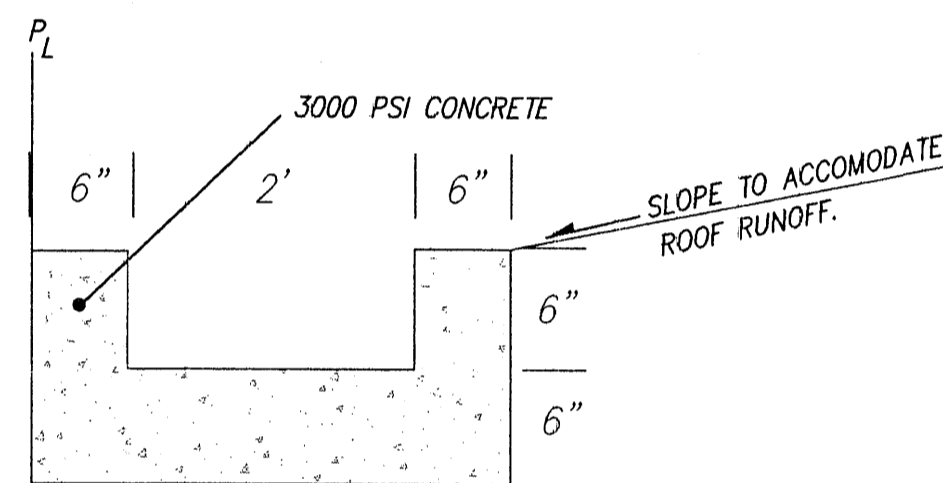
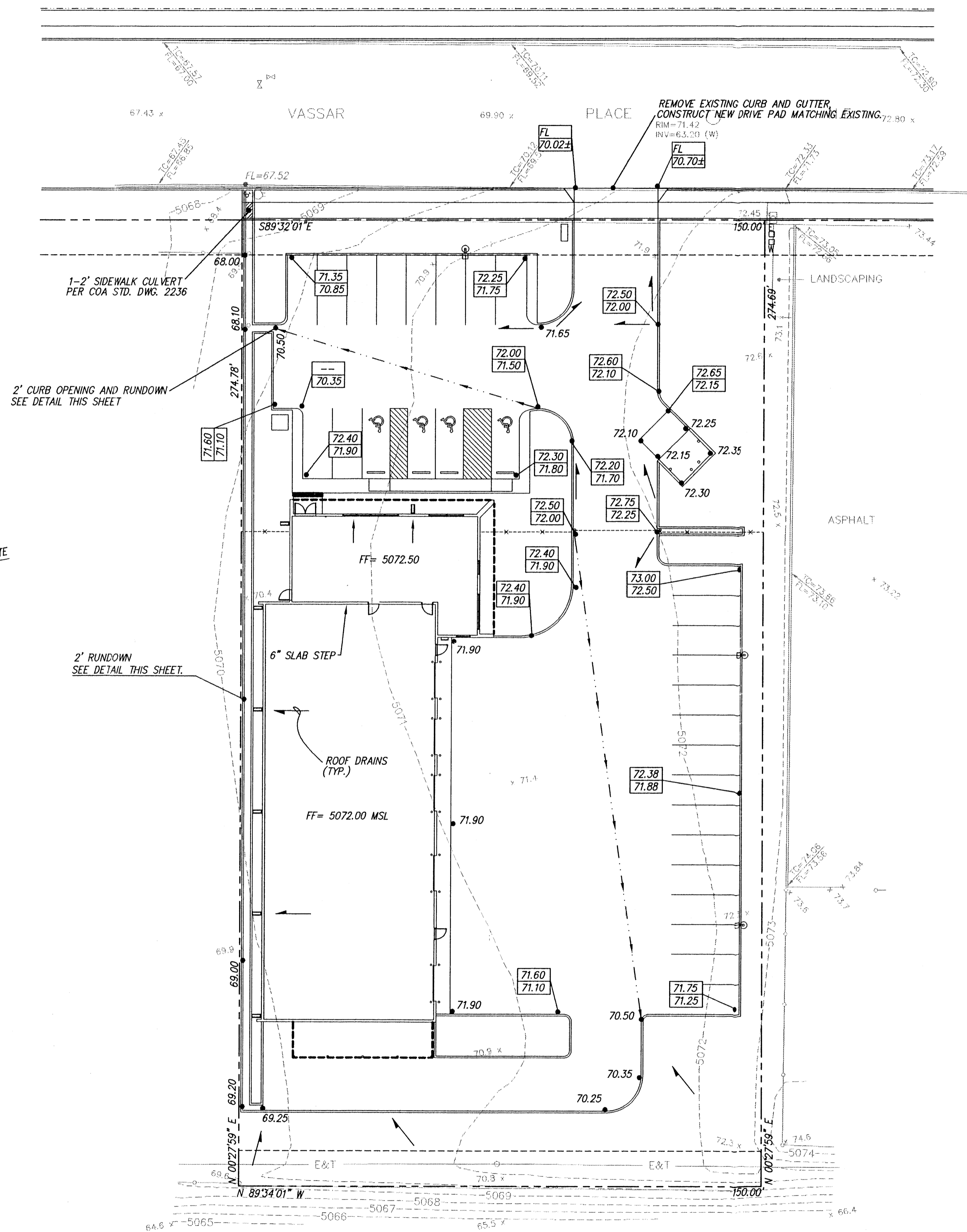


RIM=65.87  
INV=59.90 (E&W)



2' RUNDOWN DETAIL (NTS)

#### DRAINAGE CALCULATIONS

$P_{60}=2.01$   
 $P_{360}=2.35$   
 $P_{1440}=2.75$   
 $D_t = 0.033 \text{ HR}$   
 $T_p = 0.133 \text{ HR}$

#### PROPOSED CONDITION

AREA = 0.001478 SQ. MI.  
TREATMENT

TYPE "A" = 20.0 %  
TYPE "B" = 150.0 %  
TYPE "C" = 10.0 %  
TYPE "D" = 55.0 %

$Q_{100} = 3.35 \text{ CFS}$

#### HYDRAULIC CALCULATIONS

##### 2' CURB OPENING

$Q_{MAX} = 2.9 \text{ LH} = 4.10 \text{ CFS}$

##### LANDSCAPE SWALE

$Q_{MAX} = (1.49/N) * A * R_b^{1/2} * S = 5.91 \text{ CFS}$

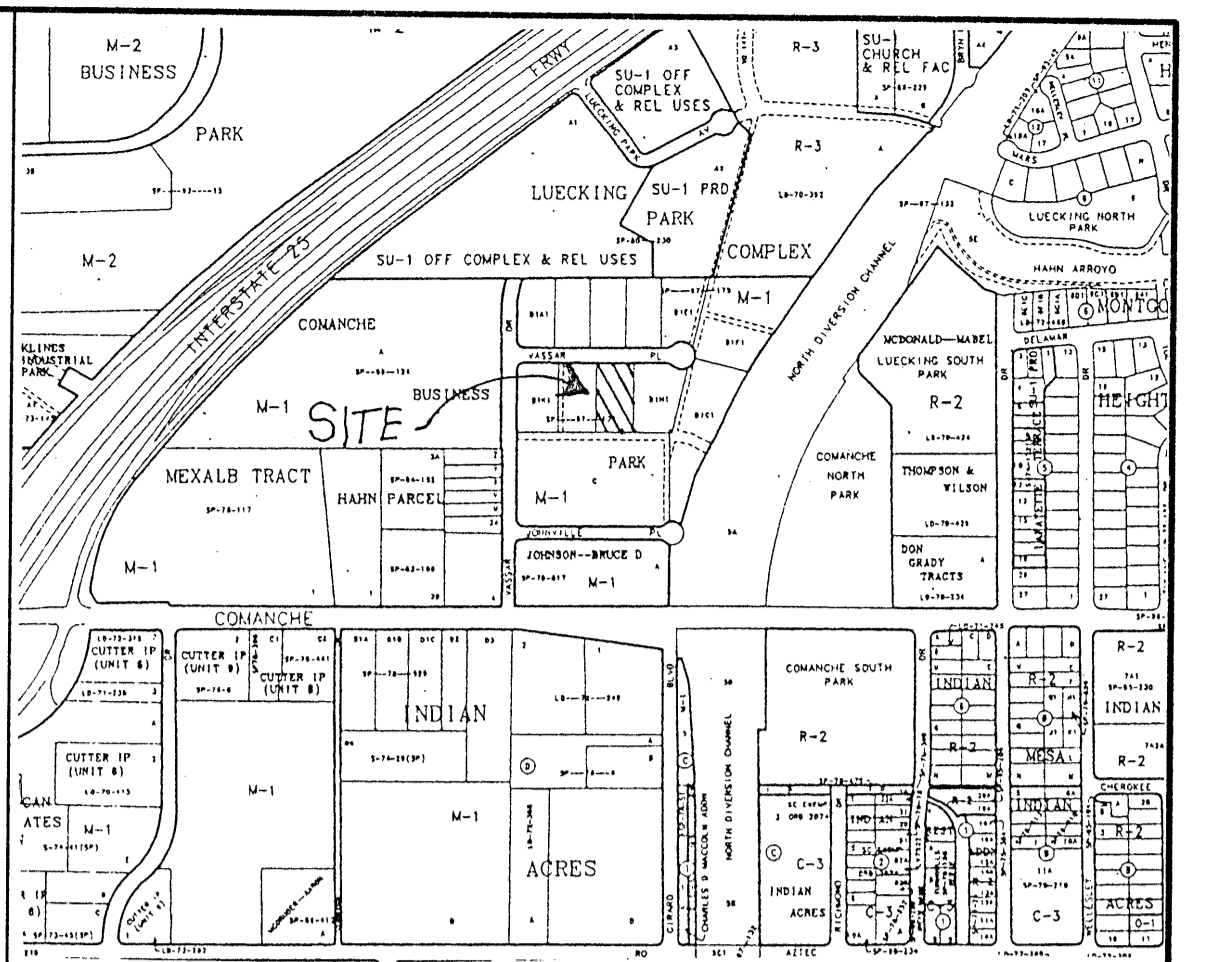
Offsite flows do not impact the site. The entire site is located within Zone X as shown in the Bernalillo County, New Mexico and incorporated areas, flood insurance rate map number 35001C0138D. The existing site is a portion of the Comanche business park. This subdivision has an allowable peak discharge of 3.61 CFS per acre as defined in the drainage study for SAD 216 as prepared by Andrews, Asbury and Roberts. Since this site consists of .9462 acre the allowable discharge is 3.41 CFS.

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#### DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE



#### VICINITY MAP ZONE MAP: G-16

#### T B M (TEMPORARY BENCHMARK)

MANHOLE IS LOCATED ON VASSAR PLACE N.E. RIM= 71.42  
INV= 63.20 (W)

#### ACS BENCHMARK

THE STATION IS LOCATED 3.5 MILES NORTH-EAST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM THE INTERSECTION OF SECOND STREET (HWY. 85 ALT.) AND MONTANO RD. N.W., GO EAST ON MONTANO RD. 1.45 MILES TO THE PAN AMERICAN WAY (1-25 WEST FRONTAGE RD.) THEN SOUTHWEST ON THE WEST FRONTAGE RD. 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD NM SHC BRASS TABLET STAMPED "STA. 1-25-20", SET IN TOP OF A CONCRETE POST PROJECTING 0.1 FT. ABOVE GROUND.

X=390403.88 Y=1502304.95 ELEVATION=5079.46

#### LEGAL DESCRIPTION

COMANCHE BUSINESS PARK TRACT B-1-1. WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

#### LEGEND

	STANDARD 8" CURB & GUTTER
	STANDARD 6" CURB & GUTTER
	SWALE
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED BOTTOM OF CURB ELEVATION
	FLOW ARROW
	PROPOSED ELEVATION
	FINISHED FLOOR ELEVATION

#### HORIZON VANS

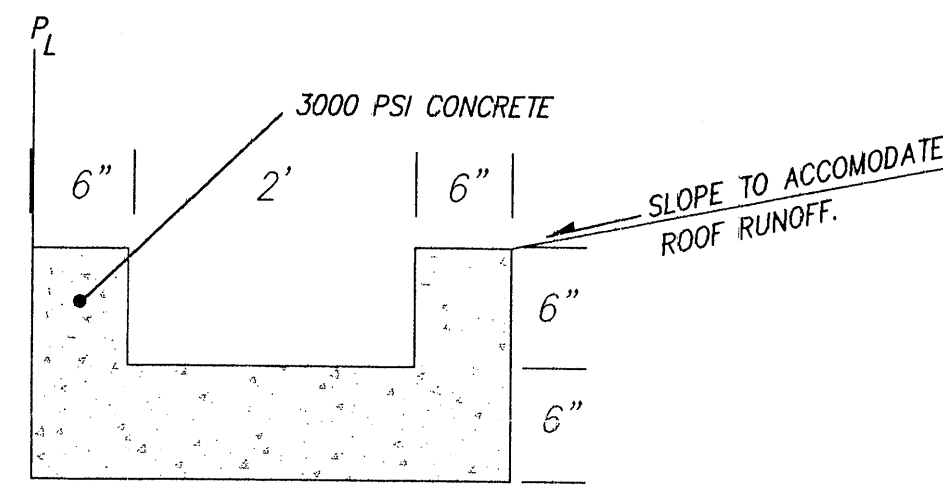
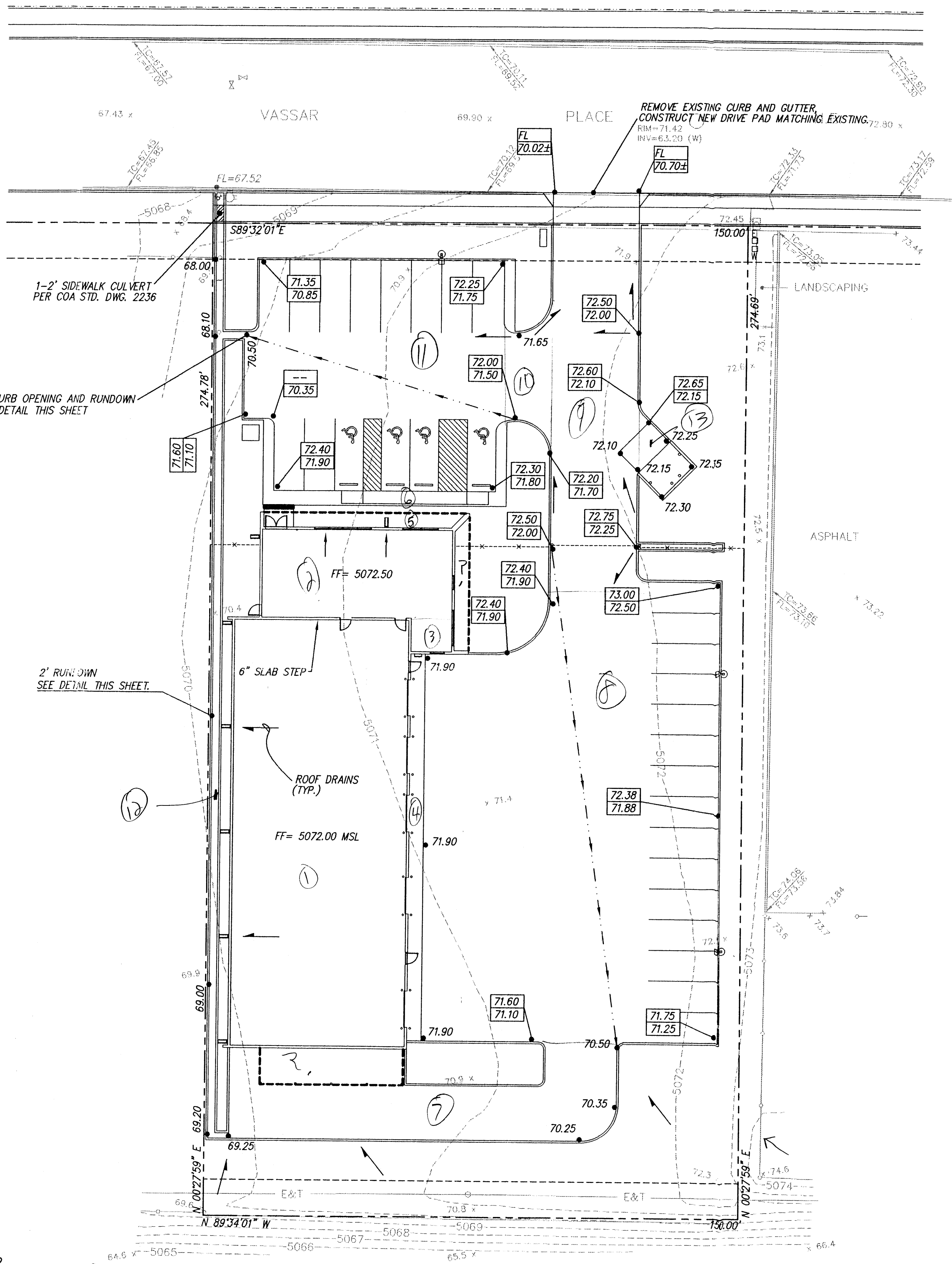
#### GRADING AND DRAINAGE PLAN

dmg MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: DPS	Drawn: AMB	Checked: DMG	Sheet 1 of 1
Scale: 1" = 20'	Date: 11-23-98	Job: 98122	

8122GD20\12-17-98\AMB

RIM=65.67  
INV=59.90 (E&W)



2' RUNDOWN DETAIL (NTS)

DRAINAGE CALCULATIONS

P<sub>100</sub>=2.01  
P<sub>500</sub>=2.35  
P<sub>1440</sub>=2.75  
D<sub>r</sub> = 0.033 HR  
T<sub>r</sub> = 0.133 HR

PROPOSED CONDITION

AREA=0.001478 SQ. MI.  
TREATMENT  
TYPE "A"= 20.0 %  
TYPE "B"= 150.0 %  
TYPE "C"= 10.0 %  
TYPE "D"= 55.0 %  
Q<sub>100</sub> = 3.35 CFS

HYDRAULIC CALCULATIONS

2' CURB OPENING  
Q<sub>MAX</sub> = 2.9 LH = 4.10 CFS

LANDSCAPE SWALE

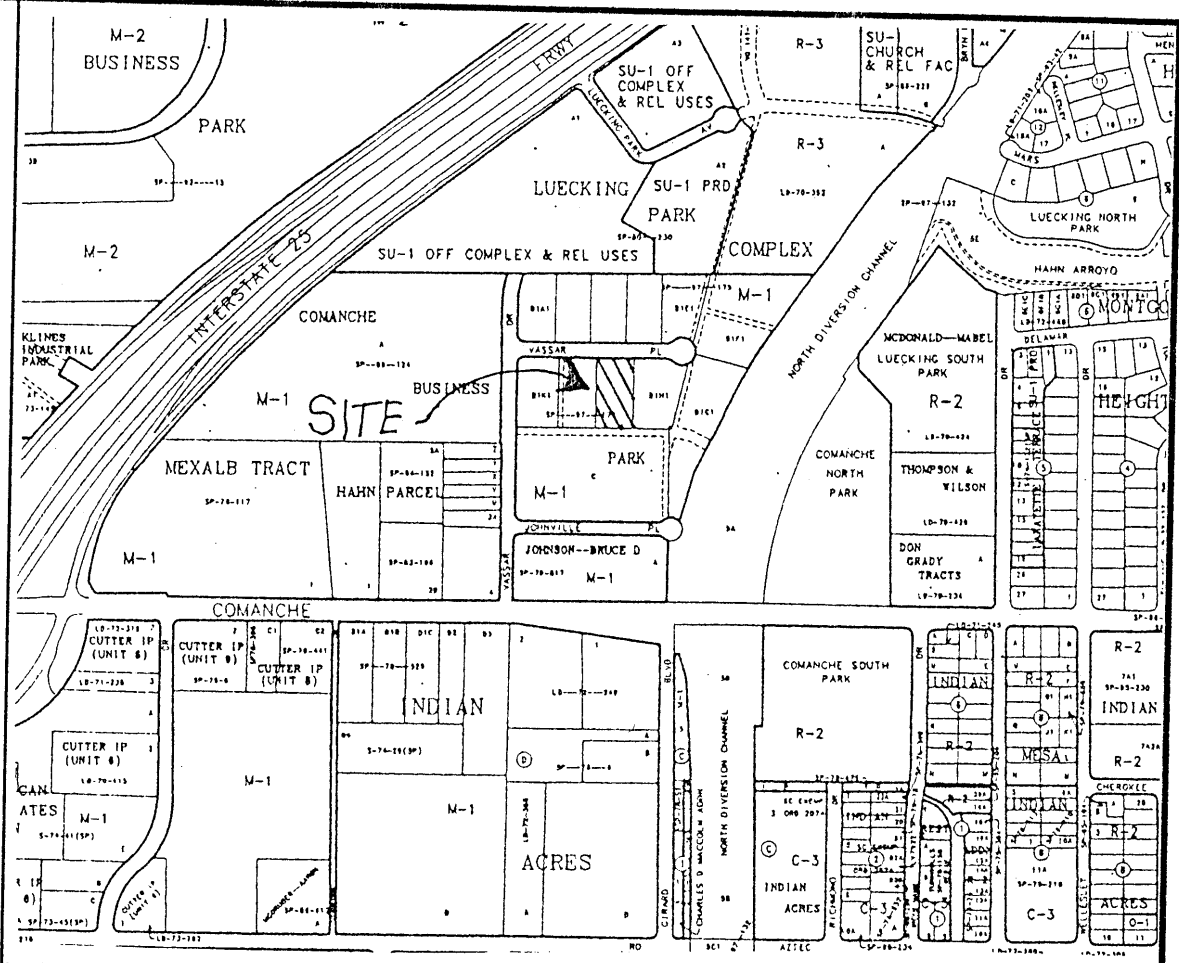
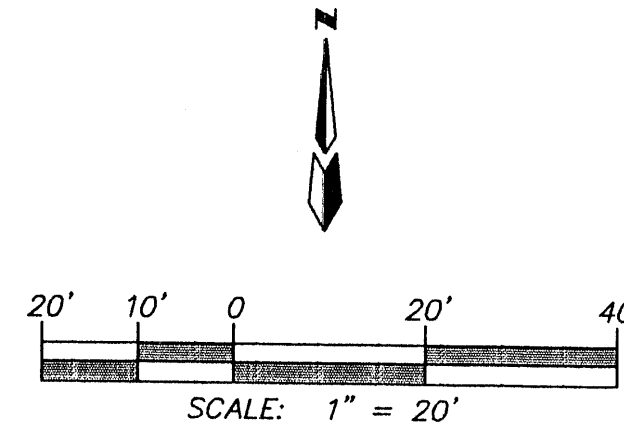
Q<sub>MAX</sub> = (1.49/N) \* A \* R<sub>s</sub> \* S = 5.91 CFS

Offsite flows do not impact the site. The entire site is located within Zone X as shown in the Bernalillo County, New Mexico and incorporated areas, flood insurance rate map number 35001C0138D. The existing site is a portion of the Comanche business park. This subdivision has an allowable peak discharge of 3.61 CFS per acre as defined in the drainage study for SAD 216 as prepared by Andrews, Asbury and Roberts. Since this site consists of .9462 acre the allowable discharge is 3.41 CFS.

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DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

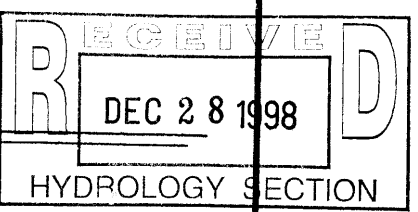
Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE



VICINITY MAP ZONE MAP: G-16

T B M (TEMPORARY BENCHMARK)

MANHOLE IS LOCATED ON VASSAR PLACE N.E. RIM= 71.42  
INV= 63.20 (W)



ACS BENCHMARK

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X=390403.88 Y=1502304.95 ELEVATION=5079.46

LEGAL DESCRIPTION

COMANCHE BUSINESS PARK TRACT B-1-1, WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

LEGEND

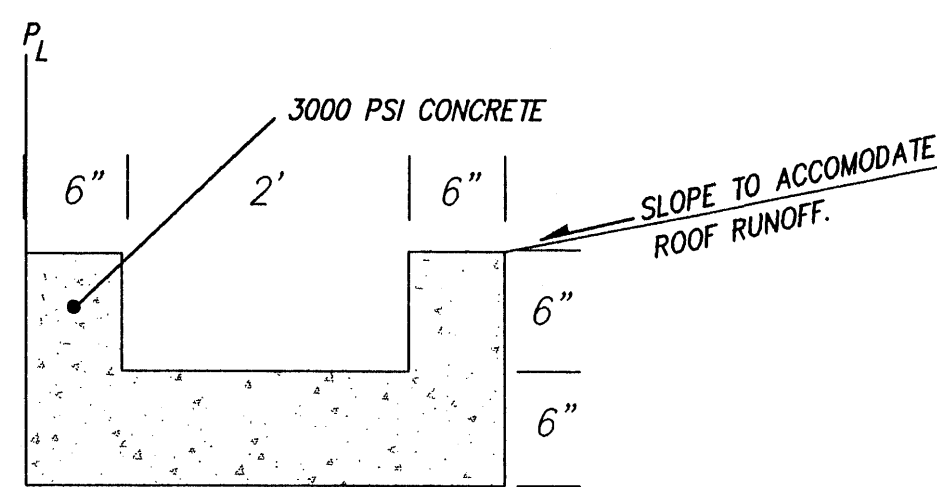
- STANDARD 8" CURB & GUTTER
- STANDARD 6" CURB & GUTTER
- SWALE
- 72.50  
72.00
- PROPOSED TOP OF CURB ELEVATION  
PROPOSED BOTTOM OF CURB ELEVATION
- FLOW ARROW
- 71.90
- PROPOSED ELEVATION
- FF= 72.00
- FINISHED FLOOR ELEVATION

HORIZON VANS  
GRADING AND DRAINAGE PLAN

dmg MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: DPS	Drawn: AMB	Checked: DMG	Sheet 1 of 1
Scale: 1" = 20'	Date: 11-23-98	Job: 98122	

RIM=65.87  
INV=59.90 (E&W)



2' RUNDOWN DETAIL (NTS)

#### DRAINAGE PARAMETERS

$P_{100}=2.01$   
 $P_{300}=2.35$   
 $P_{400}=2.75$   
 $D_t=0.033$  HR  
 $T_r=0.133$  HR

#### PROPOSED CONDITION

AREA=0.001478 SQ. MI.

#### TREATMENT

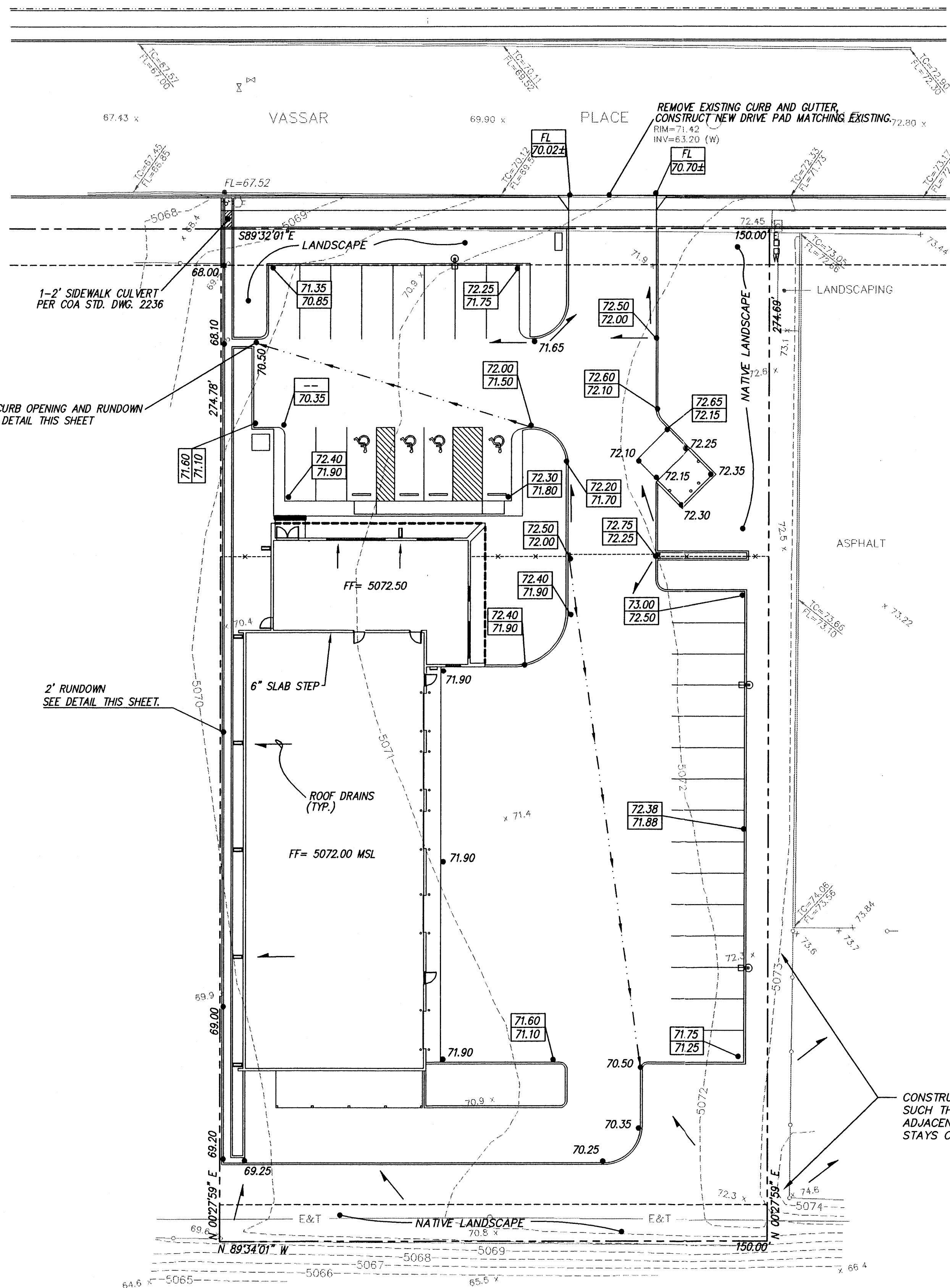
TYPE "A"= 19% = 7649 S.F.  
TYPE "B"= 10% = 3864 S.F.  
TYPE "C"= 8% = 3298 S.F.  
TYPE "D"= 63% = 25966 S.F.  
 $Q_{100}=3.48$  CFS  
 $V_{100}=0.125$  ACRE FEET

#### HYDRAULIC CALCULATIONS

2' CURB OPENING

$Q_{max}=2.9LH=4.10$  CFS

OFFSITE FLOWS DO NOT IMPACT THE SITE. THE ENTIRE SITE IS LOCATED WITHIN ZONE X AS SHOWN IN THE BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS, FLOOD INSURANCE RATE MAP NUMBER 35001C0138D. THE EXISTING SITE IS A PORTION OF THE COMANCHE BUSINESS PARK. THIS SUBDIVISION HAS AN ALLOWABLE PEAK DISCHARGE OF 3.61 CFS PER ACRE AS DEFINED IN THE DRAINAGE STUDY FOR SAD 216 AS PREPARED BY ANDREWS, ASBURY AND ROBERTS. SINCE THIS SITE CONSISTS OF 0.9462 ACRE THE ALLOWABLE DISCHARGE IS 3.41 CFS.



#### NOTICE TO CONTRACTOR

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#### DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE

#### VICINITY MAP ZONE MAP: G-16-Z

#### T B M (TEMPORARY BENCHMARK)

MANHOLE IS LOCATED ON VASSAR PLACE N.E. RIM= 71.42  
INV= 63.20 (W)

#### ACS BENCHMARK

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X=390403.88 Y=1502304.95 ELEVATION=5079.46

#### LEGAL DESCRIPTION

COMANCHE BUSINESS PARK TRACT B-1-1, WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

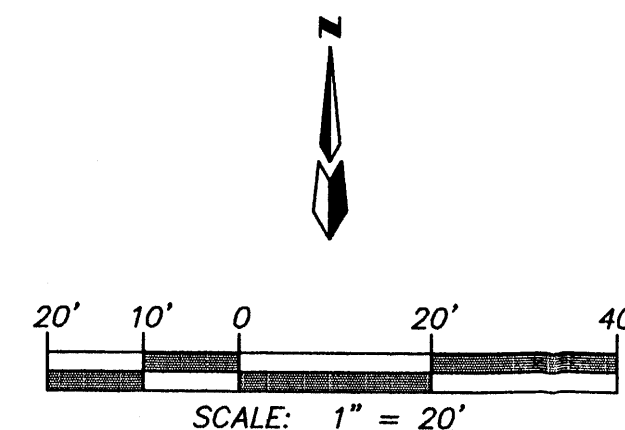
#### LEGEND

- STANDARD 8" CURB & GUTTER
- STANDARD 6" CURB & GUTTER
- SWALE
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- FLOW ARROW
- PROPOSED ELEVATION
- FINISHED FLOOR ELEVATION

#### HORIZON VANS GRADING AND DRAINAGE PLAN

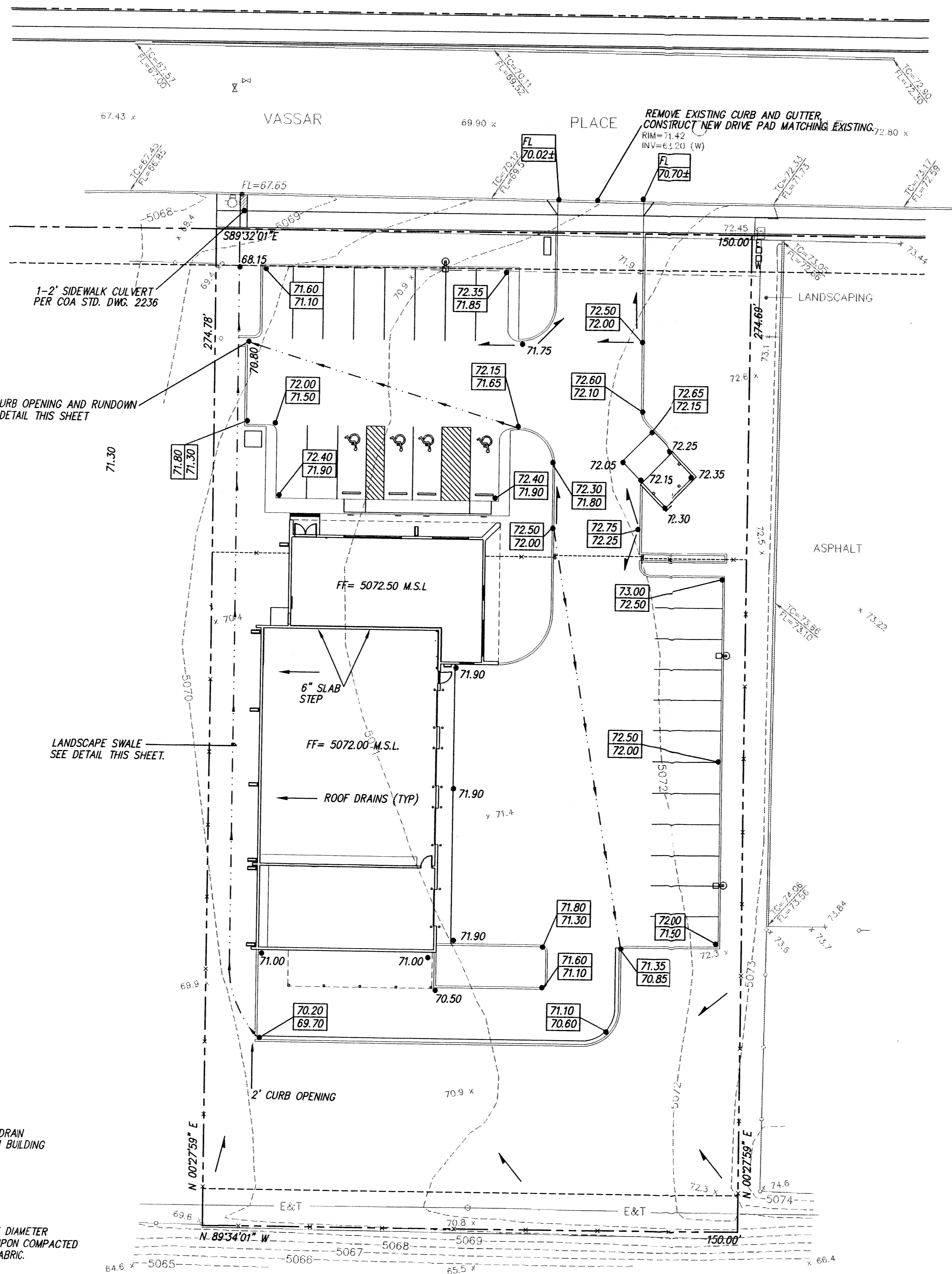
MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: DPS Drawn: AMB, WLW Checked: DMG Sheet 1 of 1  
Scale: 1" = 20' Date: 11-98 Job: 98122



\\8122NEW\\8122GD20\\02-08-99\\AMB, WLW

RIM=65.87  
INV=59.90 (E&W)



#### DRAINAGE CALCULATIONS

$P_{60}=2.01$   
 $P_{30}=2.35$   
 $P_{10}=2.75$   
 $D_T = 0.033 \text{ HR}$   
 $T_P = 0.133 \text{ HR}$

#### PROPOSED CONDITION

AREA= 0.001478 SQ. MI.  
TREATMENT  
TYPE "A"= 20.0 %  
TYPE "B"= 150.0 %  
TYPE "C"= 10.0 %  
TYPE "D"= 55.0 %  
 $Q_{100} = 3.35 \text{ CFS}$

#### HYDRAULIC CALCULATIONS

2' CURB OPENING  
 $Q_{MAX} = 2.9 \text{ LH} = 4.10 \text{ CFS}$   
LANDSCAPE SWALE  
 $Q_{MAX} = (1.49/N) * A * R^{0.48} * S = 5.91 \text{ CFS}$

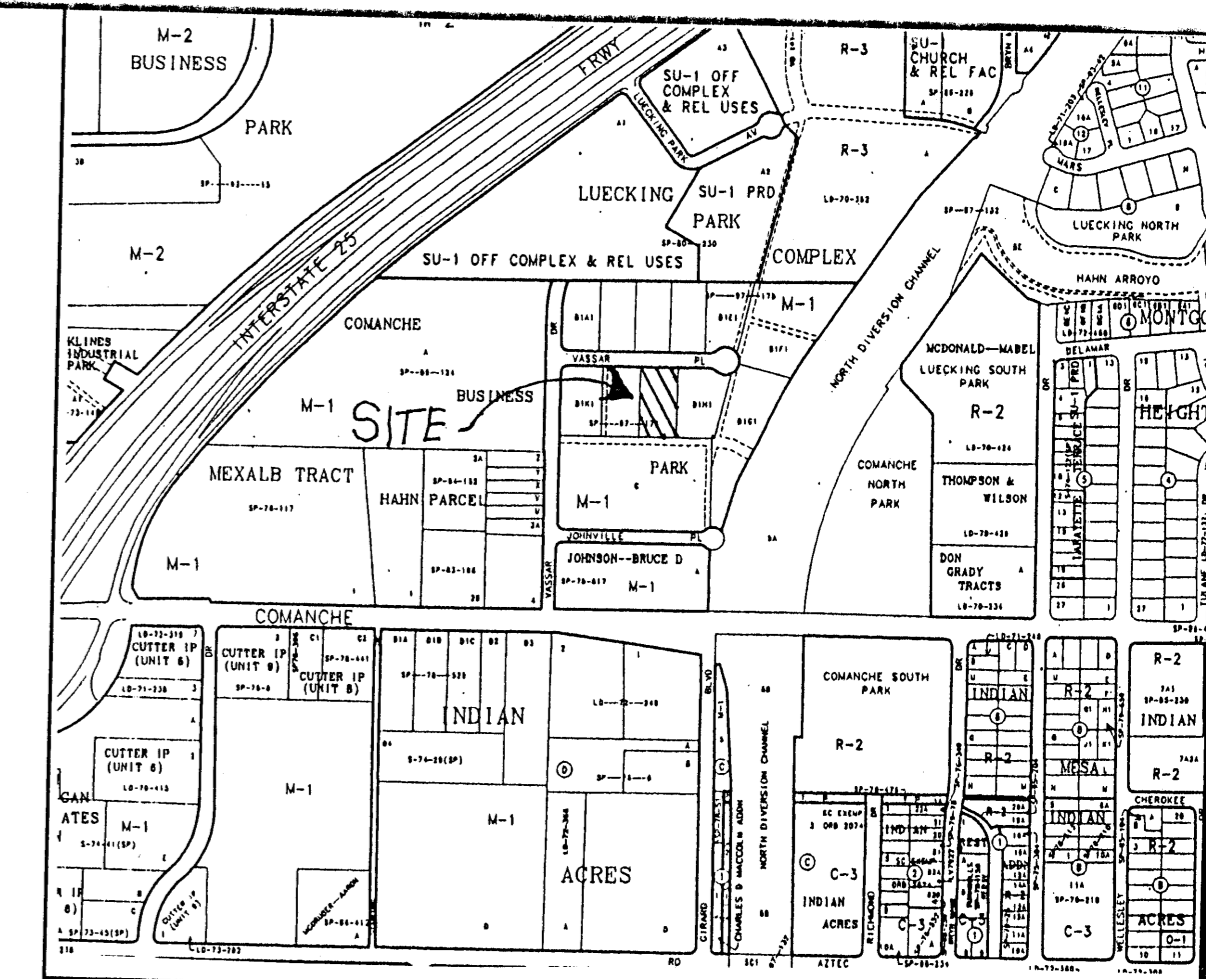
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#### DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE



#### VICINITY MAP ZONE MAP: G-16

#### T B M (TEMPORARY BENCHMARK)

MANHOLE IS LOCATED ON VASSAR PLACE N.E. RIM= 71.42  
INV= 63.20 (W)

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X=390403.88 Y=1502304.95 ELEVATION=5079.46

#### LEGAL DESCRIPTION

COMANCHE BUSINESS PARK TRACT B-1-1, WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

#### LEGEND

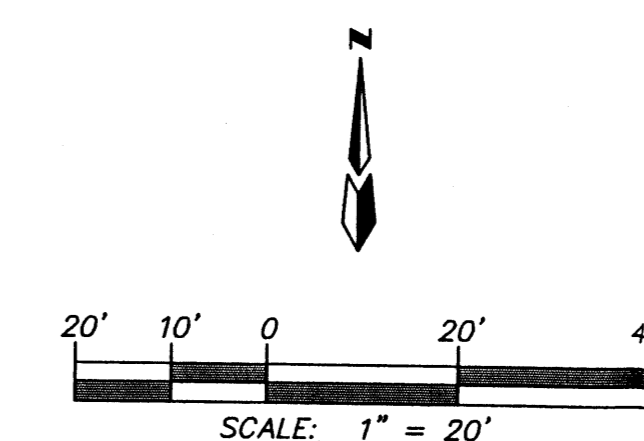
	STANDARD 8" CURB & GUTTER
	STANDARD 6" CURB & GUTTER
	SWALE
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED BOTTOM OF CURB ELEVATION
	FLOW ARROW
	PROPOSED ELEVATION
	FINISHED FLOOR ELEVATION

#### HORIZON VANS

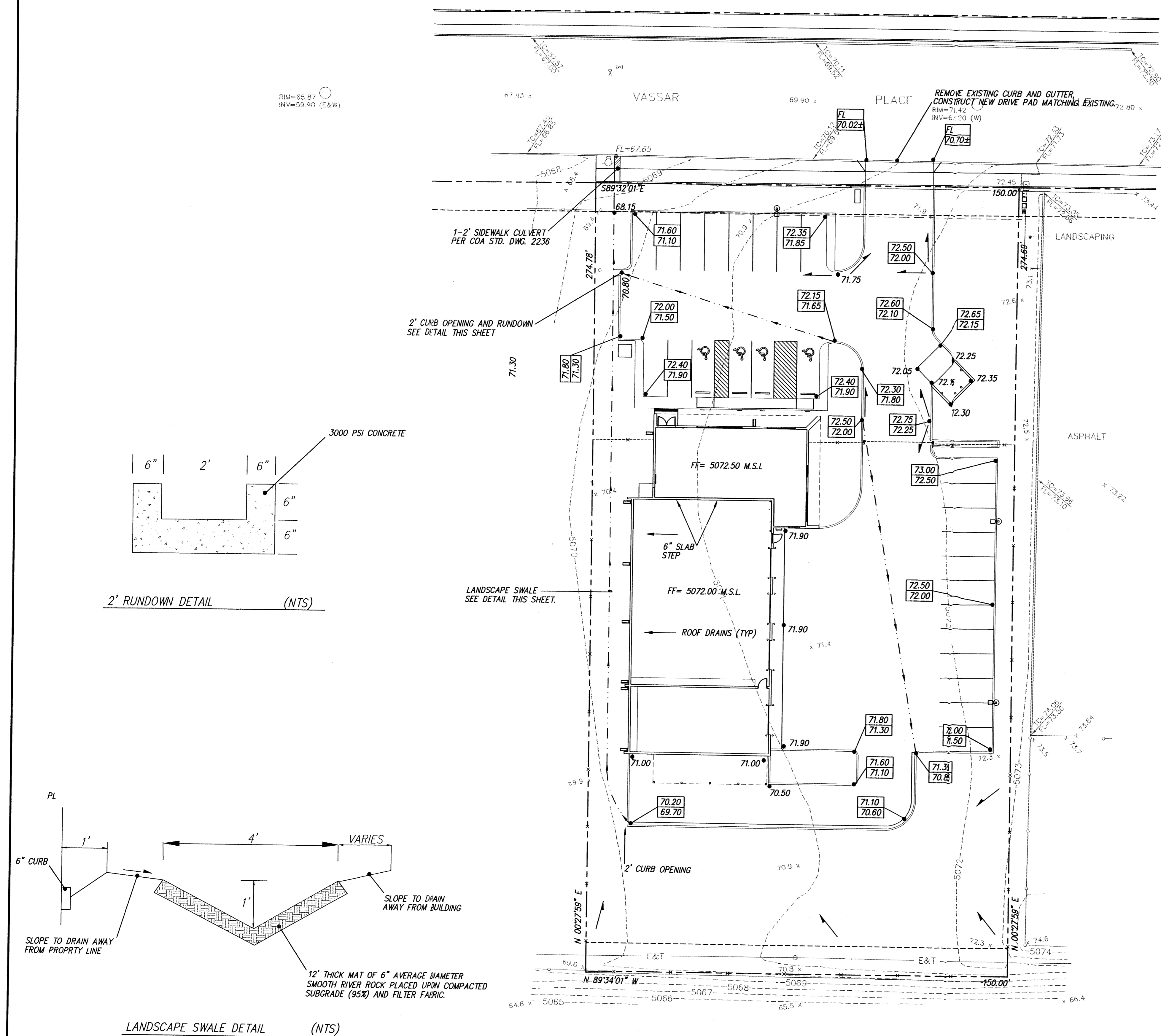
#### GRADING AND DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: DPS Drawn: AMB Checked: DMG Sheet 1 of 1  
Scale: 1" = 20' Date: 11-23-98 Job: 98122



8122GD\11-23-98\AMB



# DRAINAGE CALCULATIONS

$P_{60}=2.01$   
 $P_{360}=2.35$   
 $P_{1440}=2.75$   
 $D_T = 0.033 \text{ HR}$   
 $T_p = 0.133 \text{ HR}$

## PROPOSED CONDITION

AREA= 0.001478 SQ. MI.

## TREATMENT

TYPE "A"= 20.0 %  
TYPE "B"= 150.0 %  
TYPE "C"= 10.0 %  
TYPE "D"= 55.0 %  
 $Q_{100} = 3.35 \text{ CFS}$

## HYDRAULIC CALCULATIONS

### 2' CURB OPENING

$Q_{MAX} = 2.9 \text{ LH} = 4.10 \text{ CFS}$

### LANDSCAPE SWALE

$Q_{MAX} = (1.49/N) \cdot A \cdot R_b \cdot S = 5.91 \text{ CFS}$

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## DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

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## VICINITY MAP ZONE MAP: G-16

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INV= 63.20 (W)

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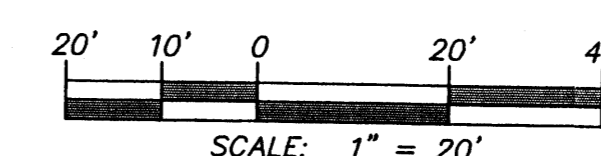
X=390403.88 Y=1502304.95 ELEVATION=5079.46

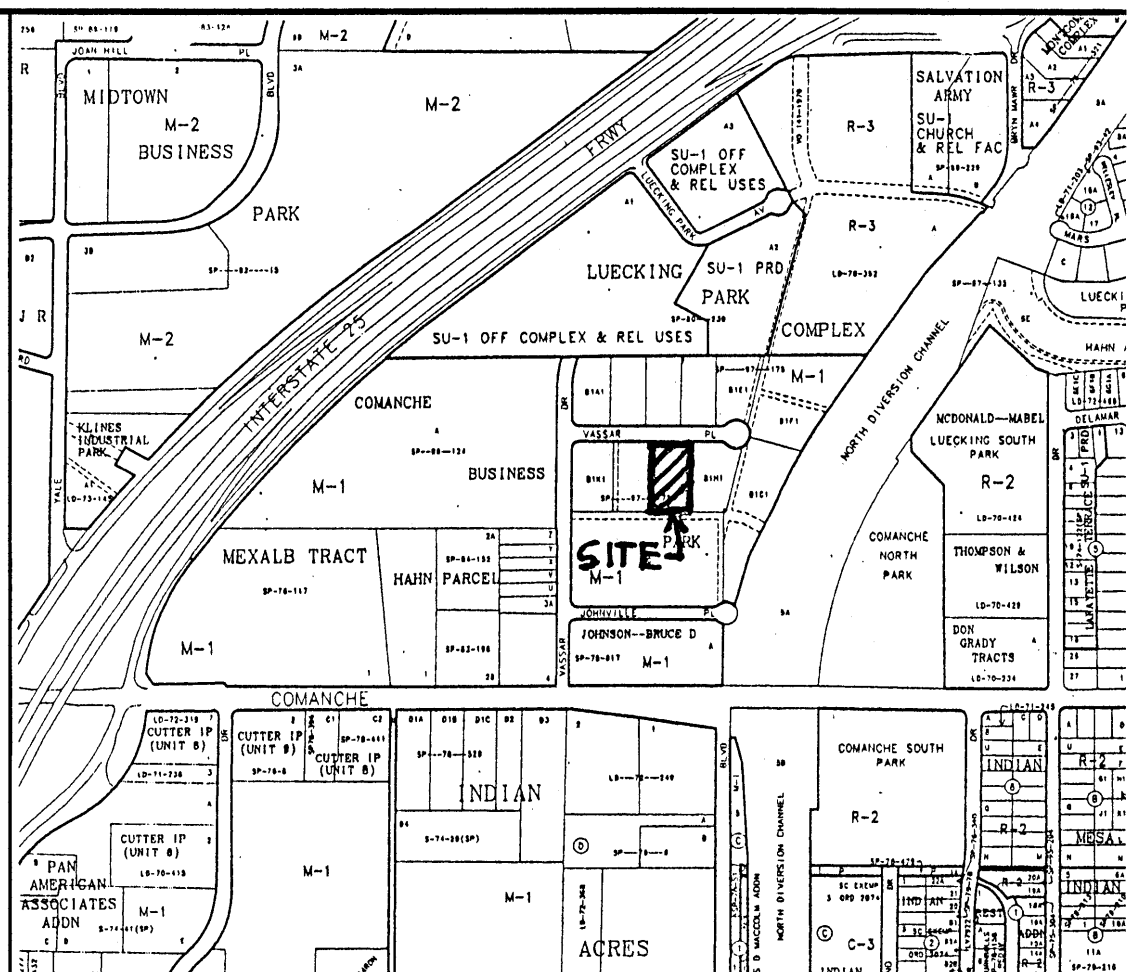
## LEGAL DESCRIPTION

COMANCHE BUSINESS PARK TRACT B-1-1. WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

## LEGEND

- STANDARD 8" CURB & GUTTER
- STANDARD 6" CURB & GUTTER
- SWALE
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- FLOW ARROW
- PROPOSED ELEVATION
- FINISHED FLOOR ELEVATION





VICINITY MAP ZONE MAP: G-16-Z

T B M (TEMPORARY BENCHMARK)

MANHOLE IS LOCATED ON VASSAR PLACE N.E. RIM= 71.42  
INV= 63.20 (W)

ACS BENCHMARK

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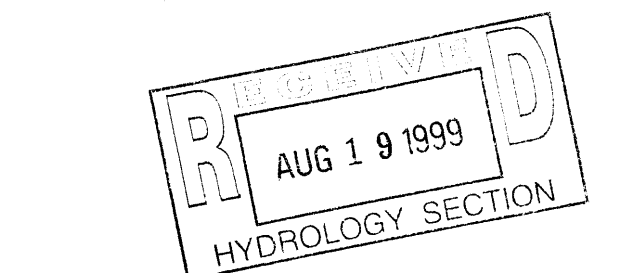
X=390403.88 Y=1502304.95 ELEVATION=5079.46

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LEGEND

- STANDARD 8" CURB & GUTTER
- STANDARD 6" CURB & GUTTER
- SWALE
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- FLOW ARROW
- PROPOSED ELEVATION
- FINISHED FLOOR ELEVATION



HORIZON VANS

GRADING AND DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: DPS Drawn: AMB, WLW Checked: DMG  
Scale: 1" = 20' Date: 11-98 Job: 98122 Sheet 1 of 1

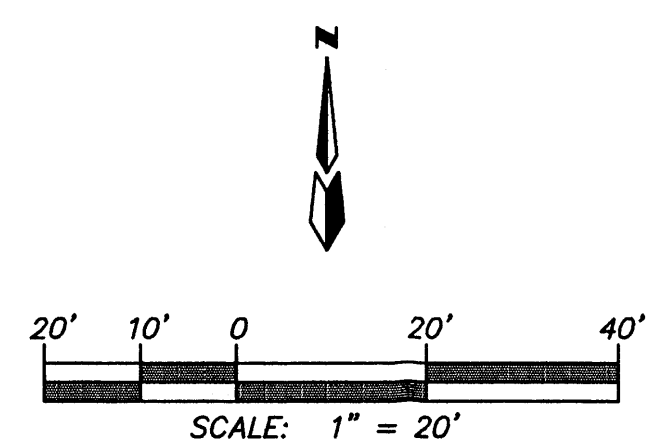
NOTICE TO CONTRACTOR

- An excavation/construction permit will be required before beginning any work within City right of way. An approved copy of these plans must be submitted at the time of application for this permit.
- All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "City of Albuquerque Standard Specifications for Public Works Construction" (1986 Edition).
- Two working days prior to any excavation, Contractor must contact the Line Locating Service, 765-1234, for location of existing utilities.
- 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 so that the conflict can be resolved with a minimum of delay.
- Backfill compaction shall be according to residential street use.
- Maintenance of these facilities shall be the responsibility of the Owner of the property served.
- Contractor is responsible for obtaining excavation permit for the S.O. 19 and providing proof of acceptance by the City prior to Hydrology sign-off for Certificate of Occupancy.

DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
Acceptance	CONSTRUCTION/SECTION/PERMITS	DATE

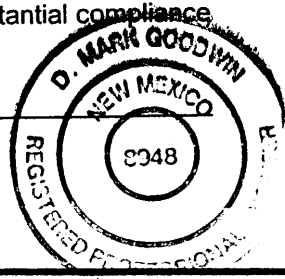
CONSTRUCT LANDSCAPING SUCH THAT FLOWS FROM ADJACENT LANDSCAPING STAYS ON ADJACENT LOT.



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Enterprise Builders, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 8/19/99  
Mark Goodwin NMPE 8948



\\8122NEWH\8122GD20\02-08-99\AMB,WLV

DRAINAGE PARAMETERS

P<sub>100</sub>=2.01  
P<sub>10</sub>=2.35  
P<sub>1</sub>=2.75  
D<sub>t</sub>=0.033 HR  
T<sub>r</sub>=0.133 HR

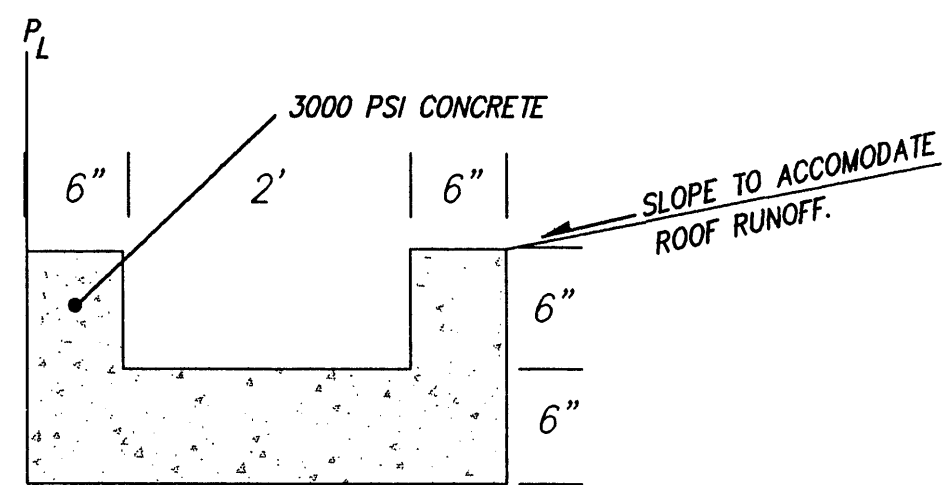
PROPOSED CONDITION

AREA=0001478 SQ. MI.  
TREATMENT  
TYPE "A"= 19% = 7649 S.F.  
TYPE "B"= 10% = 3864 S.F.  
TYPE "C"= 8% = 3298 S.F.  
TYPE "D"= 63% = 25966 S.F.  
Q<sub>100</sub> = 3.48 CFS  
V<sub>100</sub> = 0.125 ACRE FEET

HYDRAULIC CALCULATIONS

2' CURB OPENING  
Q<sub>max</sub> = 2.9LH = 4.10 CFS

OFFSITE FLOWS DO NOT IMPACT THE SITE. THE ENTIRE SITE IS LOCATED WITHIN ZONE X AS SHOWN IN THE BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS, FLOOD INSURANCE RATE MAP NUMBER 35001C0138D. THE EXISTING SITE IS A PORTION OF THE COMANCHE BUSINESS PARK. THIS SUBDIVISION HAS AN ALLOWABLE PEAK DISCHARGE OF 3.61 CFS PER ACRE AS DEFINED IN THE DRAINAGE STUDY FOR SAD 216 AS PREPARED BY ANDREWS, ASBURY AND ROBERTS. SINCE THIS SITE CONSISTS OF 0.9462 ACRE THE ALLOWABLE DISCHARGE IS 3.41 CFS.



2' RUNDOWN DETAIL (NTS)

