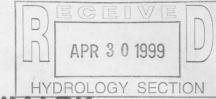


LEGAL DESCRIPTION

TRACT C-1-C-1-A, ACADEMY ACRES, UNIT 17



PROJECT BENCHMARK

A.C.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM. 12-E19" EPOXIED TO THE TOP OF THE CONCRETE CURB, AT THE WEST NORTHWEST CURB RETURN OF THE INTERSECTION OF WYOMING BLVD. N.E. AND SAN ANTONIO DR. N.E. ELEVATION = 5404.28' (M.S.L.D.)

FOUND " + " CHISELED ON TOP OF CURB @ NE CORNER ELEVATION = 5378.21' (M.S.L.D.)

LEGEND

TC FL TCO TSW TA EA TW BW W.M. P.P. W.V. F.H. C.O. SAS E T L.P. G.M. G.P. W.C. CONC.	TOP OF CURB FLOWLINE TOP OF CONCRETE TOP OF SIDEWALK TOP OF ASPHALT EDGE OF ASPHALT TOP OF WALL BOTTOM OF WALL WATER METER POWER POLE WATER VALVE FIRE HYDRANT CLEANOUT SANITARY SEWER LINE POWER LINE TELEPHONE LINE LIGHT POLE GAS METER GUARD POST WHEELCHAIR CONCRETE	
s/w	SIDEWALK SMALL TREE	
	BOULDER	
+ 72.40	EXISTING SPOT ELEVATION	
70 —	EXISTING CONTOURS	
	EXISTING FLOWLINE	
€72.50	PROPOSED SPOT ELEVATION	
70	PROPOSED CONTOUR	
	PROPOSED FLOWLINE	
	PROPOSED CONCRETE	
		/

1. Vicinity Map 2. Grading Plan 3. Calculations

Drainage Plan are contained hereon:

a landa sala

As shown by the Vicinity Map, the site is located on the south side of San Antonio Drive N.E. just west of its intersection with San Antonio Place N.E. The site lies within the Wyoming Commercial Complex. The Pino Arroyo lies to the south of the site. The Pino Arroyo is currently fully improved as a City of Albuquerque public drainage channel. The site outfalls to that existing drainage facility.

CONCEPTUAL DRAINAGE PLAN

The following items concerning the Brake Masters San Antonio

As shown by Panel 141 of 825 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated September 20, 1996, this site does not lie within a designated flood hazard zone. A flood hazard zone is identified within the Pino Arroyo. The flood maps indicate that the 100-year flood is "confined to channel". Due to the proximity of the site to the Pino Arroyo, and the status of that channel, the free discharge of runoff from this site is appropriate. Furthermore, it is consistent with the previously approved Master Drainage Plan for this site (Hydrology File NO. E19/D25C). The downstream concrete rundown was improved and upgraded as part of the Zip Lube project (E19/D25C3). The downstream improvements therefore satisfy the requirements of the previously approved

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, a Brake Masters store is proposed within Tract C-1-C-1-A, Academy Acres, Unit 17. At present, this portion of the site slopes from northeast to southwest. This trend of drainage will be maintained through the development of this site. The runoff generated by the proposed improvements will be discharged onto the existing paving which slopes in a westerly direction and eventually discharges to an existing concrete rundown referenced above. No detention ponding is required. 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, a minor increase of 330 ASADEWY ASSES, UNIT 17 cf in runoff volume and 0.1 cfs in the peak discharge rate is anticipated due to the proposed development.

3,480/0.08

3,400/0.08

15,420/0.35

53.4

46.6

15.6

15.2

69.2

		CALCULATIONS
Site	Characteristics	
1.	Precipitation Zone =	3
2.	P _{6,100} = P ₃₆₀ =	2.60
	Total Area (A _T) =	22,300 sf/0.51 ac
4.	Existing Land Treatment Treatment C D	Area (sf/ac) 11,910/0.27 10,390/0.24
5.	Developed Land Treatment	Area (sf/ac)

Existing Condition

1. Volume

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

 $E_W = [(1.29)(0.27) + (2.36)(0.24)]/0.51 = 1.79$ in

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

 $V_{100} = (1.79/12)0.51 = 0.0762 \text{ ac.ft.}/3,320.0 \text{ cf}$

2. Peak Discharge

 $Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_{\rm p} = Q_{100} = (3.45)(0.27) + (5.02)(0.24) = 2.1 \text{ cfs}$

Developed Condition

1. Volume

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ $E_W = [(0.92)(0.08) + (1.29)(0.08) + (2.36)(0.35)]/0.51 = 1.97$ in

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

 $V_{100} = (1.97/12)0.51 = 0.0837 \text{ ac.ft./3,650 cf}$

2. Peak Discharge

 $Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

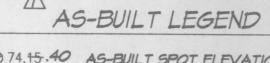
 $Q_{D} = Q_{100} = (2.60)(0.08) + (3.45)(0.08) + (5.02)(0.35) = 2.2 \text{ cfs}$

1. $\Delta V_{100} = 3,650 - 3,320 = 330 \text{ cf (increase)}$

2. $\Delta Q_{100} = 2.2 - 2.1 = 0.1$ cfs (increase)

₱ 74.45.40 AS-BUILT SPOT ELEVATION AS-BUILT SPOT ELEVATION

74.15 ✓ AS-BUILT = AS DESIGNED ELEVATION



GRADING AND DRAINAGE PLAN

BRAKE MASTERS SAN ANTONIO -WYOMING COMMERCIAL COMPLEX

contact New Mexico One Call System 260-1990 (Albuquerque Area),

1-800-321-ALERT(2537) (Statewide), for location of existing

2. Prior to construction, the contractor shall excavate and

resolved with a minimum amount of delay

and Procedures.

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

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-of-way shall be performed

5. If any utility lines, pipelines, or underground utility lines

in accordance with applicable City of Albuquerque Standards

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

utility lines. This investigation is not conclusive, and may

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

all existing utilities, pipelines, and underground utility

shall comply with state statutes, municipal and local

6. The design of planters and landscaped areas is not part of

location of these lines and facilities.

details, refer to landscaping plan.

The contractor is fully responsible for any and all damage

lines. In planning and conducting excavation, the contractor

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

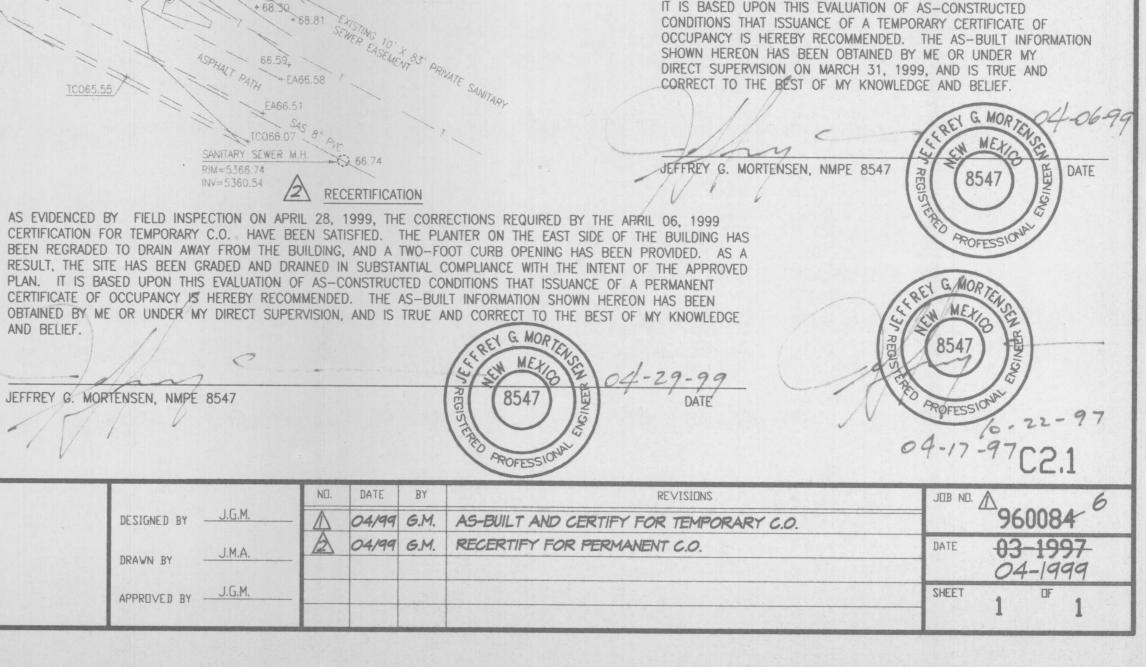
ordinances, rules and regulations, if any, pertaining to the

caused by its failure to locate, identify and preserve any and

not be complete, therefore, makes no representation pertaining

the area of the work in advance of and during excavation work.

type of existing utility lines, pipelines, or underground



E-1-6 LEYEL

AT TIKU , EERDA IMECADA

05-18-1990, 900-131

 $\Delta = 14^{\circ}49'33''$

CH. BEARING = S 82°10'38" E

W.M.78.75

TSW78.78

SPRINKLER CONTROL BOXES 78.41

1- ANTISIPHON VALVE

CH. DISTANCE = 199.48'

R = 773.06

L = 200.04

GOODYEAR

TIRE STORE

FF = 5377.50

DRAINAGE CERTIFICATION

MARKS AGAINST THE FACE OF BUILDING, AND BY THE

AS INDICATED BY THE AS-BUILT INFORMATION SHOWN HEREON, THE AS-CONSTRUCTED CONDITIONS OF THE SITE LANDSCAPING

AND SIDEWALKS DIFFER SOMEWHAT FROM THE APPROVED PLAN. DESPITE THESE DIFFERENCES, HOWEVER, THE SITE HAS BEEN

GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH THE INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN WITH

ONE EXCEPTION. THE 1'0" CURB OPENING IN THE LANDSCAPED AREA ON THE EAST SIDE OF THE BUILDING HAS NOT BEEN

PRESENCE OF A SMALL DEPRESSED AREA LOCATED AGAINST THE

BUILDING STEMWALL ON THE NORTH SIDE OF THE EXISTING STEP WHERE A PORTION OF THE STEP IS BEING UNDERMINED AND

BELOW THE ADJACENT TOP-OF-CURB. THIS GRAVEL AREA SLOPES

EXPOSED. THE PLANTER CONTAINS GRAVEL AT AN ELEVATION

TOWARD THE BUILDING STEMWALL IN SEVERAL LOCATIONS

SPECIFIES THAT "ALL PLANTERS AND LANDSCAPED AREAS

WHICH IS IN VIOLATION OF CONSTRUCTION NOTE #6 WHICH

ADJACENT TO THE BUILDING SHALL BE PROVIDED WITH POSITIVE

PRIOR TO ISSUANCE OF A PERMANENT CERTIFICATE OF OCCUPANCY,

CONSTRUCTED TO ALLOW WATER TO DRAIN OUT OF THIS PLANTER

THIS CERTIFICATION EVALUATES GRADING AND DRAINAGE ISSUES

ONLY, AND DOES NOT VERIFY COMPLIANCE WITH ADA GUIDELINES.

DRAINAGE TO AVOID PONDING ADJACENT TO THE STRUCTURE"

THIS PLANTER MUST BE REGRADED, AND THE CURB OPENING

CONSTRUCTED, THEREBY TRAPPING RUNOFF AGAINST THE STEMWAL OF THE BUILDING. THIS PONDING CONDITION IS EVIDENCED BY WATER

TSW72.02 EXISTING ZIP LUBE STORE FF=5372.05 19721 9-1-8-3 06-28-1990, 90C-148 E-1-6-1-6 LEVEL 08-11-1995, 95C-301 Construction Notes: 1. Two (2) working days prior to any excavation, contractor must

GUY ANCHOR 74.42

W.V.71.80 ℃

Erosion Control Measures: . The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property.

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.

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.

AND BELIEF.

PROPOSED ASPHALT

ROOF DRAINAGE