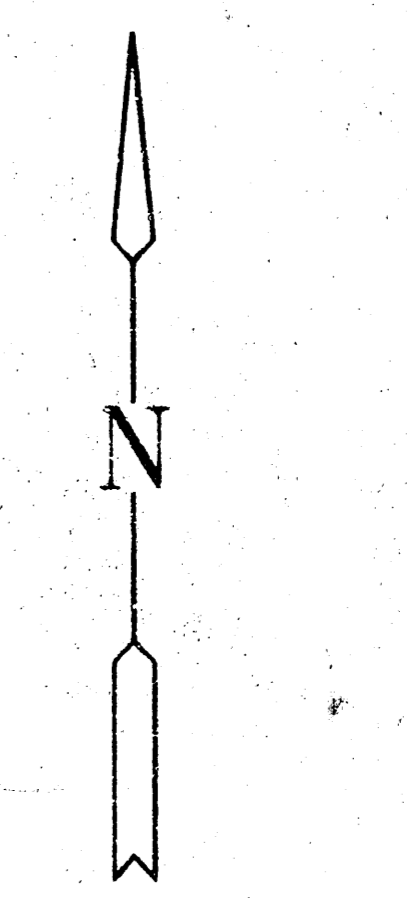
VIEW OUT & PARTIAL VIEW OUT DETAIL

**LEGEND**

|                   |                                   |
|-------------------|-----------------------------------|
| •47.5             | Proposed Elevations               |
| 135.0             | Existing Elevations               |
| V.O.              | Top of View Wall Elevation        |
| T.F.              | Top of Foundation                 |
| Pad               | Elevation @ Garage Door Elevation |
| P.V.O. (See Note) | Partial View Wall Elevation       |
| —47—              | Proposed Contour                  |
| →                 | Flow Arrow                        |

Note: P.V.O.'s may be V.O.'s depending on the number of steps added.

Builders shall drop siding or brick ledges or build a retaining wall to transition between properties.



**MINIMUM PAD ELEVATIONS**

| Lowest opening |       |            |            |
|----------------|-------|------------|------------|
| Lot            | Block | City Datum | USGS Datum |
| 20             | 5     | 154.6      | 1342.0     |
| 21             | 5     | 154.6      | 1342.0     |
| 19             | 5     | 153.1      | 1340.5     |

**WOODLAND LAKES ESTATES**  
 PROJECT NAME  
**GRADING PLAN**  
**COURTS T & J**  
 DESIGN TITLE

GJA DESIGN KKL DRAWN BY

KHB NOV. 1996  
 CHECKED BY: DATE

95058 OR 1/1  
 JOB NO. SHEET/OF

MID-KANSAS ENGINEERING  
 CONSULTANTS, INC.  
 411 N. WEBB ROAD  
 WICHITA, KS. 67206  
 316-684-9400