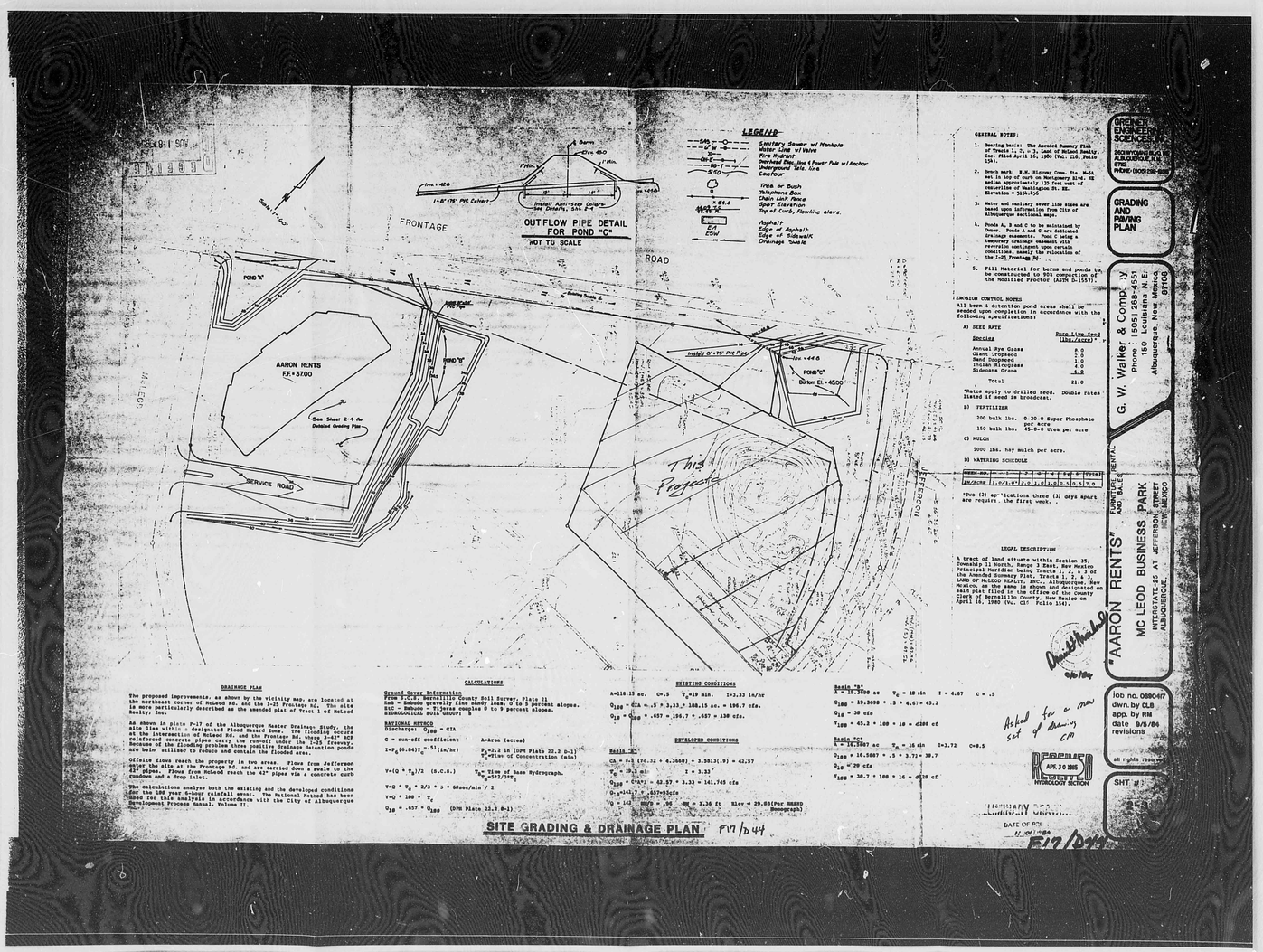
PUBLIC WORKS/HYDROLOGY

1 OF 2

F17/D44C



PLANS/PLATS ON FILE

FILE DESC: F17/D44C

PLANS/PLATS 4

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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Roberta Duran
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STATE OF NEW MEXICO
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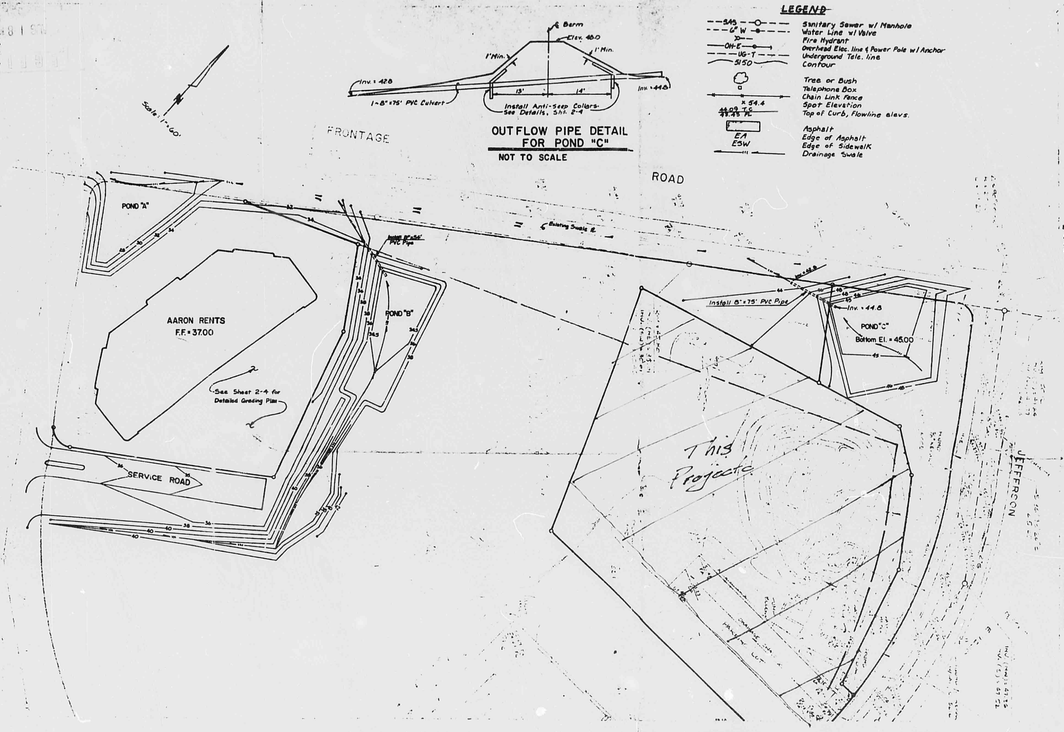

LEGEND

- SAS — Sanitary Sewer w/ Manhole
- W — Water Line w/ Valve
- Fire Hydrant
- OH-E — Overhead Elec. line & Power Pole w/ Anchor
- UG-T — Underground Tele. line
- 5150 — Contour
- Tree or Bush
- Telephone Box
- Chain Link Fence
- × 54.4 — Spot Elevation
- 44.02 TC / 43.45 TW — Top of Curb, flowline elevs.
- EA — Asphalt
- EGW — Edge of Asphalt; Edge of Sidewalk; Drainage Swale

GENERAL NOTES:

1. Bearing basis: The Amended Summary Plat of Tracts 1, 2, & 3, Land of McLeod Realty, Inc. Filed April 16, 1980 (Vol. C16, Folio 154).
2. Bench mark: B.M. Highway Comm. Sta. M-54 set in top of curb on Montgomery Blvd. NE median approximately 135 feet west of centerline of Washington St. NE. Elevation = 5154.436
3. Water and sanitary sewer line sizes are based upon information from City of Albuquerque sectional maps.
4. Ponds A, B and C to be maintained by Owner. Ponds A and C are delineated drainage easements. Pond C being a temporary drainage easement with reversion contingent upon certain conditions, namely the relocation of the I-25 Frontage Rd.
5. Fill Material for berms and ponds to be constructed to 95% compaction of the Modified Proctor (ASTM D-1557).

EROSION CONTROL NOTES:

All berm & detention pond areas shall be seeded upon completion in accordance with the following specifications:

A) SEED RATE

Species	Pure Live Seed (lbs./acre)*
Annual Rye Grass	8.0
Giant Dropseed	2.0
Sand Dropseed	1.0
Indian Ricegrass	4.0
Sideoats Grama	6.0
Total	21.0

*Rates apply to drilled seed. Double rates listed if seed is broadcast.

B) FERTILIZER

200 bulk lbs. 0-20-0 Super Phosphate per acre
150 bulk lbs. 45-0-0 Urea per acre

C) MULCH

5000 lbs. hay mulch per acre.

D) WATERING SCHEDULE

WEEK NO.	1	2	3	4	5	6	Total
IN/ACRE	1.0/1.0*	2.0	1.0	1.0	0.5	0.5	7.0

*Two (2) applications three (3) days apart are required the first week.

LEGAL DESCRIPTION

A tract of land situate within Section 35, Township 11 North, Range 3 East, New Mexico Principal Meridian being Tracts 1, 2, & 3 of the Amended Summary Plat, Tracts 1, 2, & 3, LAND OF McLEOD REALTY, INC., Albuquerque, New Mexico, as the same is shown and designated on said plat filed in the office of the County Clerk of Bernalillo County, New Mexico on April 16, 1980 (Vol. C16, Folio 154).

DRAINAGE PLAN

The proposed improvements, as shown by the vicinity map, are located at the northeast corner of McLeod Rd. and the I-25 Frontage Rd. The site is more particularly described as the amended plat of Tract 1 of McLeod Realty, Inc.

As shown in plate P-17 of the Albuquerque Master Drainage Study, the site lies within a designated Flood Hazard Zone. The flooding occurs at the intersection of McLeod Rd. and the Frontage Rd. where 3-42" RCP reinforced concrete pipes carry the run-off under the I-25 freeway. Because of the flooding problem three positive drainage detention ponds are being utilized to reduce and contain the flooded area.

Offsite flows reach the property in two areas. Flows from Jefferson enter the site at the Frontage Rd. and are carried down a swale to the 42" pipes. Flows from McLeod reach the 42" pipes via a concrete curb rundown and a drop inlet.

The calculations analyze both the existing and the developed conditions for the 100 year 6-hour rainfall event. The Rational Method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II.

CALCULATIONS

Ground Cover Information
From S.C.S. Bernalillo County Soil Survey, Plate 21
Emb - Embudo gravelly fine sandy loam, 0 to 5 percent slopes.
Etc - Embudo - Tijeras complex 5 to 9 percent slopes.
HYDROLOGICAL SOIL GROUP: B

RATIONAL METHOD
Discharge: $Q_{100} = CIA$

C = run-off coefficient A=Area (acres)

$I = P_6(6.84)T_c^{-.51}$ (in/hr) P_6=2.2 in (DPM Plate 22.2 D-1)
T_c=Time of Concentration (min)

$V = (Q * T_b)/2$ (S.C.S.) T_b= Time of Base Hydrograph.
$T_b = 5*2/3*T_c$

$V = Q * T_c * 2/3 * 5 * 60$ sec/min / 2

$V = Q * 100 * T_c$

$Q_{10} = .657 * Q_{100}$ (DPM Plate 22.2 D-1)

EXISTING CONDITIONS

A=118.15 ac. C=.5 T_c=19 min. I=3.33 in/hr

$Q_{100} = CIA = .5 * 3.33 * 188.15$ ac. = 196.7 cfs.

$Q_{10} = Q_{100} * .657 = 196.7 * .657 = 130$ cfs.

DEVELOPED CONDITIONS

Basin "A"

CA = 2.1 (74.32 + 4.3660) + 3.5813(.9) = 42.57

T_c = 19.3 min I = 3.33

$Q_{100} = C*A*I = 42.57 * 3.33 = 141.745$ cfs

Q_{10}=141.7 * .657=93cfs

Q = 142 HM/D = .96 HM = 3.36 ft Elev = 29.83 (Per MRMND Nomograph)

Basin "B"
A = 19.3698 ac T_c = 18 min I = 4.67 C = .5

Q_{100} = 19.3698 * .5 * 4.67 = 45.2

Q_{10} = 30 cfs

V_{100} = 45.2 * 100 * 10 = 6100 cf

Basin "C"
A = 16.5087 ac T_c = 16 min I=3.72 C=0.5

Q_{100} = 16.5087 * .5 * 3.72 = 30.7

Q_{10} = 20 cfs

V_{100} = 30.7 * 100 * 16 = 6120 cf

Asked for a new set of drawings CM

REVISED HYDROLOGY SECTION APR 30 1985

DATE OF PRINT 11 of 84

F17/D44

SITE GRADING & DRAINAGE PLAN F17/D44

GREINER ENGINEERING SCIENCES, INC.
2601 WYOMING BLVD. NE
ALBUQUERQUE, N.M. 87112
PHONE: (505) 292-1936

GRADING AND PAVING PLAN

G. W. Walker & Company
Phone (505) 268-4551
150 Louisiana N.E.
Albuquerque, New Mexico 87108

"AARON RENTS" FURNITURE RENTAL AND SALES
MC LEOD BUSINESS PARK
INTERSTATE-25 AT JEFFERSON STREET
ALBUQUERQUE, NEW MEXICO

job no. 0690417
dwn. by CLB
app. by RM
date 9/5/84
revisions

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SHT #: 2-3

PLAN SHOT TWICE
ONCE ON LIGHT
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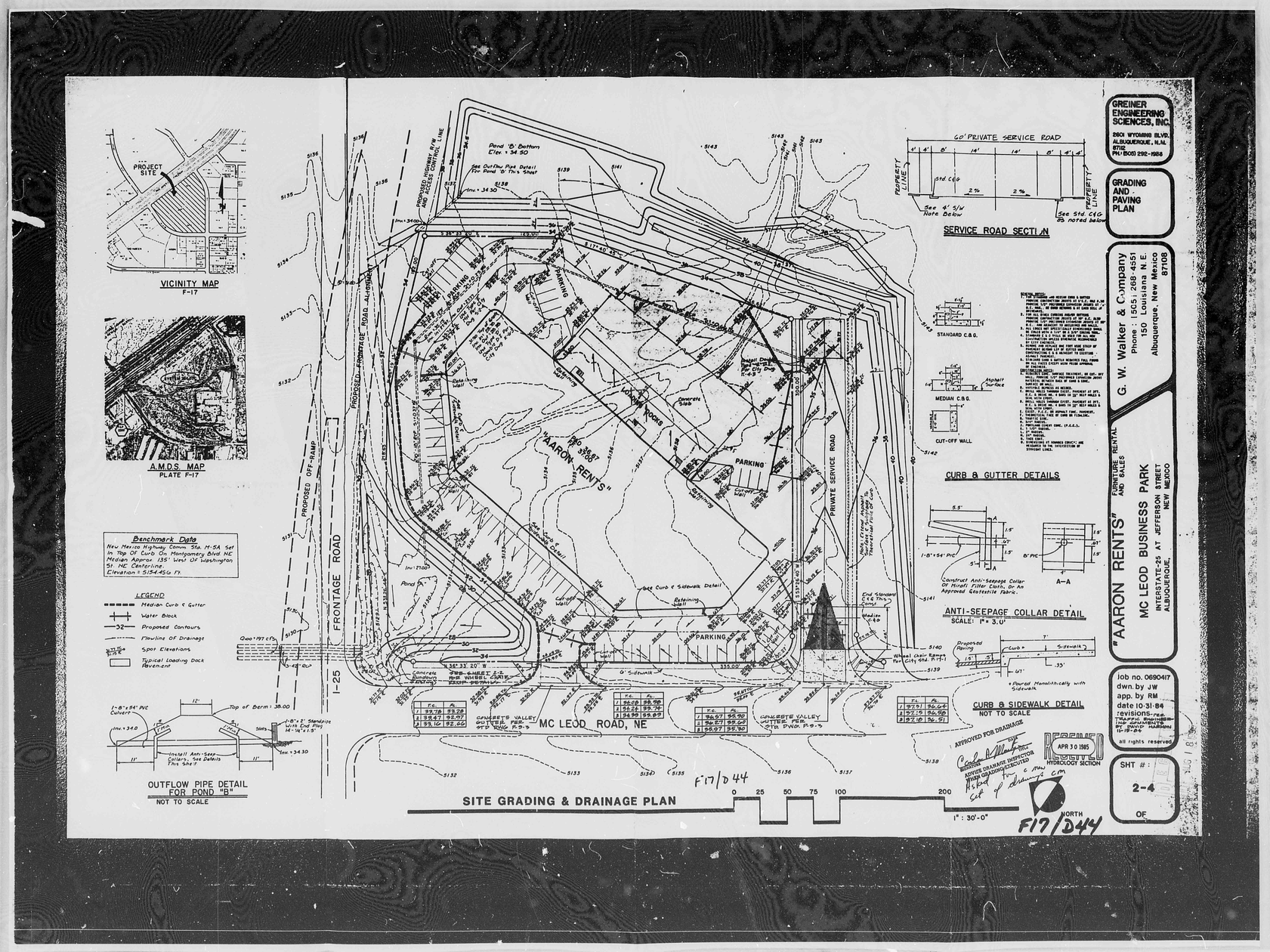
C B A

C 20 B 16 A 12

CITY OF ALBUQUERQUE C



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C B A
C B A
C 20 B 16 A 12
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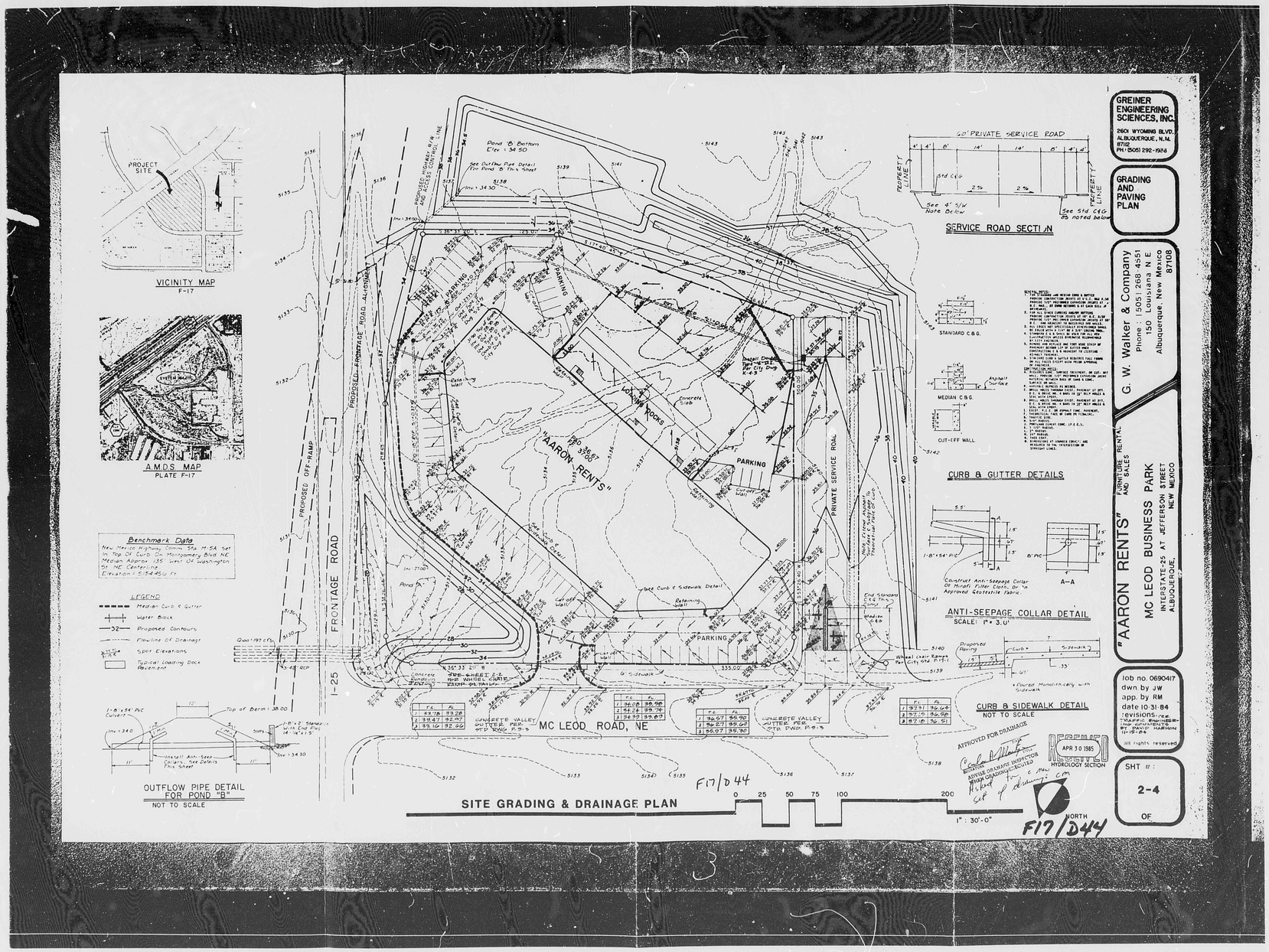

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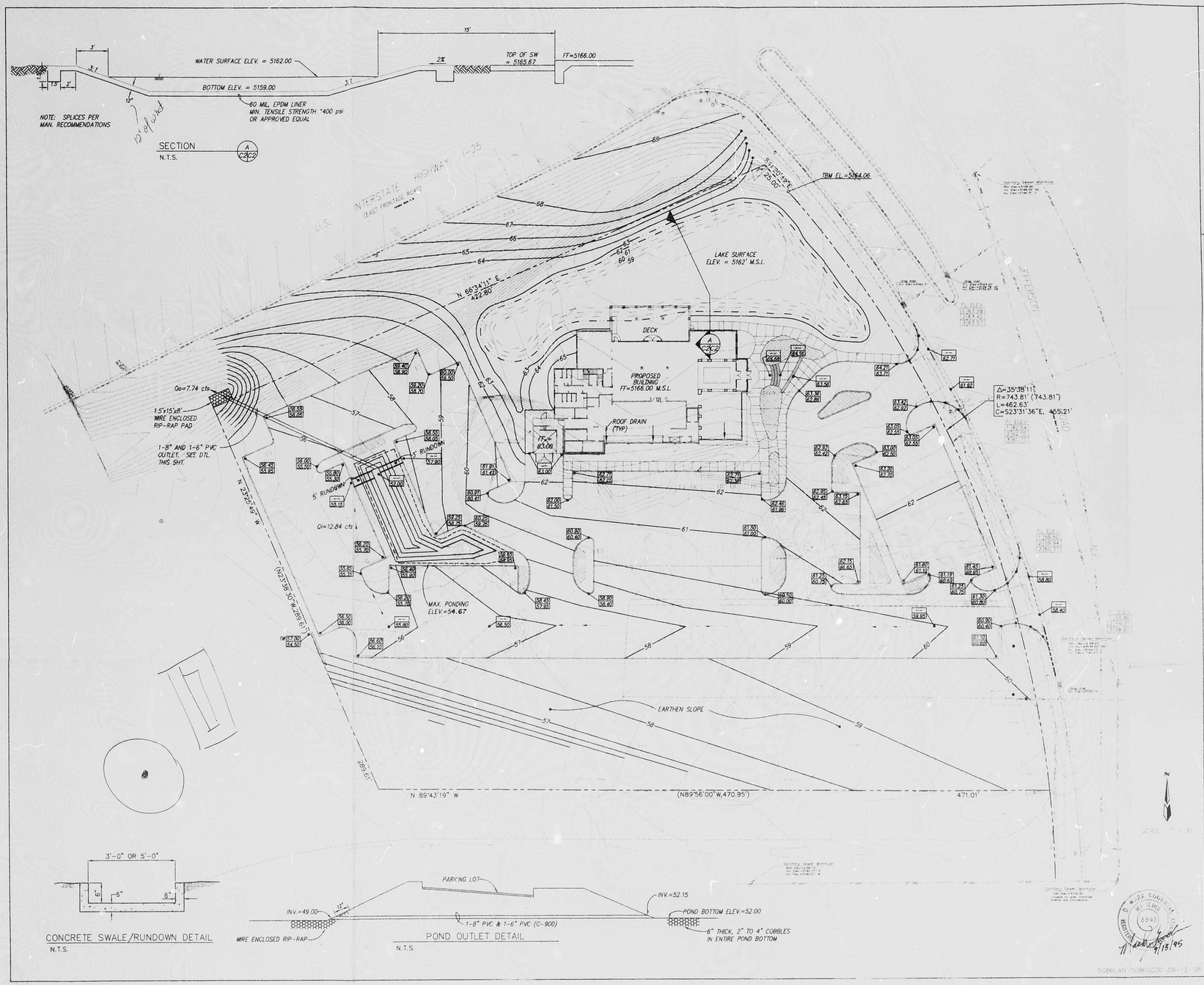
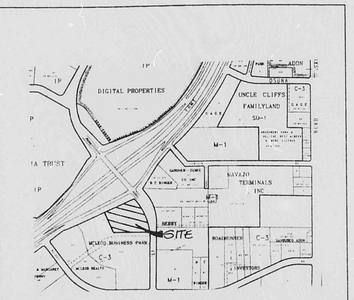
PUBLIC WORKS/HYDROLOGY

2 OF 2

F17/D44C





VICINITY MAP

ZONE MAP: F-17-Z

TBM (Temporary Benchmark)

NMSHD BRASS MONUMENT LOCATED NORTHEAST OF PROPERTY STAMPED I.S. 6540 EL.=5164.06

ACS BENCHMARK

STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "NMSHC I-25-18", SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND.

TO REACH THE STATION FROM THE INTERSECTION OF MONTGOMERY BLVD., AND THE EAST FRONTAGE ROAD OF I-25, GO NORTH ON THE EAST FRONTAGE ROAD 0.60 MILES TO "GREEN'S SANITARY SPECIALIST INC." (BLDG.#4900) AND THE STATION ON THE RIGHT.

X=395,426.52 Y=1,505,603.74 Z=5125.7

LEGAL DESCRIPTION

TRACT 1-A, McLEOD BUSINESS PARK

NOTES

1. NO ROOF DRAINAGE SHALL BE DIRECTED TO LAKE
2. SITE DOES NOT LIE WITHIN A 100 YEAR FLOOD ZONE
3. CONTRACTOR SHALL CONSTRUCT TEMPORARY 1' HIGH EARTHEN BERM ALONG SOUTH AND WEST PROPERTYLINE TO PREVENT EROSION DOWNSTREAM.

LEGEND

- POWER POLE
- TRAFFIC SIGNAL
- SEWER CLEANOUT
- CONCRETE AREA
- CONCRETE CURB & GUTTER
- UTILITY PEDESTAL
- TRAFFIC CONTROL BOX
- WATER METER
- TRANSFORMER
- GAS METER/VALVE
- HYDRANT
- CATCH BASIN
- LIGHT
- CABLE TV SPOTS
- RETAINING WALL
- NEW SPOT ELEVATIONS

RECEIVED SEP 19 1995 (HYDROLOGY DIV.)

LANDRY'S SEAFOOD RESTAURANT
GRADING & DRAINAGE PLAN

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

Designed: AMV	Drawn: STAFF	Checked: DMG	Sheet
Scale: 1" = 30'	Date: 8-14-95	Job: 95086	C2.3

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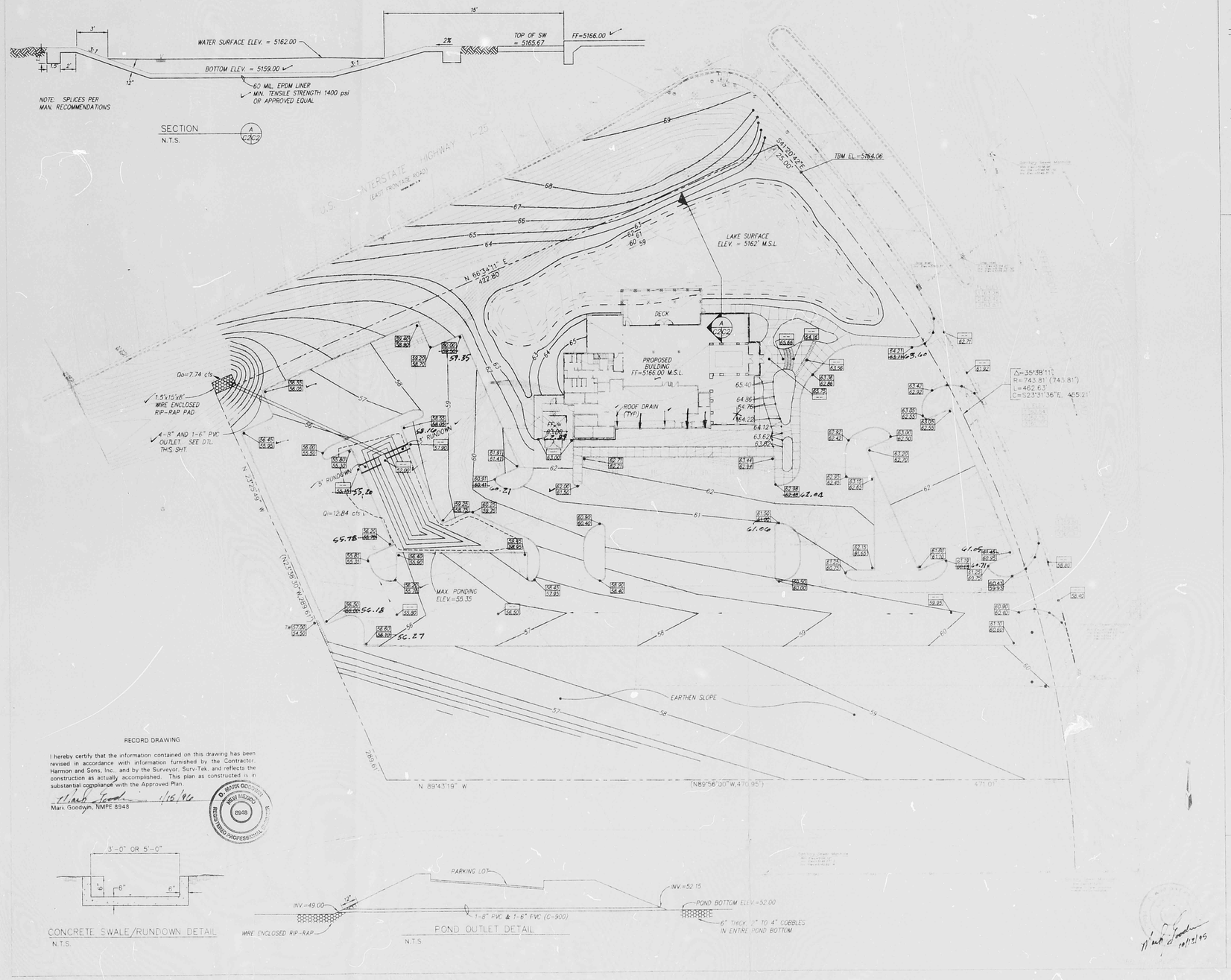


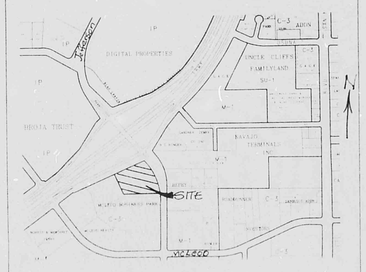
RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, Harmon and Sons, Inc. and by the Surveyor, Surv-Tek, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 1/15/96

Mark Goodwin, NMPE 8948

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER



VICINITY MAP

ZONE MAP: F-17-Z

TBM (Temporary Benchmark)

NMSHD BRASS MONUMENT LOCATED NORTHEAST OF PROPERTY STAMPED L.S. 5540. EL.=5164.06

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STATION MARK IS A STANDARD NMSHD BRASS TABLET STAMPED "NMSHD 1-25-18" SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND.

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LEGEND

- POWER POLE
- TRAFFIC SIGNAL
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- HYDRANT
- CATCH BASIN
- LIGHT
- CABLE TV SPOTS
- RETAINING WALL
- 61.25 / 60.00 — EXISTING ELEVATIONS
- 61.25 / 60.00 — PROPOSED ELEVATIONS

HS-Kerlik

LANDRY'S SEAFOOD RESTAURANT

GRADING & DRAINAGE PLAN

dmg
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
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Sheet C2.3

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