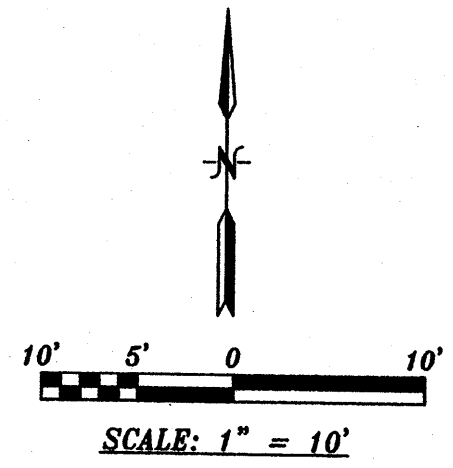




## LEGEND

- 



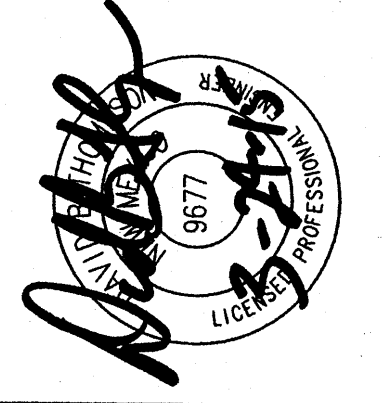
**T** Thompson  
**E** Engineering  
**C** Consultants, Inc.



tecinc@yahoo.com

P.O. BOX 65760  
ALBUQUERQUE, NM 87193

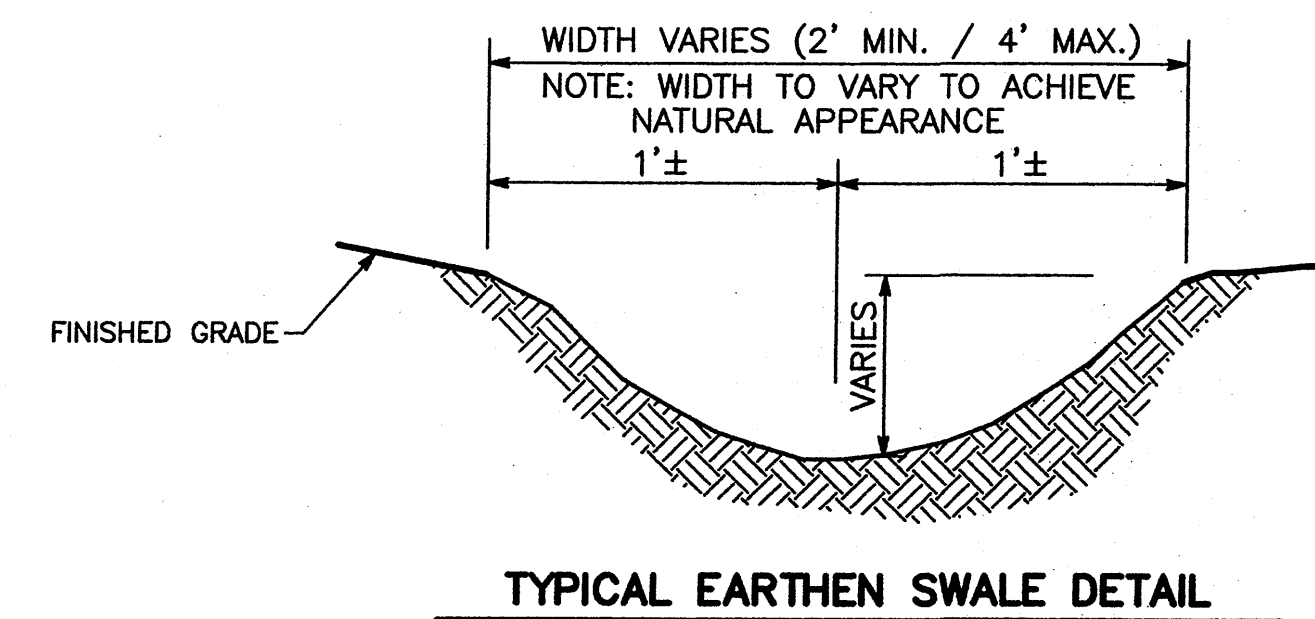
PHONE: (505) 271-2199  
FAX: (505) 830-9248

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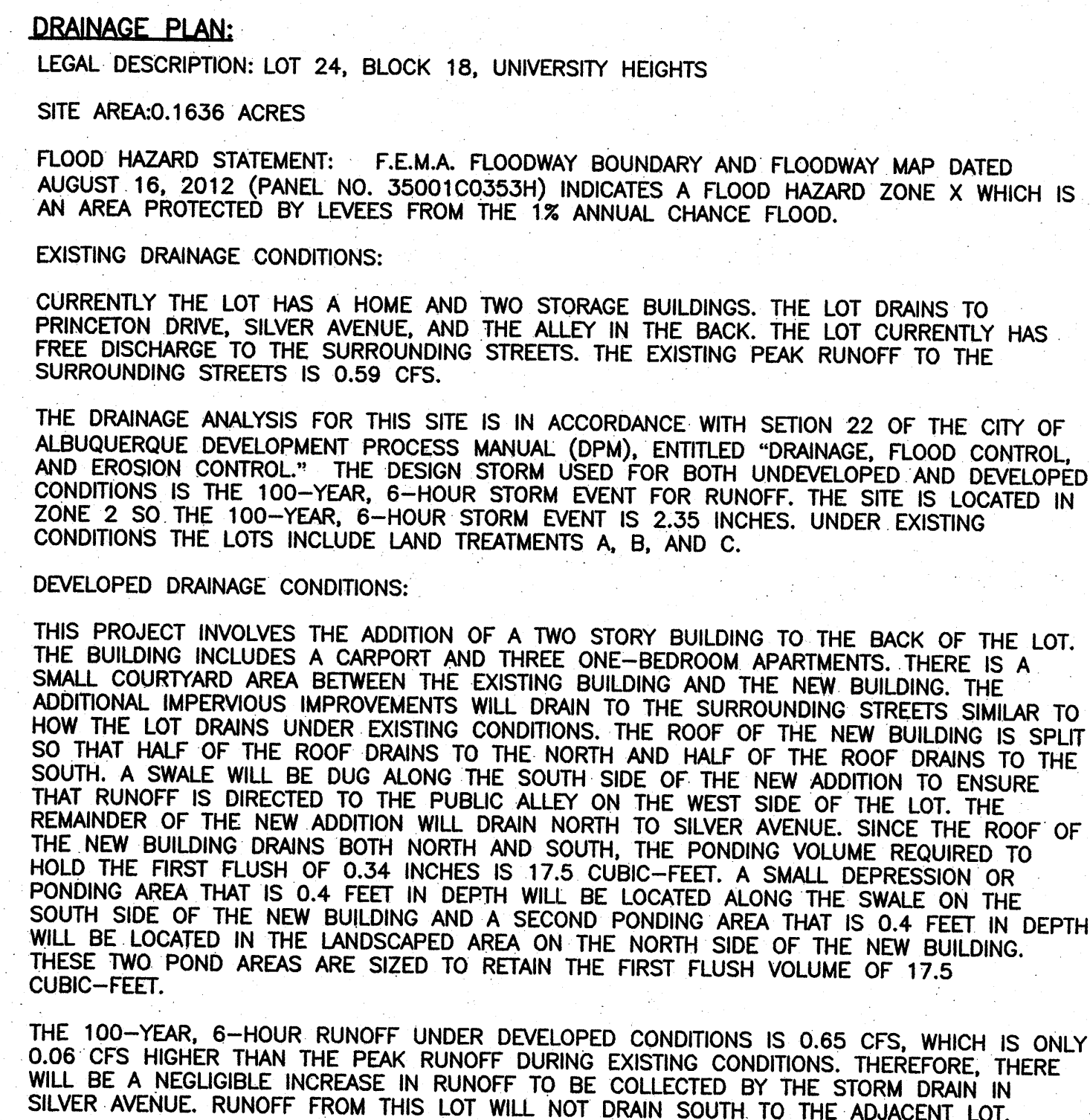
LOT 24, BLOCK 18  
UNIVERSITY HEIGHTS  
201 PRINCETON DR. S.E.

## GRADING AND DRAINAGE PLAN

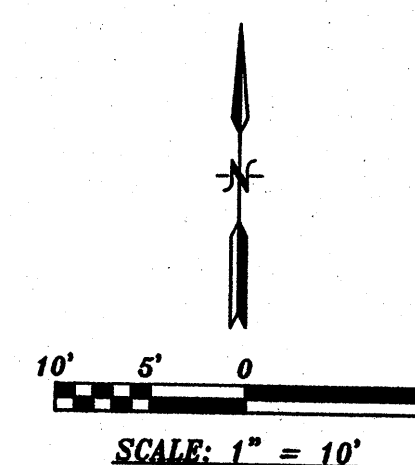
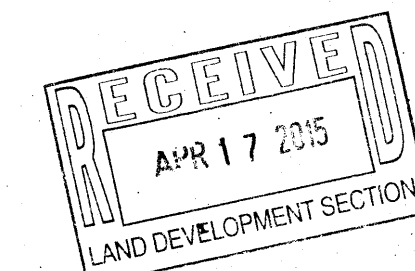
| CITY/COUNTY REVIEW       |          |      |  |
|--------------------------|----------|------|--|
| DEPARTMENT               | SIGN-OFF | DATE |  |
| WASTEWATER MGMT. DIV.    |          |      |  |
| WATER SERVICES           |          |      |  |
| SUBDIVISION ENG.         |          |      |  |
| STREETS                  |          |      |  |
| TRAFFIC                  |          |      |  |
| FOR CITY/COUNTY USE ONLY |          |      |  |



| 100-YEAR HYDROLOGIC CALCULATIONS                                |             |       |       |       |       |                 |                                           |                  |                    |                  |         |
|-----------------------------------------------------------------|-------------|-------|-------|-------|-------|-----------------|-------------------------------------------|------------------|--------------------|------------------|---------|
| BASIN #                                                         | AREA (acre) | A (%) | B (%) | C (%) | D (%) | WEIGHTED E (in) | 100-YEAR PRECIPITATION V (6-hr) (acre-ft) | V (6-hr) (cu-ft) | V(24-hr) (acre-ft) | V(24-hr) (cu-ft) | Q (cfs) |
| EXISTING CONDITIONS                                             |             |       |       |       |       |                 |                                           |                  |                    |                  |         |
| LOT                                                             | 0.1636      | 0.00  | 27.30 | 27.40 | 45.30 | 1.48            | 0.02                                      | 881              | 0.02               | 988              | 0.59    |
| TOTAL RUNOFF                                                    | 0.16        |       |       |       |       |                 | 0.02                                      | 881              | 0.02               | 988              | 0.59    |
| PROPOSED CONDITIONS                                             |             |       |       |       |       |                 |                                           |                  |                    |                  |         |
| LOT                                                             | 0.1636      | 0.00  | 18.70 | 18.70 | 62.60 | 1.68            | 0.02                                      | 1,000            | 0.03               | 1,149            | 0.65    |
| TOTAL RUNOFF                                                    | 0.16        |       |       |       |       |                 | 0.02                                      | 1000             | 0.03               | 1149             | 0.65    |
| EXCESS PRECIP.                                                  |             | 0.53  | 0.78  | 1.13  | 2.12  | E (in)          |                                           |                  |                    |                  |         |
| PEAK DISCHARGE                                                  |             | 1.56  | 2.28  | 3.14  | 4.7   | Q* (cfs)        |                                           |                  |                    |                  |         |
| ZONE = 2                                                        |             |       |       |       |       |                 |                                           |                  |                    |                  |         |
| WEIGHTED E (in) = (E · (%A) + (E · (%B) + (E · (%C) + (E · (%D) |             |       |       |       |       |                 | P... (in) = 2.35                          |                  |                    |                  |         |
| V... (acre-ft) = (WEIGHTED E)(AREA)/12                          |             |       |       |       |       |                 | P... (in) = 2.75                          |                  |                    |                  |         |
| V.... (acre-ft) = V... + (A · )P... - P... /12                  |             |       |       |       |       |                 | P.... (in) = 3.95                         |                  |                    |                  |         |
| Q (cfs) = (Q*) (A · ) + (Q*) (A · ) + (Q*) (A · )               |             |       |       |       |       |                 |                                           |                  |                    |                  |         |



|                                                                                                                                                        |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>× FL=5179.37</li> <li>× BOC=5179.91</li> <li>× EO=5180.03</li> <li>× G=5180.29</li> <li>× EA=5179.59</li> </ul> | <p><b>EXISTING</b></p> <p>EXISTING FLOWLINE</p> <p>EXISTING BACK OF CURB</p> <p>EXISTING EDGE OF CONCRETE</p> <p>EXISTING GROUND</p> <p>EXISTING ASPHALT</p> |
| <p><b>FF=70.20</b></p>                                                                                                                                 | <p>FINISHED FLOOR ELEVATION</p>                                                                                                                              |
| <p><b>TS=73.00</b></p>                                                                                                                                 | <p>TOP OF SIDEWALK</p>                                                                                                                                       |
| <p><b>TC=73.00</b></p>                                                                                                                                 | <p>TOP OF CONCRETE</p>                                                                                                                                       |
| <p><b>TP=73.00</b></p>                                                                                                                                 | <p>TOP OF PAVEMENT</p>                                                                                                                                       |
| <p><b>TG=73.00</b></p>                                                                                                                                 | <p>TOP OF GROUND</p>                                                                                                                                         |
|                                                                   | <p>EXIST. MAJOR CONTOURS</p>                                                                                                                                 |
|                                                                   | <p>EXIST. MINOR CONTOURS</p>                                                                                                                                 |
|                                                                   | <p>FLOW DIRECTION</p>                                                                                                                                        |
|                                                                   | <p>PROPOSED SWALE</p>                                                                                                                                        |
|                                                                   | <p>BOUNDARY</p>                                                                                                                                              |



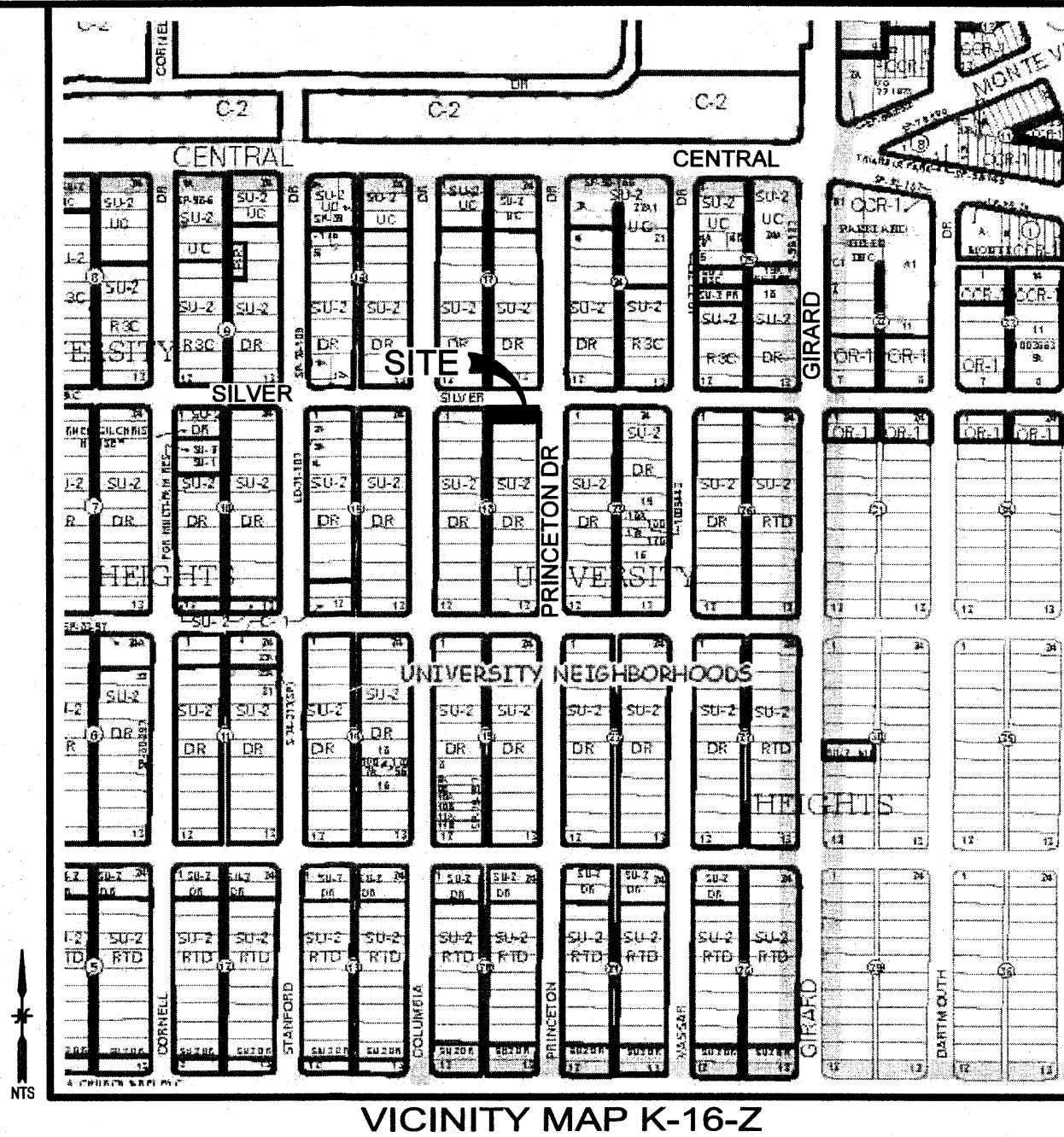
|                                              |          |                                                                                                           |  |
|----------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------|--|
| SHEET No.                                    |          | 1 of 1                                                                                                    |  |
| CITY/COUNTY REVIEW                           |          | LOT 24, BLOCK 18<br>UNIVERSITY HEIGHTS<br>201 PRINCETON DR. S.E.<br><br>GRADING AND DRAINAGE PLAN         |  |
| DEPARTMENT                                   | SIGN-OFF | DATE                                                                                                      |  |
| WASTEWATER MGMT. DIV.                        |          |                                                                                                           |  |
| WATER SERVICES                               |          |                                                                                                           |  |
| SUBDIVISION ENG.                             |          |                                                                                                           |  |
| STREETS                                      |          |                                                                                                           |  |
| TRAFFIC                                      |          |                                                                                                           |  |
| FOR CITY/COUNTY USE ONLY                     |          |                                                                                                           |  |
|                                              |          |                                                                                                           |  |
| NO. _____ REVISION _____ BY _____ DATE _____ |          | P.O. BOX 65740<br>ALBUQUERQUE, NM 87193<br>PHONE: (505) 271-2199<br>FAX: (505) 830-9246<br>tczm@jhsco.com |  |
| PROJECT: _____                               |          | DRAWN BY: DEM                                                                                             |  |
| DATE: _____                                  |          | CHECKED BY: _____                                                                                         |  |
| HORIZ. SCALE: _____                          |          | APPROVED BY: _____                                                                                        |  |
| VERT. SCALE: _____                           |          | FILE: _____                                                                                               |  |

# DRAINAGE CERTIFICATION

I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 4-17-15. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY CHRIS DEHLER, NMPS 7923. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 4-1-16 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

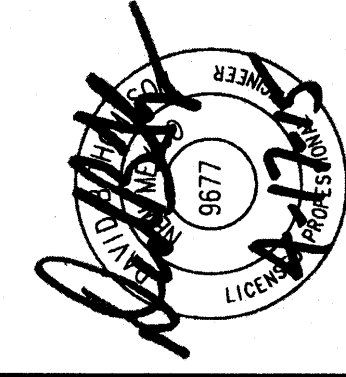
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

*David B. Thompson*  
**4-5-16**  
 DAVID B. THOMPSON, NMPE 9677      DATE



**Thompson Engineering Consultants, Inc.**  
 P.O. BOX 65760  
 ALBUQUERQUE, NM 87193  
 PHONE: (505) 271-2199  
 FAX: (505) 830-9246  
 tczm@ahco.com

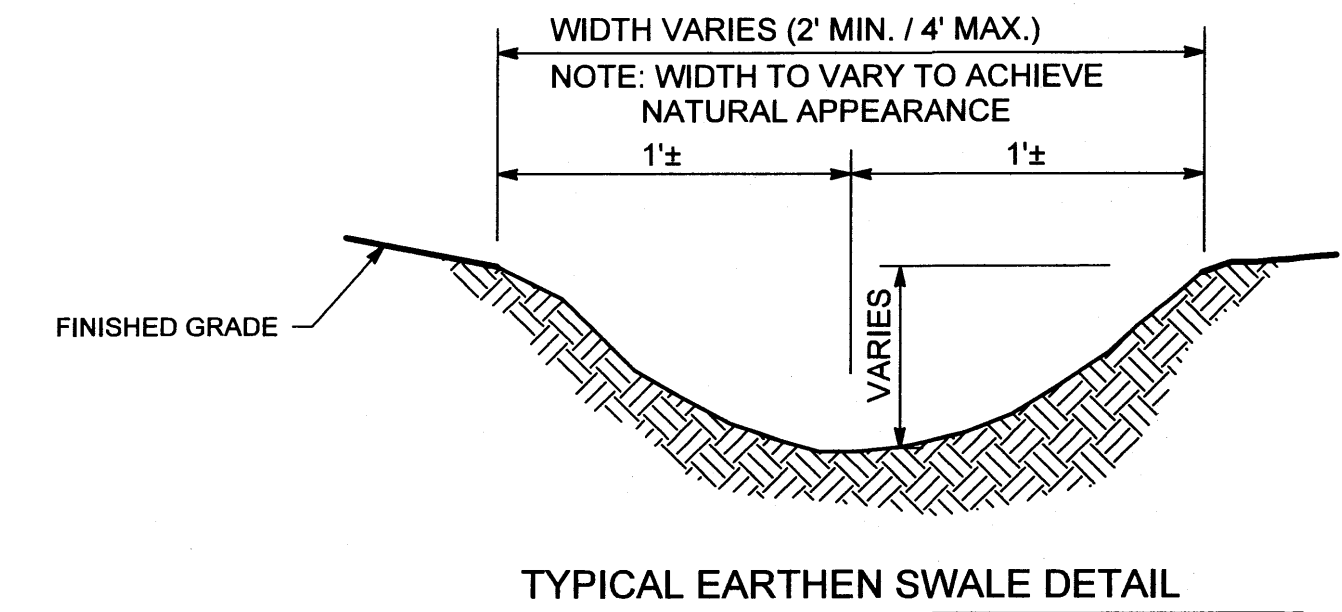
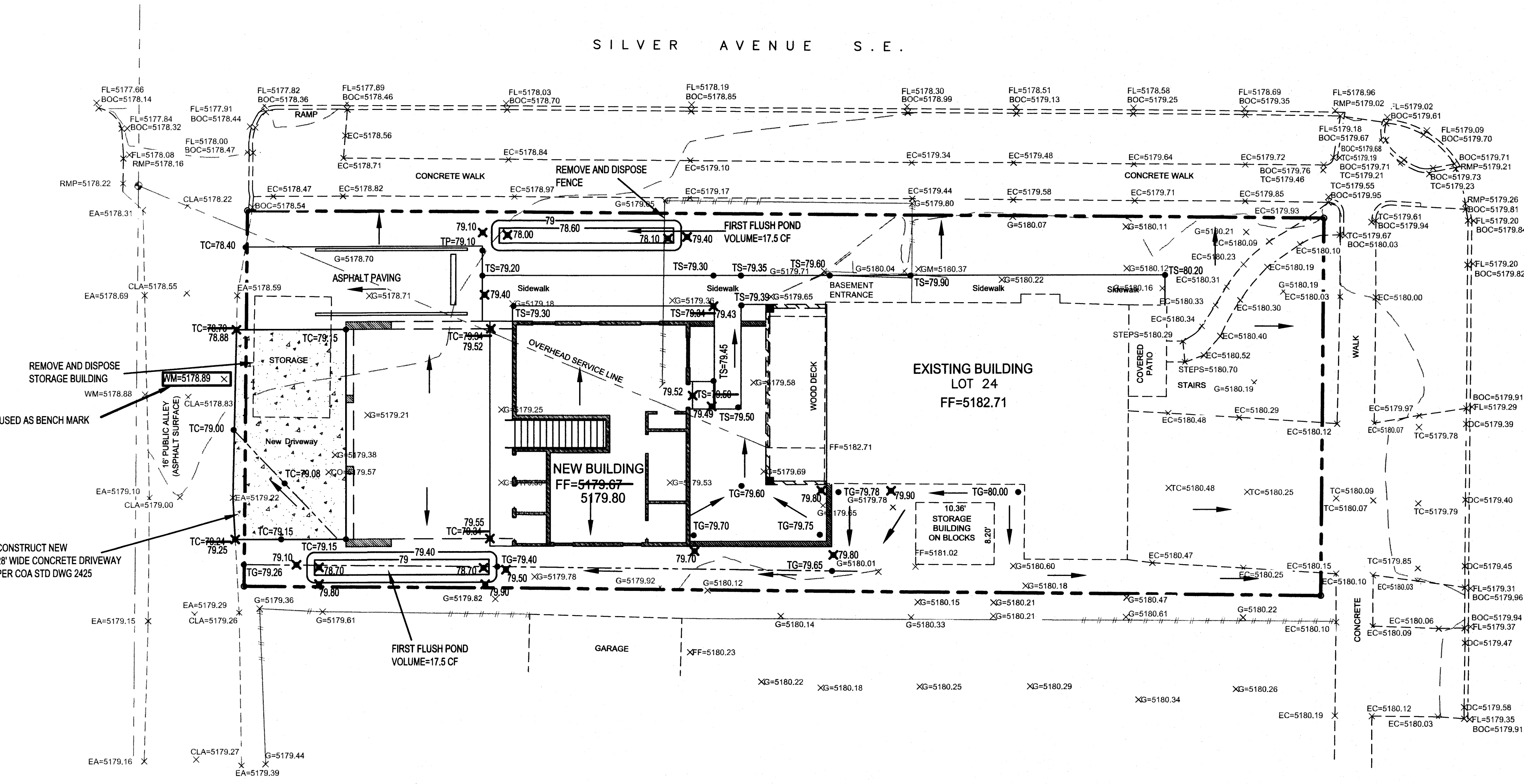
| NO. | REVISION | BY | DATE |
|-----|----------|----|------|
|     |          |    |      |
|     |          |    |      |
|     |          |    |      |



**LOT 24, BLOCK 18**  
**UNIVERSITY HEIGHTS**  
**201 PRINCETON DRIVE, S.E.**  
**GRADING AND DRAINAGE PLAN**

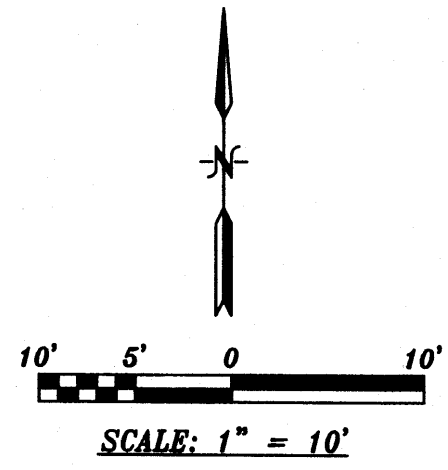
| CITY/COUNTY REVIEW    | DATE     |
|-----------------------|----------|
| DEPARTMENT            | SIGN-OFF |
| WASTEWATER MGMT. DIV. |          |
| WATER SERVICES        |          |
| SUBDIVISION ENG.      |          |
| STREETS               |          |
| TRAFFIC               |          |

SHEET No. **1 of 1**



| 100-YEAR HYDROLOGIC CALCULATIONS                            |             |                |       |       |       |                 |                        |                  |                    |                  |         |
|-------------------------------------------------------------|-------------|----------------|-------|-------|-------|-----------------|------------------------|------------------|--------------------|------------------|---------|
| BASIN #                                                     | AREA (acre) | LAND TREATMENT |       |       |       | WEIGHTED E (in) | 100-YEAR PRECIPITATION |                  |                    |                  |         |
|                                                             |             | A (%)          | B (%) | C (%) | D (%) |                 | V (6-hr) (acre-ft)     | V (6-hr) (cu-ft) | V(24-hr) (acre-ft) | V(24-hr) (cu-ft) | Q (cfs) |
| EXISTING CONDITIONS                                         |             |                |       |       |       |                 |                        |                  |                    |                  |         |
| LOT                                                         | 0.1636      | 0.00           | 27.30 | 27.40 | 45.30 | 1.48            | 0.02                   | 881              | 0.02               | 988              | 0.59    |
| TOTAL RUNOFF                                                | 0.16        |                |       |       |       |                 | 0.02                   | 881              | 0.02               | 988              | 0.59    |
| PROPOSED CONDITIONS                                         |             |                |       |       |       |                 |                        |                  |                    |                  |         |
| LOT                                                         | 0.1636      | 0.00           | 18.70 | 62.60 | 1.68  | 0.02            | 1,000                  | 0.03             | 1,149              | 0.65             |         |
| TOTAL RUNOFF                                                | 0.16        |                |       |       |       |                 | 0.02                   | 1000             | 0.03               | 1149             | 0.65    |
| EXCESS PRECIP.                                              |             | 0.53           | 0.78  | 1.13  | 2.12  | E (in)          |                        |                  |                    |                  |         |
| PEAK DISCHARGE                                              |             | 1.56           | 2.28  | 3.14  | 4.7   | Q* (cfs)        |                        |                  |                    |                  |         |
| ZONE = 2                                                    |             |                |       |       |       |                 |                        |                  |                    |                  |         |
| WEIGHTED E (in) = (E*)(%A) + (E*)(%B) + (E*)(%C) + (E*)(%D) |             |                |       |       |       |                 | P... (in.) = 2.35      |                  |                    |                  |         |
| V... (acre-ft) = (WEIGHTED E)(AREA)/12                      |             |                |       |       |       |                 | P... (in.) = 2.75      |                  |                    |                  |         |
| V... (cu-ft) = V... * (A*)(P... - P...)/12                  |             |                |       |       |       |                 | P... (in.) = 3.95      |                  |                    |                  |         |
| Q (cfs) = (Q*)(A*) + (Q*)(A*) + (Q*)(A*) + (Q*)(A*)         |             |                |       |       |       |                 |                        |                  |                    |                  |         |

| LEGEND      |                           |
|-------------|---------------------------|
| FL=5179.37  | EXISTING FLOWLINE         |
| BOC=5179.91 | EXISTING BACK OF CURB     |
| EC=5180.03  | EXISTING EDGE OF CONCRETE |
| GC=5180.29  | EXISTING GROUND           |
| EA=5178.59  | EXISTING ASPHALT          |
| FF=70.20    | FINISHED FLOOR ELEVATION  |
| TS=73.00    | TOP OF SIDEWALK           |
| TC=73.00    | TOP OF CONCRETE           |
| TP=73.00    | TOP OF PAVEMENT           |
| TG=73.00    | TOP OF GROUND             |
| ---         | EXIST, MAJOR CONTOURS     |
| ---         | EXIST, MINOR CONTOURS     |
| ---         | FLOW DIRECTION            |
| ---         | PROPOSED SWALE            |
| ---         | BOUNDARY                  |
| ---         | NEW AS-BUILT ELEVATIONS   |



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 LAND DEVELOPMENT SECTION