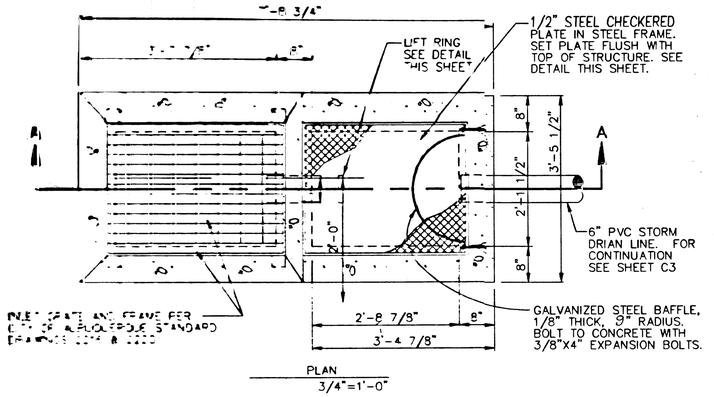
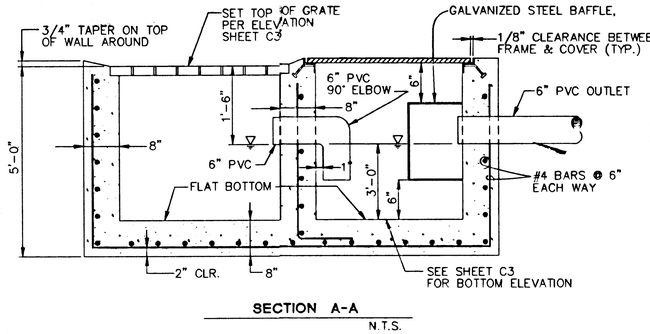
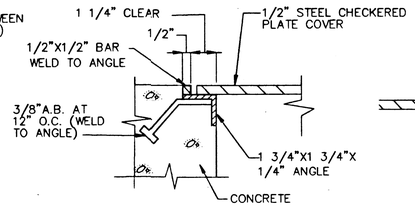


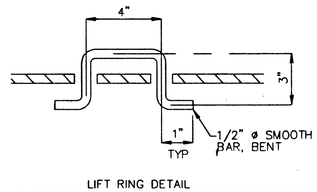
PLAN
3/4"=1'-0"



SECTION A-A
N.T.S.



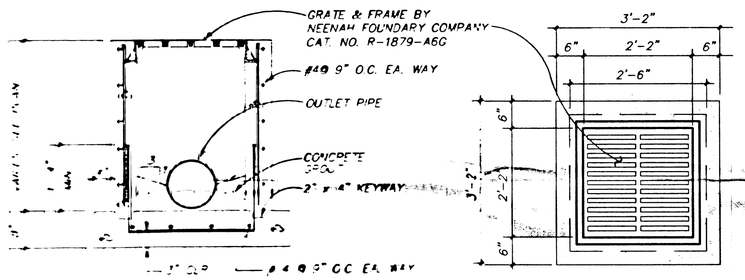
DETAIL A-A
N.T.S.



LIFT RING DETAIL
N.T.S.

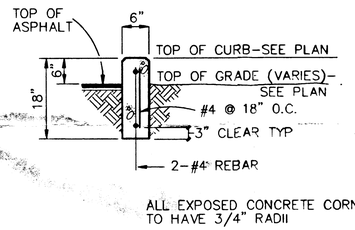
OIL / WATER SEPARATOR

AS SHOWN



2 / C5 DROP INLET
N.T.S.

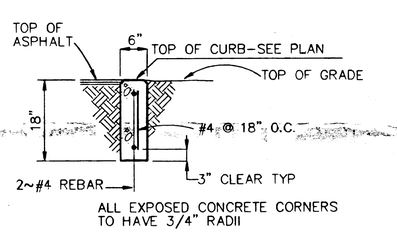
4000 PSI PCC AT 28 DAYS PROVIDE 1/2" EXPANSION JOINTS @ 36' O.C., @ IMMOVABLE OBJECTS AND @ BEGINNING AND END OF CURVES. PROVIDE 1 1/2" DEEP CONTRACTION JOINT @ 6' O.C. SEE DETAIL THIS SHEET



ALL EXPOSED CONCRETE CORNERS TO HAVE 3/4" RADII

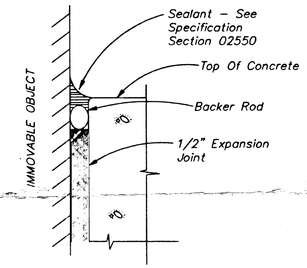
3 / C5 CONCRETE HEADER CURB DETAIL
3/4"=1'-0"

4000 PSI PCC At 28 DAYS. PROVIDE 1/2" EXPANSION JOINTS @ 36' O.C., @ IMMOVABLE OBJECTS AND @ BEGINNING AND END OF CURVES. PROVIDE 1 1/2" DEEP CONTRACTION JOINT @ 6' O.C. SEE DETAIL THIS SHEET

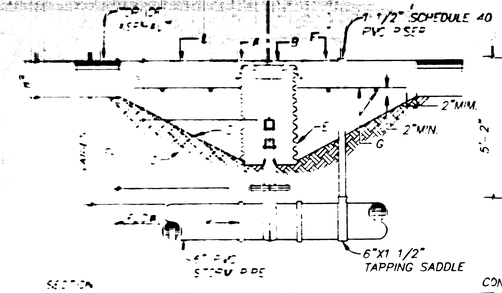


ALL EXPOSED CONCRETE CORNERS TO HAVE 3/4" RADII

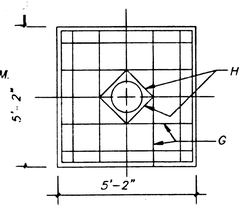
4 / C5 ROADWAY END TREATMENT DETAIL
3/4"=1'-0"



5 / C5 EXPANSION JOINT @ IMMOVABLE OBJECT DETAIL WITH SEALANT
6"=1'-0"



SECTION
3/4"=1'-0"



CONC. PAD PLAN VIEW
3/8"=1'-0"

GENERAL NOTES:
1. SIDES OF CONC. PAD TO BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.

CONSTRUCTION NOTES:
A. RING.
B. COVER.
C. PORTLAND CEMENT CONC. 4000 PSI.
D. COMPACTED EARTH FILL, 95% OF MAX. DENSITY AS DETERMINED BY A.S.T.M. D 1557.
E. 12" DIA. CORRUGATED GALV. CULVERT PIPE 14 GA. DIPPED IN COAL TAR ENAMEL OR COATED WITH POLYMERIC COATING 3 MILS THICK MIN. MEETING REQUIREMENTS SET BY A.A.S.H.T.O. M 246.
F. PAVEMENT LEVEL.
G. NO. 4 BARS AT 12" O.C. EACH WAY.
H. NO. 4 BARS 1'-6" LONG.
J. 2'-0" MAX., USE STEM EXTENSION AS NECESSARY, SEE DWG. 2330, 2331.
K. NEW VALVE.
L. SCRIBE IN THE FRESH CONCRETE THE SIZE OF THE VALVE.

6 / C5 WATER VALVE BOX AND VENT RISER

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE - Suite A Albuquerque New Mexico 87108-1216 505/255-4975

GENERAL NOTES:

1. CALL A.M.A.F.C.A. AT 884-2215 TWO (2) DAYS PRIOR TO BEGINNING OF CONSTRUCTION, AND AGAIN WHEN REINFORCING STEEL IS IN PLACE AND TIED PRIOR TO POURING CONCRETE.

CONSTRUCTION NOTES:

1. SAW CUT EXISTING CONCRETE CHANNEL LINING NORMAL TO SURFACE TO A MAXIMUM DEPTH OF 24 INCHES (DO NOT CUT REINFORCING STEEL) AND BREAK OUT REMAINING THICKNESS OF CONCRETE REASONABLY EVEN WITH SAW CUT. BEND EXISTING TRANSVERSE STEEL TO A POSITION PARALLEL WITH THE NEW RUNDOWN SUFACE AND TIE TO NEW REINFORCING STEEL AS SHOWN ON THE DETAIL.
2. ALL MATERIAL EXCAVATED FROM THE RUNDOWN SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. ALL CONCRETE USED IN CONSTRUCTING THE RUNDOWN SHALL BE 4000 PSI, 1" TO NUMBER 4 AGGREGATE, 5 SACK, 20% FLY ASH, 5% AIR ENTRAINMENT, ALBUQUERQUE GRAVEL PRODUCTS (AGP) MIX 3907, OR APPROVED EQUAL.

14 MAY 92
APPROVED FOR CONSTRUCTION BY A.M.A.F.C.A. DATE

Fueling Station
Ever Ready Oil
Osuna / Chappell NE
Albuquerque, New Mexico

Project Title

Drawn By C-G Checked By KEG
Proj. No. 9204.00 Date 5/11/92

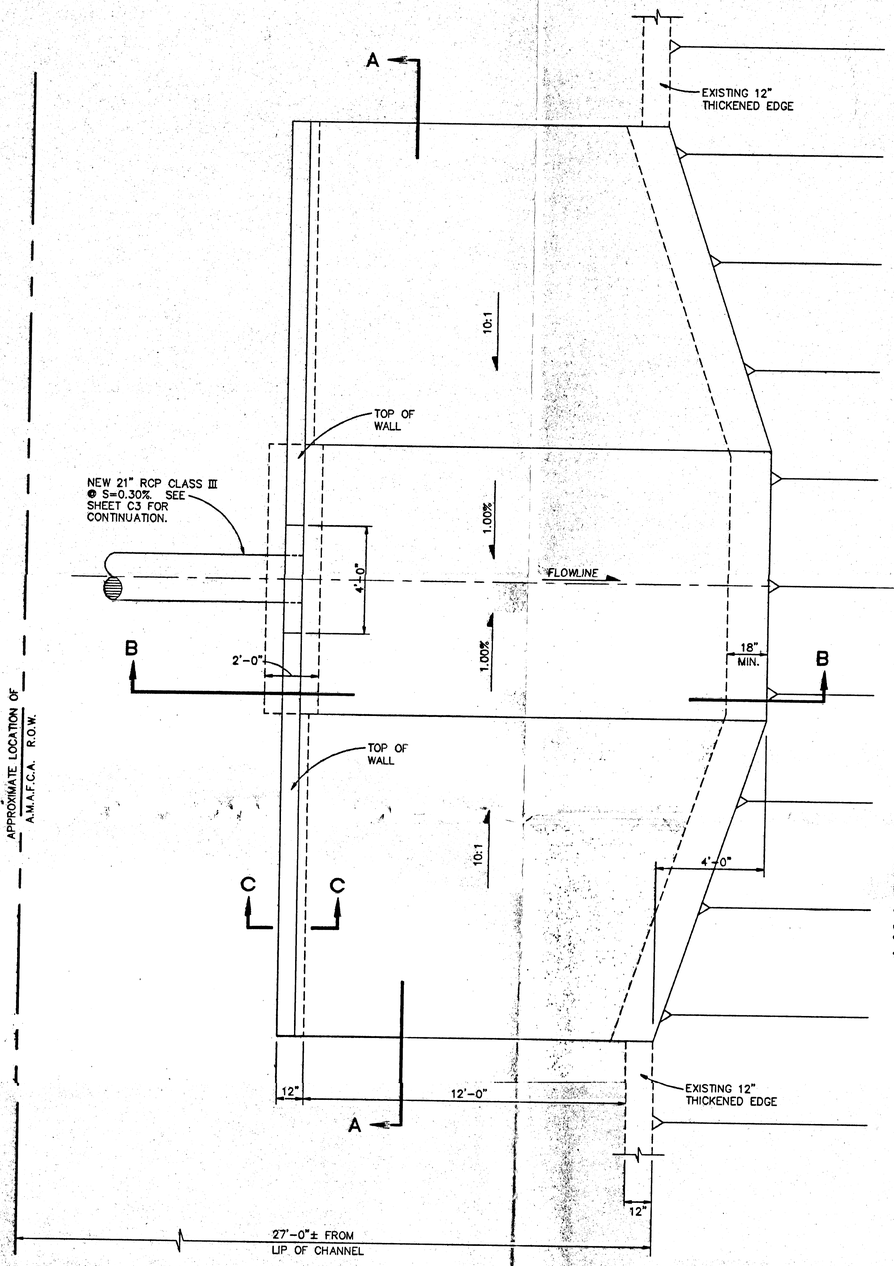
VICTOR J. CHAVEZ JR. STATE OF NEW MEXICO 5713 REGISTERED PROFESSIONAL ENGINEER 5/11/92

Revisions Architect Engineer

RECEIVED MAY 14 1992 HYDROLOGY DIVISION

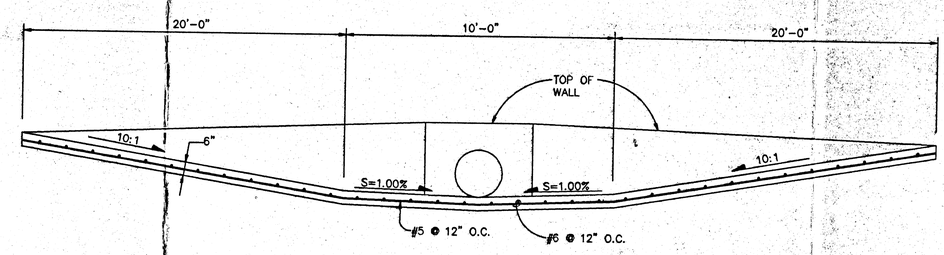
Civil Details C5

Sheet Title Sheet of



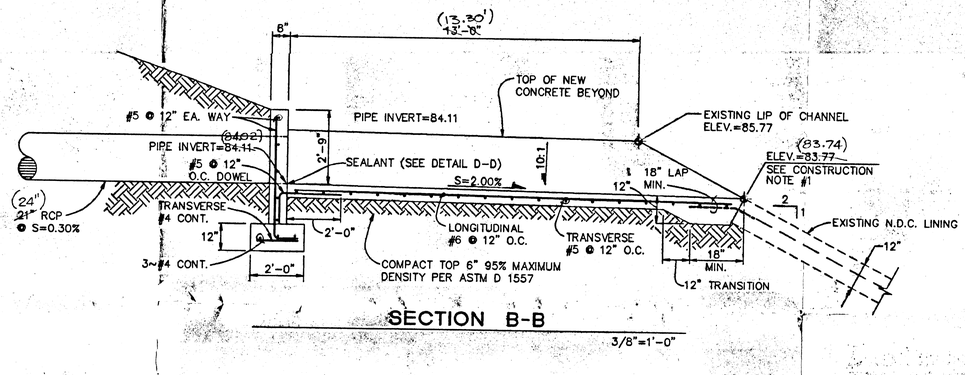
PLAN VIEW AT STORM DRAIN OUTFALL

3/8"=1'-0"



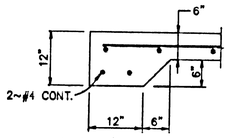
SECTION A-A

3/8"=1'-0"



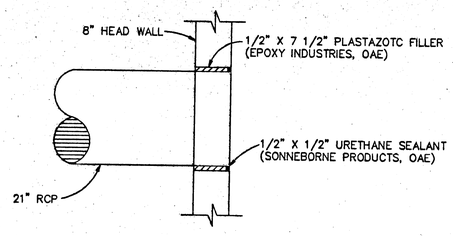
SECTION B-B

3/8"=1'-0"



SECTION C-C

3/4"=1'-0"



SECTION D-D

3/4"=1'-0"

I HEREBY CERTIFY THIS DRAINAGE PLAN IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

SIGNED: Victor J. Chavez

DATE: 4/29/92

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE - Suite A Albuquerque, New Mexico 87108-1216 505/255-4975

GENERAL NOTES:

1. CALL A.M.A.F.C.A. AT 884-2215 TWO (2) DAYS PRIOR TO BEGINNING OF CONSTRUCTION, AND AGAIN WHEN REINFORCING STEEL IS IN PLACE AND TIED PRIOR TO POURING CONCRETE.

CONSTRUCTION NOTES:

1. SAW CUT 1 1/2" DEEP EXISTING CONCRETE CHANNEL LINING NORMAL TO SURFACE TO A MAXIMUM DEPTH OF 24 INCHES (DO NOT CUT REINFORCING STEEL) AND BREAK OUT REMAINING THICKNESS OF CONCRETE REASONABLY EVEN WITH SAW CUT. BEND EXISTING TRANSVERSE STEEL TO A POSITION PARALLEL WITH THE NEW RUNDOWN SUFACE AND TIE TO NEW REINFORCING STEEL AS SHOWN ON THE DETAIL.
2. ALL MATERIAL EXCAVATED FROM THE RUNDOWN SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. ALL CONCRETE USED IN CONSTRUCTING THE RUNDOWN SHALL BE 4000 PSI, 1" TO NUMBER 4 AGGREGATE, 5 SACK, 20% FLY ASH, 5% AIR ENTRAINMENT, CALMAT - (ALBUQUERQUE GRAVEL PRODUCTS) MIX 3907, OR APPROVED EQUAL.
4. USE CLASS "C" PIPE BEDDING FOR ALL STORM DRAIN PIPES.

John Kelly 14 MAY 92

APPROVED FOR CONSTRUCTION BY A.M.A.F.C.A. DATE

Fueling Station

Ever Ready Oil
Osuna / Chappell NE
Albuquerque, New Mexico

RECEIVED
AUG 31 1992
HYDROLOGY DIVISION

Project Title

Drawn By VRC Checked By KEG

Proj. No. 9204.00 Date 4/29/92

VICTOR J. CHAVEZ JR. NEW MEXICO 5713 REGISTERED PROFESSIONAL ENGINEER
4.29.92

Revisions Architect Engineer

Storm Drain Line Connection To North Diversion Channel

Sheet Title

C4

Sheet of

LEGEND

EXIST. CONTOURS
NEW CONTOURS
NEW BUILDING
NEW SPOTS 90.59 (XX.XX) AS BUILT ELEV'S
DROP INLETS
EXIST. SWPPP
DIRECTION OF FLOW
PROPERTY LINE
OVERFLOW PONDING AREA

ABBREVIATIONS

TC	=	TOP OF CURB
TG	=	TOP OF GRADE/CONCRETE
FL	=	FLOW LINE
TA	=	TOP OF ASPHALT
TBM	=	TEMPORARY BENCHMARK
SD	=	STORM DRAIN
TOI	=	TOP OF ISLAND

KEYED NOTES

1. FOR OIL/WATER SEPARATOR DETAIL SEE 1/C5.
2. FOR DROP INLET DETAIL SEE 2/C5.
3. FOR CONCRETE HEADER CURB DETAIL SEE 3/C5.
4. FOR ROADWAY END TREATMENT DETAIL SEE 4/C5.
5. FOR EXPANSION JOINT AT IMMOVABLE OBJECT DETAIL SEE 5/C5.
6. SEE SHEET C4 FOR STORM DRAIN LINE CONNECTION TO NORTH DIVERSION CHANNEL. CONTACT AMAFCA, 884-2215, 2 (TWO) DAYS PRIOR TO CONSTRUCTION WITHIN DIVERSION CHANNEL R.O.W..
7. INSTALL 6" GATE VALVE, VALVE BOX, AND VENT RISER PER CITY OF ALBUQUERQUE DRAWINGS 2328, 2333 AND DETAIL 6/C5.

PROJECT BENCHMARK

STATION IS A STANDARD BLM BRASS CAP SET IN CONCRETE MONUMENT STAMPED SC 27|26 34|35

WHICH PROJECTS 1.0' ABOVE GROUND THE STATION IS LOCATED 5.1 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE EAST OF THE NORTH DIVERSION CHANNEL & SOUTH OF OSUNA RD. N.E. TO REACH THE STATION FROM THE INTERCHANGE @ I-25 & OSUNA RD. N.E., GO WEST ON OSUNA 1.0 MILES TO ANOTHER DIRT ROAD. THE STATION IS LOCATED LEFT OF THIS POINT.
ELEVATION = 5110.406 FEET (M.S.L.D.)

TEMPORARY BENCHMARK

T.B.M. = CHISELED "□" ON TOP OF CURB, @ END OF CURB AS SHOWN BELOW.
ELEVATION = 5093.23 FEET (M.S.L.D.)

LEGAL DESCRIPTION

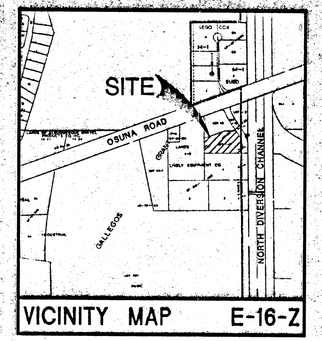
LOT 1-B, LAND OF LIVELY EQUIPMENT CO., INC.
FILED DECEMBER 5, 1986, C32-57.

NOTES:

1. A TOPOGRAPHIC SURVEY WAS PERFORMED ON JANUARY 17, 1992.
2. SITE LOCATED WITHIN SECTION 27, TOWNSHIP 11 NORTH, RANGE 3 EAST, N.M.P.M.
3. BEARINGS AND DISTANCES ARE BASED UPON THE PLAT OF LOTS 1-A THROUGH 1-D, LANDS OF LIVELY EQUIPMENT CO., INC. FILED DECEMBER 5, 1986, C32-57. A BOUNDARY SURVEY WAS NOT PERFORMED.

CONSTRUCTION NOTES:

1. USE CLASS "C" PIPE BEDDING FOR ALL STORM DRAIN PIPES.



VICINITY MAP E-16-Z

OIL SEPARATOR CAPACITY:

Runoff from the site is equally divided such that the quantity to each separator is one-half the total site runoff.

Q=1/2 Q2=1/2 (2.2 cfs) = 1.1 cfs/separator
V=1/2 V2=1/2 (2891 cf) = 1446 cf/separator

The capacity of the separator is controlled by the outlet pipe size. A 6-inch diameter outlet pipe is used.

Qcap = CA $[2gH]^{1/2}$ (Orifice Equation)
Where C = 0.6
H = 0.75' (Pond Depth) + 1.25' (T.G. to Center of Pipe)
A = $\pi (0.25')^2$ = 0.196 sf
Qcap = (0.6)(0.196 x $\{(2)[32.2][2.0]\}^{1/2}$ =1.33 cfs

Since Q2 = 1.1 cfs is less than Qcap = 1.3 cfs, the 2-year and lesser intensity storms will pass through the oil separators. Storms with an intensity greater than the 2-year storm will overflow into the supplemental storm inlets.

Pond dewatering time = $\frac{1/2\ V2}{Qcap} = \frac{1446\ cf}{1.33\ cfs}$ = 18 min.

EMERGENCY SPILL RETAINAGE:

A spill of up to 2500 gallons should be retained onsite. This is accomplished by a valve located on the outlet pipe of each oil separator. The maximum ponding surface elevation of a 2500 gallon spill is shown shaded on the grading and drainage plan.

John Keller 14 MAY 92
APPROVED FOR CONSTRUCTION BY A.M.A.F.C.A. DATE

Kevin Georges & Associates
Architecture & Planning
127 Jefferson Street NE - Suite A Albuquerque, New Mexico 87108-1216 505/255-4975

LOCATION AND DESCRIPTION:

The site is located on the west side of Chappell Road, approximately 300 feet south of the Chappell Road and Osuna Road intersection. The site, containing approximately 1.9113 acres, is presently undeveloped. Existing contours indicate the project site slopes from southeast to northwest averaging one percent. The site is not located within a flood plain.

EXISTING CONDITIONS:

Presently, runoff from the site is allowed to sheet flow into the adjacent property, Lot 4-b, located to the west. Lot 4-b is presently being used as a construction yard and is not paved. Located to the north is Albuquerque Lighting. A portion of the drainage from this development is retained in a pond located on the west end of the building due to restricted downstream capacity on Osuna Road. Located east of the project site is Chappell Road. Chappell Road slopes north to Osuna Road. Located south of the project site is Western Mobile. Drainage from this development is conveyed west and will not affect the Every Ready Fueling Station.

PROPOSED CONDITIONS:

Proposed development of the site will be done in two phases. The area being developed as part of Phase I includes a small building, landscaping, and paving. Drainage from the site will be conveyed to new drop inlets located on the project site, and discharged to a new concrete rundown abuting the North Diversion Channel. Two oil separators will be installed in the Phase I development to help isolate hydrocarbons. Future scheduled development is not known; however it is anticipated it will include asphalt paving.

CALCULATIONS:

Area = 1.9113 acres (Phase I = 1.1541 Ac., Future = 0.7572 Ac.)
I = 2.15 inches
6-hour, 100-year Rainfall = 2.35 inches
i = 5.05
Precipitation Zone = 2

EXISTING ON-SITE CONDITIONS:

LAND TREATMENT	"C" VALUE	A(ACRES)	"C" X A	COMPOSITE "C" = CXA/A
A	0.31			
B	0.45			
C	0.62	1.1541	0.7155	
D	0.93			
		1.1541	0.7155	0.62

Q100 = (0.62)(5.05)(1.1541) = 3.6 cfs
Q10 = (0.667)(3.6) = 2.4 cfs
Q2 = (0.434)(3.6) = 1.6 cfs
V100 = (1.13)(1.1541) + 12 = 0.1087 Ac-ft (4734 cf)
V10 = (0.667)(0.1087) = 0.0725 Ac-ft (3158 cf)
V2 = (0.434)(0.1087) = 0.0472 Ac-ft (2055 cf)

PROPOSED ON-SITE CONDITIONS:

LAND TREATMENT	"C" VALUE	A(ACRES)	"C" X A	COMPOSITE "C" = CXA/A
A	0.31			
B	0.45	0.1483	0.0667	
C	0.62			
D	0.93	1.0058	0.9354	
		1.1541	1.0021	0.87

Q100 = (0.87)(5.05)(1.1541) = 5.1 cfs
Q10 = (0.667)(5.1) = 3.4 cfs
Q2 = (0.424)(5.1) = 2.2 cfs

Weighted "E100" = $\frac{(0.78)(0.1483)+(2.12)(1.0058)}{1.1541}$ = 1.95

Weighted "E10" = $\frac{(0.28)(0.1483)+(1.34)(1.0058)}{1.1541}$ = 1.20

Weighted "E2" = $\frac{(0.02)(0.1483)+(0.79)(1.0058)}{1.1541}$ = 0.69

V100 = (1.95)(1.1541) + 12 = 0.1875 Ac-ft (8,169 cf)
V10 = (1.20)(1.1541) + 12 = 0.1154 Ac-ft (5027 cf)
V2 = (0.69)(1.1541) + 12 = 0.0664 Ac-ft (2891 cf)

RECEIVED
AUG 31 1992
HYDROLOGY DIVISION

Fueling Station

Ever Ready Oil
Osuna / Chappell NE
Albuquerque, New Mexico

Project Title

Drawn By VRC/RFC Checked By KEG
Proj. No. 9204.00 Date 5/11/92

VICTOR J. CHAVEZ JR. STATE OF NEW MEXICO NO. 9713 REGISTERED PROFESSIONAL ENGINEER 5/11/92

Revisions Architect Engineer

E16-D1A

Grading And Drainage Plan

C3

Sheet Title Sheet of

Grading And Drainage Plan

SCALE: 1"=20'

I HEREBY CERTIFY THIS DRAINAGE PLAN IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.
SIGNED: Victor J. Chavez
DATE: 8/31/92

PARCEL I.L. DS OF LIVELY EQUIPMENT CO. INC. FILED NOV. 25, 1980, C17-136.