

ENGINEER WITH EXPERTISE IN LANDFILLS AND LANDFILL GAS ISSUES (AS REQUIRED BY THE MOST

CURRENT VERSION OF THE "INTERIM GUIDELINES FOR DEVELOPMENT WITHIN 1000 FEET OF

LANDFILLS") SHALL BE CONSULTED PRIOR TO DEVELOPMENT OF THE SITE.

3,596/200 + (1,147 + 2,672)/2000 = 20 SPACES

20 SPACES INCLUDING 2 HC SPACES

PROVIDED OFF-STREET PARKING:

0309 DATE: 16 AUGUST 2005

N

SD.

AFD PLANS CHECKING OFFICE

924-3611

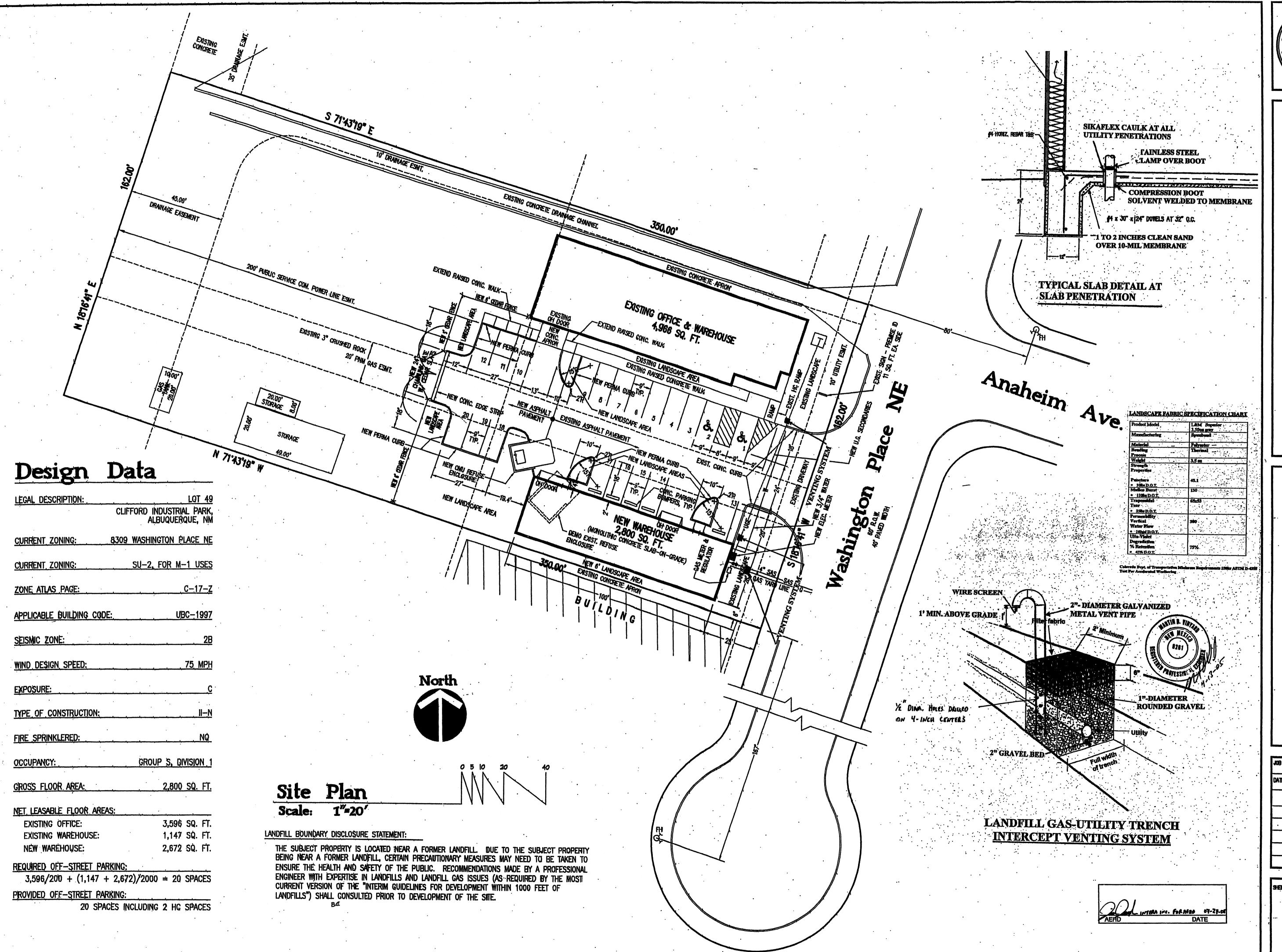
APPROVED/DISAPPROVED

HYDRANT (S) ONLY

SIGNATURE & DATE

7616pm IIB

2800 Saft





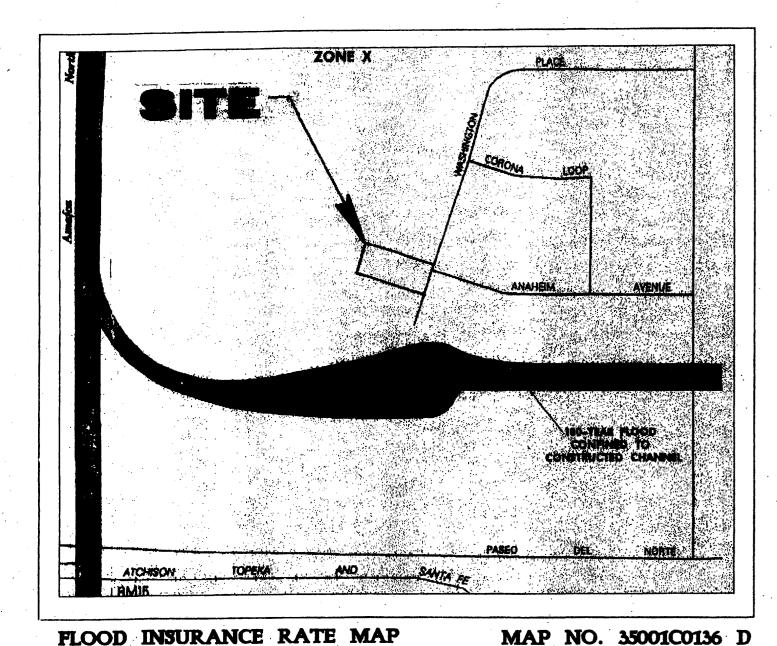
Warehouse for Commercial Enterprises

FOI HOVEY, ARCHITCCI 505) 259-8458 * 3808 SIMMS AVENUE SE * ALBUQUERQUE, NW * 87108

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708	^{NO:} 0309
DATE	12 JULY 2004
	REVISIONS .
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SHEET NO.

C.1



GENERAL NOTES:

- : CONTOUR INTERVAL IS ONE (1) FOOT.
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS—BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON—SIDERATIONS
- 5: THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN HEREON ARE FOR REFERENCE ONLY.

LEGEND:		
EXISTING	NEW	DESCRIPTION
5080	80	CONTOUR
80.00	80.00 -	SPOT ELEVATION
		PROPERTY LINE SWALE
—	←	SHEET FLOW
	\	ROOF FLOW
		ROOF GUTTER
		DOWNSPOUT
		LEGEND TC = TOP OF CONCRETE FL = FLOW LINE TG = TOP OF GRADE EOW = END OF WALL
	•	

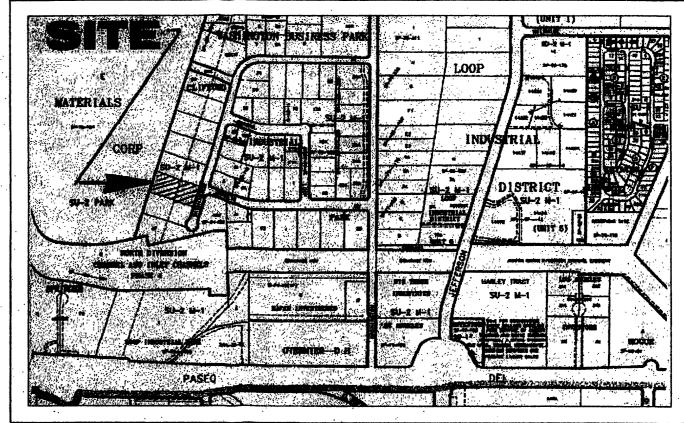
EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FOLLOWING:

 1. NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE FROM THE SITE
- DURING CONSTRUCTION.

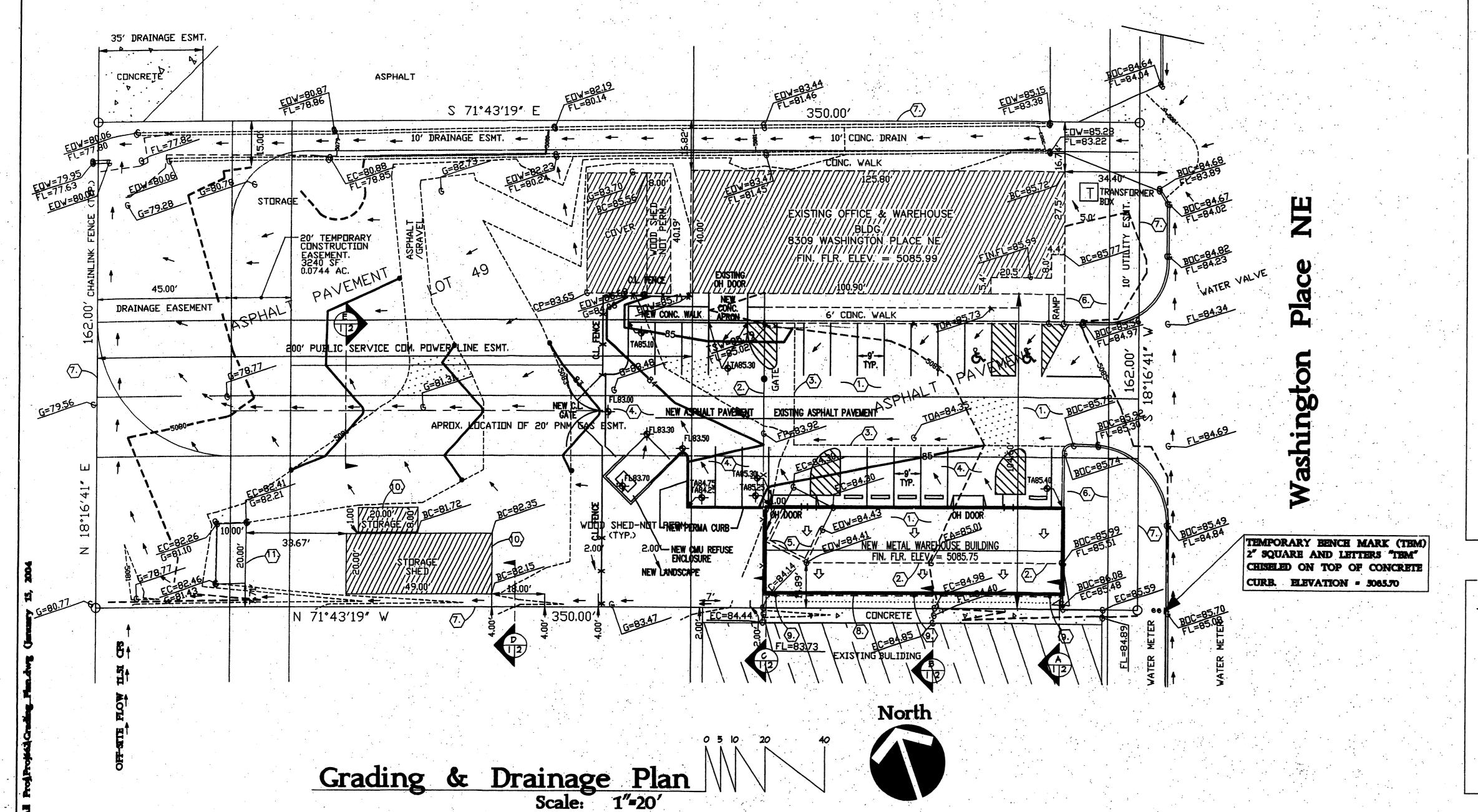
 2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED,
 ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED
 FROM FLOODING BY RUNDEF FROM THE SITE.
- 3. SHOULD THE CONTRACTOR FAIL TO PREVENT SEDIMENT-BEARING WATER FROM ENTER-ING PUBLIC RIGHT-OF-WAY, HE SHALL PROMPLTY REMOVE FROM THE PUBLIC RIGHT-OF-WAY ANY AND ALL SEDIMENT ORIGINATING FROM THE SITE.
- 4. CONTROL OF SEDIMENT-LADEN WATERS WILL BE ACCOMPLISHED BY USE OF A COM-PACTED EARTH BERM OF ADEQUATE HEIGHT. THE BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETER OF THE PROPERTY.

LEGAL DESCRIPTION:
LOT 49, CLIFFORD INDUSTRIAL PARK, ALBUBQUERQUE, NEW MEXICO.



VICINITY MAP

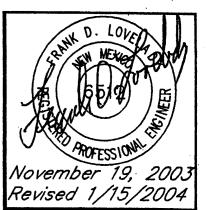
ZONE ATLAS NO. C-17-Z



GENERAL NOTES

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE TO RESOLVE THE CONFLICT WITH A MINIMUM AMOUNT OF DELAY.
- 2. ALL WORK ON THIS PLAN SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE. OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE LOCATIONS, LINE SIZES OR MATERIAL TYPE, MAKES NO REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATIONS OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF OR DURING ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES. IN PLANNING AND CONDUCTING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH ALL STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- 4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHTS—OF—WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING.
- 5. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE COMPLETION OF THE WORK PRIOR TO BEGINNING CONSTRUCTION.

- EXISTING ASPHALT PAVEMENT.
- 2. EDGE OF EXISTING ASPHALT PAVEMENT.
- 3. EDGE OF ASPHALT REMOVAL AND REPLACEMENT.
- NEW ASPHALT PAVEMENT.
 EXISTING REFUSE ENCLOSURE DEMOLISH.
- 6. EXISTING LANDSCAPING.
- 7. PROPERTY LINE.8. ROOF GUTTER
- 9. DOWNSPOUT.
- 10. EXISTING TEMPORARY BUILDINGS TO BE REMOVED, RELOCATED OR, LEFT IN PLACE, AS DETERMINED BY THE OWNER. NOTE: ALL TEMPORARY BUILDINGS WITHIN THE CHANNEL CONST. AREA HAVE BEEN DEMOVED.
- EXISTING CONCRETE PAD. CITY PLANS FOR CLIFFORD CHANNEL, REALIGNMENT CALL FOR REMOVAL AND DISPOSAL OF THIS PAD.



mercial Enterprises

Led 1/12/5004

ALBUQUER OF NEW MEXICO

Warehouse for Commercial

KOL HOVOK, ARCHITCO

DATE: 15 JANUARY 2004
REVISIONS
TIBM RELOCATED, TEMP.
CONST. EASEMENT ADDED.

HEET NO.

C.1.1

EXISTING CONDITIONS:

The site is located on the west side of Washington Place NE, the third lot north of the Domingo Baca Channel. There is a drainage concrete channel along the north edge of the site. The existing building roof has an east-west ridge and the north side of the building drains directly into the drainage channel via splash blocks that extend over the channel wall. The parking lot is paved and there are several non-permanent buildings on the site, drainage is from east to west. At the NW corner of the site the drainage channel continues west into the old baloon fiesta area. The lots north and south of the site are also developed. (See aerial photo, Sheet C. 1.2)

DEVELOPED CONDITIONS:

It is proposed to construct a new metal storage building on the site as shown. The building will be constructed in an area which is now partially paved. The pavement will be extended to the west as shown. All runoff will continue to flow to the west and then north into the existing casement as it presently does.

FUTURE IMPROVEMENTS:

The City of Albuquerque proposes to construct "Clifford Channel Realignment at Former Los Angeles Landfill". Construction plans have been prepared and a reduced set will be submitted with this grading and drainage submittal. No attempt has been made to show the channel grades on this plan.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque in cooperation with Bernalillo County, New Mexico and the Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is between the Rio Grande River and San Mateo Blvd. and is, therefore, in Precipitation Zone 2.

LAND TREATMENT 'D':

SURFACE	EXISTING	DEVELOPE
CONCRETE	4, 095	5, 236
ASPHALT PAVING	8, 623	9, 698
BUILDING	8, 369	11, 169
TOTAL	21,087	26, 103

LAND TREATMENT AREAS:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D. P. M. Also shown are the existing and proposed land treatment areas.

LAND TREAT,	q(cf: 100-yr.	5/ac) 10-vr.	E 100-yr	(In) : 10-vr	Ext	sting S Sa. Ft.	Ite Areas Acres	Deve t	oped Site Sq.Ft.	Areas
Á	1. 56	0. 38	0. 53		0. 0		0.0000	0. 0	0	0. 0000
В	2. 28	0. 95	0. 78	0. 28	4. 8	2,720	0. 0624	4. 8	2,720	0, 0624
C	3. 14	1. 71	1. 13	0, 52	58. 0	32, 893	0. 7551	49, 2	27, 877	0. 6400
D	4. 70	3. 14	2. 12	1. 34	35' 5	21,087	0. 4841	46. 0	26, 103	0. 5992
Totals					100.0	56,700	1. 3016	100.0	56,700	1. 3016

PEAK DISCHARGE:

EXISTING CONDITIONS:

 $Q100 = 0.0624 * 2.28 + 0.7551 \times 3.14 + 0.4841 * 4.70 = 4.79 cfs$ Q10 = 0.0624 * 0.95 + 0.7551 * 1.71 + 0.4841 * 3.14 = 2.87 cfs

DEVELOPED CONDITIONS:

 $Q100 = 0.0624 * 2.28 + 0.6400 \times 3.14 + 0.5992 * 4.70 = 4.97 cfs$ Q10 = 0.0624 * 0.95 + 0.6400 * 1.71 + 0.5992 * 3.14 = 3.04 cfs

VOLUME, 100-YEAR AND 10-YEAR, 6-HOUR:

EXISTING CONDITIONS

V100 = (2,720 * 0.78 + 32,893 * 1.13 + 21,087 * 2.12) / 12 = 7,000 cf V10 = (2,720 * 0.28 + 32,893 * 0.52 + 21,087 * 1.34) / 12 = 3,844 cf

DEVELOPED CONDITIONS

V100 = (2,720 * 0.78 + 27,877 * 1.13 + 26,103 * 2.12) / 12 = 7,413 cf V10 = (2,720 * 0.28 + 27,877 * 0.52 + 26,103 * 1.34) / 12 = 4,186 cf

SUMMARY OF ON-SITE VOLUMES AND PEAK DISCHARGE RATE

DOWNOR	OF ON	SITE AO	TOWIN VI	AN REUY
DEVELOPED	V100(CF) 7, 413	V10(CF) 4, 186	Q100(CFS) 4, 97	Q10(CFS) 3, 04
EXISTING	7,000	3, 844	4, 79	2, 87
INCDEASE	412	242	0.10	0.17

NEW BUILDING ROOF RUNOFF

AREA = 3300 SF

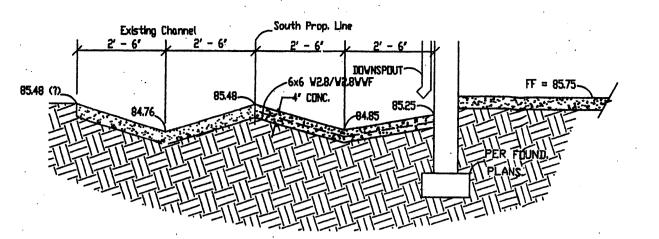
Q100 = (3300 / 43,560) X 4.7 = 0.36 CFS

3. 00 CFS > 0. 36 CFS ADEQUATE

CAPACITY OF SWALE (SECTION D):

SWALE 5' WIDE X 0. 5' DEEP

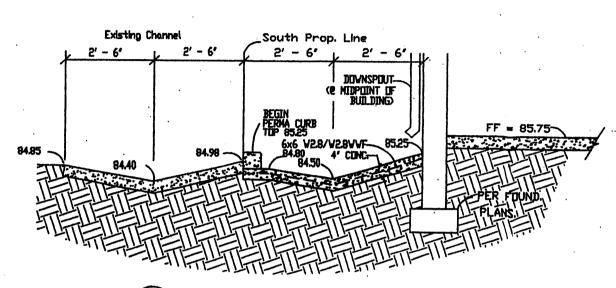
AREA= 1. 25 SF
P = 5. 1 SLOPE = 4. 14 = 200 = 0. 0207
R = A/P = 1. 25 / 5. 1 = 0. 25 N = 0. 035 (GRAVEL)
V = (1. 486 / 0. 035) (0. 25)^{2/3} (0. 0207)^{1/2} = 2. 4 FPS
Q = AV = 1. 25 X 2. 4 = 3. 00 CFS



A = 1' - O''

NOTE

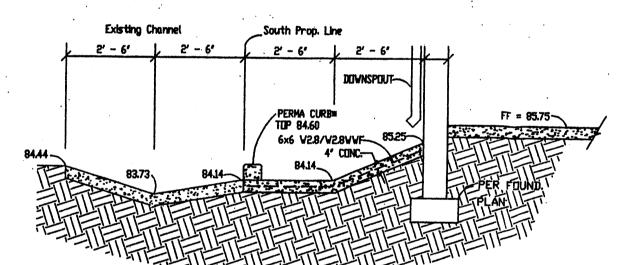
TUTAL DISTANCE BETWEEN SECTIONS "A" & "B" IS 43.6" SLOPE = (84.85 - 84.50) / 43.6 = 0.0080 FT./FT.



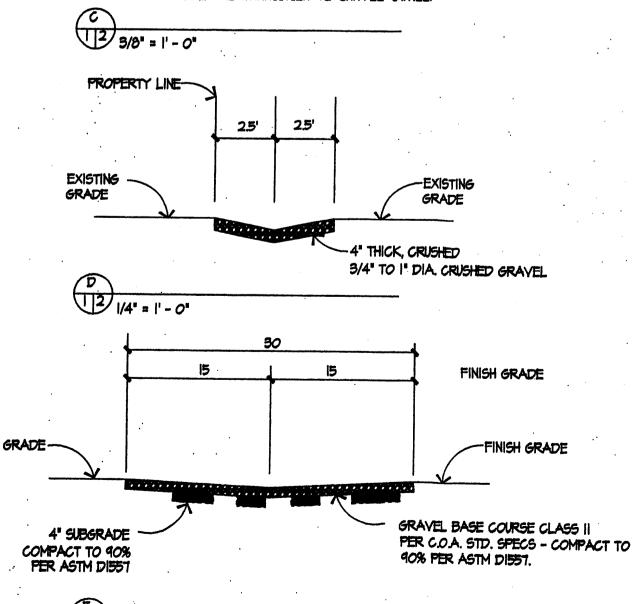
B | 3/8" = 1' - 0"

NOTE

TRANSITION FROM "V" SHAPED CHANNEL TO FLAT BOTTOMED CHANNEL BETWEEN SECTIONS "B" AND "C". TOTAL DISTANCE IS 56.0". SLOPE = (84.5 - 84.14) / 56 = 0.0064 FT./FT.

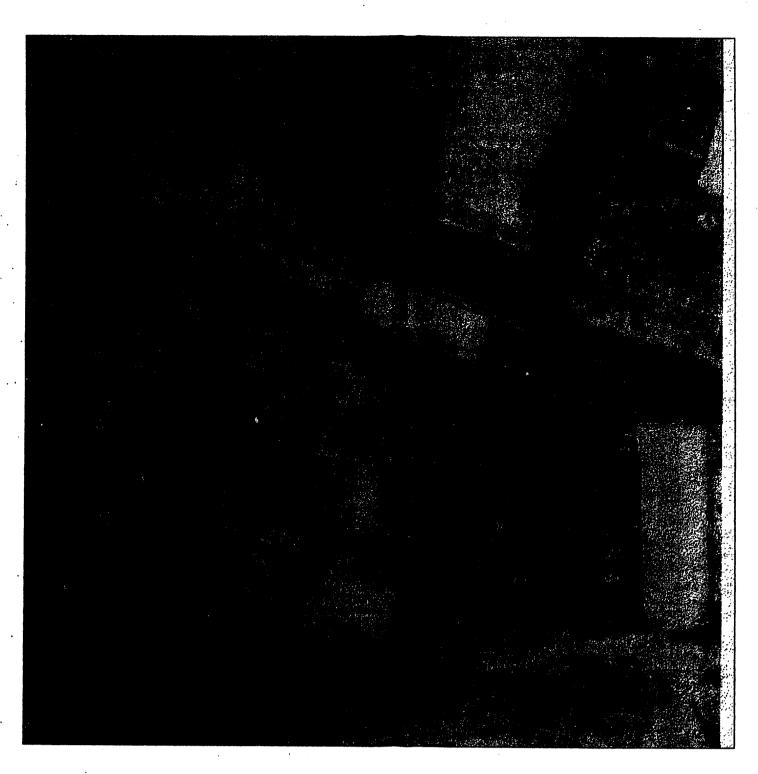


* CONTINUE CONCRETE AND PERMA CURB 5' WEST OF BUILDING AND TRANSITION TO GRAVEL SWALE.



HORIZONTAL | = 10'

VERTICAL I" = 3'



AFRIAL PHOTO OF SITE AREA APPROX. SCALE 1" - 100'

OFF-SITE FLOW CALCULATIONS:

AREA = 2.72 ACRES - SEE ABOVE MAP.

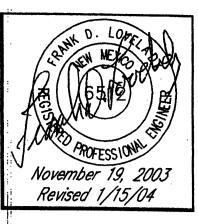
PER TABLE A-5 OF THE DPM, LIGHT INDUSTRIAL IS 70% TREATMENT D.

ASSUME 30 PERCENT TREATMENT C.

VEIGHTED 100-YEAR PEAK DISCHARGE PER ACRE

Q w = 0.3 * 3.14 + 0.7 * 4.70 = 4.23 CFS PER ACRE.

Q 100 = 4.23 CFS PER ACRE * 2.72 ACRES = 11.51 CFS

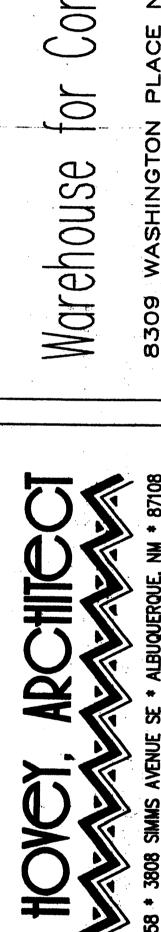


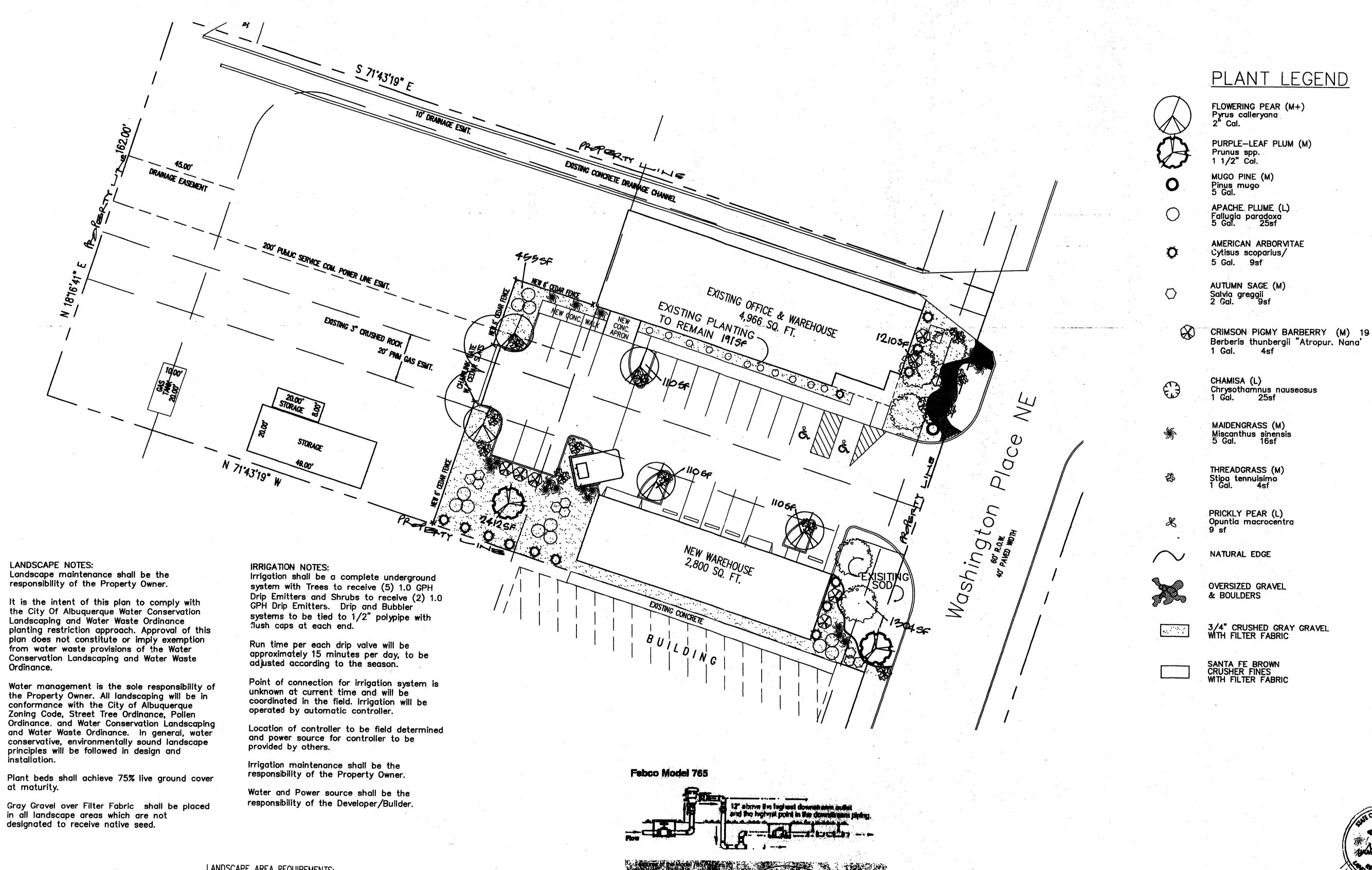
GRADING AND DRAINAGE CALCULATIONS
Warehouse for Commercial Enterprises

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JOB	NO: 0309
DATE	E 15 JANUARY 2004
	REVISIONS
1.	OFF-SITE FLOW AREA & CALCS
	·

C.1.2

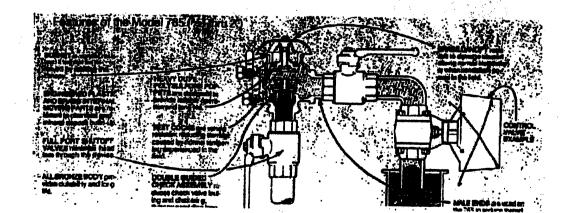




LANDSCAPE AREA REQUIREMENTS:

TOTAL SITE AREA: 56,700 SF LESS BUILDING AREAS: (7,766 SF) LESS NON-PUBLIC SITE AREA NOT (28,662 SF) USED FOR REQUIRED PARKING: NET SITE AREA: 20,272 SF

REQ'D LANDSCAPE AREA: $72,532 \text{ SF } \times 15 \text{ PERCENT} =$ 3,041 SF PROVIDED LANDSCAPE AREA: 5,902 SF



BACKFLOW PREVENTOR DETAIL no scale GRAPHIC SCALE

SCALE: 1"=20"



3-28-05

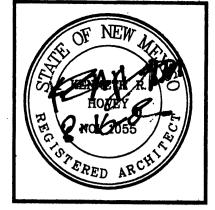
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 $3/25/05 \, drr$

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SHEET NO.

DATE: 25 MARCH 2005 REVISIONS



Warehouse for Commercial Enterprises

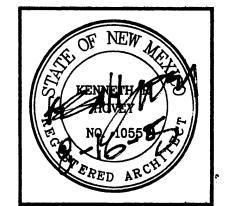
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DATE: 30 MARCH 2004

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A.2



Warehouse for Commercial Enterprises

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A.3