

WILSON & COMPANY

4900 Lang Ave, NE
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Latin America, LLC

3 June 2003

Dan Hogan, PE, LS
Hydrology Division Manager
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

H-10/D10

Subject: West I-40 Diversion Channel Utility Work at 64th Street, Hydrology at 64th Street. WCEA File: X02180027

Dan,

We have reviewed the Hydrology at 64th Street and looked at the drainage reports concerning modifications to the cul-de-sac at the end of 64th street.

Based on our hydrological model three basins 621 B, 621 C and 622 A (see enclosed Basin and Hydrologic Summary Map) potentially contribute flows to 64th Street. The 100-year flows for the Basins are as follows: Basin 621 B 30.09 cfs, Basin 621 C 69.57 cfs, and Basin 622 A 18.94 cfs. The portion of flows that are contributed to 64th Street are as follows: Basin 621 B 10.3 cfs, Basin 621 C 69.57 cfs, and Basin 622 A 0.0 cfs for a total of 79.6 cfs.

The report for the H10 D24 Juniper Run Ph II Subdivision located west of 64th Street, Basin 621A (see enclosed Basin and Hydrologic Summary Map and correspondence to COA) show 10.3 cfs being diverted to 64th Street. The remaining 19.79 cfs is diverted to a type "D" inlet with overflow at end of cul-de-sac adjacent to proposed channel. The engineer did make arrangements to have that 10.3 cfs move south through an asphalt rundown that was denied by COA. The plan was revised to include a concrete rundown at the end of 64th Street.

The H10 D10 El Tesoro Subdivision located west of 64th Street, Basin 622 A (see enclosed Basin and Hydrologic Summary Map) did indicate that flows are diverted to the east and are stored in an adjacent pond to the east. The grading plan also showed that 4 inlets were located at the end of 64th two more than the other grading plan (when they were installed is unknown). Included in the report was a sentence stating that the rundown was temporary until AMAFCA built the West I 40 Diversion Channel. No other documentation was found stating why this would be temporary.



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The new design addressed all the flows that make it to the inlets at the end of 64th Street a total of 79.6 cfs. The four existing inlets (1 Type "A" and 1 Type "C" on each side of 64th Street) and are in sump condition and have the capacity required. The southern edge of the roadway has been raised by 5 tenths to redirect flows north to the existing inlets (see sheet 5 of 11 Plans also enclosed).

If the inlets plug causing an overflow, the water surface elevation is approximately 2 feet below the adjacent finish floor elevations (see attached grading Plan) and the flows would be diverted to overtop the curb along the wheelchair ramp and flow into the new channel. In the unlikely event that flows would overtop the curb we will provide a riprap rundown from the wheelchair ramp to the proposed channel. We would like to include that portion of the work on the main project to follow.

Based on our analysis we have addressed three items in the new design.

1. Relocation of the wheel chair ramp.
2. Drainage at the end of 64th Street.
3. Re-alignment of roadways.

Also enclosed for reference information is our design plans for the work at 64th Street. If we have missed something please do not hesitate to call or drop me a line 348-4053.



Chris Perea, P.E.
Senior Associate
Wilson and Company Inc.

cc: Jerry Lovato, PE, Field Engineer-AMAFCA
H10 D24 Juniper Run Ph II Subdivision file
-H10 D10 El Tesoro Subdivision file





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 17, 2000

Mr. Richard Zidlick
1818 Moneda Drive NW
Albuquerque, New Mexico 87120

Certified
~~REGISTERED MAIL~~

RE: CROSS-LOT DRAINAGE COMPLAINT

Dear Sir:

Your neighbor at 1814 Moneda Drive NW has brought an adverse storm drainage condition to our attention. Runoff from your property drains onto theirs. This is classified as cross-lot drainage.

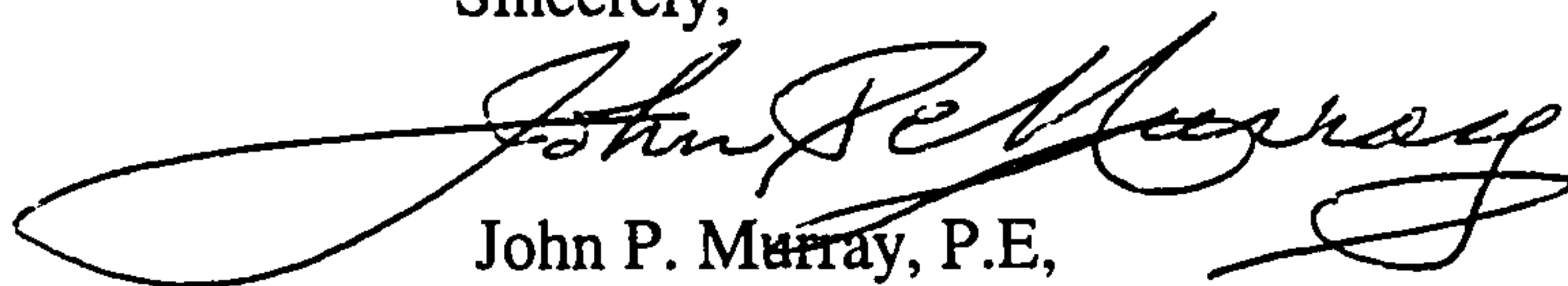
The Drainage Ordinance prohibits cross-lot drainage. That is why the approved Grading and Drainage Plan (H10-D10) for the El Tesoro Subdivision calls for each lot/residence to drain to the public right-of-way. The backyards and sideyards are intended to drain through swales in the sideyards to the street.

The concrete paving on the southside of your residence not only eliminated the intended swale but also directs the storm runoff to the property line. Your lot is at a higher elevation than your neighbor's. With the downspout for your roof gutter located to the rear of your home, that runoff also is directed to the property line, and for a longer length and time.

While such adverse effects are generally unintended, they often are a source of friction between neighbors. Should the parties fail to resolve the problem, the damaged party usually brings the matter to court. The City is not a party to these suits but strives to define the problem so that the home owners fully understand the drainage requirements and their responsibilities. To avoid potential litigation (which serves no one), please work to direct your runoff to the street.

If I can be of further assistance, please contact me at 924-3984.

Sincerely,


John P. Murray, P.E.,
Hydrology

c: The Jaramillos, 1814 Moneda Dr NW
✓ File

RIVERA ENGINEERING
2624 Valencia Dr. N.E.
Albuquerque, NM 87110
January 17, 1993

Gilbert Aldaz, Engineer
Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

RE: ENGINEERS'S CERTIFICATION - EL TESORO SUBDIVISION (H10-D10)

Attached is a copy of the original Drainage Plan with "as built" information and ground elevations to show substantial compliance with the original drainage plan.

The planned pads, walls and swales have been constructed.

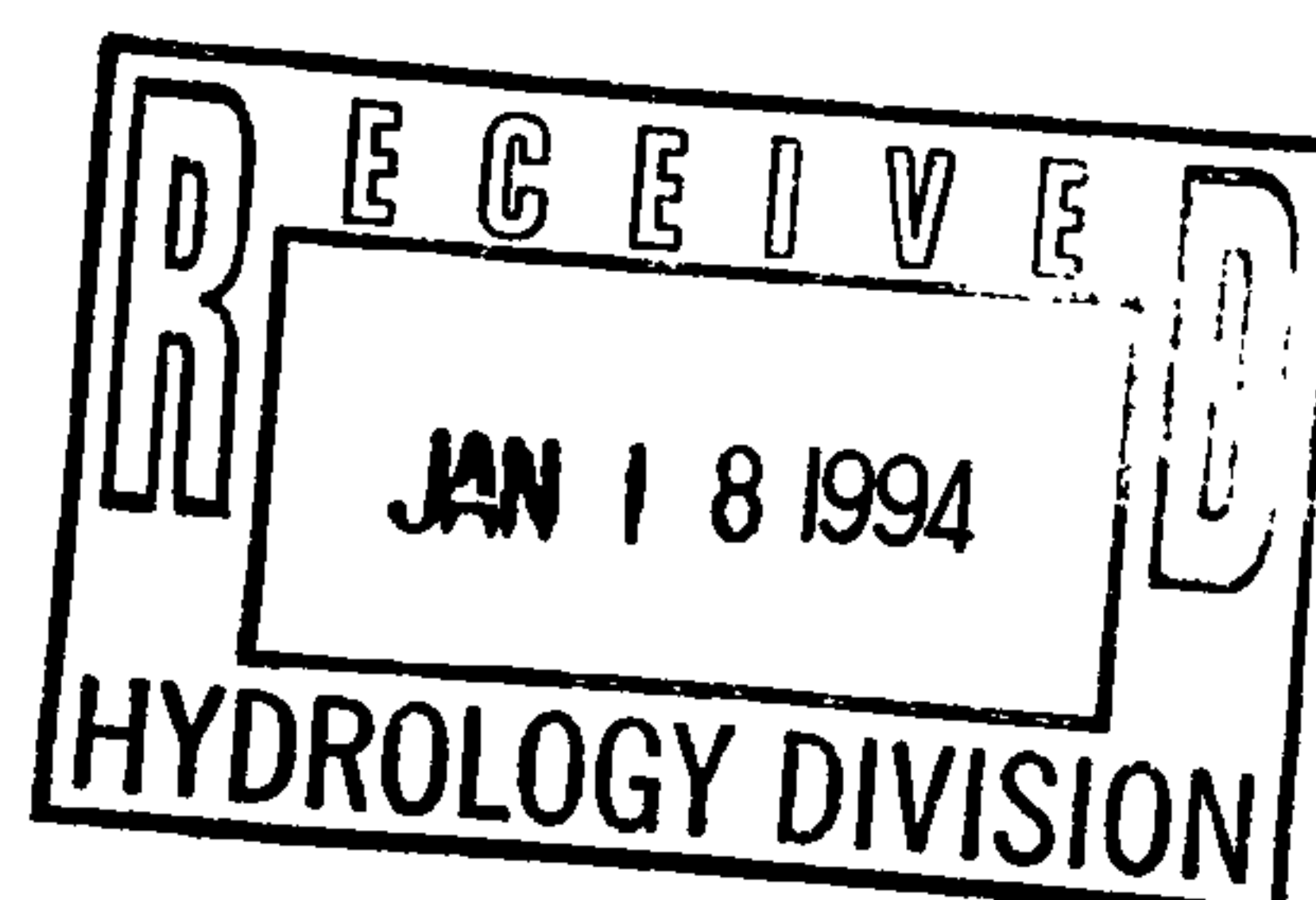
As indicated in the original drainage plan, There is no off-site runoff involved. Only on-site runoff needs to be controlled. That runoff is relatively small and will not flood any of the lots within this subdivision. They are all be well above the 100 year flood flow water lines.

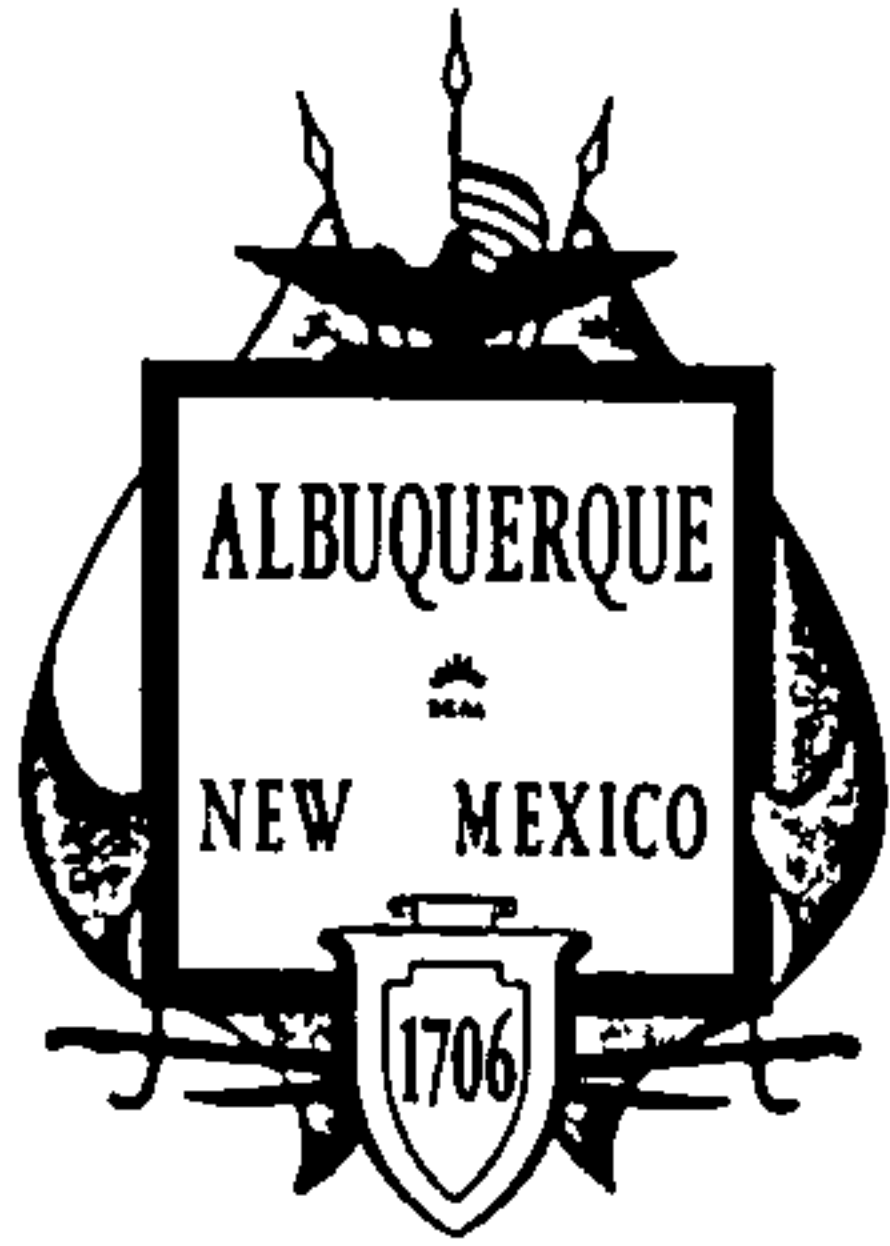
If you need additional information or have any questions please call me at 881-3419.

Sincerely

Raul A. Rivera
Raul A. Rivera
P.E. & L.S.

Virgil Gil, Owner





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 29, 1993

Raul A. Rivera, P.E.
Rivera Engineering
2624 Valencia Drive NE
Albuquerque, New Mexico 87110

RE: ENGINEER'S CERTIFICATION FOR EL TESORO SUBDIVISION (H10-D10),
RECEIVED DECEMBER 20, 1993.

Dear Mr. Rivera:

Based on the information provided on the referenced submittal received December 20, 1993, the plan does not meet the requirements of the Certification Checklist provided to you by this office on December 15, 1993.

A field inspection performed on December 27, 1993 by this office also substantiates that pads, side yard swales and required walls have not been constructed as required by the checklist.

Until such time that these items are constructed, this office will not be able to accept your Certification. If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

xc: Lynda Michell DeVanti, DRC
Virgil Gil, Owner
(File)

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PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 15, 1993

Paul Rivera
Rivera Engineering
2624 Valencia Drive NE
Albuquerque, NM 87110

RE: EL TESORO GRADING CERTIFICATION (H10-D10) ENGINEER'S STAMP
DATED 11/17/93.

Dear Mr. Rivera:

As I discussed with you this morning, the subject submittal does not meet the certification requirement established by the D.P.M. Consequently, we cannot review your plan as submitted.

I am attaching a copy of the D.P.M. certification checklist for your information and use.

If I can be of further assistance, please don't hesitate to call me at 768-2668.

Sincerely,

Fred J. Aguirre
City Hydrologist

FJA/d1/WPHYD/8161

xc: File

PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 25, 1995

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Golden Falcon, Inc.
Virgil Gil
3821 Avalon N.W.
Albuquerque, NM 87107

RE: PROJECT NO. 4547.80 EL TESORO (MAP H-10)

Dear Sir:

This is to certify that the City of Albuquerque accepts Project No. 4547.80 completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- This project consists of paving and sidewalk improvements on Juniper Road and sidewalk improvements on 64th Street. Construction of pavement, pavement, sanitary sewer, water and storm drain within the El Tesoro Subdivision. Also, as of this date the City of Albuquerque accepts the asphalt pavement as being complete.

The contractor's correction period begins February 4, 1994 excluding the asphalt pavement which begins with the date of this letter and will be effective for a period of one (1) year.

Sincerely,

Rick Roybal, P.E.
City Engineer,
Engineering Group
Public Works Department

Sincerely,

Russell B. Givler, P.E.
Chief Construction Engineer,
Engineering Group
Public Works Department

MAR 28



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 9, 1994

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Norm Gregory
Centex Real Estate Corporation
10701 Montgomery N.E.
Albuquerque, NM 87111

RE: PROJECT NO. 4518.81 CANYON HILLS SUBDIVISION PHASE II

Dear Norm Gregory,

This is to certify that the City of Albuquerque accepts Project No. 4518.81 as being completed excluding the storm sewer portion according to approved plans and construction specifications.

Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- Extended paving, water, sewer and storm sewer to service lots 80 thru 127 of Canyon Hills Phase II subdivision.

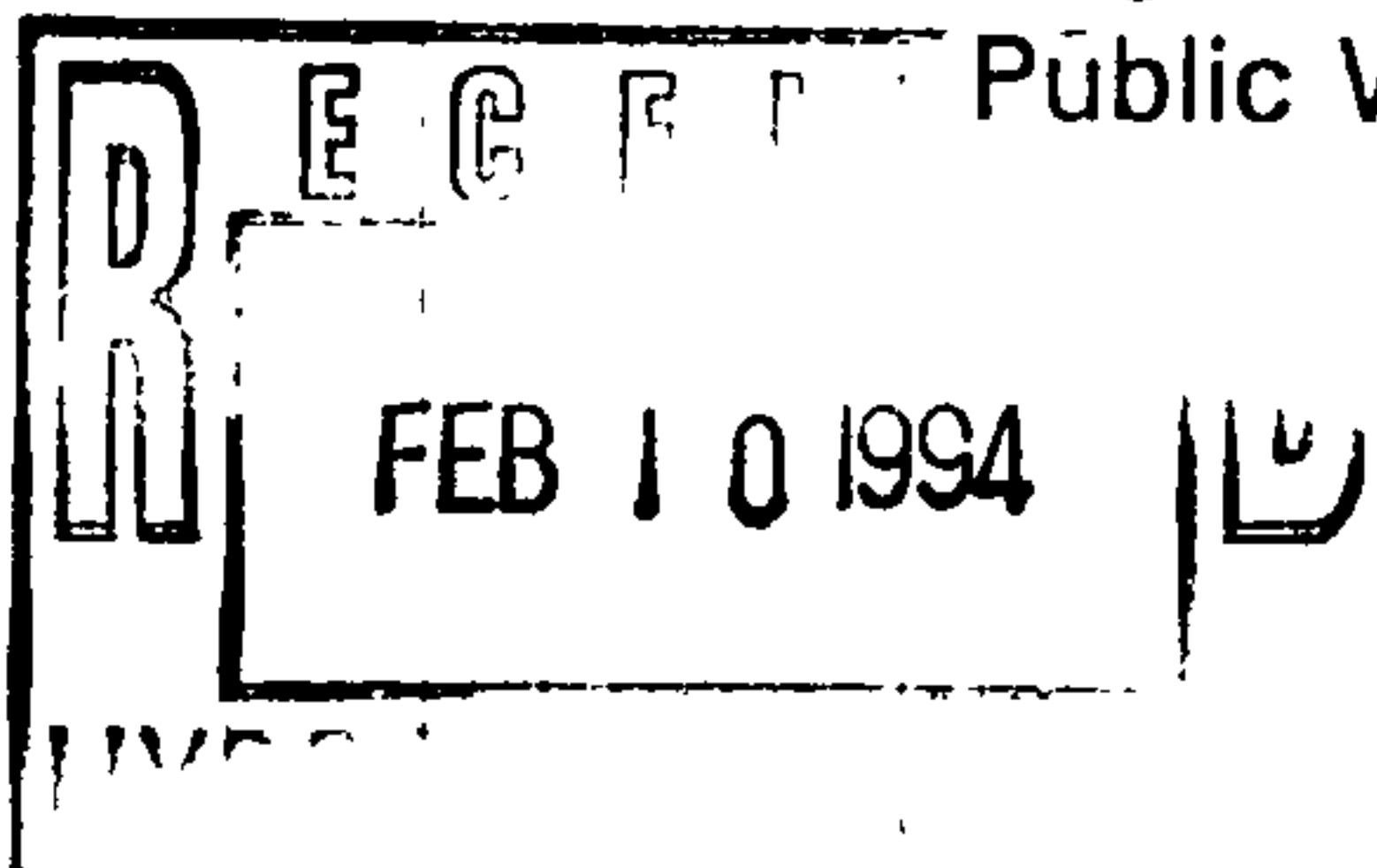
The contractor's correction period begins the date of this letter and will be effective for a period of one (1) year.

Sincerely,

Rick Roybal, PE
City Engineer,
Engineering Group
Public Works Department

Sincerely,

Russell B. Givler, PE
Chief Construction Engineer,
Engineering Group
Public Works Department





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 8, 1994

*****REVISED PARTIAL***
CERTIFICATE OF COMPLETION AND ACCEPTANCE**

Golden Falcon, Inc.
Virgil Gil
3821 Avalon N.W.
Albuquerque, NM 87105

RE: PROJECT NO. 4547.80, EL TESORO (MAP H-10)

Dear Mr. Gil:

This certificate of completion of acceptance is to replace the partial acceptance letter dated December 13, 1993. This is to certify that the City of Albuquerque accepts as being completed according to approved plans and construction specifications the sanitary sewer, water, storm sewer, and curb and gutter. **The City of Albuquerque does not accept as completed the asphalt pavement.** Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- This project consists of paving and sidewalk improvements on Juniper Road and sidewalk improvements on 64th Street. Construction of pavement, sanitary sewer, water, and storm drain within the El Tesoro Subdivision.

The contractor's correction period for the accepted work began on December 13, 1993, and will be effective for a period of one (1) year.

Sincerely,

Rick Roybal, PE
City Engineer,
Engineering Group
Public Works Department

Sincerely,

Russell B. Givler, PE
Chief Construction Engineer,
Engineering Group
Public Works Department

FEB 10 1994



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 26, 1994

Raul A. Rivera, P.E.
Rivera Engineering
2624 Valencia Drive NE
Albuquerque, New Mexico 87110

RE: ENGINEER'S CERTIFICATION FOR EL TESORO SUBDIVISION (H10-D10),
ENGINEER'S STAMP DATED JANUARY 17, 1994 PROJECT No. 4547.

Dear Mr. Rivera:

Based on the information provided on the referenced submittal received January 18, 1994, the plan meets the requirements for Engineer's Certification as identified on the infrastructure list. This Division has no objection to release of the Financial Guarantees through DRC.

If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

xc: Lynda Michelle DeVanti, DRC
Virgil Gil, Owner
File

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PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 24, 1992

Raul A. Rivera, P.E.
Rivera Engineering
2624 Valencia Drive, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR TRACTS 290 & 29, UNIT 8, TOWN OF ATRISCO, EL TESORO
SUBDIVISION, (H-10/D10), ENGINEER'S STAMP DATED AUGUST 1992

Dear Mr. Rivera:

Based on the information provided on the referenced submittal received August 21, 1992, the plan is acceptable for Preliminary and Final Plat approval.

Please be advised that prior to the City Engineer signing-off on the Final Plat, financial guarantees must be in place with DRC. Also, the temporary pond needs to be dedicated as a drainage easement, and the developer needs to execute a maintenance agreement in that he will maintain the pond until such time that permanent improvements are in place, since this is a temporary retention pond.

If you should have any questions, please do not hesitate to call me at 768-2666.

Cordially,

Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

xc: Roger Green, DRC Chairman
Alan Martinez
File

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PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 2, 1992

Raul A. Rivera, P.E.
Rivera Engineering
2624 Valencia Drive, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR TRACTS 290 & 29, UNIT 8, TOWN OF ATRISCO, EL
TESORO SUBDIVISION, RECEIVED APRIL 20, 1992 FOR PRELIMINARY AND
FINAL PLAT APPROVAL (H-10/D10)

Dear Mr. Rivera:

Based on the information provided, kindly address the following comments prior to Preliminary Plat approval:

1. Submit an infrastructure list for review.
2. The outlet detail proposed does not meet City Standards and Storm Drain Maintenance requirements. The system should be either concrete channel with a minimum width of 10 feet or a storm drain with inlets, not a combination.
3. All street slopes should be set at a minimum of 0.50% in order to assure positive drainage.
4. The method used for calculating peak flow and volumes has been revised, there are now 4 treatment types. Either use the current version or use the rational method per the 1986 Emergency Rule. I don't know why but your flow rates and volumes seem low.
5. All side yard swales need to be set at a minimum of 1%.
6. Show the locations where your street hydraulics were taken. Be advised that if flows overtop the mountable curb then you need to go with Standard Curb and Gutter.
7. Show the drainage basin boundaries.
8. Show the existing capacity of the inlets and demonstrate if they can handle some of your flows.

PUBLIC WORKS DEPARTMENT

Raul A. Rivera, P.E.

June 2, 1992

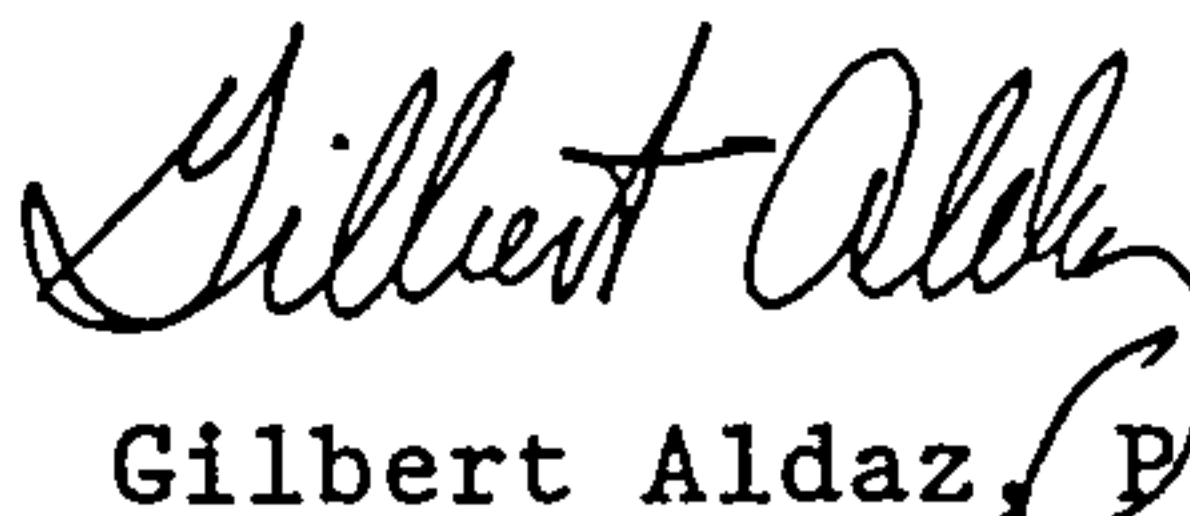
Page 2

9. Be advised that the scale on this plan does not meet the requirements for rough grading the site. A scale of 1" = 20' should be submitted to provide the necessary detail to grade the site.
10. I cannot find the lots that are applicable to note 2.
11. How does your outlet tie in with the future West Bluff extension? I believe that there are preliminary channel grades available at this time. Scanlon and Associates is currently under design contract of this channel with the City.

Prior to the City Engineer signing off on the final plat, an approved Subdivision Improvement Agreement must be executed with DRC.

If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,



Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

xc: Roger Green, DRC Chairman

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