PUBLIC WORKS/HYDROLOGY

F17/D44C

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F17/D44C

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Photograph(s) Follow Which Do Not Always Reproduce Well

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NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
AN EQUAL OPPORTUNITY EMPLOYER

DISTRICT THREE OFFICE

GARY E. JOHNSON
GOVERNOR

COMMISSION

John Burgum, III
Chairman, Socorro

Edward T. Begay
Vice-Chairman, Gallup

Peter T. Mochi, Sr.
Secretary, Albuquerque

Joe M. Anaya
Member, Stanley

Alberto N. Sanchez
Member, Santa Rosa

Stanley D. Espeleta
Member, Clovis

DEPARTMENT

Secretary
Pete C. Rahn

General Office
P.O. Box 1149
Santa Fe, N.M.
87504-1149
505-827-5100

District One Office
P.O. Box 231
Deming, N.M.
88031-0231
505-546-2603

District Two Office
P.O. Box 1457
Roswell, N.M.
88202-1457
505-622-3300

District Three Office
P.O. Box 81750
Albuquerque, N.M.
87198-1750
505-841-2700

District Four Office
P.O. Box 50
Las Vegas, N.M.
87701-0030
505-454-3800

District Five Office
P.O. Box 4127
Joseph Station
Santa Fe, N.M.
87502-4127
505-827-8500

District Six Office
P.O. Box 2158
Milan, N.M.
87021
505 285-5523

October 2, 1995

Mr. Roger Martinez
D. Mark Goodwin & Associates, P.A.
P.O. Box 90606
Albuquerque, New Mexico 87199

Dear Mr. Martinez:

The Department's Drainage Section has reviewed and commented on the drainage report submittal for the seafood restaurant on Jefferson Street at Northbound I-25 East Frontage Road.

The Department has found your drainage report acceptable and have approved your recommendations. See the attached letter from our Drainage Section.

If we can be of further assistance, please contact us at 841-2700.

Sincerely,

Anthony Lopez
District Three Traffic Engineer

/al
xc: Michael Barnes
Rae Van Hoven
Julian Vigil

New Mexico
State Highway and Transportation Department

INTRA-DEPARTMENTAL CORRESPONDENCE

SUBJECT: I-25 & Jefferson Street
Landry's Seafood Development

Date: 10/02/95

Anthony Lopez
District Three Traffic Engineer

File Ref:

Attention of:

FROM: Raymunda A. Van Hoven
Drainage Engineer

R. Van Hoven

I have reviewed and have discussed the subject development with Mr. Roger Martinez of Mark Goodwin & Associates, and found the recommendations to be reasonable. It was determined that the proposed discharge from the development will not cause a drainage impact into the I-25, and the proposed discharge will be equivalent to its historical flow.

/RVH

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Landry's Seafood Restaurant
ZONE ATLAS/DRNG.FILE#: F-17 / 1144C
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Tract 1-A, McLeod Business Park
CITY ADDRESS: Jefferson & I-25

ENGINEERING FIRM: Mark Goodwin & Associates, PA — CONTACT: Mark Goodwin PE
ADDRESS: PO Box 90606 — PHONE: 345-2010
OWNER: Landry's Inc — CONTACT: Brent Redus
ADDRESS: 1400 Post Oak, Houston, Tx — PHONE: (713) 850-1010
ARCHITECT: Brand + Allen Architects — CONTACT: Darayus Kolah
ADDRESS: 1400 Post Oak #200 — PHONE: (713) 621-7393
SURVEYOR: Surv-Tek — CONTACT: Gary Hugg
ADDRESS: 5643 Paradise Blvd NW — PHONE: 897-3366
CONTRACTOR: N/A — CONTACT: _____
ADDRESS: _____ — PHONE: _____

TYPE OF SUBMITTAL:

- ___ DRAINAGE REPORT
- X DRAINAGE PLAN
- ___ CONCEPTUAL GRADING & DRAINAGE PLAN
- X GRADING PLAN
- ___ EROSION CONTROL PLAN
- ___ ENGINEER'S CERTIFICATION
- ___ OTHER

PRE-DESIGN MEETING:

- ___ YES
- X NO
- ___ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ___ SKETCH PLAT APPROVAL
- ___ PRELIMINARY PLAT APPROVAL
- ___ S. DEV. PLAN FOR SUB'D APPROVAL
- ___ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ___ SECTOR PLAN APPROVAL
- ___ FINAL PLAT APPROVAL
- ___ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ___ CERTIFICATION OF OCCUPANCY APPROVAL
- ___ GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ S.A.D. DRAINAGE REPORT
- ___ DRAINAGE REQUIREMENTS
- ___ OTHER _____ (Specify)

DATE SUBMITTED: 9/18/95

BY: Mark Goodwin
Mark Goodwin PE

Roger Martinez
DRB# CK 5 copies
Zoning

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D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors
P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 345-2010

September 14, 1995

Ms. Lisa Manwill
Hydrology Division
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Landry's Seafood Restaurant; F17/D44C

Dear Ms. Manwill:

We are in receipt of your letter dated August 25, 1995, and offer the following response:

1. Roof drains are now shown as well as Note 1.

2. Lake is now detailed and is lined.

3&4. NMSH&TD is currently reviewing and we hope to gain their concurrence shortly.

5. Inverts are now shown.

6. Flow rates are now shown.

7. Velocity calculations are now included.

8. Pond volume calculations are enclosed.

9. As shown on revised detail, cobbles have been added to pond bottom.

10. Due to grading requirements, we still need to keep 3 foot rundown on north side of pond.

11. Based upon field observations, Pond B is in place and does intercept all existing flows. Existing on-site flow calculations are attached.

12. While we did not specifically survey Pond B, it is in place and appears to match the design drawings we submitted earlier.

With this revised plan and response, we hereby request Building Permit Approval. Please contact our office if you have any questions.

Sincerely,

MARK GOODWIN AND ASSOCIATES, P.A.

Mark Goodwin, P.E.

DMG:smr

RECEIVED
SEP 19 1995
HYDROLOGY

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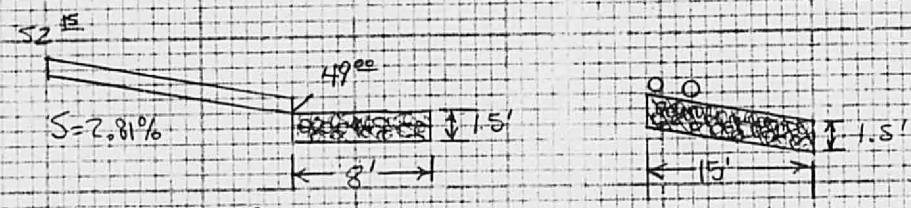
dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS

PROJECT LANDRY'S SEAFOOD RESTAURANT
SUBJECT DRAINAGE
BY ZM DATE 18 SEPT 95
CHECKED _____ DATE _____
SHEET 1 OF 2

FLOW CALCULATIONS ACROSS WIRE ENCLOSED RIPRAP PAD

CHEZY EQUATION WILL GOVERN FROM DISCHARGE POINT OF PIPES

$$V = \frac{K}{n} R_H^{2/3} S^{1/2}$$



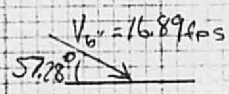
Q = 7.74 cfs COMBINED

$Q_{6''} = \frac{6}{14}(7.74)$ $\quad Q_{8''} = \frac{8}{14}(7.74)$

$Q_{6''} = 3.32$ cfs $\quad Q_{8''} = 4.42$ cfs

$V_{6''} = \frac{Q_{6''}}{A}$ $\quad V_{8''} = \frac{Q_{8''}}{A}$

$V_{6''} = 16.89$ fps $\quad V_{8''} = 12.66$ fps



HEAD LOSS IN TERMS OF EQUIVALENT LENGTH

$$l_{eq} = \frac{K_L D}{f}$$

K_L = LOSS COEFFICIENT = 0.50

D = DIAMETER = 14" = 1.167'

f = FRICTION FACTOR = $\frac{0.316}{Re^{1/4}}$ = 0.0388

CONTINUED ON NEXT PAGE

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dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS

PROJECT Landry's Seafood Restaurant
SUBJECT Drainage
BY RJM DATE 18 Sept 95
CHECKED _____ DATE _____
SHEET 2 OF 2

$$Re = \frac{\rho D V}{\mu} = \frac{1.77(slugs/ft^3)(1.167')(16.89\ fps)}{2.94 \times 10^{-3}\ lb\ s/ft^2}$$

$Re = 4394$ Turbulent Flow

$$f = \frac{0.316}{Re^{1/4}} = \frac{0.316}{8.1412} = 0.0388$$

$$l_{eq} = \frac{K_L D}{f} = \frac{0.5(1.167)}{0.0388}$$

$$l_{eq} = 15.03'$$

Wire Enclosed Rip Rap Will Be Repositioned

Drawings Showing 18" x 18" Rip Rap

0000 0000 0912

D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT Landry's
SUBJECT Drainage
BY MG DATE
CHECKED DATE
SHEET 1 OF

Pond Volume

Elev.	Δ	Area	Avg Area	Vol.	ΣV
52		0			
	1		~~4683~~ ok	~~468~~ ok	
53		936			
	1		1468	1468	
54		2000			
	1		3365	3365	
55		4730			
	1		10,065	10,065	
56		15,400			
54.67		± 3300	2650 ~~1776~~	1776	

WSE of Pond = 54.67

∴ Vreq - 627 cf
Detains 5.1 cfs

0000 0000 0913

```
START                    TIME=0.0
***** HYDROGRAPH FOR LANDRY'S - DEVELOPED
RAINFALL                 TYPE=1 RAIN QUARTER=0.0 IN
                         RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                         RAIN DAY=2.75 IN DT=0.03333 HR
COMPUTE NM HYD           ID=1 HYD NO=101.1 AREA=0.004700 SQ MI
                         PER A=00  PER B=18  PER C=00    PER D=82
                         TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD                ID=1 CODE=1

*RESERVOIR ROUTE
*    ORIFICE
ROUTE RESERVOIR          ID=2 HYD NO=101.2 INFLOW ID=1 CODE=24
                         OUTFLOW(CFS)      STORAGE(AC-FT)    ELEVATION(FT)
                            0.0               0.0               52.00
                            4.38              0.010700          53.00
                            6.19              0.044000          54.00
                            7.58              0.121600          55.00
                            8.75              0.352700          56.00
PRINT HYD                ID=2  CODE=1
FINISH

        AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
             RUN DATE (MON/DAY/YR) = 09/17/1995
             START TIME (HR:MIN:SEC) = 05:13:20      USER NO.= M_GOODWN.I01
             INPUT FILE = LAN.DAT


START                    TIME=0.0

***** HYDROGRAPH FOR LANDRY'S - DEVELOPED

RAINFALL                 TYPE=1 RAIN QUARTER=0.0 IN
```

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RAIN DAY=2.75 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2
- PEAK AT 1.40 HR.

DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0016	.0033	.0049	.0066	.0084	.0102
.0120	.0139	.0158	.0178	.0199	.0219	.0241
.0263	.0286	.0309	.0333	.0358	.0384	.0411
.0439	.0467	.0497	.0529	.0561	.0596	.0631
.0669	.0709	.0751	.0807	.0866	.0930	.1066
.1371	.1840	.2514	.3434	.4644	.6186	.8106
1.0449	1.2624	1.3533	1.4300	1.4982	1.5602	1.6174
1.6704	1.7200	1.7664	1.8102	1.8514	1.8904	1.9273
1.9622	1.9953	2.0268	2.0566	2.0850	2.0915	2.0976
2.1033	2.1088	2.1140	2.1191	2.1239	2.1285	2.1329
2.1373	2.1414	2.1454	2.1494	2.1531	2.1568	2.1604
2.1639	2.1673	2.1706	2.1739	2.1771	2.1802	2.1832
2.1862	2.1891	2.1919	2.1947	2.1975	2.2002	2.2028
2.2054	2.2080	2.2105	2.2130	2.2154	2.2178	2.2202
2.2225	2.2248	2.2270	2.2293	2.2315	2.2336	2.2358
2.2379	2.2399	2.2420	2.2440	2.2460	2.2480	2.2500
2.2519	2.2538	2.2557	2.2576	2.2594	2.2612	2.2631
2.2648	2.2666	2.2684	2.2701	2.2718	2.2735	2.2752
2.2769	2.2785	2.2802	2.2818	2.2834	2.2850	2.2866
2.2881	2.2897	2.2912	2.2928	2.2943	2.2958	2.2973
2.2987	2.3002	2.3017	2.3031	2.3045	2.3060	2.3074
2.3088	2.3102	2.3115	2.3129	2.3143	2.3156	2.3169
2.3183	2.3196	2.3209	2.3222	2.3235	2.3248	2.3261
2.3273	2.3286	2.3298	2.3311	2.3323	2.3335	2.3348
2.3360	2.3372	2.3384	2.3396	2.3408	2.3419	2.3431
2.3443	2.3454	2.3466	2.3477	2.3488	2.3500	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.004700 SQ MI

PER A=00 PER B=18 PER C=00 PER D=82

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.216 CFS UNIT VOLUME = .9987 B = 526.28
P60 = 2.0100
AREA = .003854 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .132088HR TP = .133300HR K/TP RATIO = .990905 SHAPE CONSTANT, N = 3.563174
UNIT PEAK = 2.0621 CFS UNIT VOLUME = .9935 B = 324.91
P60 = 2.0100
AREA = .000846 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

25×10

0000 0000 0915

RUNOFF VOLUME = 1.87468 INCHES = .4699 ACRE-FEET
PEAK DISCHARGE RATE = 12.84 CFS AT 1.500 HOURS BASIN AREA =
.0047 SQ. MI.

*RESERVOIR ROUTE

* ORIFICE

ROUTE RESERVOIR ID=2 HYD NO=101.2 INFLOW ID=1 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0	0.0	52.00
4.38	0.010700	53.00
6.19	0.044000	54.00
7.58	0.121600	55.00
8.75	0.352700	56.00

* * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	52.00	.000	.00
.80	.00	52.00	.000	.00
1.60	8.94	54.62	.092	7.06
2.40	.53	52.13	.001	.59
3.20	.10	52.02	.000	.11
4.00	.07	52.02	.000	.07
4.80	.07	52.01	.000	.07
5.60	.07	52.02	.000	.07
6.40	.01	52.00	.000	.01

PEAK DISCHARGE = 7.116 CFS - PEAK OCCURS AT HOUR 1.63
MAXIMUM WATER SURFACE ELEVATION = 54.666
MAXIMUM STORAGE = .0957 AC-FT INCREMENTAL TIME= .033330HR
S

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 101.20

RUNOFF VOLUME = 1.87462 INCHES = .4699 ACRE-FEET
PEAK DISCHARGE RATE = 7.12 CFS AT 1.633 HOURS BASIN AREA =
.0047 SQ. MI.

FINISH

25×10

0000 0000 0916

```
START                    TIME=0.0
***** HYDROGRAPH FOR LANDRY'S - UNDEVELOPED
RAINFALL                 TYPE=1 RAIN QUARTER=0.0 IN
                         RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                         RAIN DAY=2.75 IN DT=0.03333 HR
COMPUTE NM HYD           ID=1 HYD NO=101.1 AREA=0.004700 SQ MI
                         PER A=90  PER B=00  PER C=10    PER D=00
                         TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD                ID=1 CODE=1
FINISH
```

```
AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
     RUN DATE (MON/DAY/YR) = 09/17/1995
     START TIME (HR:MIN:SEC) = 04:49:10      USER NO.= M_GOODWN.I01
     INPUT FILE = LAN1.DAT

START                    TIME=0.0
***** HYDROGRAPH FOR LANDRY'S - UNDEVELOPED
RAINFALL                 TYPE=1 RAIN QUARTER=0.0 IN
                         RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                         RAIN DAY=2.75 IN DT=0.03333 HR

                COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2
- PEAK AT 1.40 HR.
                DT =     .033330 HOURS          END TIME =      5.999400 HOURS
                .0000    .0016    .0033    .0049    .0066    .0084    .0102
                .0120    .0139    .0158    .0178    .0199    .0219    .0241
                .0263    .0286    .0309    .0333    .0358    .0384    .0411
                .0439    .0467    .0497    .0529    .0561    .0596    .0631
                .0669    .0709    .0751    .0807    .0866    .0930    .1066
                .1371    .1840    .2514    .3434    .4644    .6186    .8106
                1.0449   1.2624   1.3533   1.4300   1.4982   1.5602   1.6174
                1.6704   1.7200   1.7664   1.8102   1.8514   1.8904   1.9273
                1.9622   1.9953   2.0268   2.0566   2.0850   2.0915   2.0976
                2.1033   2.1088   2.1140   2.1191   2.1239   2.1285   2.1329
                2.1375   2.1414   2.1454   2.1494   2.1531   2.1568   2.1604
                2.1639   2.1673   2.1706   2.1739   2.1771   2.1802   2.1832
                2.1862   2.1891   2.1919   2.1947   2.1975   2.2002   2.2028
                2.2054   2.2080   2.2105   2.2130   2.2154   2.2178   2.2202
                2.2225   2.2248   2.2270   2.2293   2.2315   2.2336   2.2358
                2.2379   2.2399   2.2420   2.2440   2.2460   2.2480   2.2500
                2.2519   2.2538   2.2557   2.2576   2.2594   2.2612   2.2631
                2.2648   2.2666   2.2684   2.2701   2.2718   2.2735   2.2752
                2.2769   2.2785   2.2802   2.2818   2.2834   2.2850   2.2866
                2.2881   2.2897   2.2912   2.2928   2.2943   2.2958   2.2973
                2.2987   2.3002   2.3017   2.3031   2.3045   2.3060   2.3074
                2.3088   2.3102   2.3115   2.3129   2.3143   2.3156   2.3169
                2.3183   2.3196   2.3209   2.3222   2.3235   2.3248   2.3261
                2.3273   2.3286   2.3298   2.3311   2.3323   2.3335   2.3348
                2.3360   2.3372   2.3384   2.3396   2.3408   2.3419   2.3431
                2.3443   2.3454   2.3466   2.3477   2.3488   2.3500
                                  AREA=0.004700 SQ MI
```

25×10

```
                    PER A=50  PER B=00  PER C=10    PER D=00

                    TP=0.1333 HR MASS RAINFALL=-1

        K =    .154884HR     TP =    .133300HR     K/TP RATIO =  1.161917      SHAPE
CONSTANT, N =  3.050921
        UNIT PEAK =    10.082     CFS    UNIT VOLUME =     .9983        B =    285.95
     P60 = 2.0100
        AREA =        .004700 SQ MI     IA =     .62000 INCHES     INF =    1.58600 I
NCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
=    .033330

    PRINT HYD            ID=1 CODE=1

                                        PARTIAL HYDROGRAPH    101.10
                                                              6277CF

        RUNOFF VOLUME =        .57503 INCHES      =          .1441 ACRE-FEET
        PEAK DISCHARGE RATE =        5.11 CFS  AT    1.533 HOURS    BASIN AREA =
 .0047 SQ. MI.


    FINISH

        NORMAL PROGRAM FINISH          END TIME (HR:MIN:SEC) = 04:49:19
```

25×10

0000 0000 0418

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Landry's Seafood Restaurant
ZONE ATLAS/DRNG.FILE#: F-17/044C
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Tract 1-A, McLeod Business Park
CITY ADDRESS: Jefferson & I-25

ENGINEERING FIRM: Mark Goodwin & Associates, PA — CONTACT: Mark Goodwin PE
ADDRESS: PO Box 90606 — PHONE: 345-2010
OWNER: Landry's Inc — CONTACT: Brent Redus
ADDRESS: 1400 Post Oak, Houston, Tx — PHONE: (713) 850-1010
ARCHITECT: Brand + Allen Architects — CONTACT: Darayus Kolah
ADDRESS: 1400 Post Oak #200 — PHONE: (713) 621-7393
SURVEYOR: Surv-Tek — CONTACT: Gary Hugg
ADDRESS: 5643 Paradise Blvd NW — PHONE: 897-3366
CONTRACTOR: _____ — CONTACT: _____
ADDRESS: _____ — PHONE: _____

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION
- ____ OTHER

PRE-DESIGN MEETING:

- ____ YES
- X NO
- ____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SKETCH PLAT APPROVAL
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X CERTIFICATION OF OCCUPANCY APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ S.A.D. DRAINAGE REPORT
- ____ DRAINAGE REQUIREMENTS
- ____ OTHER _____ (Specify)

DATE SUBMITTED: 1/15/96

BY: Mark Goodwin
Mark Goodwin PE

25 X 10

0000 0000 0414

CITY OF
Albuquerque

Martin J. Chávez, Mayor

March 15, 1996

CERTIFICATION OF COMPLETION AND ACCEPTANCE

E. A. Jaska, Jr.
Vice President
Landry's Seafood House - New Mexico
1400 Post Oak Blvd., #1010
Houston, TX 77056

RE: LANDRY'S SEAFOOD RESTAURANT, CITY PROJECT NO. 5305.80, MAP NO. F-17

Dear Mr. Jaska:

This is to certify that the City of Albuquerque accepts the Construction Project No. 5305.90 as being completed and approved in accordance with the Subdivision Improvements Agreement Landry's Seafood House - New Mexico entered into with the City of Albuquerque on December 21, 1995.

The agreement will now be released. The contractors one-year warranty period started at the date of acceptance by the Chief Construction Engineer, dated March 5, 1996.

Should you have any questions or issues regarding this project, please contact me.

Sincerely,

Ricardo B. Roybal
City Engineer
Engineering Group
Public Works Department

RECEIVED
MAR 18 1996
HYDROLOGY

25×10

c. Mark Goodwin, Mark Goodwin & Associates
Teresa Martin, Project Administrator, Project Review
Theresa Lucero, Project Review, PWD
Kym Dicome, DRB Chairman, Planning
Fred Aguirre, Hydrology, PWD
Richard Dourte, Transportation Development, PWD
Robert Kane, Utility Development, PWD
R.J. Herbert, Parks & General Services
f/Project file

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City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 25, 1995

Mark Goodwin
Mark Goodwin and Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: LANDRY'S SEAFOOD RESTAURANT (F17-D44C) GRADING AND DRAINAGE PLAN FOR FOUNDATION PERMIT APPROVAL. ENGINEER'S STAMP DATED AUGUST 17, 1995.

Dear Mr. Goodwin:

Based on the information provided on your submittal dated August 18, 1995, the above referenced project is approved for Foundation Permit.

Prior to Building Permit Approval, please address the following comments:

1. Show roof drain locations. No storm water shall be directed to lake.
2. Please provide detailed information on the lake construction. Because of the lakes proximity to the building, if you do not plan on using a hard liner, you will need to provide a soils report. You should investigate the lakes impact on building foundation prior to any construction of foundation.
3. Need New Mexico State Highway Department (NMSHD) concurrence to discharge on their right-of-way.
4. Need NMSHD concurrence to regrade (fill) existing swale located in their right-of-way.
5. Show all invert elevations of 6 inch and 8 inch pipes.
6. Show the 100-year flow going into and out of detention pond.
7. Show calculations for the energy dissipator in NMSHD right-of-way.
8. What is the detention pond volume?

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9. Place cobble stone or landscape rock in bottom of detention pond.

10. From an environmental standpoint, it would be more efficient if you could relocate your 3 foot and 5 foot detention pond rundowns to the south. By relocating the rundowns, stormwater stays in pond longer and parking lot fuels/oils have a better chance of adhering to the rock lined pond bottom.

10. What is historic flow information? Does runoff from this site currently flow to Pond "B"?

11. Does Pond "B" have capacity for developed flows upstream?

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

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LETTER OF TRANSMITTAL

D. Mark Goodwin & Associates, P.A.
Consulting Engineers & Surveyors
P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 345-2010

DATE 10/10/95 JOB NO.
ATTENTION LISA Manwill
RE: Landry's F-17/D44C

TO CoA
Hydrology

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1			NMSH & TO Approval

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit ____ copies for approval
☐ For your use ☐ Approved as noted ☐ Submit ____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return ____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS As requested - Thanks

RECEIVED
OCT 1 0

COPY TO _____ SIGNED: Mark Goodwin

If enclosures are not as noted, kindly notify us at once.

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City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 4, 1995

Mark Goodwin
Mark Goodwin and Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: LANDRY'S SEAFOOD RESTAURANT (F17-D44C) GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED SEPTEMBER 13, 1995.

Dear Mr. Goodwin:

Based on the information provided on your submittal dated September 19, 1995, and concurrence from New Mexico State Highway Department, the above referenced project is approved for Building Permit.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

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City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 28, 1995

Mark Goodwin
Mark Goodwin and Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: LANDRY'S SEAFOOD RESTAURANT (F17-D44C) GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED SEPTEMBER 13, 1995.

Dear Mr. Goodwin:

Based on the information provided on your submittal dated September 19, 1995, City Hydrology request concurrence from New Mexico State Highway Department on the above referenced project prior to Building Permit approval.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Rae Van Hoven - NMSHD
Andrew Garcia
File

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NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
AN EQUAL OPPORTUNITY EMPLOYER

DISTRICT THREE OFFICE

GARY E. JOHNSON
GOVERNOR

COMMISSION

Holm Bursum, III
Chairman, Socorro

Howard T. Begay
Vice-Chairman, Gallup

Peter T. Mocho, Sr.
Secretary, Albuquerque

Joe M. Anaya
Member, Stanley

Albert N. Sanchez
Member, Santa Rosa

Stanley G. Strebeck
Member, Clovis

DEPARTMENT

Secretary
Pete K. Rahn

General Office
P.O. Box 1149
Santa Fe, N.M.
87504-1149
505-827-5100

District One Office
P.O. Box 231
Deming, N.M.
88031-0231
505-546-2603

District Two Office
P.O. Box 1457
Roswell, N.M.
88202-1457
505-624-3300

District Three Office
P.O. Box 91750
Albuquerque, N.M.
87199-1750
505-841-2700

District Four Office
P.O. Box 30
Las Vegas, N.M.
87701-0030
505-454-3600

District Five Office
P.O. Box 4127
Coronado Station
Santa Fe, N.M.
87502-4127
505-827-9500

District Six Office
P.O. Box 2159
Milan, N.M.
87021
505-285-6623

October 2, 1995

Mr. Roger Martinez
D. Mark Goodwin & Associates, P.A.
P.O. Box 90606
Albuquerque, New Mexico 87199

Dear Mr. Martinez:

The Department's Drainage Section has reviewed and commented on the drainage report submittal for the seafood restaurant on Jefferson Street at Northbound I-25 East Frontage Road.

The Department has found your drainage report acceptable and have approved your recommendations. See the attached letter from our Drainage Section.

If we can be of further assistance, please contact us at 841-2700.

Sincerely,

Anthony Lopez

Anthony Lopez
District Three Traffic Engineer

/al
xc: Michael Barnes
Rae Van Hoven
Julian Vigil

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DRAINAGE INFORMATION SHEET

D44C

PROJECT TITLE: Landry's Seafood Restaurant ZONE ATLAS/DRNG.FILE#: F-17 / D44C

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract 1-A, McLeod Business Park

CITY ADDRESS: Jefferson & I-25 500 Jefferson NE

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Mark Goodwin PE

ADDRESS: PO Box 90606 PHONE: 345-2010

OWNER: Landry's Inc CONTACT: Brent Redus

ADDRESS: 1400 Post Oak, Houston, Tx PHONE: (713) 850-1010

ARCHITECT: Brand + Allen Architects CONTACT: Darayus Kolah

ADDRESS: 1400 Post Oak #200 PHONE: (713) 621-7393

SURVEYOR: Surv-Tek CONTACT: Gary Hugg

ADDRESS: 5643 Paradise Blvd NW PHONE: 897-3366

CONTRACTOR: N/A Adam CONTACT: 880-1182

ADDRESS: _____ PHONE: (875-0101) Restaurant

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- X DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- X GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION
- ____ OTHER

PRE-DESIGN MEETING:

- ____ YES
- X NO
- ____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SKETCH PLAT APPROVAL
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- X FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATION OF OCCUPANCY APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ S.A.D. DRAINAGE REPORT
- ____ DRAINAGE REQUIREMENTS
- ____ OTHER _____ (Specify)

DATE SUBMITTED: 8/18/95

BY: Mark Goodwin
Mark Goodwin PE

RECEIVED
AUG 18 1995
HYDROLOGY DIV

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New Mexico
State Highway and Transportation Department

INTRA-DEPARTMENTAL CORRESPONDENCE

...ECT: I-25 & Jefferson Street
Landry's Seafood Development

Date: 10/02/95

Anthony Lopez
District Three Traffic Engineer

File Ref:

Attention of:

...M: Raymunda A. Van Hoven
Drainage Engineer

R. Van Hoven

I have reviewed and have discussed the subject development with Mr. Roger Martinez of Mark Goodwin & Associates, and found the recommendations to be reasonable. It was determined that the proposed discharge from the development will not cause a drainage impact into the I-25, and the proposed discharge will be equivalent to its historical flow.

/RVH

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City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 23, 1996

Mark Goodwin
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: ENGINEER CERTIFICATION FOR LANDRY'S SEAFOOD RESTAURANT (F17-D44C) CERTIFICATION STATEMENT DATED 1/15/96.

Dear Mr. Goodwin:

Based on the information [illegible] on your January 16, 1996 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the Certificate of Occupancy will not be released until we receive concurrence from the State Highway Department for work done within their Right-of-Way.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

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PLANS/PLATS ON FILE

FILE DESC: F17/D44C

PLANS/PLATS 4

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