

#### Engineer's Certification:

As indicated by the "As-Built" information shown hereon, the project has been constructed in "substantial" compliance with the approved Grading and Drainage Plan for said project; slight deviations have been noted in grades and associated improvements, (constructed finish floor elevation is 1.0' lower than designed elevation and relative grades have been adjusted accordingly). It is based upon the information shown hereon (existing grades are shown thus "(9/82)" that recommendation is made for the issuance of a Certificate of Occupancy.

\* NOTE: ORIGINAL AND DESIGN CONTOURS ARE SHOWN CROSSED OUT.

Note: Architect to provide roof drain design to discharge flows into asphalt paved area(s).

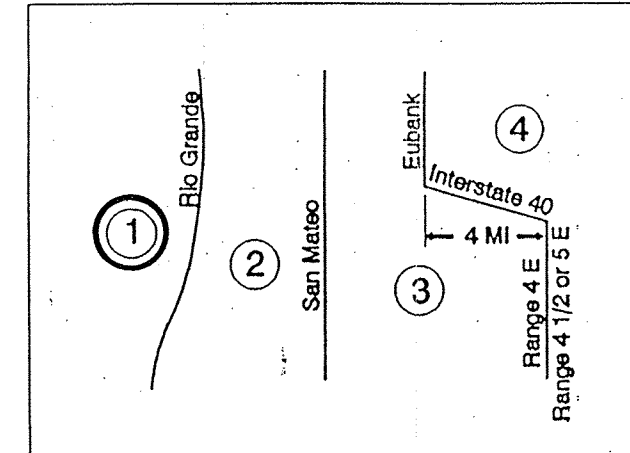


#### A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TABLE A-1. PRECIPITATION ZONES	
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1



Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.

DPM SECTION 22.2 - HYDROLOGY  
January, 1993 Page A-4

TABLE A-4. LAND TREATMENTS	
Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Ungrazed parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

#### GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING 9111 EAGLE RANCH RD. NW (LOT G, BLOCK D RANCHO SERENO UNIT 3) BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO

#### EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.72 ACRES OF WHICH IS A PORTION OF A 3.56 ACRE PARCEL. IT IS LOCATED AT THE SOUTHWEST QUADANT OF THE INTERSECTION OF PASEO DEL NORTE NW AND EAGLE RANCH RD. NW, A LARGE PORTION OF THE WESTERLY HALF OF THE PARCEL HAS ALREADY BEEN DEVELOPED WITH A 15,000 SQ. FT. BUILDING ALONG WITH PAVED ASPHALT PARKING AND LANDSCAPED AREAS. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0116D, DATED SEPTEMBER 29, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

#### PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A 5997 SQ. FT. BUILDING WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. THE SITE DRAINAGE WILL BE ROUTED TO A SIDE WALK CULVERT WHICH WILL BE LOCATED AT THE AT THE SOUTHEAST CORNER OF THE SITE. FROM THAT POINT THE RUN-OFF WILL TRAVEL TO THE SOUTH ALONG EAGLE RANCH RD. NW WHERE IT WILL ENTER EXISTING INLETS ON THE STREET AND BE ROUTED TO THE PIEDRAS MARCADAS DAM. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT, THE PROCEDURE FOR 40+ ACRES AND SMALLER BASINS AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997 HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

#### DOWNSTREAM CAPACITY

A BATTERY OF SINGLE "A" AND SINGLE "C" DROP INLETS ARE LOCATED ALL ALONG EAGLE RANCH RD. NW WHICH THEN EMPTY INTO THE PIEDRAS MARCADAS DAM.

QUANZ AUTO ZONE 1  
PRECIPITATION: 30 = 2.20 in.  
140 = 2.66 in.  
140 = 3.67 in.

EXCESS PRECIPITATION: PEAK DISCHARGE:  
TREATMENT A 0.4 in. 1.29 cfs/ac.  
TREATMENT B 0.3 in. 2.03 cfs/ac.  
TREATMENT C 0.3 in. 2.87 cfs/ac.  
TREATMENT D 0.3 in. 4.37 cfs/ac.

EXISTING CONDITIONS: PROPOSED CONDITIONS:  
TREATMENT A 0.3 ac. 0 ac.  
TREATMENT B 0 ac. 0 ac.  
TREATMENT C 0.72 ac. 0.153 ac.  
TREATMENT D 0 ac. 0.567 ac.

#### EXISTING EXCESS PRECIPITATION:

Weighted E =  $(0.3 \times 0.00) + (0.67 \times 0.00) + (0.99 \times 0.72) + (1.97 \times 0.00) = 0.72$   
V100-360 =  $(0.3 \times 0.72) \times 12 = 0.059400 \text{ ac-ft} = 2587 \text{ cf}$

#### EXISTING PEAK DISCHARGE:

Q100 =  $(0.3 \times 0.00) + (0.67 \times 0.00) + (2.03 \times 0.00) + (2.87 \times 0.72) + (4.37 \times 0.00) = 2.07$

#### PROPOSED EXCESS PRECIPITATION:

Weighted E =  $(0.3 \times 0.00) + (0.7 \times 0.00) + (0.99 \times 0.15) + (1.97 \times 0.57) = 1.76$   
V100-360 =  $(0.76 \times 0.72) \times 12.0 = 0.105705 \text{ ac-ft} = 4605 \text{ cf}$

V100-1440 =  $(1.1 \times 0.57) \times 2.66 \times 2.20 \times 12 = 0.127440 \text{ ac-ft} = 5551 \text{ cf}$

V100-10day =  $(1.1 \times 0.57) \times 3.67 \times 2.20 \times 12 = 0.175163 \text{ ac-ft} = 7630 \text{ cf}$

#### PROPOSED PEAK DISCHARGE:

Q100 =  $(0.3 \times 0.00) + (2.03 \times 0.00) + (2.87 \times 0.15) + (4.37 \times 0.57) = 2.92$

\* INCREASE 2.92 CFS - 2.07 CFS = 0.85 CFS

#### STORM INLET SECTION

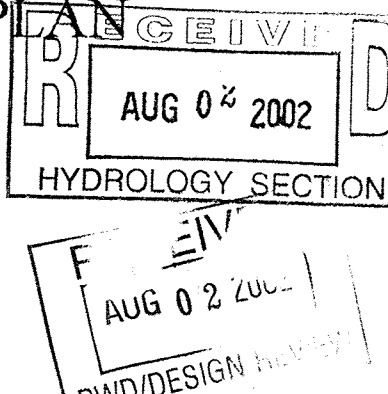
N.T.S.



#### A PROPOSED GRADING AND DRAINAGE PLAN

FOR  
QUANZ CAR CARE FACILITY  
(EAGLE RANCH ROAD N.W.)  
ALBUQUERQUE, NEW MEXICO  
AUGUST, 2001

CERTIFICATE: JULY-2002



#### GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

#### EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

#### CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OR SUB-SURFACE UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4.) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

#### LEGEND:

TOP OF CURB ELEVATION = 70' = 84.45  
CURB FLOWLINE ELEVATION = 72' = 83.83  
EXISTING SPOT ELEVATION = 87.5  
EXISTING CONTOUR ELEVATION = 88.0  
PROPOSED SPOT ELEVATION = 90.25  
PROPOSED CONTOUR ELEVATION = 88.00  
PROPOSED OR EXISTING CONCRETE SURFACE = 88.00  
EXISTING FENCE LINE = 11/1A

#### LEGAL DESCRIPTION:

PORTION OF LOT "12-A", BLOCK "D", ALBUQUERQUE WEST SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.  
TRACT "G", RANCHO SERENO SUBDIVISION, UNIT III, (FILED OCT. 4, 1995)  
BENCH MARK REFERENCE:

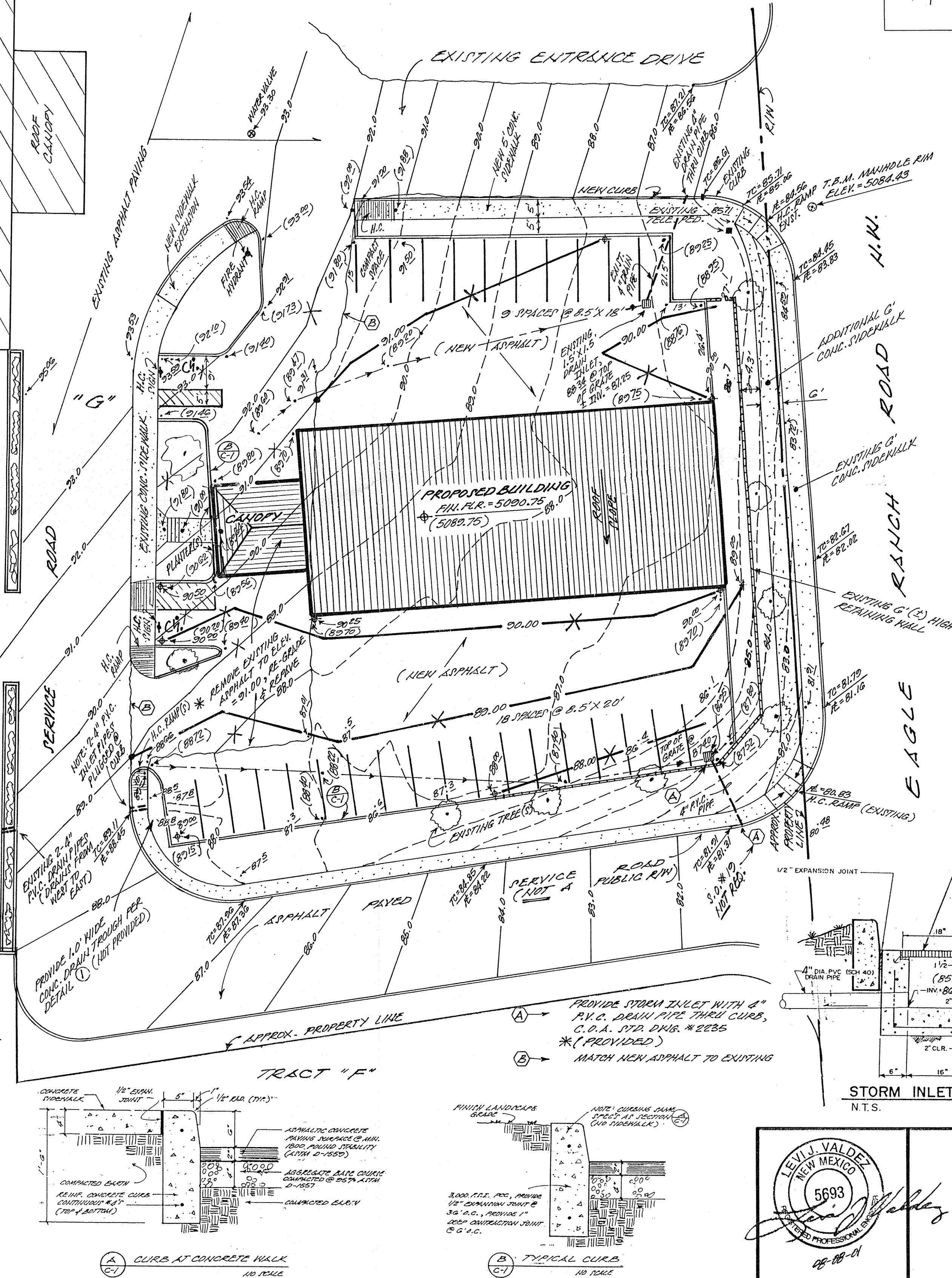
ACS STATION "ALAMEDA B NO. 2, ALBUQUERQUE DISTRICT, 1950", LOCATED 0.40 MILE SW OF THE INTERSECTION OF PARADISE BLVD. N.W. AND CORDAS ROAD N.W.; ELEVATION = 5058.25, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

#### NOTICE TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (765-1234) FOR LOCATION OF EXISTING UTILITIES.
- 4.) 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 OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5.) BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- 6.) MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

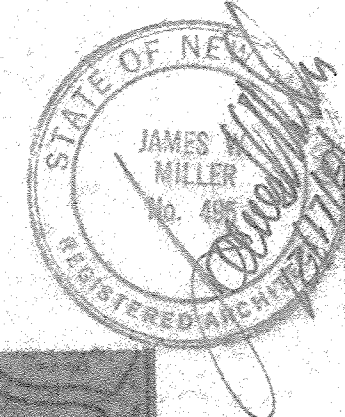
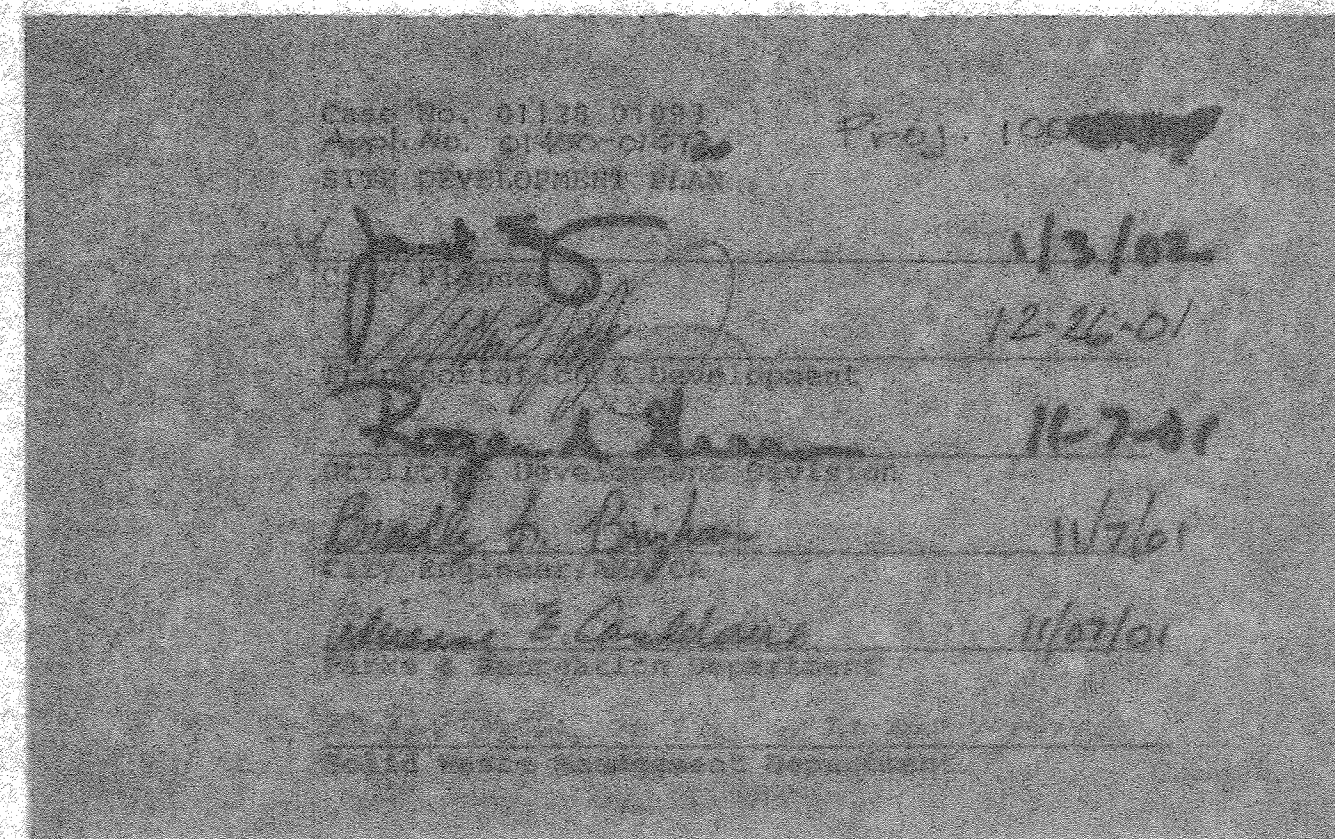
NOTE: ALL WORK WITHIN PUBLIC EASEMENT SHALL BE PERFORMED UNDER SEPARATE PERMIT.

APPROVAL(S)	NAME	DATE
HYDROLOGY DEPT.		

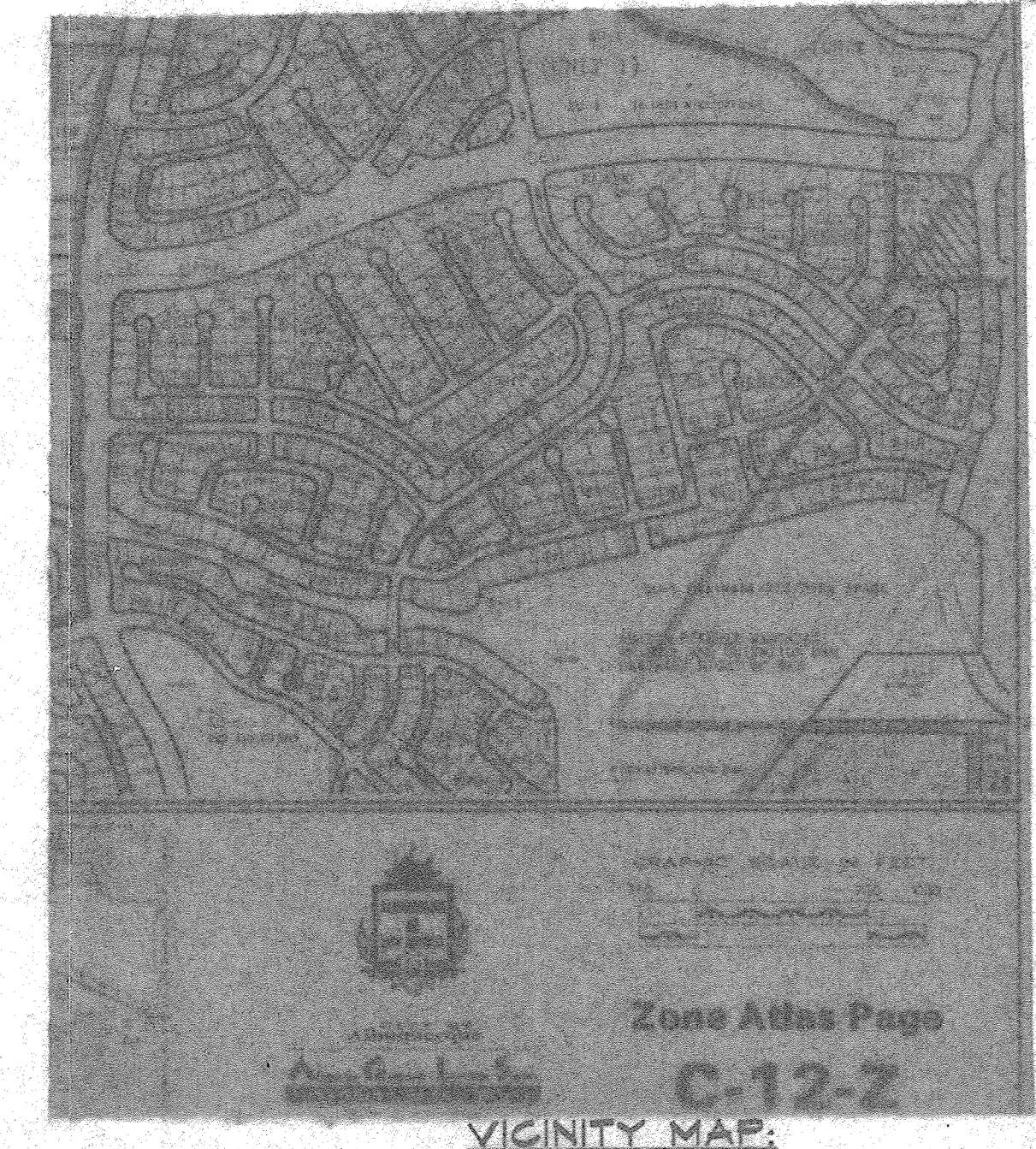




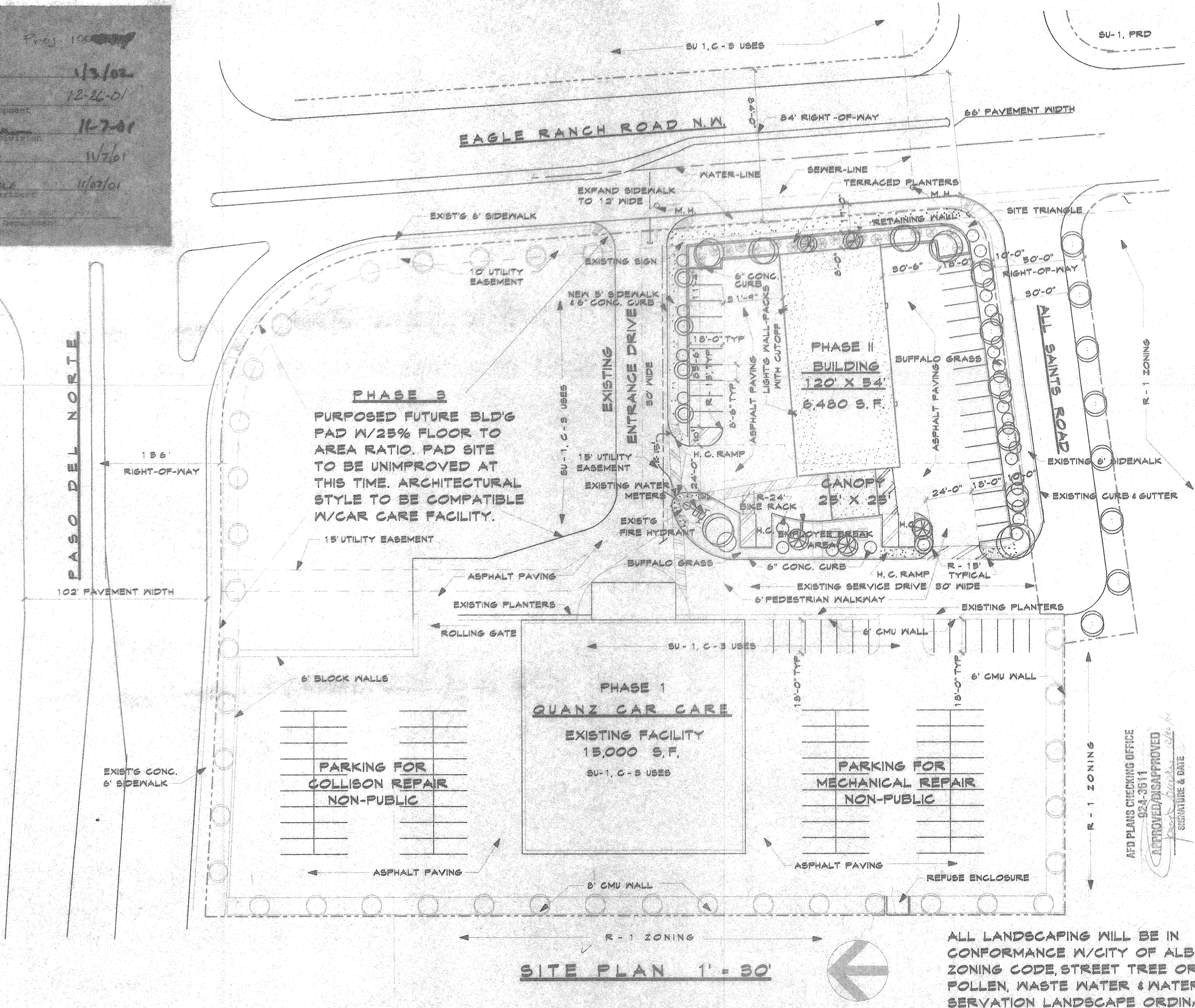
# SERVICE FACILITIES FOR QUANZ CAR CARE



JOB NO. 0138  
DATE Dec '01  
REVISION  
DRAWN BY JWM  
CHECKED BY



SITE PLAN & MISC  
DETAILS & NOTES



**PARKING**  
OFFICE - 1,000 / 200 = 5 SPACES  
SERVICE - 5,000 / 200 = 25 SPACES  
**REQUIRED SPACES = 30 SPACES**  
**PROVIDED SPACES = 30 SPACES**  
**IN CLUDING 2 H.C. SPACES**

**LANDSCAPE DATA:**  
LAND AREA - PHASE II = 32,400 S.F.  
REQUIRED AREA = 15% X 32,400 = 4,860 S.F.  
PROVIDED = 770 + 1,650 + 3,300 + 2,040 S.F. = 7,760 S.F.

**LANDSCAPING:**

- MODESTO ASH - 2" CALIPHER FRAXINUS VELUTINA
- PURPLE LEAF PLUM - 2" CALIPHER PRUNUS CERASTIFERA
- AUSTRIAN PINE- 2" CALIPHER PINUS NIGRA
- SHRUBS, A MIXTURE OF THE FOLLOWING: CHAMISA, RUSSIAN SAGE, FOUR KING, SALTBUSH, APACHE PLUME & THREE LEAF SUMAC
- CHRYSOTHAMNUS NAUSEOSUS
- PLANTING BEDS
- GROUND COVER - 3/4" GRAVEL SANTA FE TAN GRASS - BUFFLO GRASS WHERE SHOWN
- IRRIGATION BY DRIP IRRIGATION SYSTEM AND LAWN SPRINKLER SYSTEM
- MAINTENANCE BY OWNER

**LEGAL DESCRIPTION:**  
LOT 6, BLOCK 'D',  
RANCH SERENO UNIT #3

ALL LANDSCAPING WILL BE IN CONFORMANCE W/CITY OF ALBUR. ZONING CODE, STREET TREE ORD, POLLEN, WASTE WATER & WATER CONSERVATION LANDSCAPE ORDINANCES

SERVICE FACILITIES  
FOR  
QUANZ CAR CARE