

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 11, 1994

Gary R. Bittner
Jeff Mortensen & Assoc.
6010B Midway Park Blvd. NE
Albuquerque, NM 87109

RE: BUILDING PERMIT FOR DWIGHT RESIDENCE (K-23/D51) ENGINEER'S STAMP DATED 10/5/94

Dear Mr. Bittner:

Based upon your 10/6/94 submittal, the referenced project is approved for Building Permit. Please be advised that prior to Certificate of Occupancy release, we will need Engineer's Certification per the Certification Checklist.

If I can be of further assistance feel free to contact me at 768-3622.

Cordially,

Scott Davis

PWD, Hydrology Division

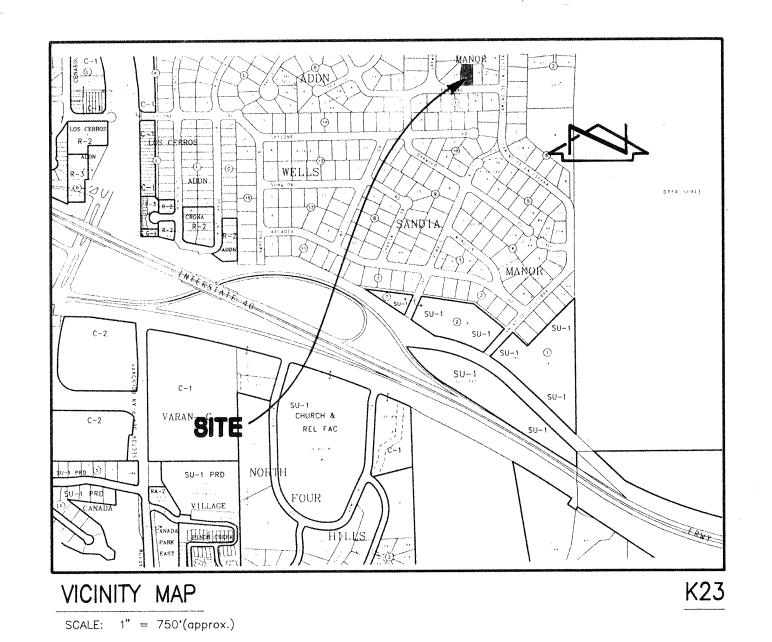
c: Andrew Garcia File

(wp+8869)

DRAINAGE INFORMATION SHEET

8849 940761

PROJECT TITLE: DWIGHT RESIDENCE	ZONE ATLAS/DRNG. FILE #: K23 /2051
DRB #: EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: LOT 11, BLOCK 7,	SANDIA MANOR
CITY ADDRESS:	
ENGINEERING FIRM: JEFF MORTELISED & AS	_
ADDRESS: 6010B MIDWAY PARK BLV	D NE. PHONE: 345-4250
OWNER: BENTON DW1614T	CONTACT: ARCHITECT
ADDRESS:	PHONE:
ARCHITECT: DAVID ABBOTT	
	V.E. PHONE: 298-2039
SURVEYOR: RON FORSTBAUER	CONTACT: ARCHITECT
ADDRESS:	PHONE:
CONTRACTOR: NOT SELECTED	CONTACT:
ADDRESS:	PHONE:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D. APPROVAL
GRADING PLAN	s. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEÉR'S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	CERTIFICATE OF OCCUPANCY APPROVAL
YES	GRADING PERMIT APPROVAL
NO	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
	DRAINAGE REQUIREMENTS
	OTHER(SPECIFY)
DATE SUBMITTED: 10/5/94	
DV. CARY R. BITTHER	그 그 그 그 그 그 그 그 그 그 그 그 그 그 사람들은 사람들이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다.



LEGAL DESCRIPTION

LOT 11, BLOCK 7 SANDIA MANOR ALBUQUERQUE, NEW MEXICO MARCH 1994

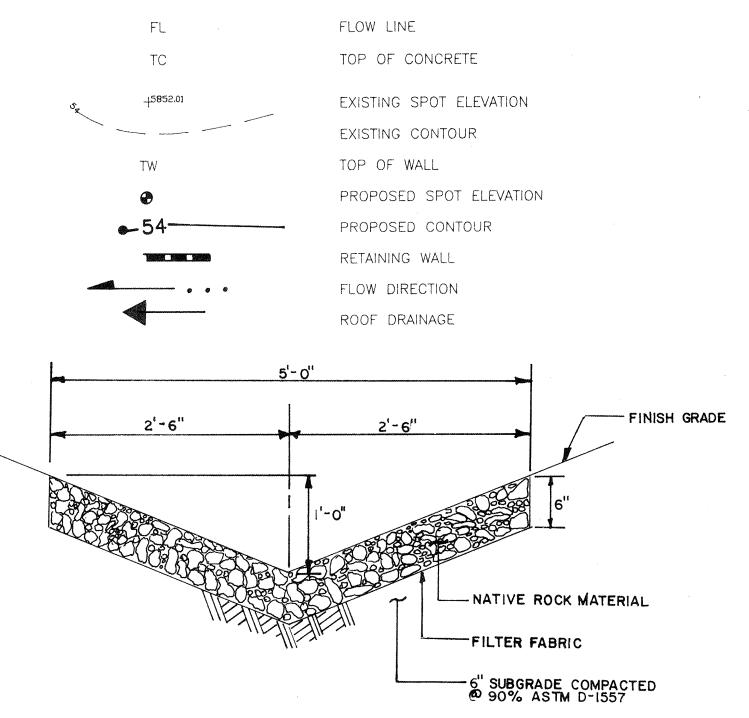
BENCHMARK

Benchmark — City of Albuquerqe — 15-k23 — a square chiseled Road Ne, about 175' East of the intersection with Cenaroca Court on top of concrete curb located on the North side of Piedras Elevation = 5795.46 FEET (M.S.L.D.)

T.B.M.

Top of rebar located at the southeast property corner. Elevation = 5868.01 FEET (M.S.L.D.)

LEGEND



DRAINAGE PLAN

The following items concerning the Dwight Residence Drainage Plan are contained hereon:

> 1. Vicinity Map Grading Plan Calculations

As shown by the Vicinity Map, the site is located on Piedras Road N.E., east of the intersection with Oakwood Pl. N.E. At present, the site is undeveloped. The site lies in a residential infill

Review of Panel 31 of 50 of the National Flood Insurance Program National Flood Insurance Rate Maps for the City of Albuquerque, New Mexico, dated October 14, 1993, indicates the site does not lie in or upstream of a designated 100—year flood hazard zone.

The Grading Plan shows: 1) existing and proposed grades indicated by spot elevations and contours at 2'0" intervals, 2) the limit and character of the existing improvements, and 3) the continuity between existing and proposed grades. As shown by this plan, the proposed development consists of a single family residence with a concrete driveway and retaining walls. Excess native material comprising mostly of rock, will be used to stabilize slopes on the developed site and create a rock garden along Piedras Road N.E. The inverts and rock garden shall have filter fabric installed prior to lining and backfill with the native material. Presently, the site drains in a southeasterly direction and shall continue in their historic patterns on the undisturbed portion of the site, but shall be diverted southward for discharge into Piedras Road N.E. in the developed portion of the site. The site lies in an infill area, and the minor increase in runoff is not expected to effect storm drain capacity downstream. Review of the Storm Drain Facilities Map show inlets in Turner Drive N.E. and Skyline Road N.E. downstream from the site. This system discharges directly into the Tramway Channel.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40—acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, the proposed improvements will result in a minor increase in runoff generated by this site.

CALCULATIONS

Site Characteristics

- Precipitation Zone = 2.90 in. Total Area (A_T) = 0.33 acres
- 4. Existing Land Treatment

Area (sf/ac) Treatment 100.0 14,500/0.33

5. Developed Land Treatment

Area (sf/ac) Treatment 4,650/0.10 30.3

Existing Condition

Volume

 $E_W = (E_A A_A + E_B + E_C A_C + E_D A_D) / A_T$ $E_{W} = (1.46(0.33))/0.33 = 1.46 \text{ in.}$ $V_{100}^{"} = (E_W/12)A_T$ $V_{100} = (1.46/12)0.33 = 0.0402$ ac.ft.; 1,750 cf

2. Peak Discharge

 $Q_p = Q_{PA}A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_p = Q_{100} = 3.73(0.33) = 1.2 \text{ cfs}$

Developed Condition

1. Volume

 $E_{W} = (1.46(0.23) + 2.64(0.10))/0.33 = 1.82 \text{ in.}$ $E_W = (E_A A_A + E_B + E_C A_C + E_D A_D) / A_T$ $V_{100} = (1.82/12)0.33 = 0.0501$ ac.ft.; 2,180 cf

 $V_{100} = (E_W/12)A_T$

Peak Discharge $Q_p = Q_{100} = 3.14(0.23) + 5.25(0.10) = 1.4 \text{ cfs}$ $Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

Comparison

1. $\Delta V_{100} = 2180-1750 = 430$ cf (increase) 2. $\Delta Q_{100}^{100} = 1.4 - 1.2 = 0.2 \text{ cfs (increase)}$

Construction Notes:

1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990, for location of existing utilities.

- 2. Prior to construction, the contractor shall excavate and verify the horizontal SCALE: 1" = 10' and vertical location of all potential 0 5 10 obstructions. Should a conflict exist, the contractor shall notify the engineer in writing 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-ofway 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 conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, 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.
- 6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

\Lot 10\

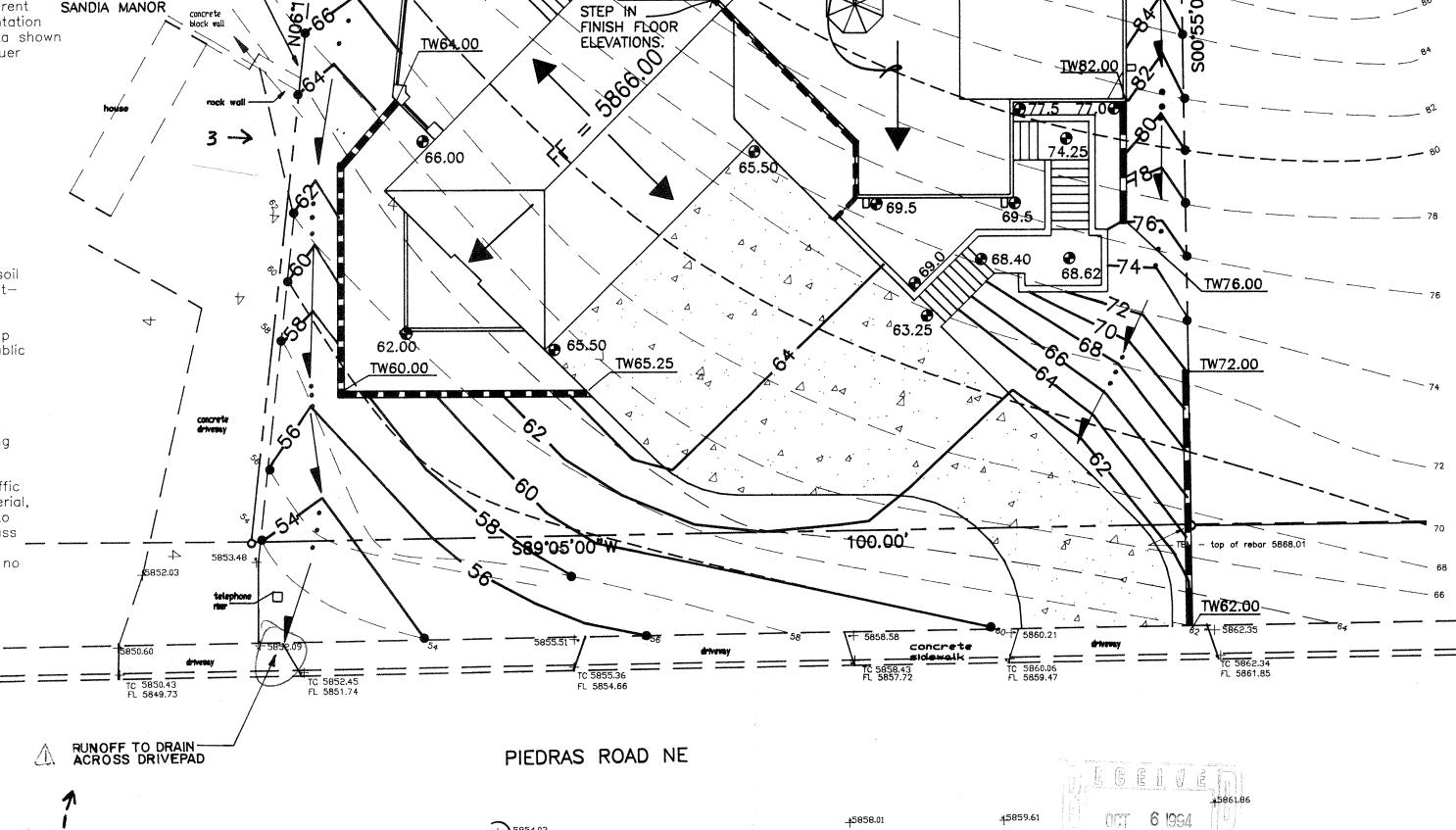
REMOVE & DISPOSE OF - ROCK WALL ENCROACHING

FROM LOT 10 BLOCK 7,

This is not a boundary survey. Apparent property corners are shown for orientation only. Topographic and boundary data shown is from survey by Ronald A. Forstbauer Surveying Company, March 1994.

Erosion Control Measures:

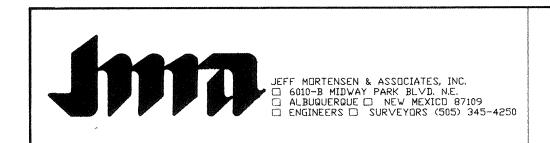
- 1. The contractor shall ensure that no soil erodes from the site into public rightof-way or onto private property.
- 2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
- 3. The contractor shall secure "Topsoil Disturbance Permit" prior to beginning
- 4. Any areas of excess disturbance (traffic access, storage yard excavated material, etc.) shall be re-seeded according to C.O.A. Specification 1012 "Native Grass Seeding". This will be considered incidental to construction, therefore, no separate payment will be made.



5854.03

ROOF DRAINAGE

FF = 5878,00



TYPICAL INVERT SECTION SCALE: I"= I

GRADING AND DRAINAGE PLAN DWIGHT RESIDENCE

JOB NO. 940761 10/94 GRB ADD NOTE AND TYPICAL SECTION 08-1994 DRAWN BY C.J.H. APPROVED BY J.G.M.

- 10'(TYP) -

ARCHITECTURAL PLANS

FOR ELEVATIONS.