Drainage Plan

Super 8 Motel Addition

Location and Existing Condition:

The site is located at the southeast corner of the intersection of University Boulevard and Claremont Avenue containing approximately 1.05 acres (limits of building and parking addition). The site is presently developed and slopes from the north to the south with an average slope of 1.2 percent. Flows from the site currently discharge directly to University Boulevard and to the property south of the site. This runoff is intercepted by a 72" RCP storm sewer located south of the site. The 72" storm sewer has a capacity of 479 cfs flowing full (AMDS). The existing 100-year runoff to the storm sewer is 141 cfs. Therefore, the proposed development will be allowed to free discharge storm runoff since downstream capacity exists.

Off-site runoff has minimal impact on the proposed development. The property to the north of the site contributes approximately 1.7 cfs. Other adjacent areas east, west and south are prevented from contributing runoff to the site by existing elevations.

Proposed Condition:

Proposed development of the site includes a new building addition with associated parking and landscaping. All on site runoff will be diverted around the new building addition and transported as surface flows through the parking areas to the southwest portion of the site. This runoff will be intercepted by the inlets along University Boulevard transporting flows to the 72" RCP storm sewer.

CALCULATIONS: (within limits shown)

Area = 1.05 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
i = (2.2)(2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

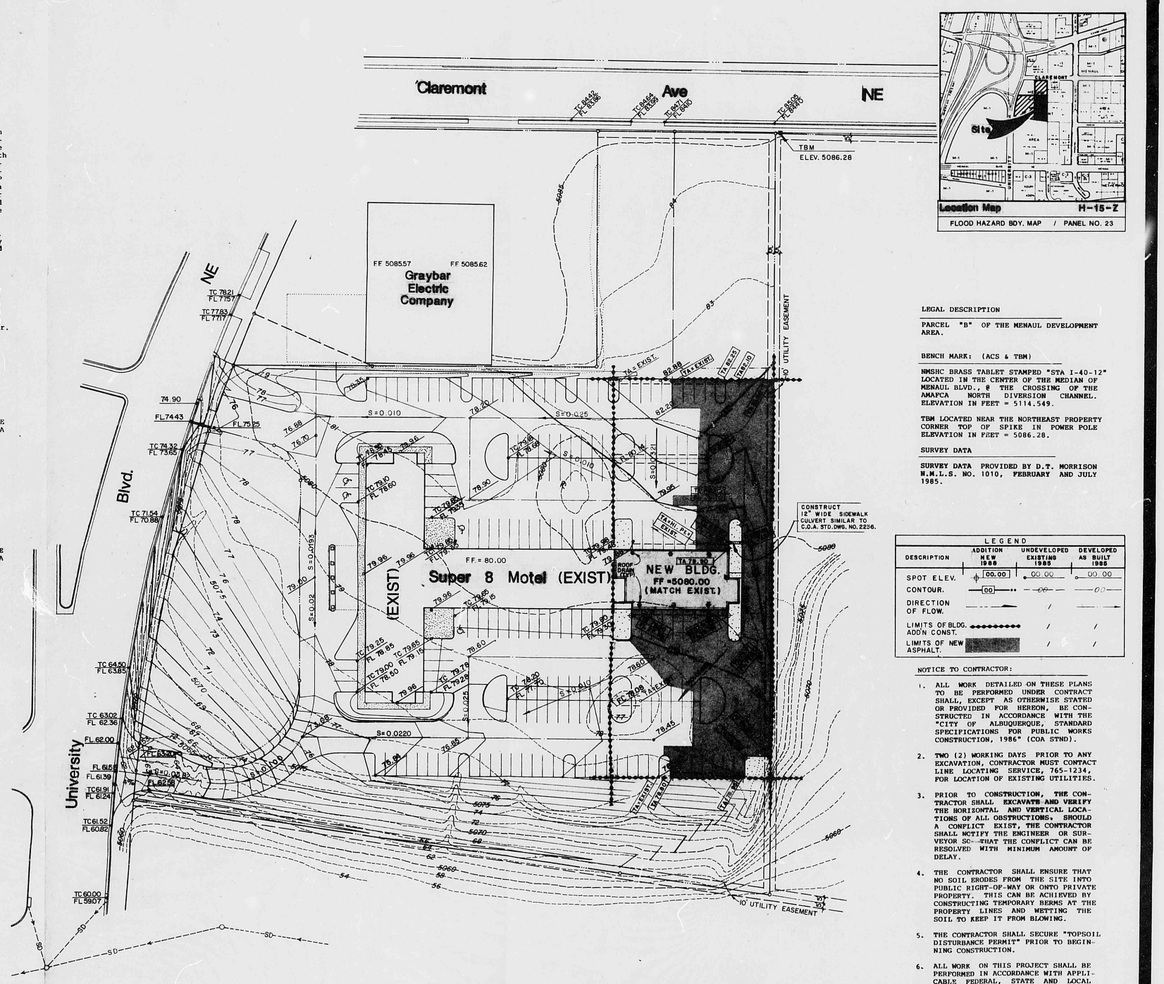
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.49	0.47	
Roofs	0.90	0.01	0.01	
Lawns & Landscaping	0.25	0.04	0.01	
Undeveloped	0.40	0.51	0.20	
TOTAL		1.05	0.69	0.66

Q(100) = (0.66)(4.84)(1.05) = 3.35 cfs
Q(10) = (0.657)(3.35) = 2.20 cfs
CN = 85 Plate 22.2 C-2
Direct Runoff = 1.0 in. Plate 22.2 C-4
V(100) = (1.0)(1.05)(43560)/12 = 3812 cu. ft.
V(10) = (0.657)(3812) = 2504 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.87	0.83	
Roofs	0.90	0.15	0.14	
Lawns & Landscaping	0.25	0.03	0.01	
Undeveloped	0.40	0	0	
TOTAL		1.05	0.98	0.93

Q(100) = (0.93)(4.84)(1.05) = 4.73 cfs
Q(10) = (0.657)(4.73) = 3.11 cfs
CN = 95 Plate 22.2 C-3
Direct Runoff = 1.7 in. Plate 22.2 C-4
V(100) = (1.7)(1.05)(43560)/12 = 6480 cu. ft.
V(10) = (0.657)(6480) = 4257 cu. ft.


Claremont Ave NE
University Blvd.
Graybar Electric Company
FF 508557
FF 508562
Super 8 Motel (EXIST)
(EXIST)
NEW BLDG.
FF=5080.00
(MATCH EXIST.)
FF=80.00
TBM
ELEV. 5086.28
10' UTILITY EASEMENT
CONSTRUCT 18' WIDE SIDEWALK CULVERT SIMILAR TO C.O.A. STD.DWG. NO. 2236.
S=0.010
S=0.025
S=0.0220
S=0.0053
S=0.0100
S=0.0200
S=0.0150
S=0.0250
S=0.0300
S=0.0200
S=0.0100

Drainage Plan

Super 8 Motel Addition

Location and Existing Conditions:

The site is located at the southeast corner of the intersection of University Boulevard and Claremont Avenue. Consisting approximately 1.05 acres (limits of Building and parking addition). The site is presently developed and slopes from the north to the south with an average slope of 1-2 percent. Flows from the site presently discharge directly to University Boulevard and to the property south of the site. This runoff is intercepted by a 72" storm sewer located south of the site. The 72" storm sewer has a capacity of 476 cfs flowing full (MGS). The existing 10-year runoff to the storm sewer is 141 cfs. Therefore, the proposed development will be allowed to free discharge storm runoff since downstream capacity exists.

Off-site runoff has minimal impact on the proposed development. The property to the north of the site contributes approximately 7.7 cfs. Other adjacent areas east, west and south are prevented from contributing runoff to the site by existing elevations.

Proposed Conditions:

Proposed development of the site includes a new building addition with associated parking and landscaping. All on-site runoff will be diverted around the new building addition and transported in surface flows through the parking areas to the southwest portion of the site. This runoff will be intercepted by the inlet at the University Boulevard transporting flows to the 72" MCS storm sewer.

CALCULATIONS: (within limits shown)

Area = 1.05 acres
I = 2.2 in/hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
$V_{100} = (2.2)(1.2)/12 = 0.44$ in. hr.

EXISTING-SITE CONDITIONS:

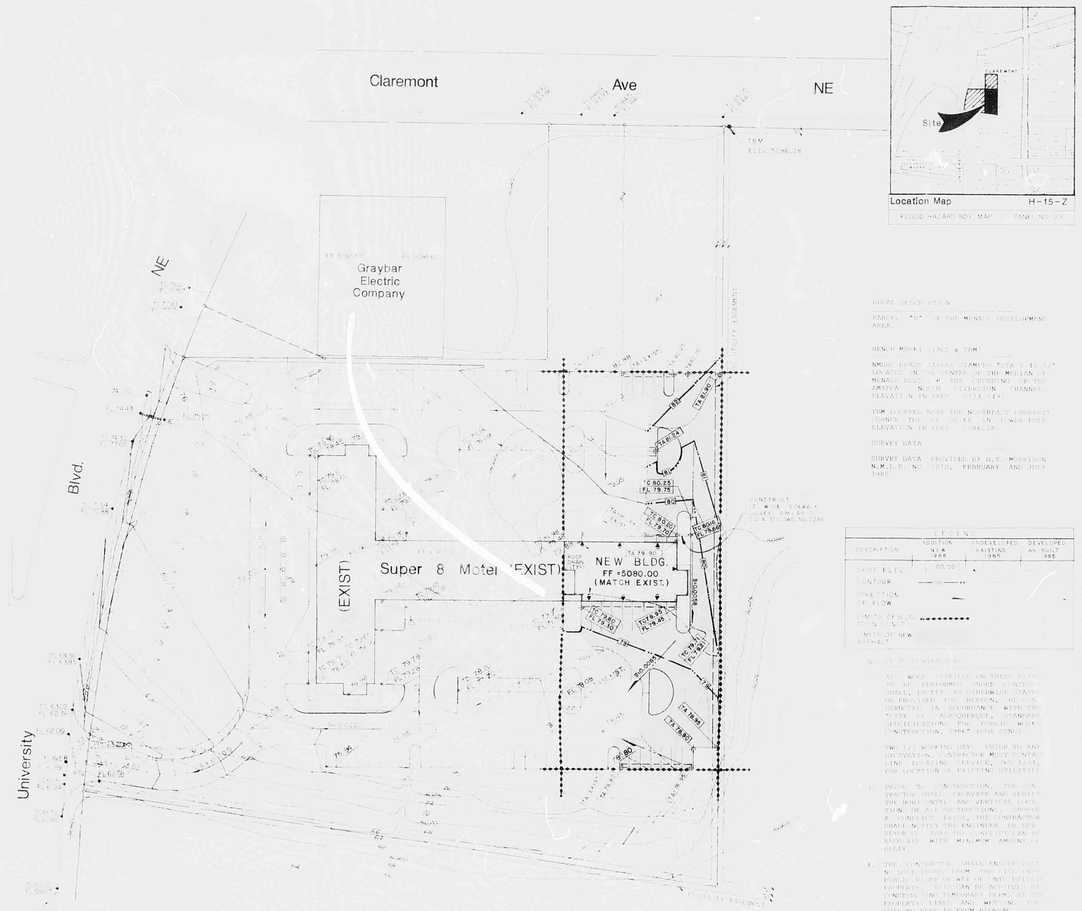
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x"A"	"C" WEIGHTED "C"x"A"/A
Streets, Drives, Walks	0.95	0.42	0.40	
Roofs	0.90	0.01	0.01	
Lawns & Landscaping	0.25	0.62	0.16	
Undeveloped	0.40	0.00	0.00	
TOTAL		1.05	0.57	0.54

$Q(100) = (0.54)(4.84)(1.05) = 3.15$ cfs
$Q(10) = (0.45)(3.4)(1.05) = 2.20$ cfs
IN = 85 Plate 22.2 C-4
Direct Runoff = 7.0 cfs Plate 22.2 C-4
$V(100) = (3.0)(1.0)(14400)/12 = 3600$ cu. ft.
$V(10) = (2.0)(1.0)(14400)/12 = 2500$ cu. ft.

PROPOSED-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x"A"	"C" WEIGHTED "C"x"A"/A
Streets, Drives, Walks	0.95	0.63	0.60	
Roofs	0.90	0.14	0.14	
Lawns & Landscaping	0.25	0.01	0.01	
Undeveloped	0.40	0.00	0.00	
TOTAL		1.05	0.75	0.71

$Q(100) = (0.71)(4.84)(1.05) = 4.71$ cfs
$Q(10) = (0.61)(3.4)(1.05) = 2.18$ cfs
IN = 85 Plate 22.2 C-4
Direct Runoff = 7.0 cfs Plate 22.2 C-4
$V(100) = (7.0)(1.0)(14400)/12 = 6100$ cu. ft.
$V(10) = (6.0)(1.0)(14400)/12 = 4700$ cu. ft.



Grading and Drainage Plan
1" = 40'

LEGAL DESCRIPTION

PARCEL "B" OF THE MENAUL DEVELOPMENT AREA.

BENCH MARK: (ACS & DRM)

MSGS: (DRM) THIS BENCHMARK IS A BRASS CAP LOCATED IN THE CENTER OF THE MEDIAN OF MENAUL BLVD. AT THE CROSSING OF THE AMTRAK TRACKS. (LONGITUDE N. BRANCH) ELEVATION IS 5077.049.

DRM (LOCATED NEAR THE NORTHEAST PROPERTY CORNER. TOP OF BRASS IN POWER POLE) ELEVATION IS 5080.0026.

SURVEY DATA

SURVEY DATA PROVIDED BY DUT MORRISON N.M.L.S. NO. 7036, FEBRUARY AND JULY 1985.

LEGEND			
DESCRIPTION	ADDITION NEW 1985	UNDEVELOPED EXISTING 1985	DEVELOPED AS BUILT 1985
FIRST ELEV.	00.00		
CONTOUR			
DIRECTION OF FLOW			
SPOT ELEVATION			
LIMITS OF NEW ASPHALT			

NOTES FOR CONSTRUCTION:

1. ALL WORK TO BE DONE ON THESE PLANS IS TO BE PERFORMED UNDER A CITY PERMIT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, AND IS TO BE CONDUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, 1986 EDITION.

2. TWO-CALL NOTIFICATION PRIOR TO ANY CONSTRUCTION. CONTACTOR MUST CONTACT LINE LOCATION SERVICES, 766-7215, FOR LOCATION OF EXISTING UTILITIES.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL CONSTRUCTION. IF ANY CONFLICTS EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD SO THE PLAN CAN BE REVISED WITH MINIMUM AMOUNT OF DELAY.

4. THE CONTRACTOR SHALL ENSURE THAT NO DIRT, DEBRIS FROM THE CONSTRUCTION PUBLIC RIGHT-OF-WAY OR NON-PUBLIC PROPERTY. THIS CAN BE ACHIEVED BY SWEEPING, WATERING, BLOWING, ETC. OF PROPERTY, LIGHT AND WATERING THE SOIL TO KEEP IT FROM BLOWING.

5. THE INSPECTOR SHALL ISSUE "FOUND IMPROVEMENTS PERMIT" PRIOR TO CONSTRUCTION.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS GOVERNING CONSTRUCTION SAFETY AND HEALTH.

7. CONTRACTOR SHALL PROVIDE 12" SOIL GRADE INFORMATION INSIDE ALL NEW BUILDINGS, CURB AND GUTTER, CURB OUTLETS AND PARKING LOT FINISH.

8. WHEN ADJOINING NEW PAVEMENT TO EXISTING, MATCH EXISTING PAVEMENT THICKNESS AND ASPHALT LINE. ADJUST TO PROVIDE SMOOTH TRANSITION TO PROVIDE DRAINAGE.

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE • Suite A Albuquerque, NM 87108 505/255-4973

An Addition
to
Super 8 Motel
Claremont/University Blvd. NE
Albuquerque, New Mexico

C2

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

LEGIBILITY NOTICE:
THIS MICROIMAGE IS THE BEST AVAILABLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the PUBLIC WORKS DEPARTMENT - DRAINAGE DIVISION and was filmed in the normal course of business. The photographic processes used meet the Basic Microfilm Standards of the National Micrographics Association (NMA-1972).

CITY CLERK RECORDER

OFFICIAL SEAL
NORMITA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F

Drainage Plan

Super 8 Truck Parking Lot

Location and Existing Condition:

The site is located at the southeast corner of the intersection of University Boulevard and Claremont Avenue containing approximately 0.70 acres (limits of truck parking addition). The site is presently developed and slopes from the north to the south with an average slope of 1.2 percent. Flows from the site currently discharge to the property south of the site and are directed to University Boulevard. This runoff is intercepted by a 72" RCP storm sewer located south of the site. The 72" storm sewer has a capacity of 479 cfs flowing full (AMDS). The existing 100-year runoff to the storm sewer is 141 cfs. Therefore, the proposed development will be allowed to free discharge storm runoff since downstream capacity exists and a private drainage easements between Parcels "A", "B" and "C" has been executed.

Off-site runoff has minimal impact on the proposed development. The property to the west of the site contributes approximately 3.0 cfs. Other adjacent areas east, north and south are prevented from contributing runoff to the site by existing elevations.

Proposed Condition:

Proposed development of the site includes a new truck parking lot. All on site runoff will be transported as surface flows through the parking area to the south portion of the site and routed through Parcel "A" to University Boulevard. This runoff will be intercepted by the inlets along University Boulevard transporting flows to the 72" RCP storm sewer.

CALCULATIONS:

Area = 0.70 acres
i = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
i = (2.2)(2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

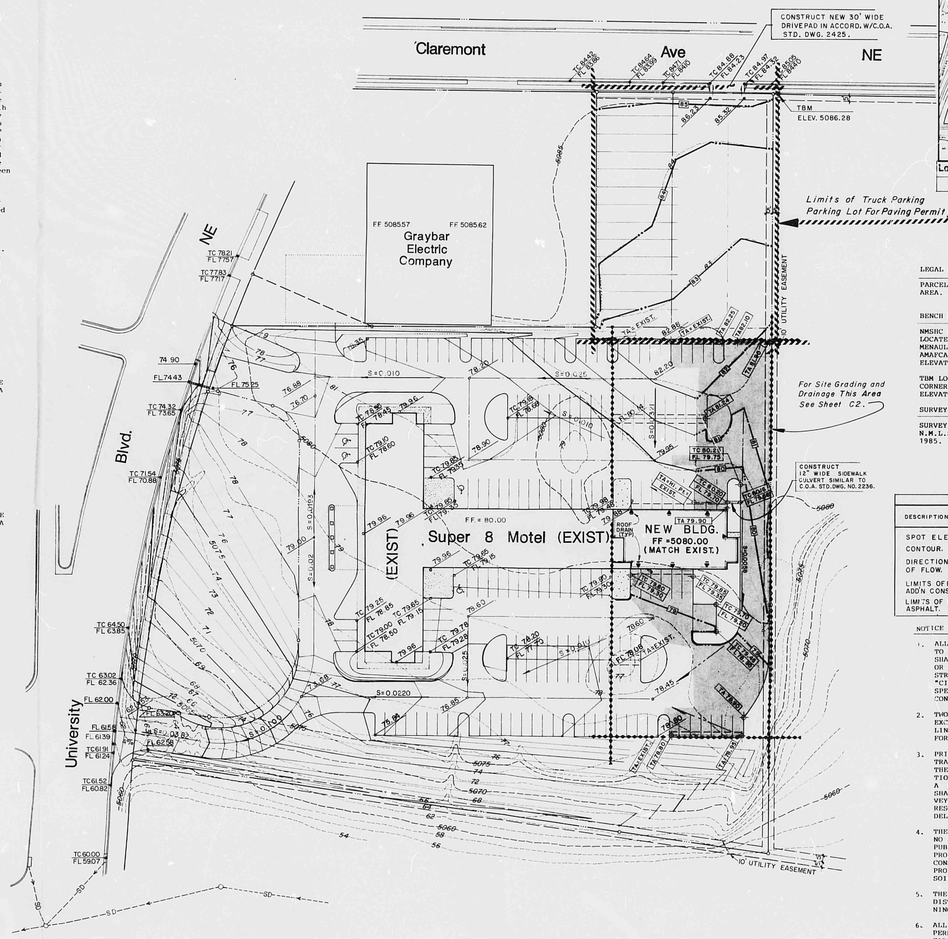
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0	0	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0	0	
Undeveloped	0.40	0.70	0.28	
TOTAL		0.70	0.28	0.40

Q(100) = (0.40)(4.84)(0.70) = 1.36 cfs
Q(10) = (0.65)(1.36) = 0.89 cfs
CN = 80 Plate 22.2 C-2
Direct Runoff = 0.70 in. Plate 22.2 C-4
V(100) = (0.70)(0.70)(43560)/12 = 1779 cu. ft.
V(10) = (0.65)(1779) = 1169 cu. ft.

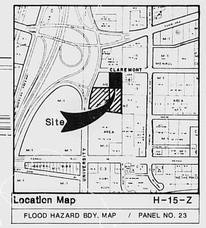
PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	COMPOSITE "C"=CXA/A
Streets, Drives, Walks	0.95	0.70	0.67	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0	0	
Undeveloped	0.40	0	0	
TOTAL		0.70	0.67	0.95

Q(100) = (0.95)(4.84)(0.70) = 3.22 cfs
Q(10) = (0.65)(3.22) = 2.11 cfs
CN = 98 Plate 22.2 C-1
Direct Runoff = 1.95 in. Plate 22.2 C-4
V(100) = (1.95)(0.70)(43560)/12 = 4955 cu. ft.
V(10) = (0.65)(4955) = 3255 cu. ft.



Grading and Drainage Plan
1" = 40'



LEGAL DESCRIPTION

PARCEL "B" & "C" OF THE MENAUL DEVELOPMENT AREA.

BENCH MARK: (ACS & TBM)

NMSHC BRASS TABLET STAMPED "STA I-40-12" LOCATED IN THE CENTER OF THE MEDIAN OF MENAUL BLVD., @ THE CROSSING OF THE AMAFCA NORTH DIVERSION CHANNEL. ELEVATION IN FEET = 5114.549.

TBM LOCA NEAR THE NORTHEAST PROPERTY CORNER OF SPIKE IN POWER POLE ELEVATION IN FEET = 5086.28.

SURVEY DATA

SURVEY DATA PROVIDED BY D.T. MORRISON N.M.L.S. NO. 1010, FEBRUARY AND JULY 1985.

LEGEND

DESCRIPTION	ADDITION NEW 1988	UNDEVELOPED EXISTING 1985	DEVELOPED AS BUILT 1988
SPOT ELEV.	+ 00.00	+ 00.00	+ 00.00
CONTOUR.	00		
DIRECTION OF FLOW.			
LIMITS OF BLDG. ADD'N CONST.		/	/
LIMITS OF NEW ASPHALT.		/	/

NOTICE TO CONTRACTOR:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986" (COA STWD).
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. 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 OR SURVEYOR(S) THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
7. CONTRACTOR SHALL PROVIDE 12" SUBGRADE SEPARATION UNDER ALL NEW PAVEMENT, CURBS AND GUTTERS, VALLEY GUTTERS AND CONCRETE FILLETS.
8. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING.

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE - Suite A Albuquerque, NM 87108 505/255-4975

Parking Lot
for
Super 8 Motel
2500 University Blvd. NE
Albuquerque, New Mexico

Project Title

Drawn By	CG	Checked By	CG
Project No.	8803	Date	3/1/88

Revisions Architect Engineer

DRAINAGE PLAN

RECEIVED MAR 21 1988 HYDROLOGY SECTION

C2.1

Sheet Title Sheet 8 of 4

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

FR 21 DATE 2-24-92 OP ESP
CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the PUBLIC WORKS DEPARTMENT - HYDROLOGY DIVISION and was filmed in the normal course of business. The photographic processes used meet the Basic Microfilm Standards of the National Micrographics Association (NMA) (MS115-1977).
CITY CLERK RECORDER
OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires May 8, 1992

F 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F

Drainage Plan

Super 8 Truck Parking Lot

Location and Existing Conditions:

The site is located at the southeast corner of the intersection of University Boulevard and Claremont Avenue, containing approximately 0.70 acres (limits of truck parking addition). The site is presently developed and slopes from the north to the south with an average slope of 1.2 percent. Flows from the site currently discharge to the property south of the site and are directed to University Boulevard. This runoff is intercepted by a 72" RCP storm sewer located south of the site. The 72" storm sewer has a capacity of 479 cfs flowing full (Q100). The existing 100-year runoff to the storm sewer is 141 cfs. Therefore, the proposed development will be allowed to free discharge from runoff since downstream capacity exists and a private drainage easement between parcels "A", "B" and "C" has been executed.

Off-site runoff has minimal impact on the proposed development. The property to the west of the site contributes approximately 5.0 cfs. Other adjacent areas east, north and south are prevented from contributing runoff to the site by existing elevations.

Proposed Condition:

Proposed development of the site includes a new truck parking lot. All on-site runoff will be transported as surface flow through the parking area to the south portion of the site and routed through Parcel "A" to University Boulevard. This runoff will be intercepted by the inlets along University Boulevard transporting it free to the 72" RCP storm sewer.

CALCULATIONS:

Area = 0.70 acres
T_c = 10 min. Plate 22.2 D-2
5-hour, 100 year rainfall = 2.7 in. Plate 22.2 D-3
i = (2.7)(1.2) = 3.24 in./hr.

EXISTING ON-SITE CONDITIONS:

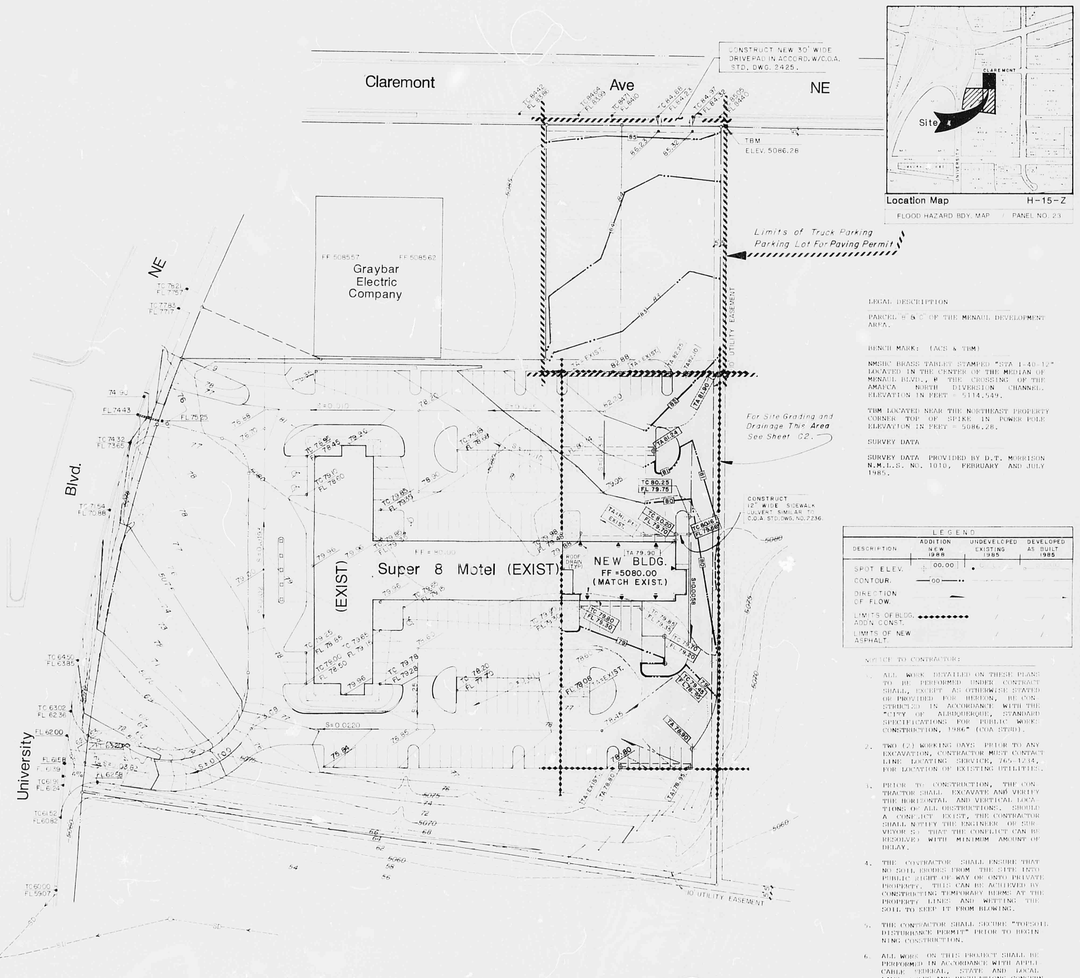
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x A	COMPOSITE "C" = ΣCA/A
Streets, Drives, Walks	0.95	0	0	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0	0	
Undeveloped	0.40	0.70	0.28	
TOTAL		0.70	0.28	0.40

Q(100) = (0.40)(3.24)(0.70) = 3.56 cfs.
Q(10) = (0.67)(3.56) = 2.39 cfs.
"N" = 80 Plate 22.2 C-2
Direct Runoff = 0.70 in. Plate 22.2 C-4
V(100) = (0.70)(0.70)(43560)/12 = 1729 cu. ft.
V(10) = (0.67)(1729) = 1159 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x A	COMPOSITE "C" = ΣCA/A
Streets, Drives, Walks	0.95	0.28	0.27	
Roofs	0.90	0	0	
Lawns & Landscaping	0.25	0	0	
Undeveloped	0.40	0	0	
TOTAL		0.28	0.27	0.95

Q(100) = (0.95)(3.24)(0.28) = 2.22 cfs.
Q(10) = (0.67)(2.22) = 2.11 cfs.
"N" = 95 Plate 22.2 C-2
Direct Runoff = 1.95 in. Plate 22.2 C-4
V(100) = (1.95/12)(0.28)(43560) = 4905 cu. ft.
V(10) = (0.67)(4905) = 3285 cu. ft.



Grading and Drainage Plan
1" = 40'

LEGAL DESCRIPTION

PARCEL B & C OF THE MENAUL DEVELOPMENT AREA.

BENCH MARK: LACS & TBM1

NGSBC BRASS TABLET STAMPED "STA 1-40-12" LOCATED IN THE CENTER OF THE MEDIAN OF MENAUL BLVD., @ THE CROSSING OF THE AMAFCA NORTH DIVERSION CHANNEL. ELEVATION IN FEET = 5114.549.

TBM LOCATED NEAR THE NORTHEAST PROPERTY CORNER TOP OF SPIKE IN POWER POLE ELEVATION IN FEET = 5086.28.

SURVEY DATA

SURVEY DATA PROVIDED BY D.T. MORRISON N.M.L.S. NO. 1010, FEBRUARY AND JULY 1985.

LEGEND

DESCRIPTION	ADDITION NEW 1988	UNDEVELOPED EXISTING 1985	DEVELOPED AS BUILT 1985
SPOT ELEV.	00.00	•	
CONTOUR	00		
DIRECTION OF FLOW			
LIMITS OF BLDG. ADDN CONST.			
LIMITS OF NEW ASPHALT			

NOTICE TO CONTRACTORS:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, 1986" (COA STDS).

2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

3. 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 OR SUPERVISOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL DEBRIS FROM THE SITE EXTO PUBLIC RIGHT OF WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

5. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

7. CONTRACTOR SHALL PROVIDE 12" SUBGRADE SEPARATION UNDER ALL NEW PAVEMENT, CURBS AND GUTTERS, VALLEY GUTTERS AND CONCRETE FILLETS.

8. WHEN ATTACHING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS NEARLY TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING.

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE · Suite A Albuquerque, NM 87108 505/255-4975

Parking Lot
for
Super 8 Motel
2500 University Blvd. NE
Albuquerque, New Mexico

Project I.D.#

Date: 6/1/88 Drawn: CG
Scale: 1"=40' Checked: KGA

Revisions Initialed Approval

DRAINAGE PLAN

C2.1

Sheet I.D.# Sheet Total

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

FR 21 DATE 3/4/88 REF 42

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the PUBLIC WORKS DEPARTMENT - HYDROLOGY DIVISION and was filmed in the normal course of business. The photographic processes used meet the Basic Microfilm Standards of the National Micrographics Association (NMA) (1977).

CITY CLERK RECORDER

OFFICIAL SEAL
NORMETA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: May 8, 1989

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F

HYDROLOGY

H15/D4

ONE PLAN

1 PLAN FOR

VAGABOND HOTEL

H15-D4

DRAINAGE REPORT

SUPER 8 MOTEL

THE STUDY SITE IS LOCATED ON THE SOUTHEAST CORNER OF THE INTERSECTION OF UNIVERSITY BLVD. AND CLAREMONT AVE. CONTAINING APPROXIMATELY 5.487 ACRES. THE SITE IS PRESENTLY UNDEVELOPED AND SLOPES FROM NORTH TO SOUTH WITH AN AVERAGE SLOPE OF 3.2 PERCENT. FLOWS FROM THE SITE DISCHARGE DIRECTLY TO UNIVERSITY BLVD. AND TO THE PROPERTY SOUTH OF THE SITE. THIS RUNOFF IS INTERCEPTED BY A 72" R.C.P. LOCATED SOUTH OF THE SITE. THE SLOPE OF THE 72" STORM SEWER IS 1.7 PERCENT AND THE CAPACITY IS 479 CFS (A.M.D.S.). THE EXISTING 100-YEAR DISCHARGE TO THE STORM SEWER IS 141 CFS; THEREFORE, THE PROPOSED SITE WILL BE ALLOWED TO DISCHARGE ITS FLOWS INTO THIS STORM SEWER SINCE THE CAPACTIY EXISTS.

OFF-SITE FLOWS HAVE MINIMAL IMPACT ON THE PROPOSED DEVELOPMENT. THE PROPERTY TO THE NORTHWEST OF THE SITE CONTRIBUTES APPROXIMATELY 0.32 CFS. OTHER ADJACENT AREAS NORTH, SOUTH, EAST AND WEST ARE PREVENTED FROM CONTRIBUTING FLOWS TO THE SITE BY EXISTING ELEVATIONS. ALL ON-SITE FLOWS WILL BE DIVERTED AROUND THE PROPOSED BUILDING AND BE TRANSPORTED AS SURFACE FLOWS THROUGH THE PARKING AREAS AND LANDSCAPING TO THE SOUTHWEST PORTION OF THE SITE. THIS RUNOFF WILL BE INTERCEPTED BY THE 2'X7' DROP INLET, LOCATED SOUTH OF THE DRIVEPAD, WHICH IS CONNECTED TO THE 72" STORM SEWER BY AN 18" R.C.P.

IF CONSTRUCTED AS PROPOSED, THE NEW DEVELOPMENT WILL NOT BE SUSCEPTIBLE TO FLOODING NOR INCREASE THE THREAT OF FLOODING IN DOWNSTREAM AREAS IN THE EVENT OF A 100-YEAR STORM.

CALCULATIONS:

EXISTING 100-YEAR DISCHARGE TO 72" R.C.P.:
SOIL SERIES = Cu
HYDROLOGIC SOIL GROUP = A
WATERSHED AREA = 54 ACRES
Tc = 10 MIN.
i = 2.2 IN./HR. PLATE 22.2 D-2
6-HR. RAINFALL = 2.2 IN PLATE 22.2 D-1
i = (2.2)(2.2) = 4.84 IN./HR.
PERCENT IMPERVIOUS = 70%
C = 0.56 PLATE 22.2 C-1
Q(100) = (0.56)(4.84)(54) = 141 CFS

CAPACITY OF 72" R.C.P.:
n = 0.015, S = 0.017
$Q = 0.463\ (6)^{2.67}\ (0.017)^{0.5}/0.015 = 478$ CFS

EXISTING ON-SITE CONDITION:
AREA = 5.487 ACRES
PERCENT IMPERVIOUS = 0%
C = 0.16 PLATE 22.2 C-1
Q(100) = (0.16)(4.84)(5.487) = 4.25 CFS
Q(10) = (4.25)(0.657) = 2.79 CFS
CN = 70 PLATE 22.2 C-2
DIRECT RUNOFF = 0.4 IN. PLATE 22.2 C-4
V(100) = (0.4)(5.487)(43560)/12 = 7967 CU. FT.
V(10) = (7967)(0.657) = 5234 CU. FT.

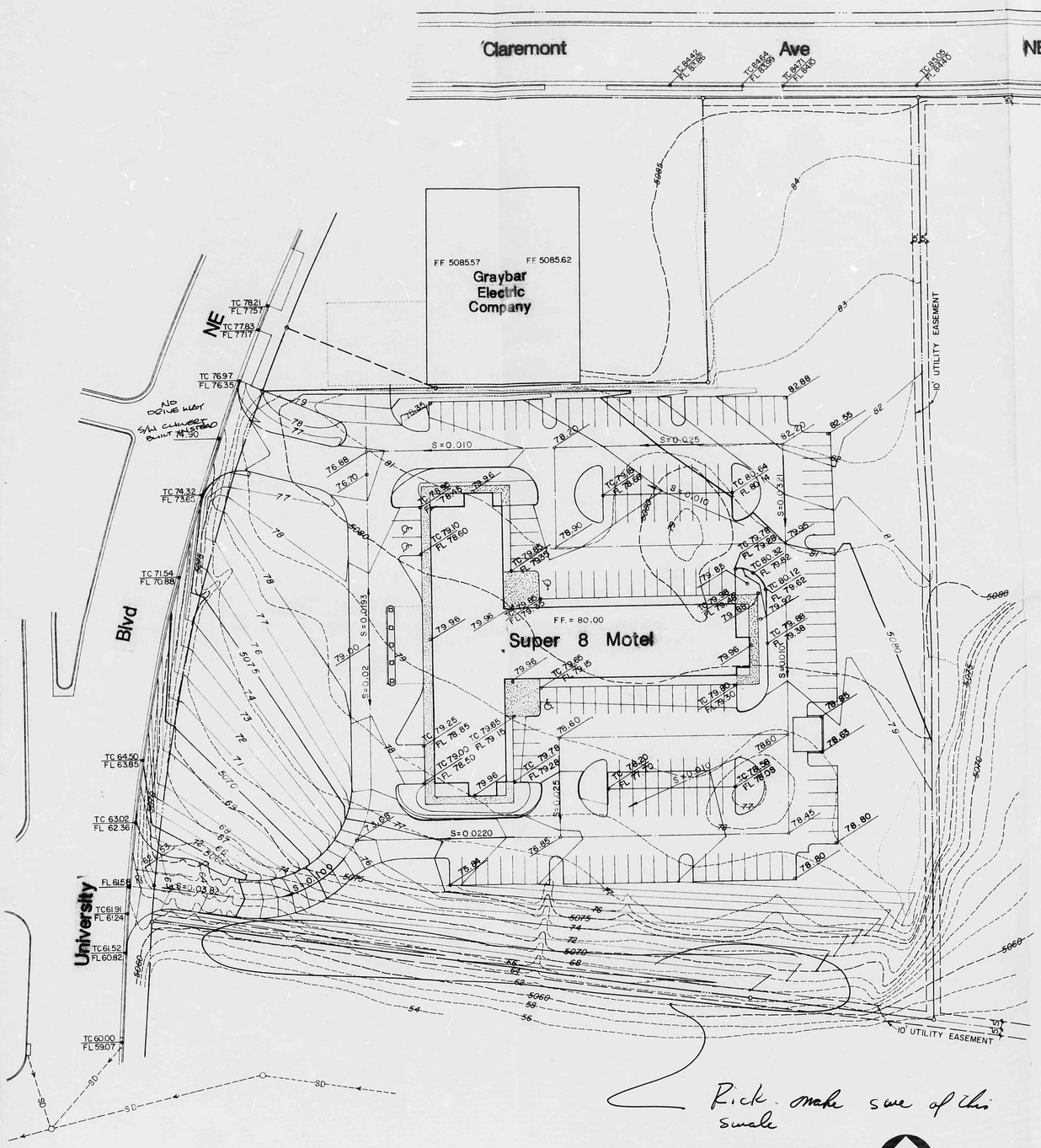
PROPOSED ON-SITE CONDITION:
PERCENT IMPERVIOUS = 50%
C = 0.42 PLATE 22.2 C-1
Q(100) = (0.42)(4.84)(5.487) = 11.15 CFS
Q(10) = (11.15)(0.657) = 7.33 CFS
CN = 75 PLATE 22.2 C-2
DIRECT RUNOFF = 0.5 IN.
V(100) = (0.5)(5.487)(43560)/12 = 9959 CU. FT.
V(10) = (9959)(0.657) = 6543 CU. FT.

CAPACITY OF 2'X7' DROP INLET:
D = 1.0 FT.
Q = 26 CFS PLATE 22.3 D-6

PROPOSED FLOW TO DROP INLET:
WATERSHED AREA = 9 ACRES
PERCENT IMPERVIOUS = 60%
C = 0.49 PLATE 22.2 C-1
Q(100) = (0.49)(4.84)(9) = 21.3 CFS

NOTICE TO CONTRACTOR

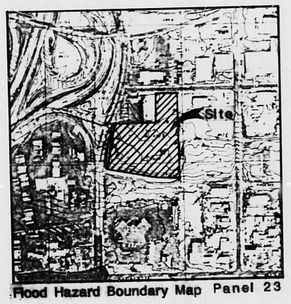
1. NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-1979 EDITION WILL BE REFERRED TO HEREON AS THE "STANDARD SPECIFICATION".
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH PUBLIC WORKS CONTRACT NO. 85-1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. 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 AMOUNT OF DELAY.
5. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING THE CONSTRUCTION PHASE.



Rick. make sure of this swale

Grading and Drainage Plan
1" : 40'

Location Map H-15-Z



Flood Hazard Boundary Map Panel 23

LEGEND		
description	existing	proposed
Spot Elevation •	00.00	00.00
Grade	00	00

LEGAL DESCRIPTION:

TRACT "A"
MENAUL DEVELOPMENT AREA

NOTE:

TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN IS BASED ON A SURVEY PREPARED BY D.T. MORRISON.

RECEIVED APR 23 1985 HYDROLOGY SECTION

KGA

Architect

Engineer: VICTOR J. CHAVEZ, STATE OF NEW MEXICO, 8713, REGISTERED PROFESSIONAL ENGINEER

Revisions

Date	Drawn By
4/15/85	CG
Project No	Checked By
8510	KEG

Project Title
Super 8 Motel
2500 University Blvd. NE
Albuquerque, New Mexico

Sheet Title
DRAINAGE PLAN

Sheet No.
C5
4 of 8

H15/D4