

## GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING LOT 40 ALAMEDA BUSINESS PARK (8504 CALLE ALAMEDA N.E.) ARE CONTAINED HEREON:

#### EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.5197 ACRES MORE OR LESS AND IS LOCATED NORTH OF THE INTERSECTION OF VISTA ALANEDA N.E. AND CALLE ALAMEDA N.E. ON THE EAST SIDE OF CALLE ALAMEDA N.E., ACCORDING TO THE FLOOD INSURANCE RATE MAPS, PANEL 0136F, REVISED NOVEMBER 19, 2003; THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

#### PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN. THE PROJECT WILL CONSIST OF A 3300 SQ. FT. OFFICE/WAREHOUSE BUILDING ALONG WITH ASSCICIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BOHANNAN & HUSTON IN FEBRUARY OF 1999 AND APPROVED BY THE CITY HYDROLOGY SECTION. ON-SITE RUN--OFF WILL BE ROUTED THROUGH AND OUT THE PROPOSED DRIVEPAI LOCATED ON CALLE ALAMEDA N.E. AND INTO THE EXISTING ASPHALT SWALE LOCATED JUST NORTH OF THE PROPOSED BUILDING ALONG THE NORTH PROPERTY LINE. FROM THAT POINT THE RUN-OFF WILL TRAVEL NORTH ALONG CALLE ALAMEDA AND INTO PASEO ALAMEDA AND INTO THE COMMON PONDING AREA (TRACT A) PROVIDED BY THE MASTER PLAN, NO OFF-SITE FLOWS ENTER THE SITE FROM ANY DIRECTION, 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

PROJECT AREA = 0.5197 ac. OFFICE/WAREHOUSE FRO RAY CRAVEY PRECIPITATION: 360 = 2.35 in. 1440 = 2.75 in.

	10day = 3.95 in.	
	EXCESS PRECIPITATION:	PEAK DISCHAR
REATMENT A	0.53 in.	1.56 cfs/ac.
REATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac

PROPOSED CONDITIONS: **EXISTING CONDITIONS:** TREATMENT A 0 ac. 0 ac. TREATMENT B 0 ac. 0.0528 ac. 0.0594 ac. TREATMENT C 0.49776 ac. TREATMENT D 0.02194 ac. 0.4075 ac.

### EXISTING EXCESS PRECIPITATION:

Weighted E = (0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.50)+(2.12)x(0.02)/0.52 ac. V100-360 = (1.17)x(0.52)/12 = 0.050748 ac-ft = 2211 CF

### EXISTING PEAK DISCHARGE:

Q100 = (1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.50)+(4.70)x(0.02)=1.67 CFS PROPOSED EXCESS PRECIPITATION:

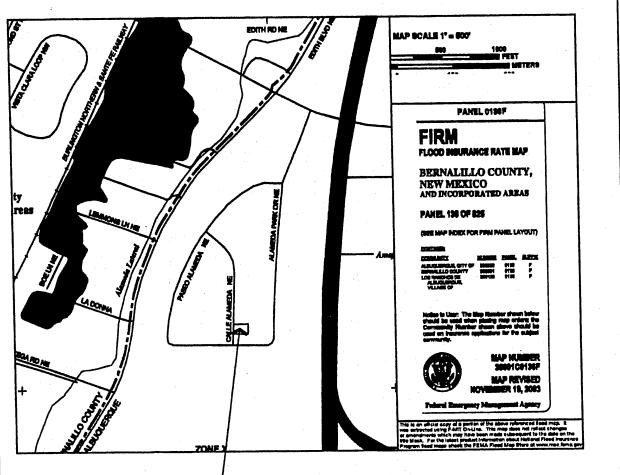
Weighted E = (0.53)x(0.00)+(0.78)x(0.05)+(1.13)x(0.06)+(2.12)x(0.41)/0.52 ac. V100-360 = (1.87)x(0.52)/12.0 = 0.081017 ac-ft = 3529 CF

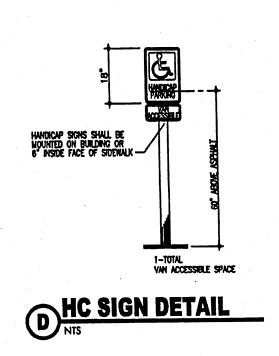
 $V100-1440 = (0.08) + (0.41) \times (2.75 - 2.35) / 12 = 0.094601$  ac-ft = 4121 CF

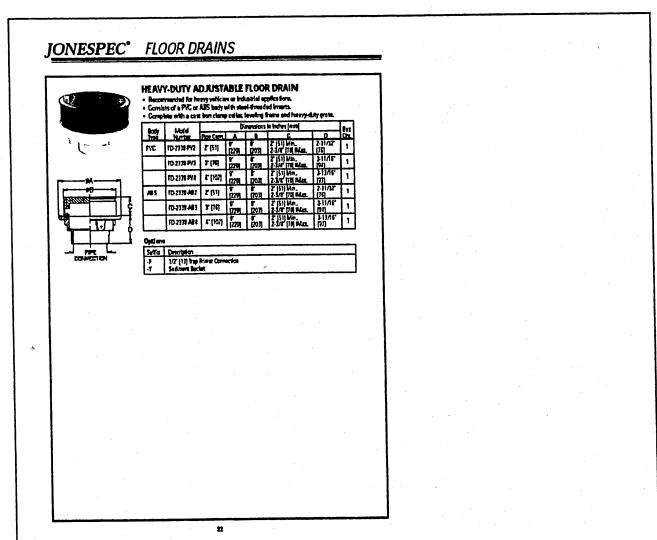
V100-10day = (0.08)+(0.41)x(3.95-2.35)/12 = 0.135351 ac-ft = 5896 CF PROPOSED PEAK DISCHARGE:

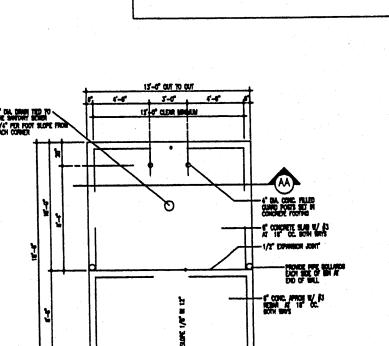
Q100 = (1.56)x(0.00) + (2.28)x(0.05) + (3.14)x(0.06) + (4.70)x(0.41) = 2.23 CFS cfs

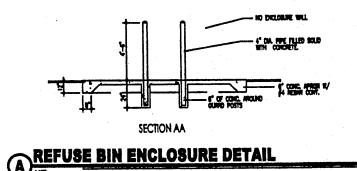
INCREASE 2.23 CFS - 1.67 CFS = 0.56 CFS

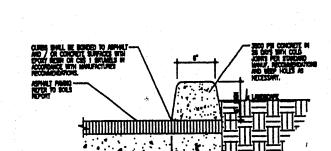












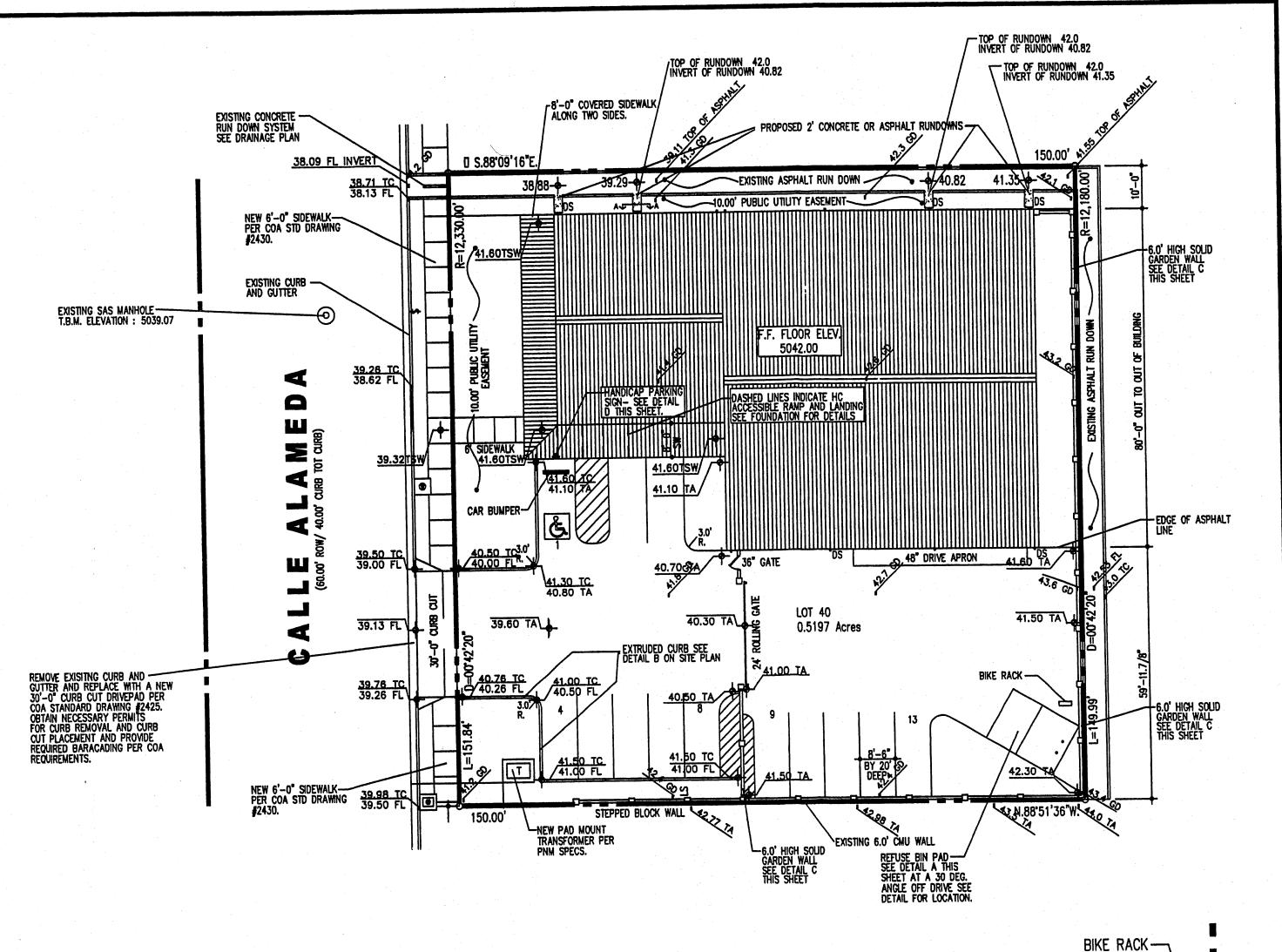


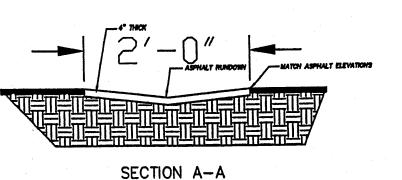
# NOTE TO CONTRACTOR:

- An excavation/construction permit will be required before beginning any work within the City right—of—way. Approved copy of this plan must be submitted at the time of application for permit.
- 2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with the 1986 edition of the City of Albuquerque Standard Specification for Public Works Construction through Update 7, Amendment 1.
- 3. Two working days prior to any excavation, contractor must contact line locating Services (260—1990) for locating existing sub—surface utilities.
- 4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all potential constructions; Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay to the subject project.
- Backfill compaction shall be according to commercial use or soils report(s) recommendations.
- 6. 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.
- 7. Maintenance of this facilities shall be the responsibility of the owner of the property it serves

## EROSION CONTROL MEASURES

- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE
- A) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTY
- B) ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- 2. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.





LEGAL DESCRIPTION

LOT 40 ALAMEDA BUSINESS PARK BERNALILLO COUNTY, ALBUQUERQUE NEW MEXICO.

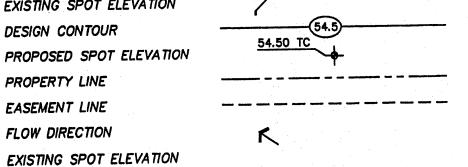
# BENCHMARK:

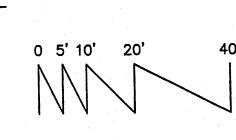
ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION "NDC 1-71A" HAVING AN ELEVATION OF \_\_\_\_\_\_5053.10

T.B.M. TOP OF MANHOLE LOCATED JUST WEST OF THE SITE ON CALLE ALAMEDA ELEVATION: 5039.07 AS SHOWN ON PLAN DRAWING

### SYMBOL LEGEND EXISTING CONTOUR

EXISTING SPOT ELEVATION DESIGN CONTOUR 54.50 TC PROPOSED SPOT ELEVATION PROPERTY LINE





GRADING & DRAINAGE PLAN

Scale |"=20'-0"

GARDEN WALL DETAIL

N.88'51'36"W

REFUSE BIN PAD

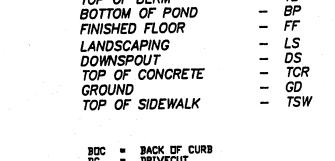


JANUARY 2007 revisions 2-26-2007

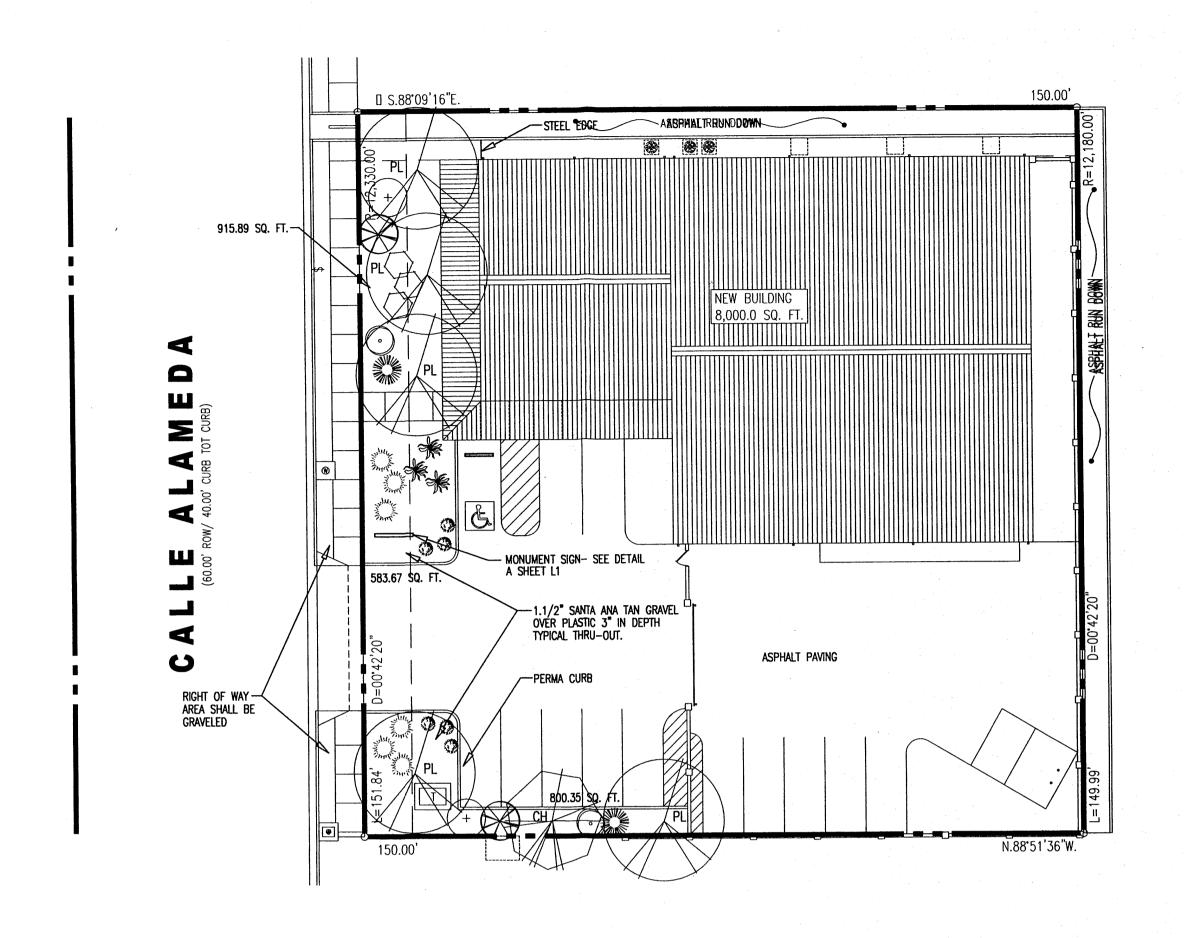
BUILDING EDA N.E. V MEXICO <del>9</del> <del>C</del>

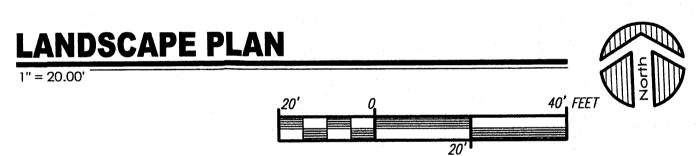
EASEMENT LINE FLOW DIRECTION

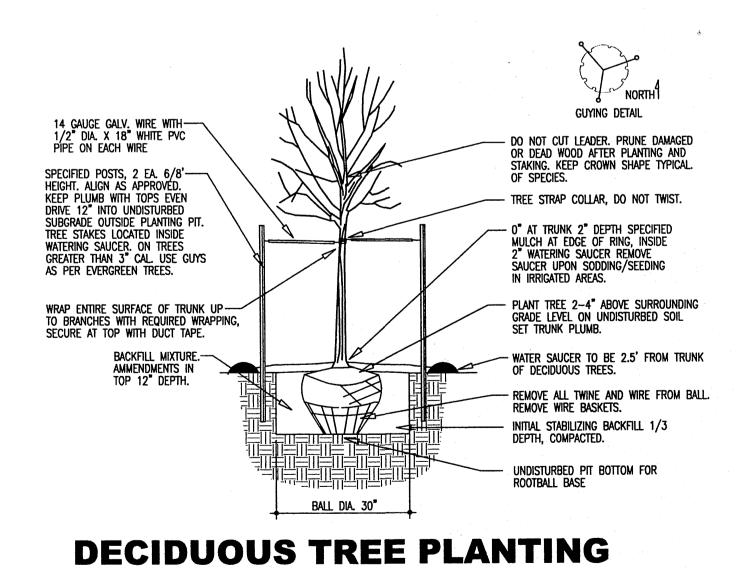
ABBREVIATION LEGEND TOP OF CONC PAD TOP OF CURB TOP OF ASPHALT TOP OF BERM - DS — TCR - GD



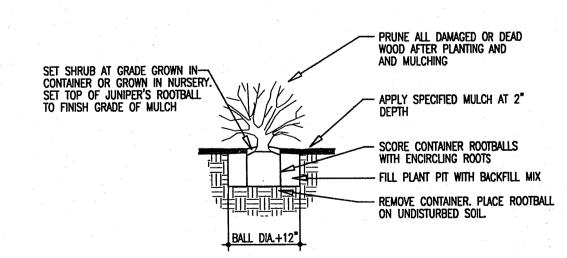
DOWN SPOUT







NOT TO SCALE



## **SHRUB PLANTING**

NOT TO SCALE

## PLANT LEGEND

SYMBOL QTY. PL 5		BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	
		PLATANUS	SYCAMORE	2" CAL	Н	
СН	1	CHILOPSIS	DESERT WILLOW	15 GAL	L	
+	2	ELAEAGNUS PUNGENS	SILVERBERRY	1 GAL	М	
Sal Market	6	JUNIPERUS SABINA	BUFFALO JUNIPER		M	
	3	VAUQUELINIA	ROSEWOOD		L	
	2	BUDDLEIA DAVIDII	BUTTERFLY BUSH		М	
	3	HESPERALOE PARVIFLORA	RED YUCCA		M	
	2	ROSMARINUS OFFICINALIS	ROSEMARY		М	
	2	MISCANTHUS SINENSIS	MAIDEN GRASS		М	
27 M	6	LAVANDULA	LAVENDER	1 GAL	M	

## NOTES:

TREES TO BE STAKED- SEE DETAIL.

LAWN AND SHRUBS TO BE WATERED BY AUTOMATIC IRRIGATION SYSTEM WITH THE TIME CLOCKS PROVIDED IN THE ELECTRICAL ROOM.

INSTALL 4" BARK MULCH IN A 30" RADIUS AROUND TREES IN LAWN AND ALL LANDSCAPE AREAS. CUT 2 RADIUS HOLE IN PLASTIC AT EACH TREE.

ALL LANDSCAPE AREAS SHALL HAVE 1.1/2" GRAVEL AND PLASTIC— SANTA ANA TAN COLOR

MAINTENANCE OF LANDSCAPE PROVIDED BY OWNER

WATER MANAGEMENT IS THE SOLE RESPONSIBILITY OR THE PROPERTY OWNER.

THIS PLAN IS TO COMPLY WITH C.O.A. LANDSCAPE AND THE WATER WASTE ORDINANCE PLANTING RESTRICTIONS APPROACH

IT IS THE INTENT OF THIS PLAN TO PROVIDE MIN. 75% LIVE GROUNDCOVER OF LANDSCAPE AREAS AT MATURITY.

OR EXEMPTION FROM, THE C.O.A. LANDSCAPE AND WATER WASTE ORDINANCE.

TREES ARE NOT TO BE PLACED IN PUBLIC UTILITY EASEMENTS

NO PARKING SPACE SHALL BE MORE THEN 50' FROM A TREE.

PLANTING RESTRICTIONS APPROACH

A MINIMUM OF 80% OF THE PLANTINGS TO BE LOW OR MEDIUM WATER USE PLANTS.

A MAXIMUM OF 20% OF THE LANDSCAPE AREA TO BE HIGH WATER USE TURF.

## SITE DATA:

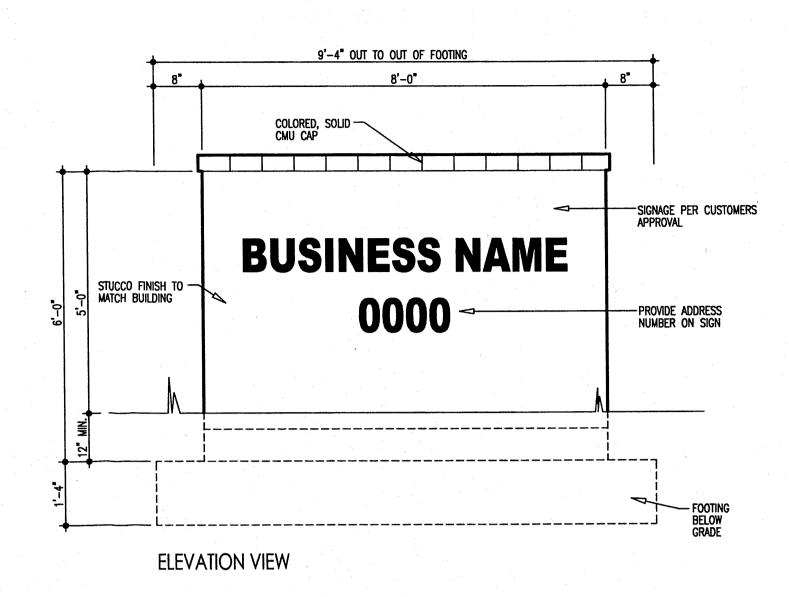
LANDSCAPE REQUIREMENTS:			
LOT SIZE:		22,638.13 SQ. FT.	0.52 ACRES
MINUS BUILDING SQUARE FOOTAGE:		8,000.00 SQ. FT.	
NET LOT:		14,638.13 SQ. FT.	
AREA TO BE LANDSCAPED IN RIGHT-OF-WAY:	(MINUS)	0	
	(TOTAL)	14,638.13 SQ. FT.	
		x 15%	
LANDSCAPE REQUIRED:		2,195.72 SQ. FT.	
LANDSCAPE PROVIDED ON LOT:		2,299.91 SQ. FT.	
AREA PROVIDED IN RIGHT-OF-WAY:		0	
TOTAL LANDSCAPE PROVIDED:		2,299.91 SQ. FT.	

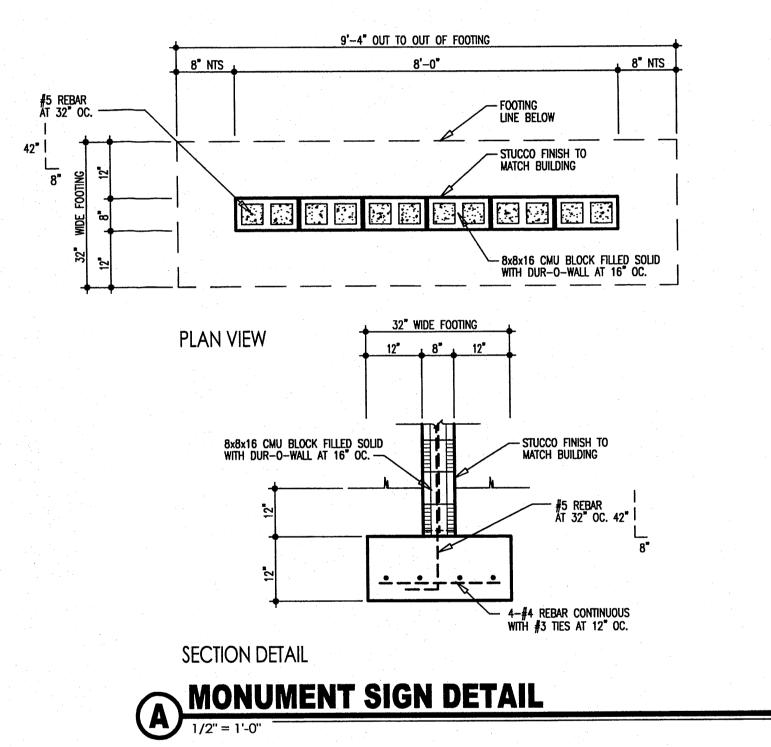
TOTAL LANDSCAPE PROVIDED:

REQUIRED TREES

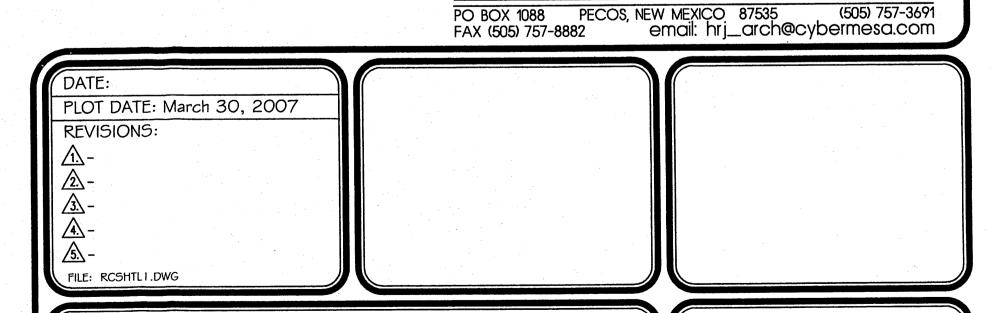
1 TREE PER 500 SF REQUIRED LANDSCAPE AREA:

CALC. = 2,195.72 SF/500 SF= 5 TREES REQUIRED MIN.









PROPOSED FACILITY
FOR

Ray Cravey
8504 CALLE ALAMEDA N.W.

ALBUQUERQUE, NM 87113

DETAILS
SHEET NO.

JOB NO. : 06-101 OF

LANDSCAPE PLAN, AND

