

GENERAL NOTES

1. 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 City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
3. Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to residential street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of property served.

DRAINAGE CALCULATIONS

- REFERENCES:
 - A. SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
 - B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 16 OF 50.
 - C. ZONE ATLAS PAGE F-16-Z.
- GENERAL INFORMATION:
 - A. SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
 - B. 100 YEAR, 6 HOUR RAINFALL CRITERIA
 - C. TIME OF CONCENTRATION, T_c ; $T_c = 0.2$ hr(12 MINUTES).
- IMPERVIOUSNESS:

TREATMENT TYPE	TYPES OF SURFACES	EXISTING SQ.FT	ACRES	PROPOSED SQ.FT	ACRES
A	UNDEVELOPED	0	0.0000	0	0.0000
B	LANDSCAPING	0	0.0000	340	0.0078
C	COMPACTED/VACANT	0	0.0000	0	0.0000
D	IMPERVIOUS	21,187	0.4864	20,847	0.4786
TOTAL AREA (TA)		21,187	0.4864	21,187	0.4864
- PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/Ac	$Q_p(100)$	PROPOSED CFS/Ac	$Q_p(100)$
A	UNDEVELOPED	1.59	0.00	1.59	0.00
B	LANDSCAPING	2.28	0.00	2.28	0.02
C	COMPACTED/VACANT	3.14	0.00	3.14	0.00
D	IMPERVIOUS	4.70	2.29	4.70	2.25
PEAK DISCHARGE FROM SITE		2.29	CFS	2.27	CFS
- PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING CFS/Ac	$Q_p(10)$	PROPOSED CFS/Ac	$Q_p(10)$
A	UNDEVELOPED	0.38	0.00	0.38	0.00
B	LANDSCAPING	0.95	0.00	0.95	0.01
C	COMPACTED/VACANT	1.71	0.00	1.71	0.00
D	IMPERVIOUS	3.14	1.53	3.14	1.50
PEAK DISCHARGE FROM SITE		1.53	CFS	1.51	CFS
- WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):

TREATMENT TYPE	TYPES OF SURFACES	EXISTING E	EXA/TA	PROPOSED E	EXA/TA
A	UNDEVELOPED	0.53	0.00	0.53	0.00
B	LANDSCAPING	0.78	0.00	0.78	0.01
C	COMPACTED/VACANT	1.13	0.00	1.13	0.00
D	IMPERVIOUS	2.12	2.12	2.12	2.09
WEIGHTED "E" FACTOR		2.12	IN	2.10	IN
- VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):

TREATMENT TYPE	EXISTING	PROPOSED
2.12 x 0.4864/12	0.09 AC. FT.	0.09 AC. FT.
3,743 CU.FT.		3,705 CU.FT.
2.10 x 0.4864/12	0.09 AC. FT.	0.09 AC. FT.
3,705 CU.FT.		3,705 CU.FT.

CERTIFICATION

I, R.G. Lee, Jr., Registered Professional Engineer hereby certify the improvements shown hereon are in substantial compliance with the approved drainage plan.

R.G. Lee, Jr.
R.G. LEE, JR.

9/6/96
Date

SURVEY NOTES.

1. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION "M-16", HAVING AN ELEVATION OF 5110.492.
2. BASIS OF BEARINGS IS THE PLAT OF MONTGOMERY COMPLEX, MONTGOMERY HEIGHTS ADDITION, FILED: 03/01/67.

RELEASE BY 4" PIPE

$$Q = CA\sqrt{2gh}$$

g = 32.2 FT/SEC*SES
C = 0.15
D = 4 INCHES
H = 1.00 FT
A = 0.087 SQ FT
Q = 0.11 CSF

LEGEND

- EXISTING CONTOUR
- AS-BUILT-DESIGN-CONTOUR
- AS-BUILT-PROPOSED-SPOT ELEVATION
- PROPERTY LINE
- EASEMENT LINE
- FLOW DIRECTION
- EXISTING SPOT ELEVATION
- DOWN SPOUT (NO TO SCALE)

ABBREVIATION LEGEND

- TCP TOP OF CONCRETE PAVING
- TA TOP OF ASPHALT
- TC TOP OF CURB
- SW SIDEWALK
- FG FINISH GRADE

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF TO LEAVE THE SITE AND ENTERING ADJACENT PROPERTY.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- 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.

HYDROGRAPH

Time to Peak-T(p)
T(c) = 0.20 Hr
A(d) = 0.4786 Acres
A(t) = 0.4864 Acres
 $T(p) = 0.7 \cdot T(c) + (1.6 \cdot A(d)/A(t))/12$
T(p) = 0.19 Hr
Base Time-T(b)
A(t) = 0.4864 Acres
Q(p) = 1.51 CFS
A(d) = 0.4786 Acres
E = 1.038 Weighted "E"
 $T(t) = 2.017 \cdot E \cdot A(t)/Q(p) - 0.25 \cdot A(d)/A(t)$
T(t) = 0.4284 Hr
25.70 Min

CURVE DATA

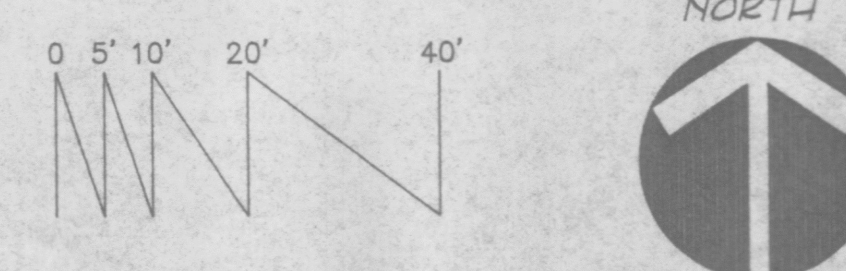
C1
R=423.29'0"
DELTA= 16° 55' 11"
L= 125.00'
CH= N 18° 55' 27" E, 124.55'

C2
R=1367.50'
DELTA= 07° 20' 12"
L= 175.11'
CH= N 57° 44' 38" W, 174.99'

ACCESSIBLE ROUTE
THE ACCESSIBLE ROUTE IS A PATH CONNECTING ALL ACCESSIBLE ELEMENTS AND SPACES WITHIN A SITE, BUILDING OR FACILITY THAT IS USABLE BY PERSONS WITH PHYSICAL DISABILITIES. IN THIS FACILITY THE ACCESSIBLE ROUTE CONSISTS OF WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, RAMPS WITH A SLOPE NOT STEEPER THAN 1:12, HO PARKING SPACES AND ACCESS AISLES WITH A SLOPE NOT GREATER THAN 1:48 IN ANY DIRECTION AND CLEAR FLOOR SPACE FOR ACCESSIBLE ELEMENTS. CROSS SLOPES SHALL NOT EXCEED 1:48.

AS-BUILT GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

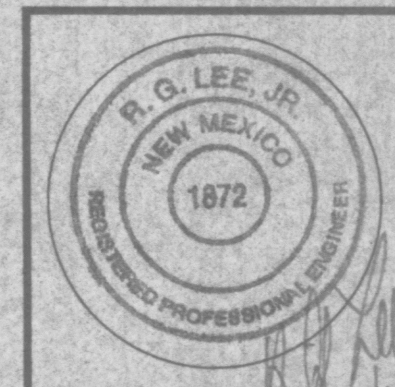


POND VOLUME PROVIDED

CONTOUR	AREA	VOL
3.75	4,952	
3.00	2,672	2,537
2.45	250	773
TOTAL		3,310 CU.FT.

LEGAL DESCRIPTION

TRACT "C", MONTGOMERY COMPLEX
MONTGOMERY HEIGHTS ADDITION
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO



Diamond Shamrock Corner Store for
Rio Grande Oil Co.
3205 MONTGOMERY BLVD. NE ALBUQUERQUE, NEW MEXICO

KEN HOVEY, ARCHITECT
1605 255-9400 • FAX 1605 255-4756 • 3008 9405 AVE. SE • ALBUQUERQUE, NM • 87108

JOB NO: 9520
DATE: 12 FEBRUARY 1996
REVISIONS

SHEET NO.
C-2