

September 16, 2009

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Re: Mesa del Sol Drainage Area Two COA Project No. 7754.78 Drainage Management Exhibit, Sheet 13R of 13 and Pond P Grading

Engineer's Stamp date 9-11-09 (R16/DA2)

Dear Mr. Balaskovits,

Based upon the information provided in your submittals received 9-11-09 and 9-15-09, the above referenced plans are approved for Work Order, with the comment that the swale to direct runoff to Pond P be built between the stock pile and the ROW rather than through the stock pile as shown on the exhibit.

PO Box 1293

Albuquerque

NM 87103

Sincerely,

Cuttu a. Cherre, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

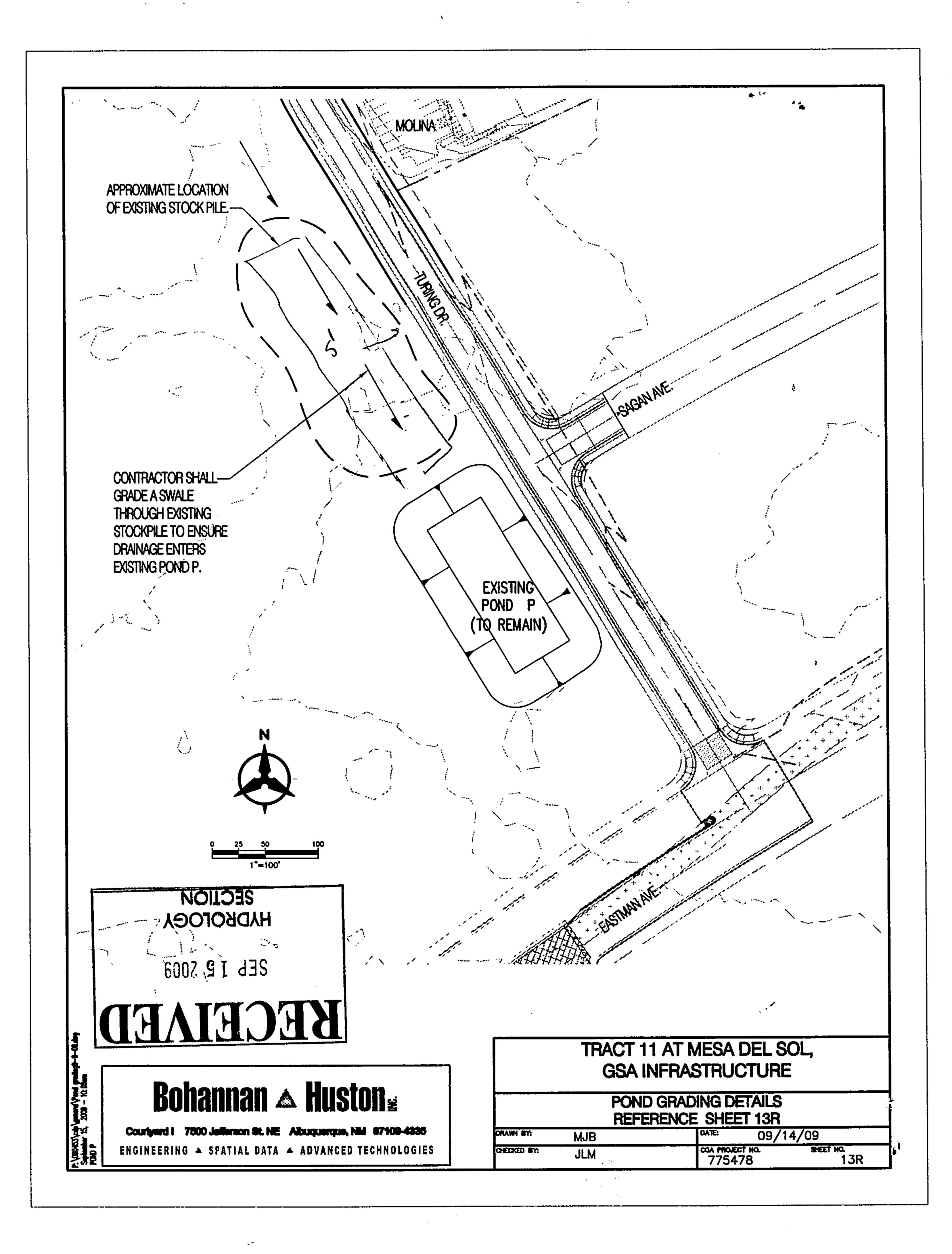
www.cabq.gov

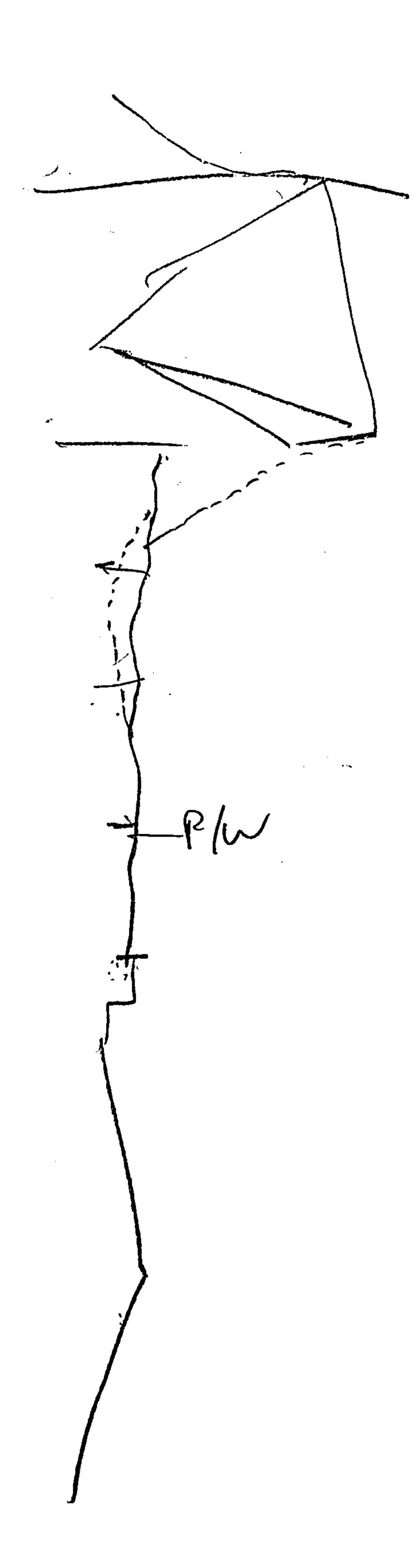
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PROJECT TITLE: Tract 11 at Mesa del Sol GSA Infrastructure (CDRB#: EPC#:	
LEGAL DESCRIPTION:	
CITY ADDRESS:	
ENGINEERING FIRM: Bohannan Huston,Inc.	CONTACT: Mike Balaskovits
ADDRESS: 7500 Jefferson NE	PHONE: (505)-823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: 87109
OWNER: Forest City Covington, N.M., LLC	CONTACT: Manny Barrera
ADDRESS: 801 University Blvd. SE, Suite 200	PHONE: 505-400-3021
CITY, STATE: Albuquerque, NM	ZIP CODE: 87106
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ARCHITECT:	CONTACT:
ADDRESS:CITY, STATE:	PHONE:
CHI, SIMIE.	ZIP CODE:
SURVEYOR:	CONTACT:
ADDRESS:	
CITY, STATE:	
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CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	
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DRAINAGE REPORT DRAINAGE DI ANI 1 St CLIDAGETTA I	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1 st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN GRADING PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL
EROSION CONTROL PLAN	FINAL PLAT APPROVAL
ENGINEER'S CERT (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
CLOMR/LOMR	BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCY (REMIN)
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ENGINEER/ARCHITECT CERT (AA)	GRADING PERMIT APPER DALL PAVING PERMIT APPER DALL
X OTHER (Public Infrastructure Drainage	WORK ORDER APPRINAT
Management Plan)	X OTHER (DRC Hydrology Approval) EP 1 1 2009
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	HYDROLOGY
NO	
COPY PROVIDED	SECTION
	·
SUBMITTED BY: Mike Balaksovits	DATE: 9-11-09

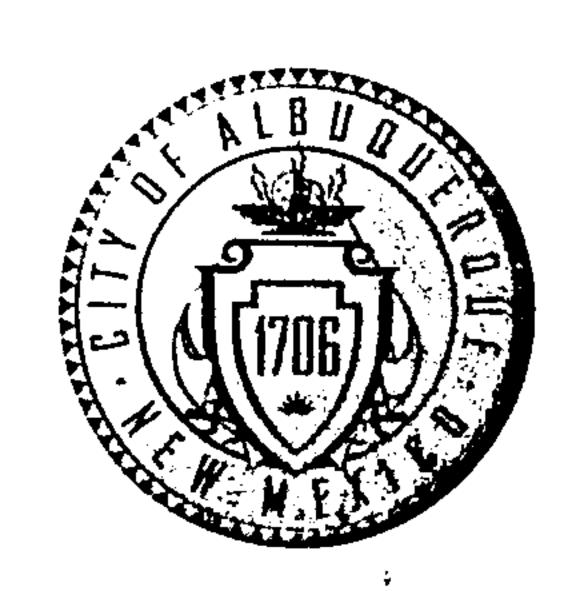
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





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August 12, 2009

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Mesa del Sol Drainage Area Two COA Project No. 7754.78 Drainage Re: Management Exhibit and Sheet 13R of 13.

Engineer's Stamp date 8-10-09 (R16/DA2)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 8-11-09, the above referenced plan is approved for Work Order.

PO Box 1293

Albuquerque

Sincerely,

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept. Development and Building Services

NM 87103

file

www.cabq.gov

DRB#: EPC#:	ture (COA Prit #775478) ZONE MAP/DRG. FILE #_R-16 /D/A WORK ORDER#:
LEGAL DESCRIPTION:	
CITY ADDRESS:	- · · · · · · · · · · · · · · · · · · ·
ENGINEERING FIRM: Bohannan Huston,Inc.	CONTACT: Mike Balaskovits
	PHONE: (505)-823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: 87109
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OWNER: Forest City Covington, N.M., LLC	CONTACT: Manny Barrera
ADDRESS: 801 University Blvd. SE, Suite 200	PHONE: 505-400-3021
CITY, STATE: Albuquerque, NM	ZIP CODE: 87106
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ARCHITECT:	CONTACT:
ADDRESS:CITY, STATE:	PHONE: ZIP CODE:
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CITY, STATE:	ZIP CODE:
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DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL
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ENGINEER'S CERT (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
CLOMR/LOMR `	BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
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ENGINEER/ARCHITECT CERT (AA)	PAVING PERMIT APPROVAT
X OTHER (Public Infrastructure Drainage	X WORK ORDER APPROVAL ASOJONAH
Management Plan)	X OTHER (DRC Hydrology Approval)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	6002 I I 9NA
YES	14:35
NO	
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SUBMITTED BY: Mike Balaksovits	DATE: 8/11/09

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

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UPDATED DRAINAGE BASIN/ POND SUMMARY TABLE

								POND	PUND	POND
	AREA				V 360	Q100	WSL	TOP	воттом	VOLUME
BASIN ID	(ac)	%A	%C	%D	acre-ft	cfs	ELV	ELEV	ELEV	acre-ft
*P	21.06	85	5	10.00	1.2	41.13	5297.0	5300.0	5293.0	1.2
*Q	3.22	72.5	10	17.50	0.2	7.68	5296.0	5299.0	5293.0	0.2

^{*} BASINS UPDATED TO ACCOUNT FOR COA PROJECT # 775489 DEVELOPED CONDITIONS ALONG TURING DRIVE

STREET CAPACITY CALCULATIONS FOR TURING DRIVE

MANNING'S N = 0.017 SLOPE = 0.005

POINT DI	ST/EN	EV P	OINT DIST	Γ ELEV	POINT	DIST EL	.EV				_	
1.0 0.0	(0.9)	5.		0.1		39.2 0.7						
2.0 10.4	67	6.	_	0.4		39.6 0.7						
3.0 10.8	0.7	7.		0.1		50.0 0.9)					
4.0 11.0	0.0	8.		0.0								
) (
						1	•					
WSEL	DEPTH	FLOW	/ FLOW	WETTED	FLOW	V TOPWID	1	TOTAL				
	INC	AREA	RATE	PER	VEL	PLUS	1	ENERGY				
FT.		SQ.FT.	(CÌS)	(FT)	(FPS)	OBSTRUCT	приs	(FT)				
							1					
0.020	0.020	0.006	0.002	0.658	0.286	1.545		0.021				
0.040	0.040	0.025	0.011	1.316	0.453	2.170	}	0.043				
0.060	0.060	0.056	0.033	1.974	0.594	2.796	1	0.065				
0.080	0.080	0.100	0.072	2.632	0.719	3.421		0.088				
0.100	0.100	0.156	0.130	3.28 0	0.835	4.046		0.111				
0.120	0.120	0.225	0.212	3.947	0.943	4.671		0.134				
0.140	0.140	0.310	0.297	5.297	0.959	5.989]	0.154				
0.160	0.160	0.431	0.415	7.339	Q .962	7.999		0.174				,
0.180	0.180	0.593	0.599	9.380	1.0(10	10.009		0.196				·
0.200	0.200	0.795	0.856	11.422	1.0፞ሺ7	12.019	1	0.218		•		
0.220	0.220	1.037	1.194	13.463	1.15ছ	14.028		0.241				
0.240	0.240	1.319	1.624	15.505	1.231	√16.038	10	<i>)</i> 0.264				
0.260	0.260	1.642	2.153	17.547	1.311	₹8.048	1()	0.287				
0.280	0.280	2.004	2.790	19.588	1.392	2 0 .058		0.310				
0.300	0.300	2.407	3.544	21.630	1.472	22 .0 68	1	0.334				
0.320	0.320	2.850	4.423	23.671	1.552	24.07 \		0.357				
0.340	0.340	3.333	5.434	25.713	1.630	26.087	1	0.381				
0.360	0.360	3.857	6.585	27.755	1.707	28.097 \	1	0.405				
0.380	0.380	4.416	8.050	28.796	1.823	29.107		0.432				
0.400	0.400	4.979	9.826	28.837	1.973	29.117		0.461				
0.420	0.420	5.543	11.739	28.878	2.118	29.127	\	0.490				
0.440	0.440	6.108	13.784	28.920	2.257	29.137		0.519				
0.460	0.460	6.672	15.957	28.961	2.392	29.147	V	0.549				
0.480	0.480	7.237	18.253	29.002	2.522	29.156	\mathcal{N}	0.579	- س	0.90	(Sub crit	i
0.500	0.500	7.802	20.669	29.043	2.649			0.609	F1 =			ical)
0.520	0.520	8.367	23.201	29.084	2.773		1	0.640				ŕ
0.540	0.540	8.932	25.848	29.126	2.894		\	0.670				
0.560	0.560	9.497	28.605	29.167			•	Q.704				
0.580	0.580	10.063	31.471	29.208				(0.732)				
0.600	0.600	10.629	34.443	29.249				0.763				
0.620	0.620	11.195	37.518	29.290				0.795				
0.640	0.640	11.761	40.696	29.332				0.826				•
0.660	0.660	12.327	43.973	29.373				0.858				
0.680	0.680	12.899	46.368	30.382		5 30.238		0.881				
0.700	0.700	13.533	47.268	33.278		32.214		0.890				•
0.720	0.720	14.197	49.265	35.255		34.190		0.907				
0.740	0.740	14.900		37.231		36.167		0.926				
0.760	0.760	15.643		39.208				0.945				
0.780	0.780	16.426		41.185				0.965				
0.800	0.800	17.248		43.161	3.453			0.985				
0.820	0.820	18.110		45.138				1.006				
0.840	0.840	19.011		47.114		46.048		1.028				
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September <u>1</u>6, 2009

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M Albuquerque. 2425 Jefferson Vice President Franklin's Earthmoving, John Ellis Z and a

Tract 11 at Mesa del Sol, GSA Infrastructure (COA WO# 775478) Design Revisio

Dear John:

project. areas. This letter Sheet mpanies 13R shows the ₩ revised construction Sheet 13 associated with the pond grading of the modifications to the original pond and addition drainage swales to existing ponding referenc

into the order for This 5 addition the COA swale contract as drainage to the COA Hydrology department requested that a swale be constructed along the west side rainage to be diverted to the existing Pond P and not into Turing Dr. (see attached Pond P shall be shown on the as-builts upon completion of this project. This revision shall hereby stract as well as reflected in the Record Drawings. side d P s wale Turing in exhibit)

Please feel free to give me a call at 823-1000 if you should have any questions or comments

Sincerely

er inti

Michael Balaskovits,

Project Manager

Community Development and Pla nning

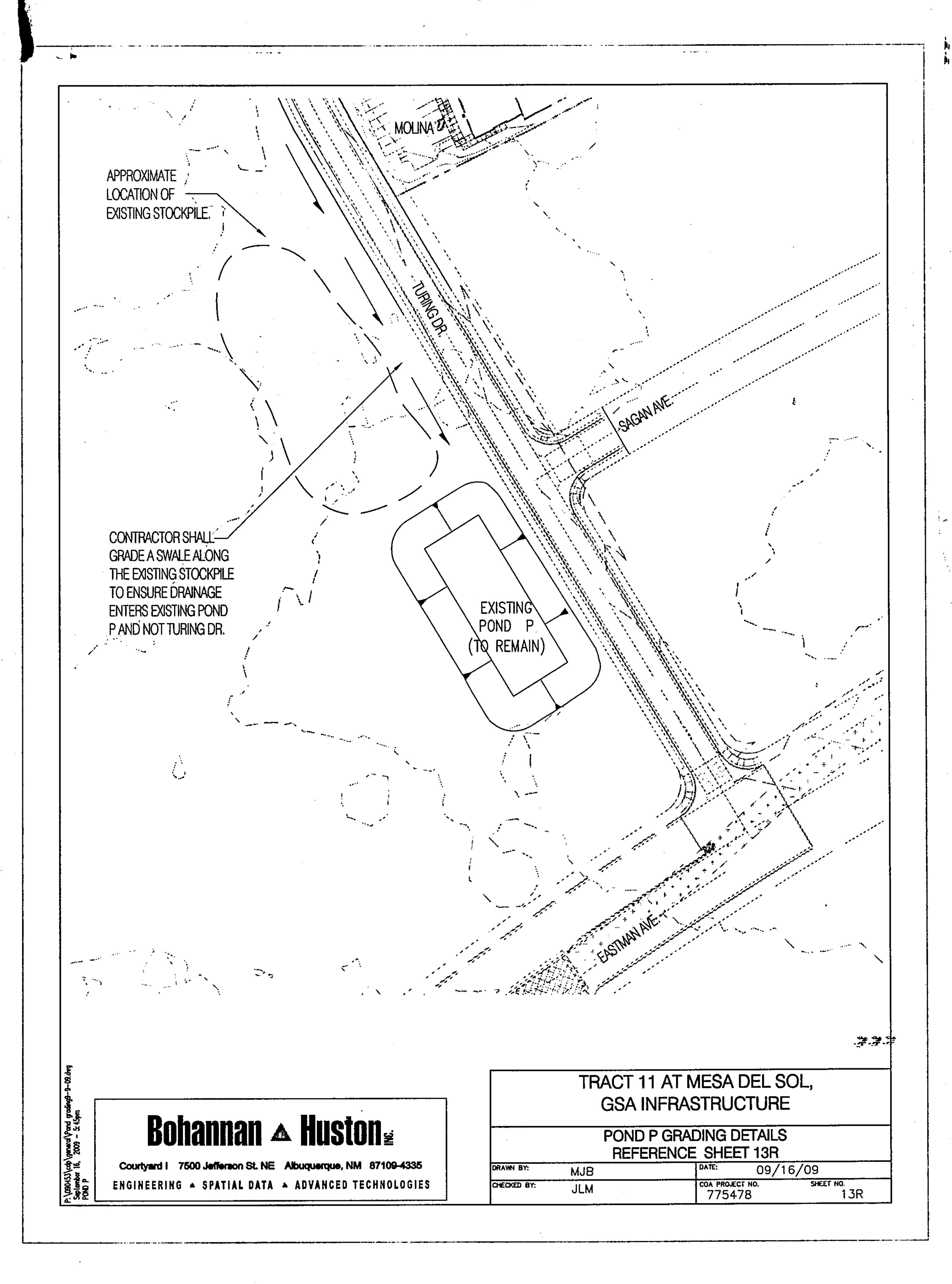
MJB

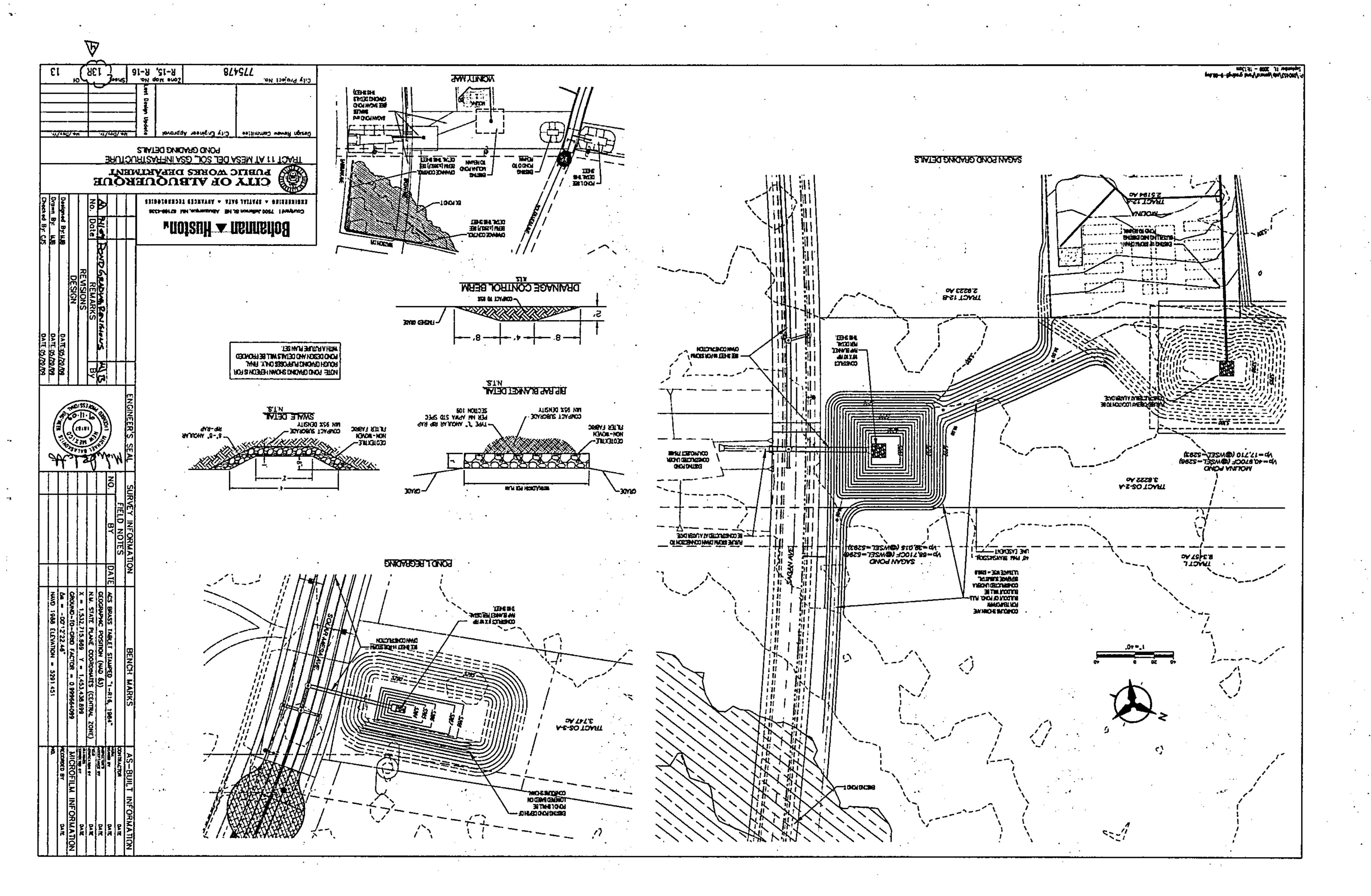
Enclosure

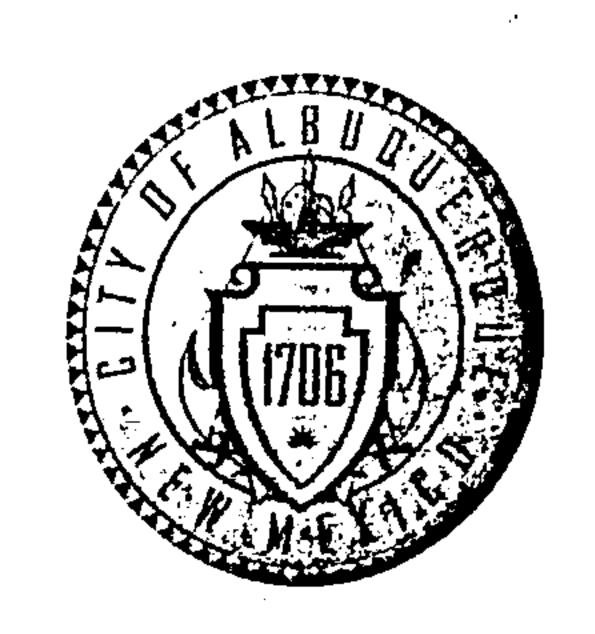
Steve Morrov Will Plotner, Manny Morrow, Balling, Barrera, MDS $\widetilde{\mathbf{x}}$ Surveys (w/ encl.) encl.) encl.)

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June 4, 2008

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Re: Mesa del Sol Drainage Area 2 Drainage Management Plan Engineer's Stamp dated 5-19-08 (R16/DA2)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 5-19-08, the above referenced plan is accepted as the Drainage Area Management Plan for DA2.

In the future, please label the streets.

PO Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

NM 87103

Sincerely,

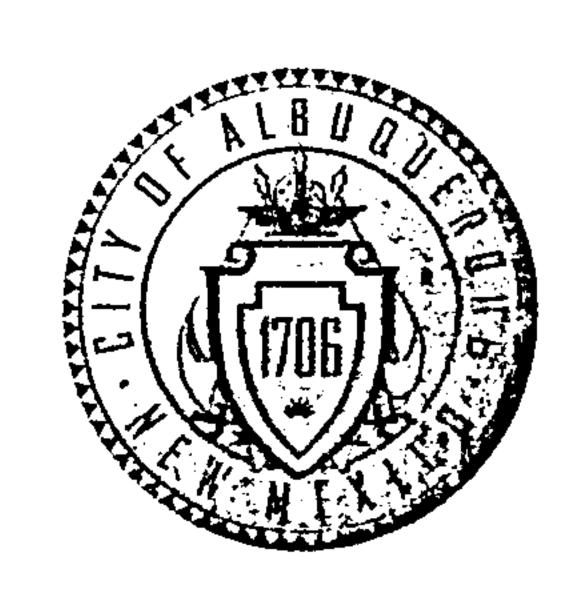
Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept.

Development and Building Services

www.cabq.gov

C· file



April 15, 2008

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Re: Mesa del Sol Drainage Area 2 Drainage Management Plan Engineer's Stamp dated 4-2-08 (R16/DA2)

Dear Mr. Mulberry,

Based upon the information provided in your submittal received 4-3-08, the above referenced plan is accepted as the Drainage Area Management Plan for DA2.

In the future, please label the streets.

PO Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

NM 87103

www.cabq.gov

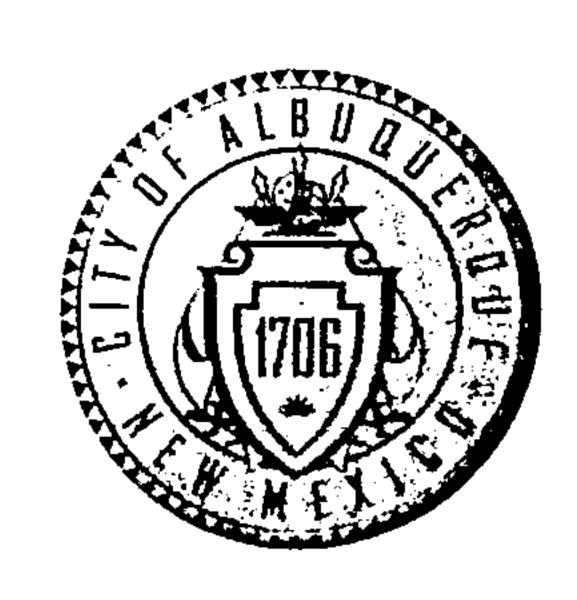
Sincerely,
Cinter a. Chew

Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept.

Development and Building Services

file



June 8, 2009

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Re: Mesa del Sol Drainage Area Two COA Project No. 7754.78 Drainage Management Exhibit

Engineer's Stamp date 5-22-09 (R16/DA1)

Dear Mr. Balaskovits,

file

Based upon the information provided in your submittal received 5-22-09, the above referenced plan is approved for Work Order. It appears that runoff from portions of Tract 13 and 14 would enter the pond and these areas were not included in the table. However, the pond's provided volume is large enough so it is acceptable.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Sincerely, Cutu a. Chem

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

DRB#: EPC#:	Prjt #775478) ZONE MAP/DRG. FILE #_R-16 / D/ WORK ORDER#:
LEGAL DESCRIPTION:	
CITY ADDRESS:	
ENGINEERING FIRM: Bohannan Huston,Inc.	CONTACT: Mike Balaskovits
ADDRESS: 7500 Jefferson NE	PHONE: (505)-823-1000
CITY, STATE: <u>Albuquerque</u> , NM	ZIP CODE: <u>87109</u>
OWNER: Forest City Covington, N.M., LLC	CONTACT: Manny Barrera
ADDRESS: 801 University Blvd. SE, Suite 200	PHONE: 505-400-3021
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE:87106
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL
	FINAL PLAT APPROVAL
	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCE (FINE)
ENGINEER/ARCHITECT CERT (DRB S.P.)	GRADING PER LET PP OVER PAVING PERMIT PROVIDE LET PROV
	WORK ORDER APPROVAL OTHER (DRC Hydrology Approval) 2009
WAS A PRE-DESIGN CONFERENCE ATTENDED:	CITICIC LIYULOLOGY TWHYLO WILL COOL
YES	
NO	HYDROLOGY
COPY PROVIDED	SECTION

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



November 7, 2008

Michael Balaskovits, P.E. Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

Re: Mesa del Sol Drainage Area 2 Drainage Management Plan Engineer's Stamp dated 11-4-08 (R16/DA2)

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received 11-4-08, the above referenced plan is accepted as the Drainage Area Management Plan for DA2.

If you have any questions, you can contact me at 924-3695.

PO Box 1293

Sincerely,

Albuquerque

Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept. Development and Building Services

NM 87103

C: file

www.cabq.gov

(IXCV. I	R-16/DA	4-2
PROJECT TITLE: Mesa del Sol Drainage Area 2 (DA2)	アー/シ/ア Z-/ら/DA ZONE MAP/DRG. FILE # R-15, R-16	
DRB#: EPC#:	WORK ORDER#:	
LEGAL DESCRIPTION: A portion of Tract 4-A, Plat of Mesa	del Sol Tracts 4-A. 4-B & 4-C	
CITY ADDRESS:		
ENGINEERING FIRM: Bohannan Huston,Inc.	CONTACT: Mike Balaskovits	
ADDRESS: 7500 Jefferson NE	PHONE: (505)-823-1000	
CITY, STATE: <u>Albuquerque</u> , NM	ZIP CODE: 87109	
OWNIED: Earact City Covington NLM 11C	CONTRACT. Manny Dorroro	
OWNER: Forest City Covington, N.M., LLC	CONTACT: Manny Barrera	
ADDRESS: 801 University Blvd. SE, Suite 200	PHONE: 505-400-3021	
CITY, STATE: <u>Albuquerque</u> , NM	ZIP CODE:87106	
ARCHITECT:	CONTACT:	
ADDRESS:	PHONE:	
CITY, STATE:	ZIP CODE:	
SURVEYOR:	CONTACT:	
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DRAINAGE PLAN 1 st SUBMITTAL	PRELIMINARY PLAT APPROVAL	
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GRADING PLAN	SECTOR PLAN APPROVAL	
EROSION CONTROL PLAN	FINAL PLAT ÁPPROVAL	
ENGINEER'S CERT (HYDROLOGY)	FOUNDATION PERMIT APPROVAL	
CLOMR/LOMR	BUILDING PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT	CERTIFICATE OF OCCUPANCY (PERM)	
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)	•
ENGINEER/ARCHITECT CERT (DRB S.P.)	GRADING PERMIT APPROVAL	
ENGINEER/ARCHITECT CERT (AA)	PAVING PERMIT APPROVAL TO THE	
X OTHER (DRAINAGE AREA DRAINAGE	WORK ORDER APPROVAL	
MANAGEMENT PLAN) パグランBへいてイオし	OTHER (DRAINAGE AREA DMP) APPROVAL)	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	NOV C 4 2008	
YES	I WUV CA COO	1
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COPY PROVIDED	HYDROLOGY	
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11/04/08

Mike Balaksovits

SUBMITTED BY: ___

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
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