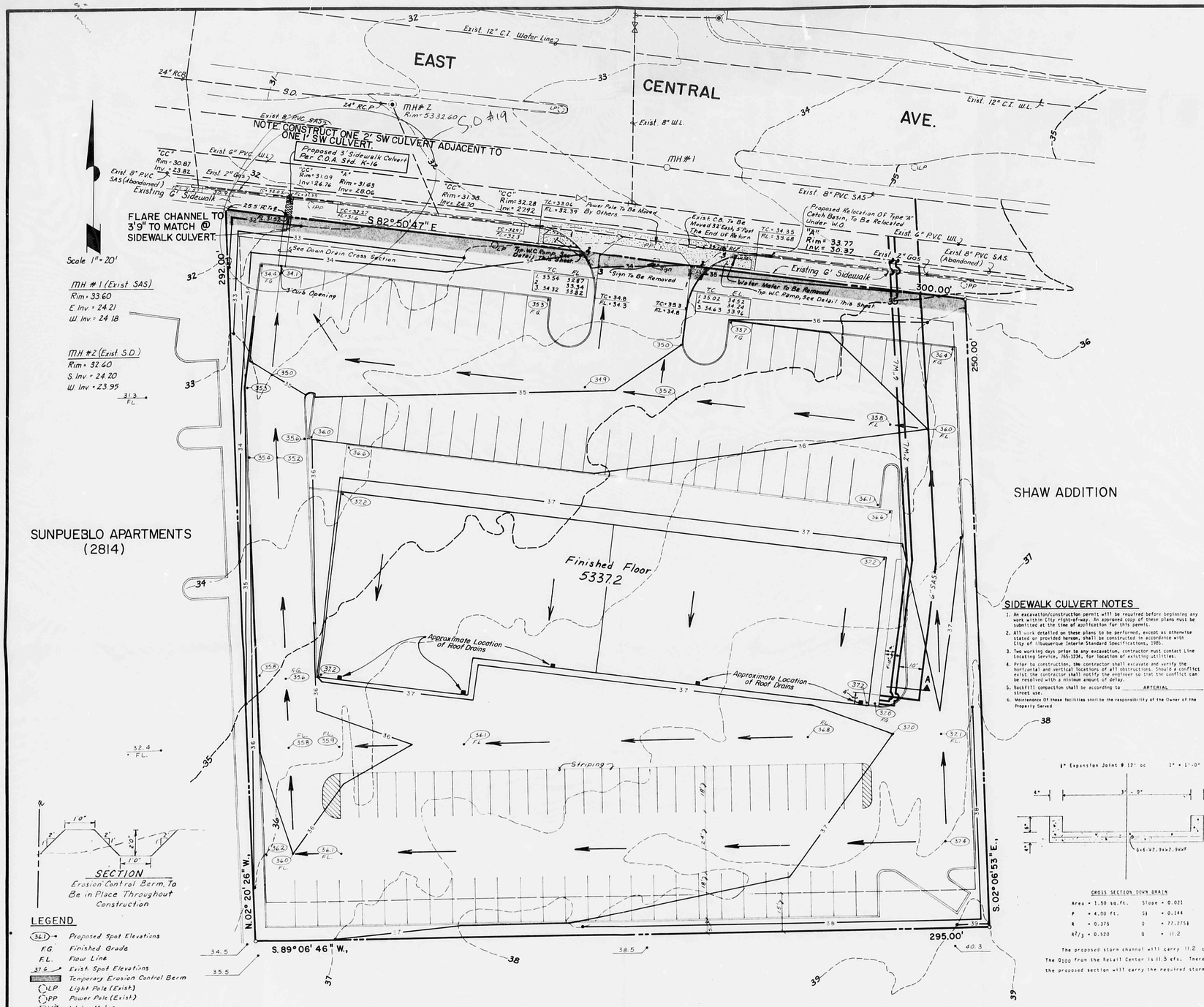
HYDROLOGY

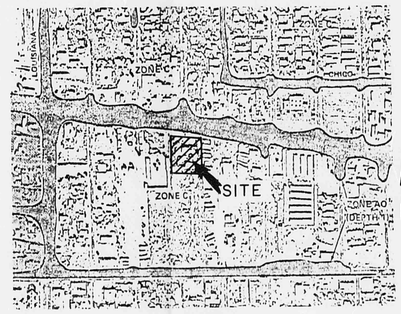
K19/D75
TWO PLANS

K19-D75

2 PLANS



VICINITY MAP
SCALE: 1" = 800'



F.E.M.A.
FLOOD PLAIN MAP
SCALE: 1" = 500'

SIDEWALK CULVERT NOTES

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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.

GENERAL NOTES

The proposed development site consists of approximately 1.851 acres and is located at the Northeast Corner of SunPueblo Apartments, south of Central.

The project consists of the construction of a new building and parking facilities.

Free discharge is requested on the following basis:

1. The site is located in an area that is almost entirely developed.
2. There is an existing storm drain on Central Avenue.
3. There is presently no flooding in the general area. The Fairgrounds Retention System has removed flood plain.
4. The site will have a minimum impact on downstream.

DRAINAGE CALCULATIONS FOR A 100-YEAR, 6-HOUR STORM

DEVELOPED RUNOFF

PROJECT

LOCATION SunPueblo Retail Center

ANALYSIS POINT #

(DR. AREA) A = 1.851 ACRES

T_c = 10 MIN

POINT RAINFALL 2.35 IN. FROM PLATE 22.2 D-1

CN = 92 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 1.35 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. ($T_p = T_c$ Rounded to even minute)

$q_p = \frac{45.4A}{T_p}$ = 8.4 CFS./INCH OF RUNOFF

(R X q_p) = Q_{peak} = 11.3 CFS

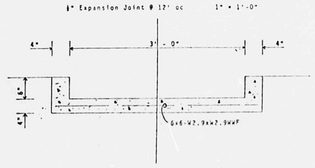
t(COLUMN)=(t/T_p) t=T_p(t/T_p)

$y = \frac{Q}{Q_{peak}}$ Q = y(Q_{peak})

R undeveloped = 0.4 in.
Q undeveloped = 3.4 cfs
V undeveloped = 2700 cf
V developed = 5100 cf
ΔV = 6400 cf
ΔQ = 7.9 cfs

RECEIVED OCT 04 1986 HYDROLOGY SECTION

SPARLING CONST.
S.O. #19



CROSS SECTION DOWN DRAIN

Area = 1.50 sq.ft. Slope = 0.021
P = 4.00 ft. SQ = 0.144
R = 0.375 Q = 77.275Q
$R^{2/3}$ = 0.520 Q = 11.2

The proposed storm channel will carry 11.2 cfs. The Q_{100} from the Retail Center is 11.3 cfs. Therefore, the proposed section will carry the required storm flow.

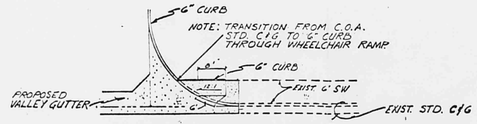
SECTION
Erosion Control Berm. To Be in Place Throughout Construction

LEGEND

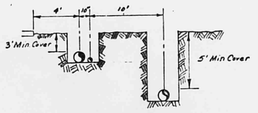
- (361) Proposed Spot Elevations
- F.G. Finished Grade
- F.L. Flow Line
- 37.6 Exist. Spot Elevations
- Temporary Erosion Control Berm
- LP Light Pole (Exist)
- PP Power Pole (Exist)
- WM Water Meter

BENCH MARK DATA

The Station is a Standard A.C.S. Brass Tablet Stamped "7-K19" Located At The Intersection Of Central Ave. & Louisiana Blvd. The Station Is 65.5' East Of The Centerline On Louisiana & 25.7' South Of The Centerline On The West Bound Lanes Of Central; Located On The Nose Of The Median.
Elevation = 5323.308 ft.
Temporary Bench Mark: Manhole #2. Elev = 5332.60



TYPICAL WHEELCHAIR RAMP DETAIL (CENTRAL AVE.)
N.T.S.



Section A
N.T.S.

LEGAL DESCRIPTION

Tract B Of Sunpueblo Apartments
Filed April 9, 1986
Vol. C30, Folio 21.

SUNPUEBLO RETAIL CENTER

GRADING & DRAINAGE PLAN

BENCHMARK:
DESIGNED BY:
DRAWN BY: ELO
CHECKED BY:
CHECKED BY:
REVISIONS

Revised 10-1-86

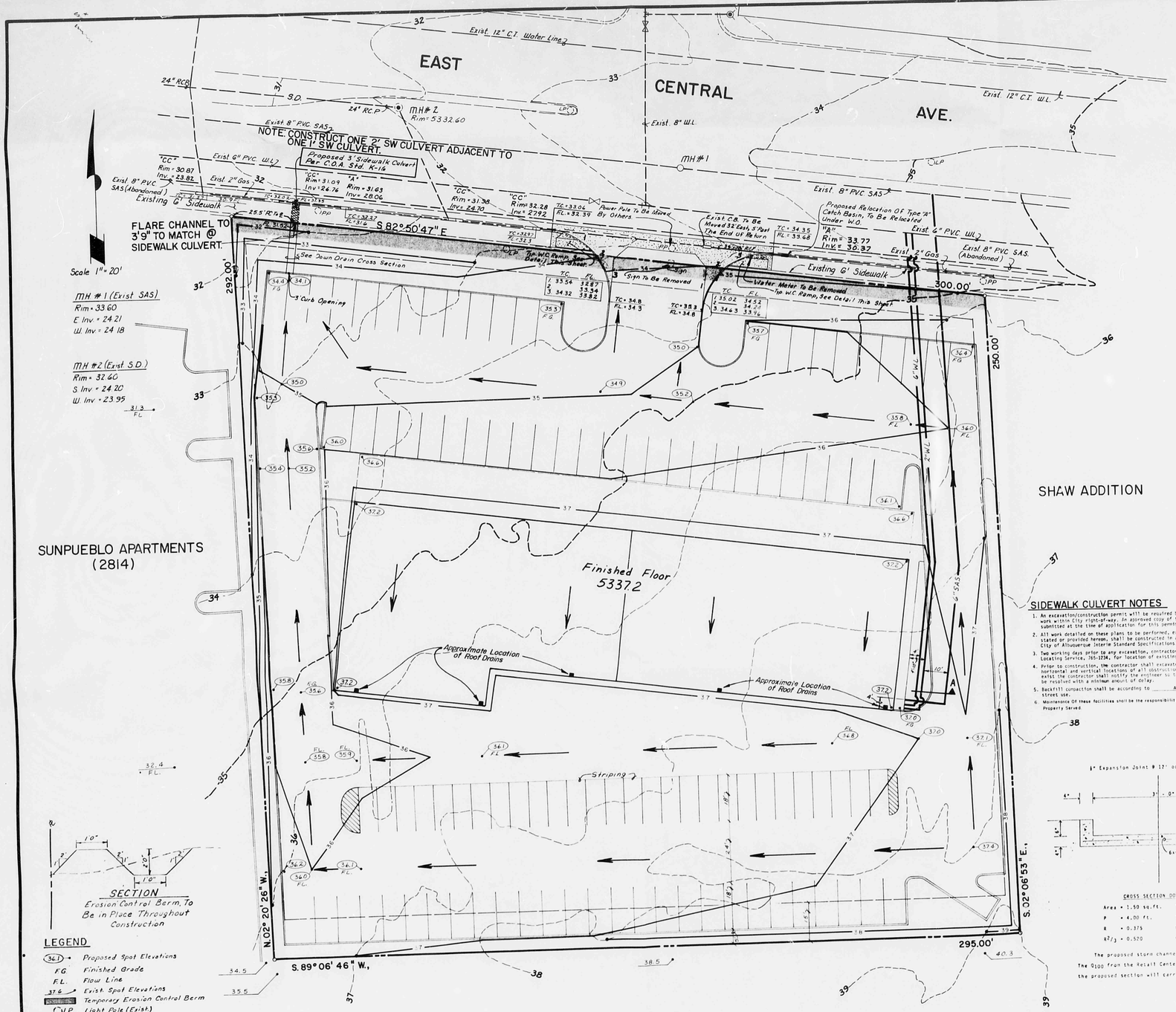
dtm & associates, inc
Consulting Engineers ■ Planners ■ Surveyors
Denney-Tiblas-McLean & Associates, Inc.
2400 COMANCHE ROAD NE ■ ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-0696

APPROVALS	DATE
DESIGN	10/4/86
INSPECTION	12/9/86
CONSTRUCTION ACCEPTANCE	12-12-86

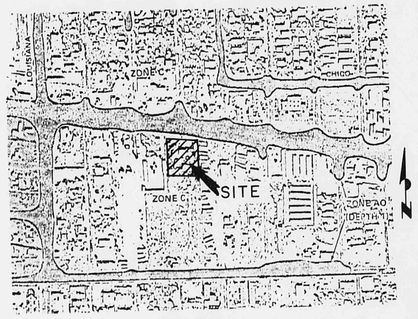
PERMIT # 32212

TYPE DRAWING: PRELIM. ☐ CONST. ☒ RECORD ☐
DATE: JULY 1986
JOB NO. 892.12
SHEET — OF — SHEETS

K19/075



VICINITY MAP
SCALE 1:1800 K-19-Z



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SCALE 1"=500'

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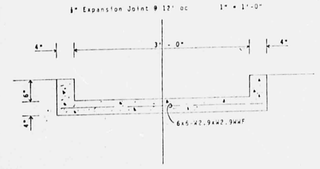

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PROJECT _____

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T_c 10 MIN

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t(COLUMN) $= (t/T_p)$ $t = T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

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RECEIVED OCT 02 1986 HYDROLOGY SECTION

SECTION
Erosion Control Berm, To Be in Place Throughout Construction

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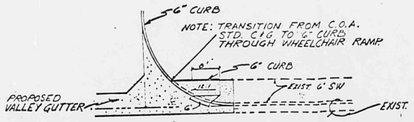

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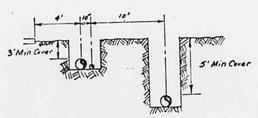

Section A
N.T.S. E.L.O.

LEGAL DESCRIPTION

Tract B Of Sunpueblo Apartments
Filed April 9, 1986
Vol. C30, Folio 21.

APPROVALS	DATE
DESIGN Roger Dean, PE	10/2/86
INSPECTION	
CONSTRUCTION ACCEPTANCE	

BENCHMARK
DESIGNED BY:
DRAWN BY: E.L.O.
CHECKED BY:
CHECKED BY:
REVISIONS

Revised 10-1-86

SUNPUEBLO RETAIL CENTER
GRADING & DRAINAGE PLAN

dtm & associates, inc
Denney-Tiblas-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors
2400 COMANCHE ROAD NE ■ ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-0696

TYPE DRAWING	SHEET
PRELIM. ☐	
CONST. ☒	OF
RECORD ☐	
DATE: JULY 1986	
JOB NO. 892.12	SHEETS