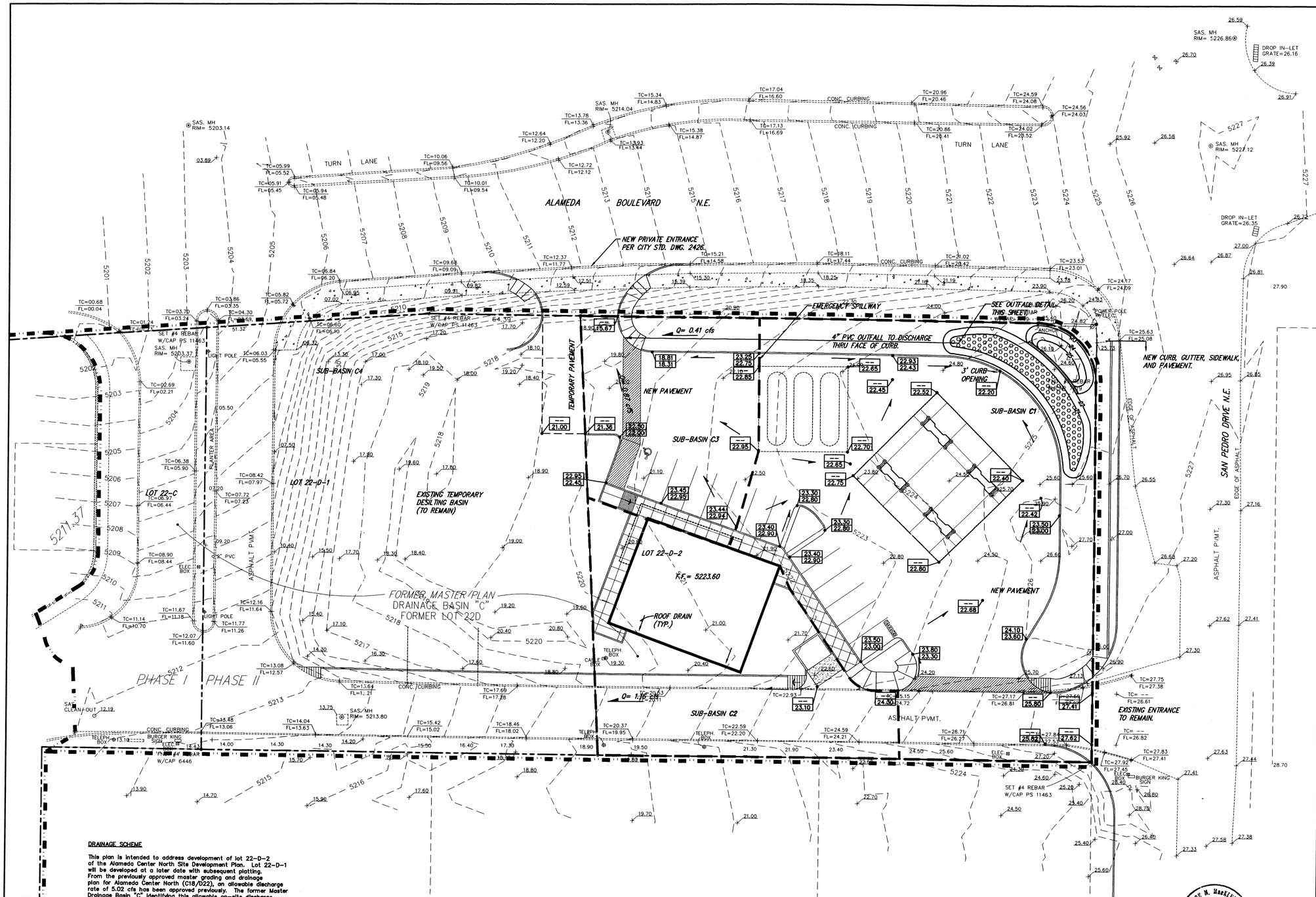
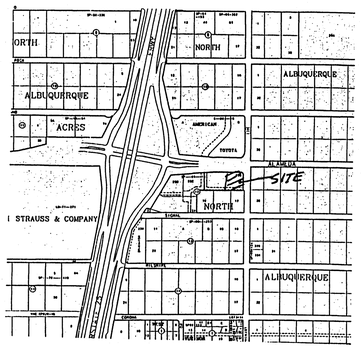



VICINITY MAP ZONE MAP: C-18-Z

TBM (TEMPORARY BENCHMARK)

TOP OF FIRE HYDRANT NORTH OF ALAMEDA AND WEST OF SITE.
ELEV. = 5209.89

NOTES

1. THIS SITE DOES NOT LIE WITHIN A 100-YEAR FLOODPLAIN
2. TOPOGRAPHIC SURVEY PROVIDED BY HARRIS SURVEYING
3. TYPICAL EROSION CONTROL BERMS WILL BE IDENTIFIED AND PRESENTED ON THE FINAL G & D PLAN
4. THE DOWNSTREAM SHOPPING CENTER (C18-D22), AND THOSE ON THE NORTH NORTH SIDE AND IN THE VICINITY OF ALAMEDA BLVD., HAVE BEEN ALLOWED TO DISCHARGE DEVELOPED FLOW AT THE UNDEVELOPED RATE.
5. THIS DEVELOPMENT SHALL ULTIMATELY COMPLY WITH ALL CITY OF ALBUQUERQUE REQUIREMENTS WITH RESPECT TO COLLECTION AND DISPOSAL OF ACCIDENTAL AND INCIDENTAL FUEL SPILLAGE.

LEGAL DESCRIPTION

LOT 22-D-2, BLOCK 12, TRACT A, UNIT B, NAA.

LEGEND

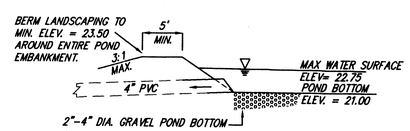
- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING CURB
- TC 66.50 / FL 66.00 — PROPOSED SPOT ELEVATION
- PROPOSED CURB
- FLOW ARROW (TYP)
- ROOF DRAIN (TYP)
- SUB-BASIN DRAINAGE BOUNDARY
- MASTER PLAN DRAINAGE BASIN BOUNDARY
- TIMBER RETAINING WALL
- 2"-4" DIA. GRAVEL POND BOTTOM

**DRAINAGE SCHEME**

This plan is intended to address development of lot 22-D-2 of the Alameda Center North Site Development Plan. Lot 22-D-1 will be developed at a later date with subsequent platting. From the previously approved master grading and drainage plan for Alameda Center North (C18/D22), an allowable discharge rate of 5.02 cfs has been approved previously. The former Master Drainage Basin "C" identifying this allowable on-site discharge extended from eastern portions of lot 22C to San Pedro Blvd. All runoff originating in this Master Drainage Basin "C" discharges into Alameda Blvd via the existing main entrance into Alameda Center North. New sub-basins within Master Drainage Basin "C" will be C1, C2, C3, and C4. The purpose of this plan is to define the allowable discharge for both lots 22-D-1 and 22-D-2. Lot 22-D-2 will be developed into a Circle K convenience store comprising approximately 82% impervious surfaces and 18% irrigated landscape. Its planned development will occupy approximately 0.94 acres of the Master Basin "C" leaving 0.90 acres to remain undeveloped. By taking areal percentages of the total basin size, lot 22-D-2 will be allowed to discharge 2.56 cfs and lot 22-D-1 2.46 cfs, assuming land treatment ratios are the same. As shown on the plan, 1.27 cfs will discharge into Alameda Blvd from sub-basins C1 and C3 while 1.16 cfs will be discharged form sub-basin C2 down the access drive now existing along the south property line. The existing desilting pond within sub-basin C4 will remain until development occurs.

**DRAINAGE CALCULATIONS**

| MASTER PLAN BASIN "C" | LOT 22D-1 | LOT 22D-2 |
|---|---|---|
| AREA= 1.84 Ac. | SUB-BASIN C4 | SUB-BASIN C1, C2, AND C3 |
| P(100-6)= 2.45 IN. | AREA= 0.90 Ac. | AREA= 0.94 Ac. |
| DT= 0.0333 Hr. | LAND TREATMENT: | LAND TREATMENT: |
| Tp= 0.1333 Hr. | B = 18% D = 82% | B = 18% D = 82% |
| LAND TREATMENT: | Q(100-6) = 2.29 cfs | Q(100-6) = 2.29 cfs |
| A=60% B=10% C=0% D=30% | VOL(100-6) = 6,800 c.f. | VOL(100-6) = 6,800 c.f. |
| Q=(100-6)= 5.02 CFS | Q(allowable)= 2.56 cfs | Q(allowable)= 2.56 cfs |
| VOL.(100-6)= 7348 CU.FT. | | |




OUTFALL DETAIL FOR POND "A"

N.T.S.

SCALE: 1" = 20'

6069CK\6069GD20\10-16-96

CIRCLE K – ALAMEDA

CONCEPTUAL GRADING & DRAINAGE PLAN

D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 345-2010

| Designed: JMM | Drawn: MCG | Checked: DMC | Sheet 1 of 1 |
|---|---|---|---|
| Scale: 1" = 20' | Date: 04/96 | Job: 96069 | |