DRAINAGE PLAN WHALE OF A WASH WYOMING

LOCATION AND EXISTING CONDITION:

The site is located approximately 300 feet north of the intersection of Wyoming Boulevard and Menaul Boulevard N.E. containing approximately 0.5901 acres. The site is 100 percent developed and slopes from the east to the west with an average slope of 2.9 percent. Storm runoff from the site currently flows across the west property line, through the west property, and is then collected onto Wisconsin Street. From Wisconsin Street, runoff is intercepted by a storm sewer system along an alley south of the site. (System 329-Albuquerque Master Drainage Study, AMDS). The site does not contribute to a 100 year flood zone.

A small amount of off-site runoff enters the site from the property to the north (Hoffmantown Baptist Church).

PROPOSED CONDITION:

Proposed development of the site includes a small building with 7 car wash bays, associated parking, and landscaping. Runoff will be decreased and continue to flow to the west property. Runoff will be controlled through 2-6 inch PVC drain pipes located at the low elevation on the site.

Off-site runoff will be routed around the development and continue onto the existing drainage pattern to the west

CALCULATIONS:

Area = 0.5901 acres I = 2.2 in./hr. Plate 22.2 D-2 6-hour, 100-year rainfall = 2.35 in. Plate 22.2 D-1 i = (2.2)(2.35) = 5.17 in./hr.

EXISTING ON-SITE CONDITIONS:

				COMPO			
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	"C"=C			
Streets, Drives, Walks	0.95	0.53	0.50				
Roofs	0.90	0.06	0.05				
Lawns & Landscaping	0.25	-0-	-0-				
Undeveloped	0.40	-0-	-0-				
TOTAL		0.59	0.55	0.93			
Q(100) = (0.93)(5.17)(0.59) = 2.84 cfs Q(10) = (0.657)(2.84) = 1.86 cfs							
CN = 98 Plate 22.2 C-	2						
Direct Runoff = 2.2 in. Plate 22.2 C-4							
V(100) = (2.2)(0.59)(43560)/12 = 4712 cu. ft.							
V(10) = (0.657)(4712) =	3096 cu. ft						

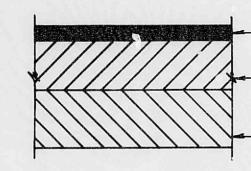
PROPOSED ON-SITE CONDITIONS:

					COMPOSIT			
	SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	"C"=CXA/			
	Streets, Drives, Walks	0.95	0.46	0.44				
	Roofs	0.90	0.08	0.07				
	Lawns & Landscaping	0.25	0.05	0.01				
	Undeveloped	0.40	-0-	-0-				
	TOTAL		0.59	0.52	0.88			
	Q(100) = (0.88)(5.17)(0.	59) = 2.68	cfs					
	Q(10) = (0.657)(2.68) = 1.76 cfs							
	CN = 95 Plate 22.2 C-3							
Direct Runoff = 1.85 in. Plate 22.2 C-4								
	V(100) = (1.85)(0.59)(43560)/12 = 3962 cu. ft.							
	V(10) = (0.657)(3962) =	2603 cu. ft						

CAPACITY OF 2-6" PVC DRAIN LINES:

THE 6" CURB WILL ACT AS THE SPILLWAY.

Q = 2(0.463d S /n) (MANNINGS FORMULA FOR PIPES) s = 0.01n = 0.011THEREFORE, RUNOFF CONTROLLED BY PIPE DESIGN IS 1.35 CFS.



-2" Asphaltic Concrete,

- 6" Select Aggregate Base Course Compacted to 95% of ASTM D-1557

3 Subgrade to be Scarified and Compacted to 95% of ASTM D-1557, within 2% of its Optimum Moisture Content As per owner direction.

ASPHALT PAVING SECTION

Additional specifications for asphaltic concrete and aggregate base course to be taken from the "New Mexico Standard Specifications for Public Works Construction", 1979 Edition, Sections 115 and 302 respectively.

LEGAL DESCRIPTION: LOTS 17,18, &19, BLOCK 8 OF THE AMENDED PLAT OF SOMBRE DEL MONTE SUBDIVISION.

ACS BENCH MARK: 3-G20-A, ELEV.=5403.89'
THE STATION IS LOCATED JUST WEST OF THE INTERSECTION OF WYOMING BOULEVARD AND CANDELARIA ROAD IN THE MEDIAN STRIP ON CANDELARIA ROAD. THE STATION MARK IS A STANDARD ACS BRASS TABLET, STAMPED "3-G20-A" SET IN TOP OF THE CONCRETE CURB OF THE LEFT TURN BAY, FLUSH WITH THE TOP OF CURB.

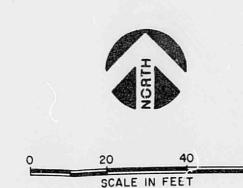
TEMPORARY (PROJECT) BENCH MARK: A CROSS IN THE CURB AT THE NORTHEAST CORNER OF THE SITE, 6.00 FEET EAST OF THE PROPERTY CORNER. ELEV.=5390.82 (TOP OF CURB)

SURVEY INFORMATION:
SURVEY INFORMATION WAS TAKEN FROM THE CERTIFICATE OF SURVEY BY CARL R. HAR-RINGTON, INC., AUGUST, 1987, REVISED SEPTEMBER 22, 1987.

NOTICE TO CONTRACTOR:

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CON-STRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986" (COA STND).
- 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 3. PRIOR TO CONSTRUCTION, THE CON-TRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCA-A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SUR-VEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF
- 4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE CONSTRUCTING THEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE
- THE EXCAVATED MATERIAL IS NOT SUS-CEPTIBLE TO BEING WASHED DOWN THE
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLIC-ABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

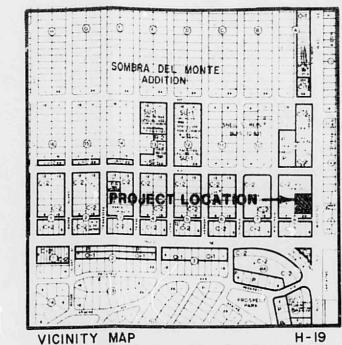
CONCRETE PAVING SECTION



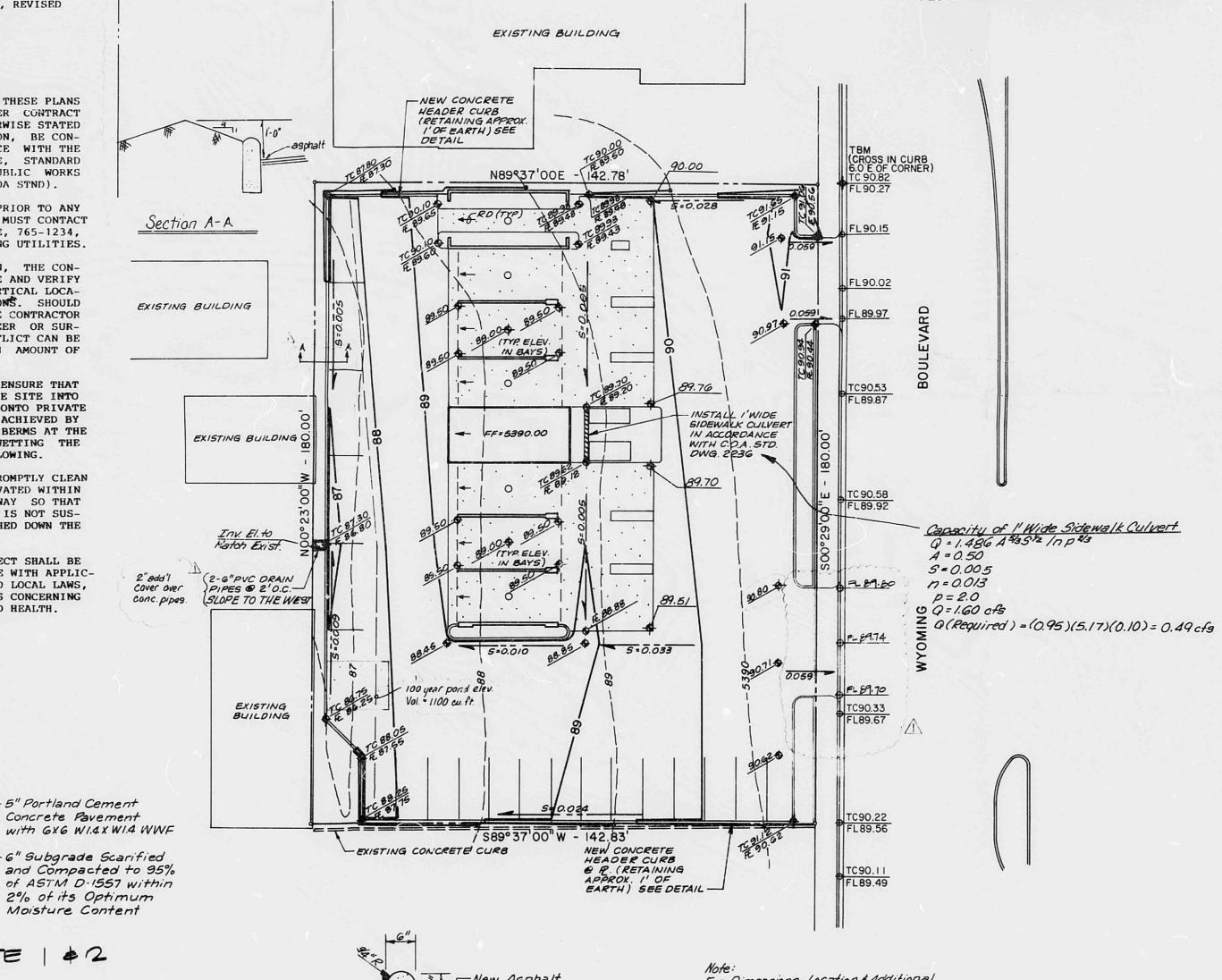
LEGEND -87- EXISTING CONTOUR

♠ EXISTING SPOT ELEVATION 87- NEW CONTOUR

NEW SPOT ELEVATION



FLOOD HAZARD BOUNDARY PANEL NO. 24



-2-#4 Rebars

CONCRETE HEADER CURB

GRADING & DRAINAGE PLAN - WYOMING SITE

For Dimensions, Location & Additional Information See Architectural Site Plan.



NOV 1 6 1987 HYDROLOGY SECTION REVISIONS: 0 40V 1987 CONSTRUCTION SET

BY:JM CK:VC PROI: 554 DATE: 14 OUT 87

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