

VICINITY MAP
SCALE: 1" = 800' (APPROX.)

LEGAL DESCRIPTION
AN EASTERLY PORTION OF TRACT "C",
A REPLAT OF A PORTION OF THE EAST
END ADDITION, ALBUQUERQUE, N.M.

PROJECT BENCHMARK
AN ACS BRASS TABLET STAMPED "B-19, 1979"
SET IN CONCRETE WITH THE CURB, LOCATED IN
THE SOUTHWEST QUADRANT OF THE INTERSECTION
OF CONSTITUTION AVE. N.E. & WYOMING BLVD. N.E.
ELEVATION: 5340.37 FT. (MSLD)

T.B.M. #1
NORTHWEST BONNET BOLT ON THE FIRE
HYDRANT LOCATED ACROSS CONSTITUTION
PL. N.E. FROM THE PROJECT SITE N.E.
PROPERTY CORNER
ELEVATION: 5346.85 FT. (MSLD)

T.B.M. #2
SAS MH RIM LOCATED IN CONSTITUTION
PL. N.E. NEAR THE PROJECT SITE N.E.
PROPERTY CORNER
ELEVATION: 5343.47 FT. (MSLD)

LEGEND

- EXIST. SPOTELEVATION
- PROPOSED SPOTELEVATION
- EXIST. CONTOUR LINE
- PROPOSED CONTOUR LINE
- EXIST. FLOWLINE
- PROPOSED FLOWLINE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- TC TOP OF CURB / TOP OF CONCRETE
- FL FLOWLINE
- TA TOP OF ASPHALT
- TW TOP OF WALL
- BSW BACK OF SIDEWALK
- EXIST. DIRECTION OF RUNOFF

EROSION CONTROL MEASURES

- 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.
- 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.
- THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

DRAINAGE PLAN

The following items concerning the 8200 Constitution Place N.E. Drainage Plan are contained hereon:

- Vicinity Map
- Grading Plan
- Calculations

As shown by the Vicinity Map, the site is located on the south side of Constitution Place N.E. between Pennsylvania Street N.E. and Wyoming Boulevard N.E. At present, the site is developed with medical office buildings and two parking lots. It is the intent of this plan to expand the west parking lot.

As shown by Panel 30 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps for the City of Albuquerque, New Mexico, dated October 14, 1983, this site does not lie within a designated flood hazard zone. The site is bounded on the south by Interstate 40. The I-40 channel, which lies between the eastbound and west-bound lanes, is indicated as a Zone "A" with the "100-year flood confined to constructed channel." The site is protected from that flood zone by the westbound lanes of I-40.

The Grading Plan shows 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, 2) the limit and character of the existing improvements, 3) the limit and character of the proposed improvements, and 4) continuity between existing and proposed grades. As shown by this plan, the proposed improvements consist of the expansion of the existing parking lot on the west side of the site. That area is presently undeveloped and will be developed with paving and landscaping. The site is characterized by two drainage basins. Basin "A" discharges to the Interstate 40 right-of-way. This is accomplished via two existing concrete rundowns. Basin "B", on the other hand, drains onto the adjacent property which lies to the west of the site. That plan is known as "El Camino Medical Center East" (aka 8120 Constitution Place N.E.). The approved grading and drainage plan for that site is attached as a supplement to this plan. Review of that plan indicates that it is designed to receive offsite flows in the magnitude of 2 cfs. That plan preceded the development of this site. The development of this site has diverted the majority of that runoff to the I-40 right-of-way. The remaining runoff generated by the project site continues, and will continue, to drain onto the adjacent property. The peak rate of discharge will be less than the 2 cfs anticipated by the previous design. The expansion of the parking lot on this site will divert more runoff to the adjacent property with the peak discharge rate being maintained below the 2 cfs threshold. The runoff will be discharged to the existing private concrete channel which was constructed along the east property line of the 8120 Constitution Place N.E. site for the purpose of accepting and conveying offsite flows.

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 set forth in the Revision of Section 22-2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated August 1991, has been used in the preparation of these calculations. As shown by these calculations, the runoff generated by Basin A will experience a slight reduction while the runoff generated by Basin B will experience a slight increase. The peak rate of discharge from Basin B will be held below the 2 cfs threshold established by the grading and drainage plan for 8120 Constitution Place N.E.

DRAINAGE PLAN UPDATE

THE SUBJECT PLAN WAS SUBMITTED AND APPROVED IN 1993. CONSTRUCTION WAS DEFERRED UNTIL PRESENT NECESSITATING A RESUBMITTAL. A SITE VISIT BY THE ENGINEER ON JUNE 04, 2003 REVEALED THAT THE CONDITIONS PORTRAYED BY THIS PLAN HAVE NOT CHANGED AND HENCE THE PLAN IS STILL VALID.

CALCULATIONS

- Area Characteristics**
- Precipitation Zone 3
 - $P_{s,100} = P_{s,60} = 2.60"$
 - Total Area (A_T) 1.49 Acres
 - Existing Land Treatment

A. Basin A	
Treatment	Area (sf/ac)
B	11,324/0.26
D	44,955/1.03

B. Basin B	
Treatment	Area (sf/ac)
A	8,606/0.02

5. Developed Land Treatment	
A. Basin A	
Treatment	Area (sf/ac)
B	10,729/0.25
D	39,168/0.88

B. Basin B	
Treatment	Area (sf/ac)
B	1,456/0.03
D	14,548/0.33

Existing Condition

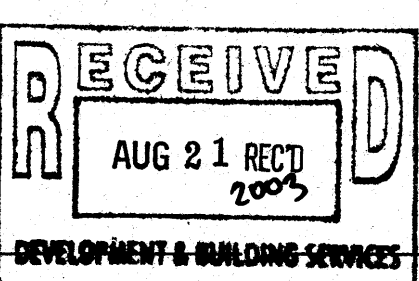
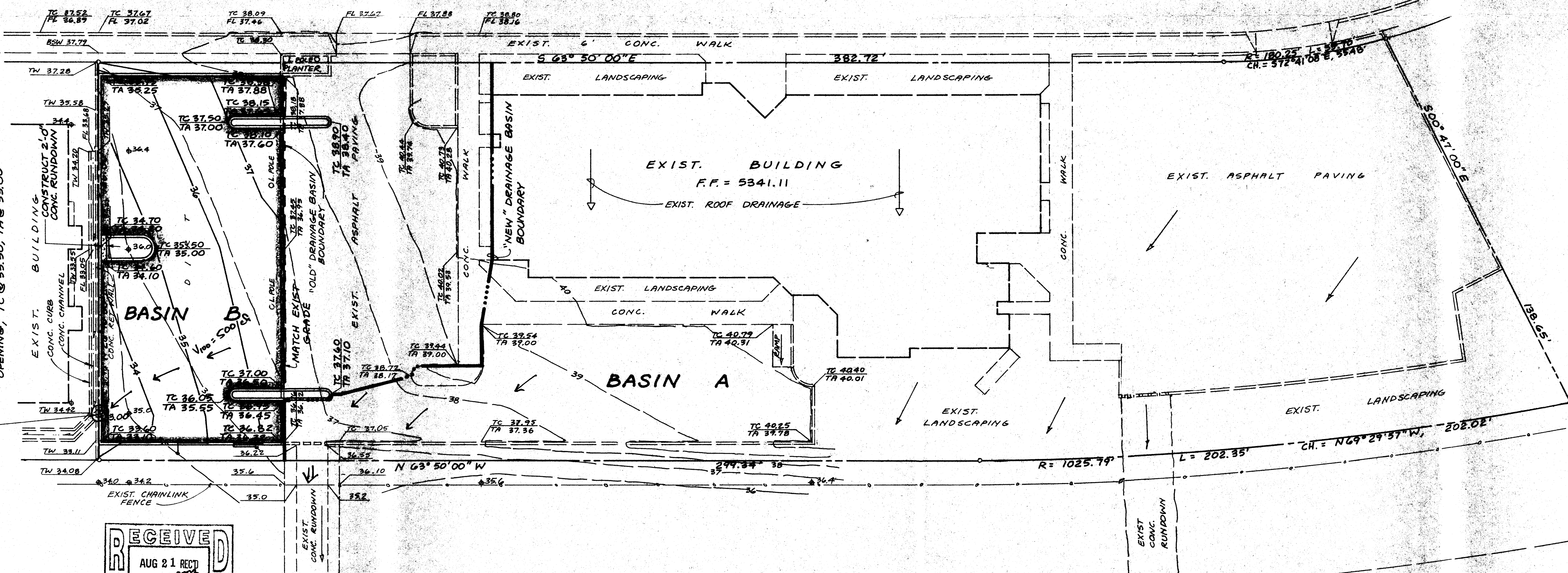
- A. Basin A**
- Volume
 - Peak Discharge
- B. Basin B**
- Volume
 - Peak Discharge
 - Weir Capacity

- B. Basin B**
- Volume
 - Peak Discharge
- Developed Condition**
- A. Basin A**
- Volume
 - Peak Discharge
- B. Basin B**
- Volume
 - Peak Discharge
 - Weir Capacity

- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
 - 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 IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - 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.
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CONSTITUTION PLACE N.E.

T.B.M. #2 SAS MH
RIM, ELEV. = 5343.47

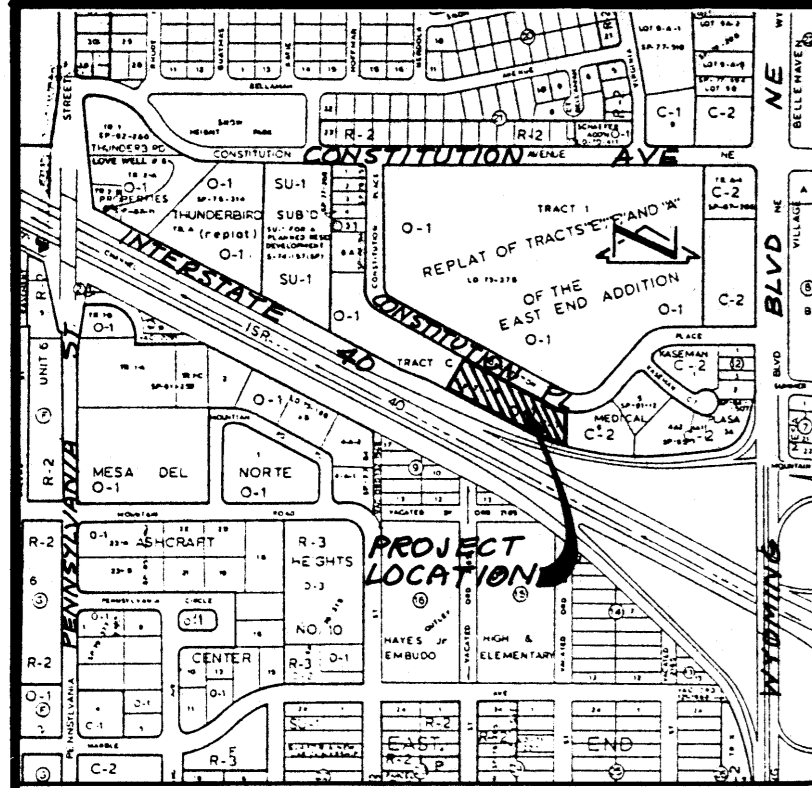


INTERSTATE 40

GRADING & DRAINAGE PLAN 8200 CONSTITUTION PLACE N.E.

DESIGNED BY JGM	NO. DATE BY	REVISIONS	JOB NO. 930341
DRAWN BY CEN	1 08/21/2003 JGM UPDATE & RESUBMIT.		DATE 04-93
APPROVED BY JGM			SHEET 1 OF 1

JMA JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS & SURVEYORS (505)345-4250



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SCALE: 1"=800' (APPROX.)

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A REPLAT OF A PORTION OF THE EAST
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CALCULATIONS

Site Characteristics

- Precipitation Zone 3
- $P_{6,100} = P_{360} = 2.60"$
- Total Area (A_T) 1.49 Acres
- Existing Land Treatment

A. Basin A

Treatment	Area (sf/ac)	%
B	11,324/0.26	20
D	44,955/1.03	80

B. Basin B

Treatment	Area (sf/ac)	%
A	8,606/0.02	100

5. Developed Land Treatment

A. Basin A

Treatment	Area (sf/ac)	%
B	10,729/0.25	22
D	38,160/0.88	78

B. Basin B

Treatment	Area (sf/ac)	%
B	1,456/0.03	09
D	14,540/0.33	91

Existing Condition

A. Basin A

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.92)(0.26) + (2.36)(1.03) = 1.79"$$
$$V_{100} = (E_w / 12) A_T$$
$$V_{100} = (1.79 / 12) 1.49 = 0.2222 \text{ ac.ft.}; 9,700 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$
$$Q_p = Q_{100} = (2.6)(0.26) + (5.02)(1.03) = 5.9 \text{ cfs}$$

B. Basin B

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.66)(0.2) + (1.49)(0.88) = 0.09"$$
$$V_{100} = (E_w / 12) A_T$$
$$V_{100} = (0.09 / 12) (1.49) = 0.0112 \text{ ac.ft.}; 500 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$
$$Q_p = Q_{100} = (1.87)(0.2) = 0.4 \text{ cfs}$$

Developed Condition

A. Basin A

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.92)(0.25) + (2.36)(0.88) / 1.49 = 1.55"$$
$$V_{100} = (E_w / 12) A_T$$
$$V_{100} = (1.55 / 12) 1.49 = 0.1925 \text{ ac.ft.}; 8400 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$
$$Q_p = Q_{100} = (2.6)(0.25) + (5.02)(0.88) = 5.1 \text{ cfs}$$

B. Basin B

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.92)(0.25) + (2.36)(0.33) / 1.49 = 0.55"$$
$$V_{100} = (E_w / 12) A_T$$
$$V_{100} = (0.55 / 12) 1.49 = 0.0683 \text{ af}; 3000 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$
$$Q_p = Q_{100} = (2.6)(0.03) + (5.02)(0.33) = 1.8 \text{ cfs}$$

3. Weir Capacity

$$Q_{weir} = CLH^{3/2} = 2.1 \text{ cfs} > Q_{100}$$

Where C = 3.0
L = 2.0
H = 0.5

Comparison

A. Basin A

- $AV_{100} = 9,700 - 8,400 = 1,300 \text{ cf (decrease)}$
- $\Delta Q_{100} = 5.91 - 5.1 = 0.8 \text{ cfs (decrease)}$

B. Basin B

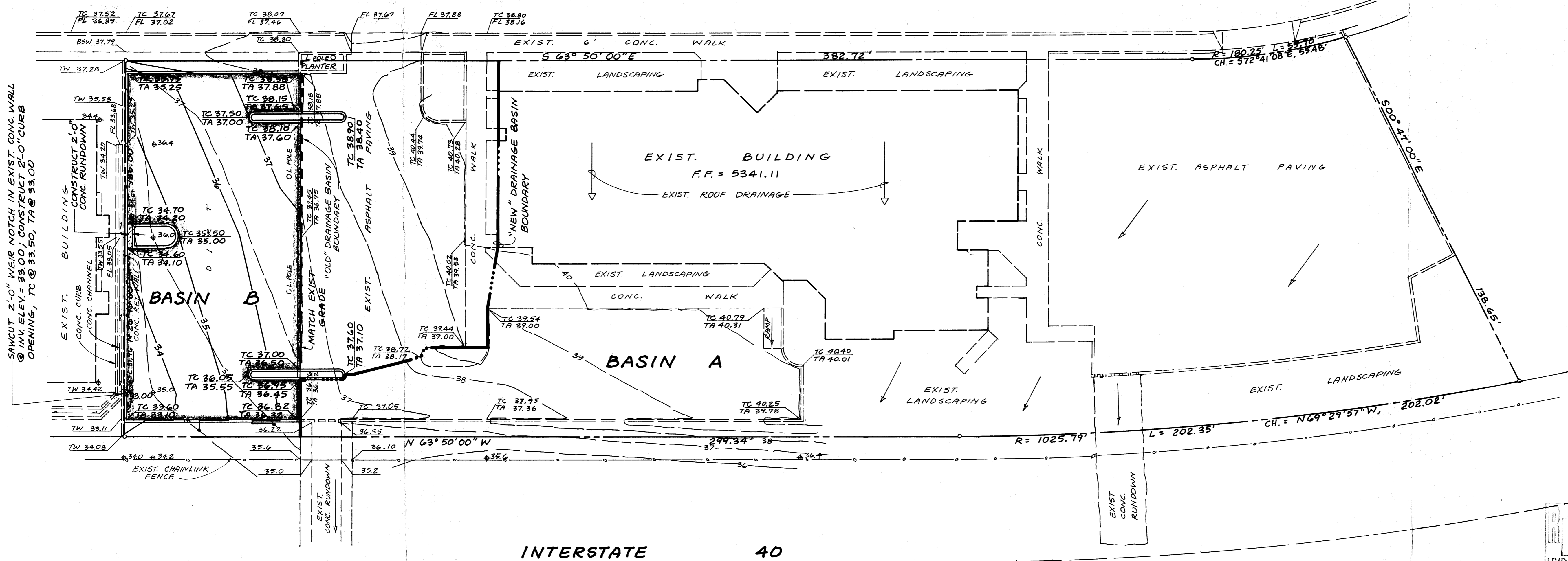
- $AV_{100} = 3,000 - 500 = 2,500 \text{ cf (increase)}$
- $\Delta Q_{100} = 1.8 - 0.4 = 1.4 \text{ cfs (increase)}$

CONSTRUCTION NOTES:

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T.B.M. #1 - F.H.
NW BONNET BOLT
ELEV. = 5346.85

T.B.M. #2 SAS MH
RIM, ELEV. = 5343.47



INTERSTATE 40

GRADING & DRAINAGE PLAN
8200 CONSTITUTION PLACE N.E.

Jma
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS & SURVEYORS (505)345-4250

DESIGNED BY	NO.	DATE	BY	REVISIONS	JOB NO.
JGM					930341
DRAWN BY					DATE
CEN					04-93
APPROVED BY					SHEET
JGM					OF
					1

