

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

March 23, 1987

Chris Weiss
Weiss-Hines Engineering, Inc.
1100 Alvarado, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR TENNESSEE FOUR PLEXES
(K-19/D82) ENGINEER'S STAMP DATED MARCH 17, 1987

Dear Chris:

Based on the information provided on your submittal of March 17, 1987, the above referenced plan is approved for Building and Foundation Permit.

Please advise your client that he will be required to have a separate permit for construction within City Right-of-Way. Also, please provide this office with the approved filed copy of the replat.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

cc: Becky Sandoval

BJM/bsj

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

FILE COPY

MEMORANDUM:

March 25, 1987



ENGINEERING GROUP

TO: Tom Aragon, Transportation System Division

FROM: Fred J. Aguirre, Hydrologist; Engineering Division/PWD *FJA*

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHTS-OF-WAY/EASEMENT
TENNESSEE STREET FOUR PLEXES - (K-19/D82)

Transmitted herewith, is a copy of the approved drainage plan for the referenced projects incorporating the S.O. 19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. 19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Enclosures

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Tennessee 4-Plexes ZONE ATLAS/DRAINAGE FILE # K-19/D82LEGAL DESCRIPTION: Lots 31-A + 34-A, Block 15, Mesa Verde Add'n.CITY ADDRESS: 227, 231, 233 + 235 Tennessee N.E.ENGINEERING FIRM: Weiss-Hines Engineering, Inc. CONTACT: SteveADDRESS: 1100 Alvarado N.E. PHONE: 266-3444

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: Voil Latin CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Douglas H. Smith. CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES☐ NO☒ COPY OF CONFERENCE
RECAP SHEET PROVIDED

MAR 17 1987

DRB NO. _____

EPC NO. _____

PROJECT NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAIN PLAN☒ GRADING PLAN☐ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION☐ Resubmittal

CHECK TYPE OF APPROVAL SOUGHT:

☐ SECTOR PLAN APPROVAL☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☒ BUILDING PERMIT APPROVAL☒ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY
APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☐ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: March 17, 1987BY: Weiss-Hines Eng. Inc.

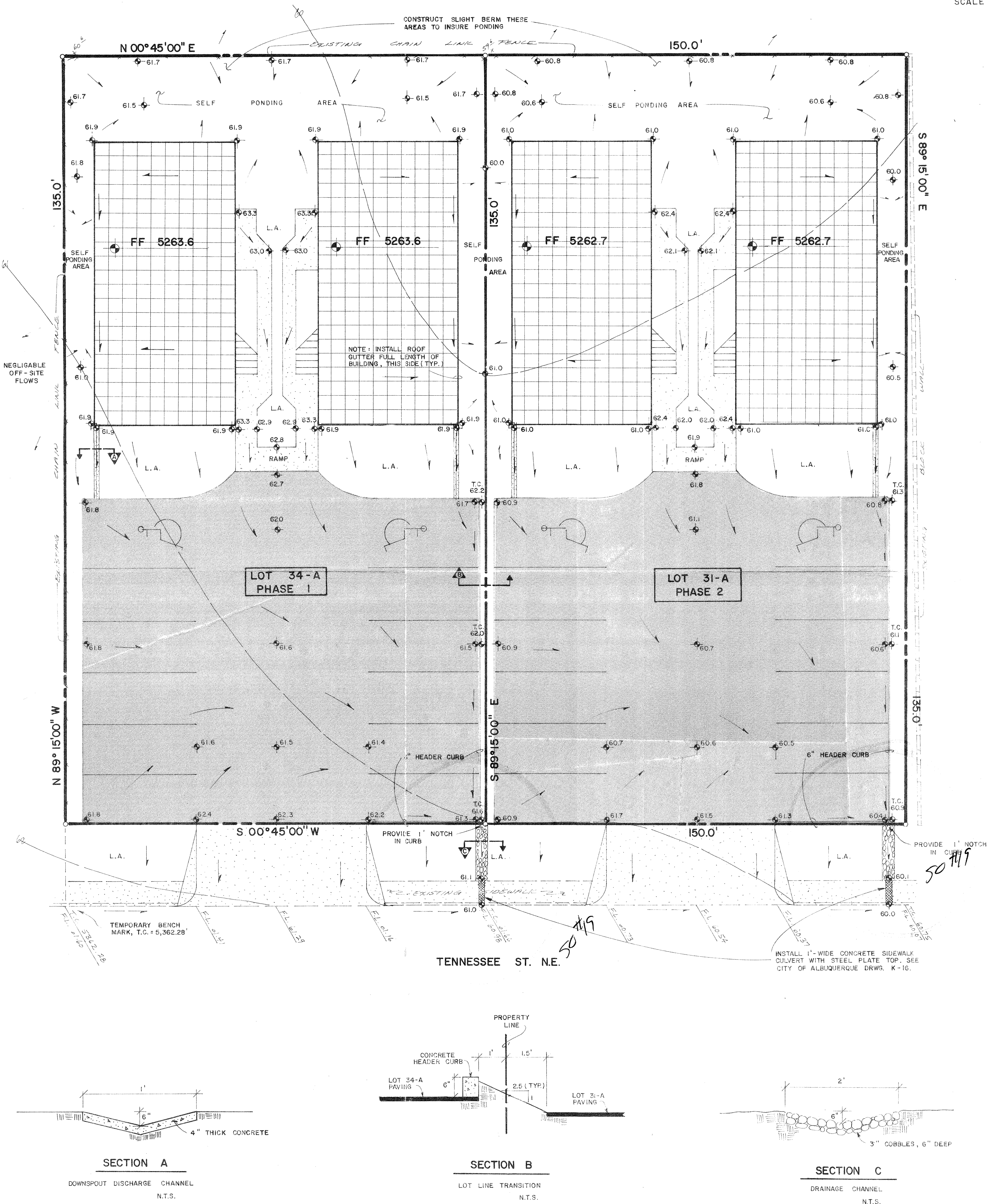
REV. 10/85

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DATE RECEIVED

BY

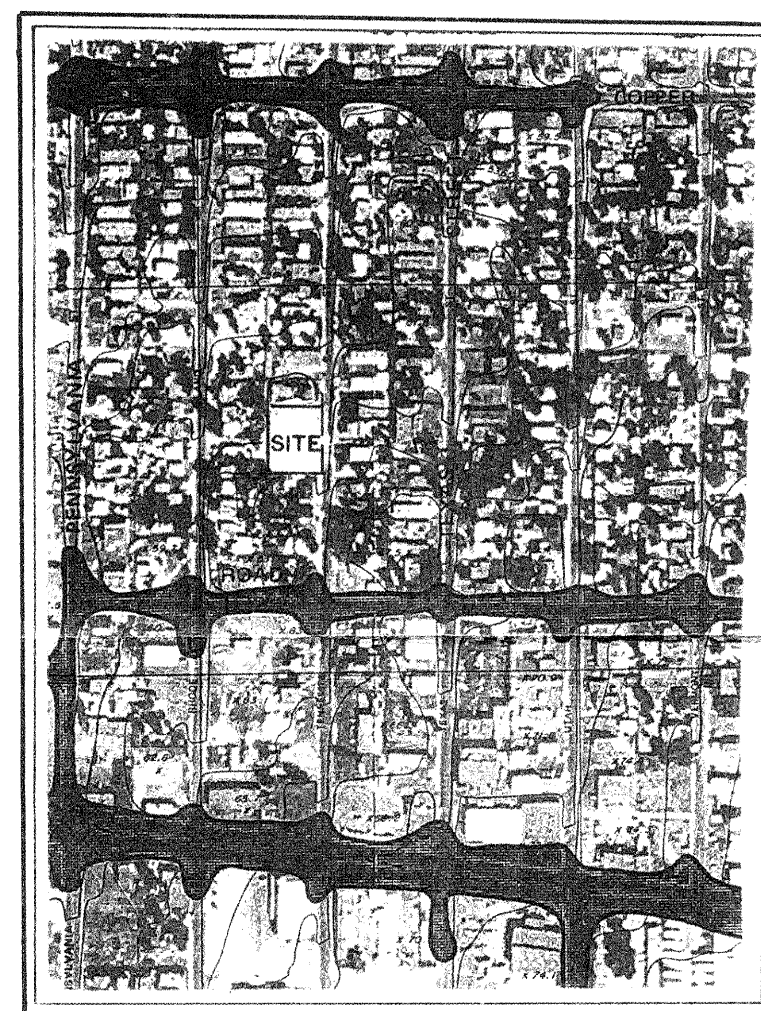
3/17



SCALE 1" = 10'



VICINITY MAP
K - 19



FLOOD HAZARD MAP
PANEL 30

SCOPE:

The proposed improvements are comprised of four slab-on-grade frame construction four-plexes, two on each lot, along with paved parking lots, landscaped areas, and gravelled self-ponding areas at the rear of the buildings.

The present site is vacant, unimproved land bordered by Tennessee Avenue on the east and residential properties to the north, west and south. A concrete block wall runs along the north property line, and chain-link fences along the south and west property lines.

The intent of this plan is to show:

- Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.
- The extent of proposed site improvements, including buildings, walks and pavement.
- The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.
- The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

GENERAL NOTES: Construction will be accomplished in two phases (Lot 31- & 34-A). Runoff will not cross the lot lines, but will be separated to drain at the front of each lot to Tennessee Avenue.

LEGAL: Lots 31-A and 34-A in Block 15 of Mesa Verde Addition, City of Albuquerque.

SURVEYOR: Douglas H. Smith Land Surveying, Albuquerque, NM.

B.M.: City of Albuquerque ACS brass disc 6-K19 set in a concrete cylinder in the ground on the west median nose of the intersection of Pennsylvania and Central. Elevation = 5,358.44.

T.B.M.: Top of curb south property line projection Lot 34-A. Elevation = 5,362.28'

SOILS: From SCS Bernalillo County Soil Survey, Plate 31, soil type TgB, Hydrologic Soil Group 'B'.

FLOOD HAZARD: Site is not located within a flood hazard zone, as shown on FEMA Map #30.

OFF-SITE DRAINAGE: No offsite drainage will affect this property.

EROSION CONTROL: Contractor will be responsible for containing any sediment generated during construction by using either a fabric silt fence or by constructing a 1'-high earth berm across low points of discharge from each lot.

CALCULATIONS: Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100-year, 6-hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

The majority of the site will drain to Tennessee Avenue. The pavement, roof areas, and walks will be routed to the street. A drainage area along the rear yards and side yard area will drain to slight depressions within the site along the west property line. This area will essentially become self-ponding in that there will be no improvements to increase the runoff volume to the depressions.

RATIONAL METHOD- Q = CIA

Area of site: 20,250 sq.ft. = 0.4649 Ac.

Run-off Coefficient:

Existing site:
Undeveloped Area = 20,250 ft²

$$C_u = \frac{20,250 (.40)}{20,250} = 0.40$$

Composite C = 0.40

Developed Site:
Roof Area = 5,000 ft²
Landscaped Area = 5,000 ft²
Paved Area = 10,200 ft²

$$C_d = \frac{5,000 (.90)}{20,250} = 0.22$$

$$C_l = \frac{5,000 (.25)}{20,250} = 0.06$$

$$C_p = \frac{10,200 (.95)}{20,250} = 0.48$$

Composite C = 0.76

Rainfall Intensity:

$$I = P_o (6.84)^T (-0.51) = 4.86 \text{ per hour}$$

$$I = 2.3 \text{ "(DPM 12.2 ~ 1) } / T_c = 10 \text{ minutes}$$

Existing Condition:

$$Q_{100} = (0.40)(4.86)(.465) = 0.9 \text{ cfs}$$

Developed Condition:

$$Q_{100} = (0.76)(4.86)(.465) = 1.7 \text{ cfs}$$

SUMMARY:

$$Q_{100} = (1.7) - (0.9) = 0.8 \text{ cfs (increase)}$$

Site will be allowed to free discharge to Tennessee based on a predesign meeting with City Hydrology which outlined these reasons:

- The site is an infill to an established area, and as such, has been accounted for in the Master Drainage Plan.
- The State Fair flood detention improvements have been completed downstream from this area and has removed most of the downstream flooding shown on the present FEMA maps.

LEGEND

	SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
	PROPOSED ASPHALT
	BUILDING (EXISTING, PROPOSED)
	PROPERTY LINE
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED CONTOUR
	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
	LANDSCAPED AREA
	TOP OF GRADE WALL (LESS THAN 18' HIGH)
	TOP OF RETAINING WALL (MORE THAN 18' HIGH)
	TOP OF ASPHALT
	TOP OF CURB
	FLOW LINE
	FINISHED FLOOR

NOTICE TO CONTRACTOR

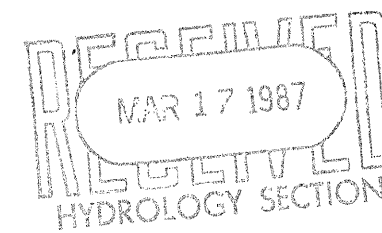
- An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
- All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Albuquerque Interim Standard Specifications for Public Works Construction.
- Two working days prior to any excavation, contractor must contact the Locating Service, 765-1234, for location of existing utilities.
- 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 within a minimum amount of delay.
- Backfill compaction shall be according to _____ street use.
- Maintenance of these facilities shall be the responsibility of the Owner of the property served.
- Contractor is responsible for obtaining excavation permit for sidewalk culvert/drain.
- Proof of acceptance will be required prior to sign off for Certificate of Occupancy (C.O.).

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: 3/21/87 Date

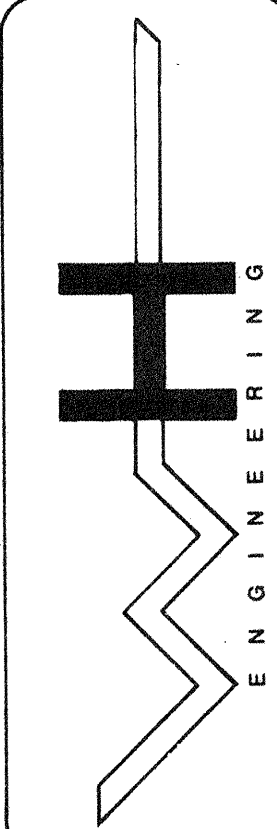
INSPECTION APPROVAL: 4-21-87 permit #35552 Date

ACCEPTANCE: 7-31-87 Date



K19/D82
Permit # 35552

TENNESSEE STREET FOUR PLEXES GRADING/DRAINAGE PLAN



SHEET 1 OF 1

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

REVISIONS
DATE
DESIGNED: SC/LW 3/15/86
CHECKED: SC 3/17/86