

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

May 6, 2021

Mark H. Burak, P.E.
1512 Sagebrush Trail SE
Albuquerque, NM 87123

RE: 10516 Olympic St. NW
Revised Grading and Drainage Plan
Engineer's Stamp Date: 01/11/21
Engineer's Certification Date: 05/03/21
Hydrology File: A12D028

Dear Mr. Burak:

PO Box 1293
Albuquerque
NM 87103

Based upon the information provided in your submittal received 05/04/2021 and site photos sent on 5/04/21, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 10516 Olympic St. NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

www.cabq.gov

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 10516 Olympic NW **Building Permit#:** _____ **Hydrology File#:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lot 11, Block 12, Paradise Heights Unit 1, City of Albuquerque, NM
City Address: 10516 Olympic NW

Applicant: Burak Consulting **Contact:** Mark Burak, PE
Address: 1512 Sagebrush Tr SE, 87123
Phone#: (505) 235-2256 **Fax#:** _____ **E-mail:** mburak@comcast.net

Other Contact: Desert Fox, LLC **Contact:** Mohamad Tahat
Address: _____
Phone#: (575) 650-0380 **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT : _____ PLAT (# of lots) ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☒ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLICATION
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

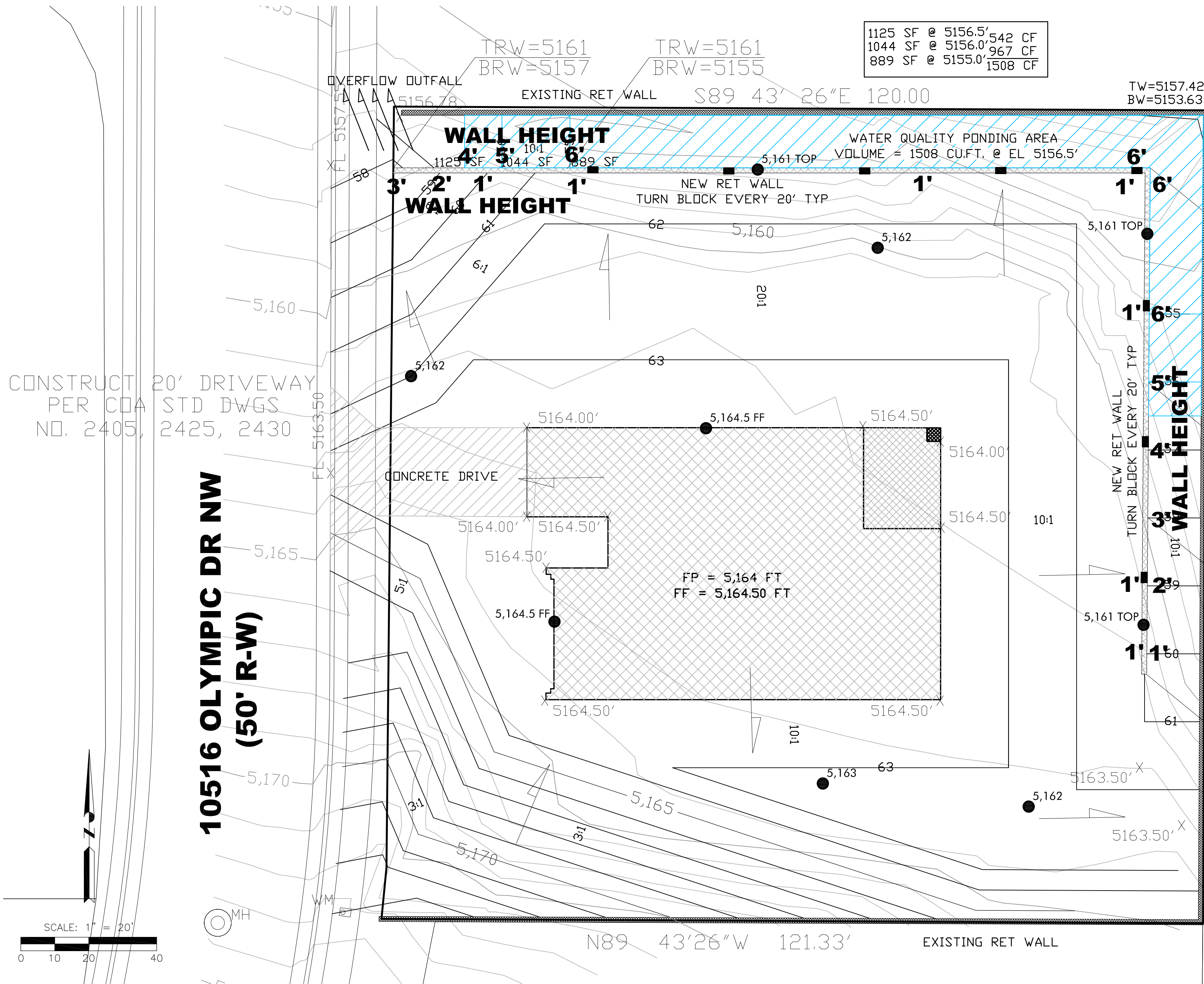
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☒ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: May 3, 2021 **By:** Mark Burak

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: \$75



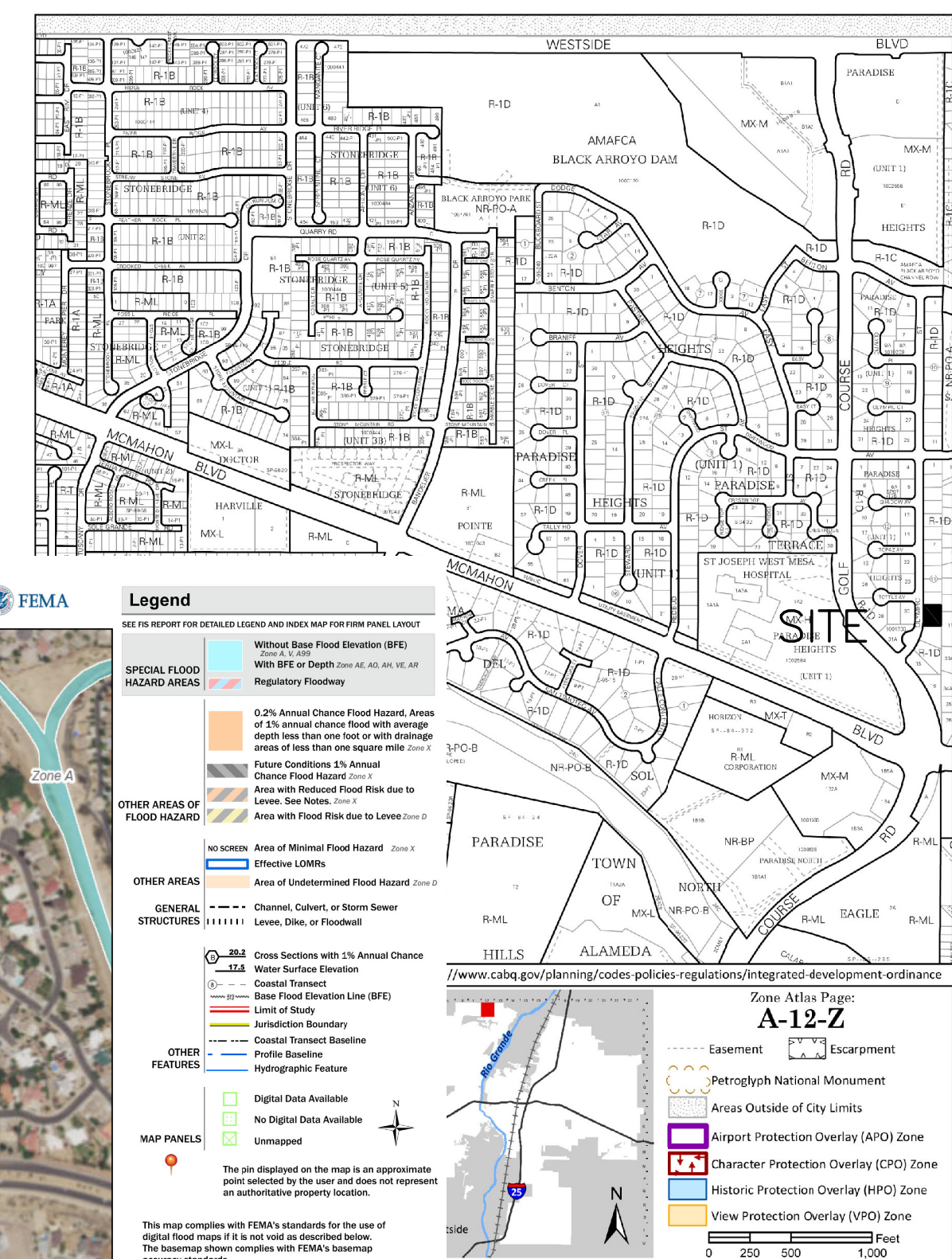
DRAINAGE CERTIFICATION

I, Mark Burak, NMPE 10987, OF THE FIRM Burak Consulting, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 01/11/2021. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Mohamad Tahat, OF THE FIRM Desert Fox, LLC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 04/29/2021 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR Certificate of Occupancy.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Mark H. Burak, NMPE 10987

DATE: 05/03/2021



FEMA MAP 108 G

Site Location - As shown by the Vicinity Map (Zone Atlas Map A-12), the 0.33-acre proposed residential project site is located on a single parcel at 10516 Olympic Ave NW north McMahon and west of Golf Course. At present, the site is undeveloped and is surrounded on three sides with homes and perimeter walls. The site is an infill lot within a fully developed subdivision.

Legal Description - Lot 11 Block 12, Paradise Heights Unit 1, City of Albuquerque, New Mexico.

Benchmark - Basis of elevation is from City of Albuquerque bench mark "9-A12".

Flood Zone - As shown by Panel 108G of 825 of the National Flood Insurance Program Flood Insurance Rate Maps (FIRM) for the City of Albuquerque, New Mexico, dated September 26, 2008, this site does not lie within a designated flood hazard zone.

Existing Conditions - Currently, the project site appears to have been graded with a rough pad site with steep cut/fill slopes to the existing perimeter retaining walls. The site mostly drains to the southeast corner of the property with the front of the lot drainage to the street. Olympic Avenue is paved with curb/gutter and sidewalk and slopes toward the north at about 15 percent grade. There is a 20-foot elevation difference between the SW corner and the NE corner of the site.

Proposed Grading - The Grading and Drainage Plan shows 1) existing and proposed grades indicated by spot elevations and contours; 2) the limit of existing and proposed improvements. The finish floor is set to allow adequate drainage around the proposed structure. A retention ponding area is shown along the north and east sides of the property to control the first flush/water quality requirements. A new six foot retaining wall will be constructed offset six feet from the north and eastern existing walls to create a depressed area to take the site runoff. A six foot wide swale between the eastern and northern retaining walls will carry any ponding overflow to the NE corner of the site. The western portion of the property will drain directly northwest to the street. Excess runoff volume in the NE corner of the property will overflow to the street west of the northern perimeter wall. All cut/fill slopes are limited to 3:1 and should be revegetated with native vegetation for long-term stabilization.

Water Quality Management - The first flush has been mitigated based on 2,526 square feet of the project site to be impervious. This equates to an area of 2,526*0.615/12 or 129 cubic feet. This storage has been provided on the plan by depressing the south side yard area one foot. The maximum volume of the proposed pond is 1,508 cubic feet which will retain the entire ten day runoff volume generated onsite.

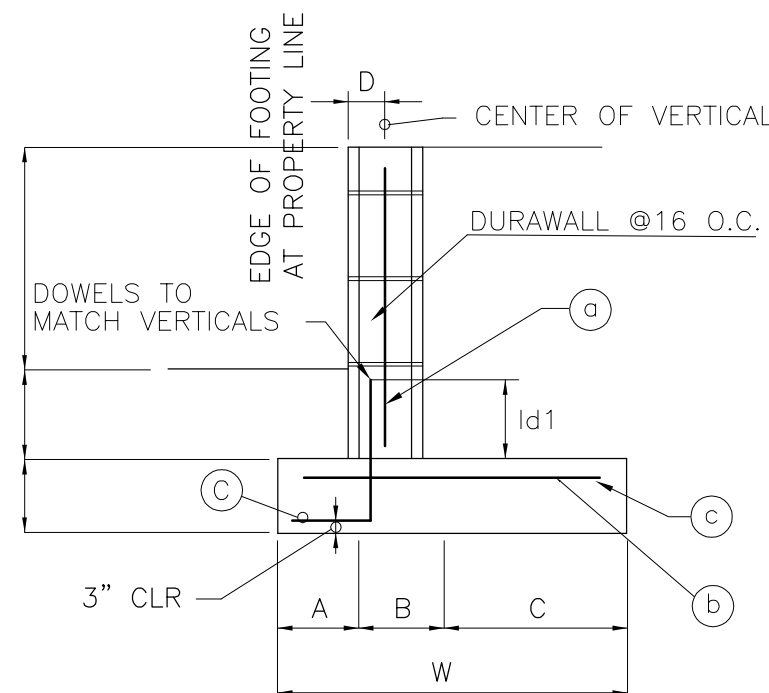
Hydrologic Methods - The drainage basin map shows seven separate subbasins A-D to assess peak flow rates at various points around the project site culminating at either the proposed ponding locations or Olympic Ave. The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The process outlined in the DPM, Chapter 6, was used to quantify the peak flow rates and volumes. As shown by these calculations, the fully developed improvements will result in a negligible increase in runoff generated by the site. Downstream capacity is sufficient to carry the entire peak runoff generated by the design storm.

The proposed improvements will slightly increase the existing peak runoff by less than one cubic foot per second as shown on the calculations. A spreadsheet for Precipitation Zone 1 is included on this plan. This spreadsheet outlines the peak runoff and volume generated for each subbasin for existing and proposed fully developed and paved conditions. Percentage of each land treatment is shown to illustrate the addition of impervious area related to the proposed construction.

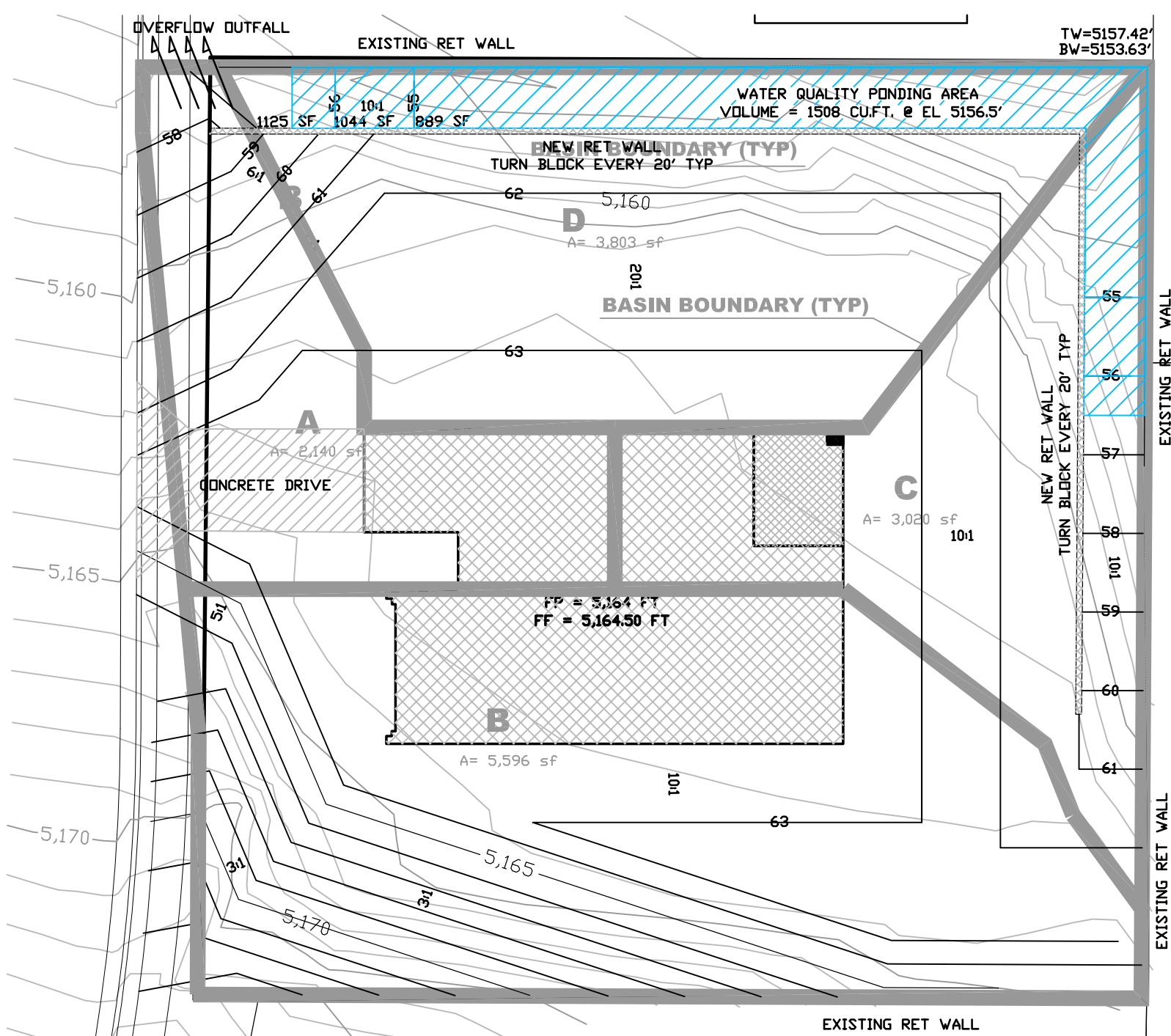
Erosion Control - The contractor is responsible for the following:

- Obtaining topsoil disturbance permit prior to beginning work.
- Maintaining runoff onsite during construction.
- Cleaning all sediment impacting COA right-of-way.
- Repairing any damaged facilities.
- Protecting exposed surfaces from wind/water erosion.

RETAINING WALL DIMENSIONS & REINFORCEMENT												
MIN. DIMENSIONS						STEEL REINFORCEMENT						
H	T	A	B	C	D	W	a	b	c	ld1		
2'	1'-0"	0'-6"	0'-8"	0'-10"	5 1/4"	2'-0"	#5@24" o.c.	#5@16"	#4@16"	1'-6"		
3'	1'-0"	0'-6"	0'-8"	1'-3"	5 1/4"	2'-5"	#5@16" o.c.	#5@16"	#4@16"	1'-6"		
4'	1'-0"	1'-0"	0'-8"	1'-2"	6 1/4"	2'-10"	#5@16" o.c.	#5@16"	#4@16"	1'-6"		
5'	1'-0"	1'-0"	0'-8"	1'-9"	6 1/4"	3'-5"	#5@8" o.c.	#5@16"	#4@16"	1'-6"		
6'	1'-0"	1'-0"	0'-8"	2'-6"	6 1/4"	4'-2"	#5@8" o.c.	#5@16"	#4@16"	1'-6"		



RETAINING WALL DETAIL



Hydrologic Calculations - COA DPM 22.2 (100-Year, 6-Hour Storm)												
Burak Consulting												
Olympic NW												
January 2021												
Zone 1						Zone 1						
Precipitation (DPM Ch6 Table 6.2)						Precipitation (DPM Ch6 Table 6.2)						
P60	P30	P1440	P4days	P10days		P60	P30	P1440	P4days	P10days		
1.99	2.17	2.49	3.12	3.9		1.99	2.17	2.49	3.12	3.9		
Excess (DPM Ch6 Table 6.7)						Excess (DPM Ch6 Table 6.7)						
Precipitation	0.55 inches-A	0.73 inches-B	0.95 inches-C	2.24 inches-D		Precipitation	0.55 inches-A	0.73 inches-B	0.95 inches-C	2.24 inches-D		
Peak (DPM Ch6 Table 6.8)	1.54 cfs/ac-A	2.16 cfs/ac-B	2.87 cfs/ac-C	4.12 cfs/ac-D		Peak (DPM Ch6 Table 6.8)	1.54 cfs/ac-A	2.16 cfs/ac-B	2.87 cfs/ac-C	4.12 cfs/ac-D		
Discharge						Discharge						
Drainage Areas	Land Treatments - Existing Conditions					Land Treatments - Fully Developed Conditions					Drainage Areas	
	A	B	C	D	Area (sf)	A	B	C	D	Area (sf)		
Basin A	0.00	0%	0.00	0%	0.05	100%	0.00	0%	2.140	0.00	0%	Basin A
Basin B	0.00	0%	0.00	0%	0.13	100%	0.00	0%	5.996	0.00	0%	Basin B
Basin C	0.00	0%	0.00	0%	0.97	100%	0.00	0%	3.020	0.00	0%	Basin C
Basin D	0.00	0%	0.00	0%	0.09	100%	0.00	0%	3.803	0.00	0%	Basin D
Peak Flow Rate - Existing Conditions						Peak Flow Rate - Developed Conditions						
A	B	C	D		100 yr Q (cfs)	A	B	C	D		100 yr Q (cfs)	
0.00	0.00	0.14	0.00	0.1	0.00	0.02	0.08	0.08	0.08	0.2	0.3	Basin A
0.00	0.00	0.37	0.00	0.4	0.00	0.14	0.14	0.06	0.06	0.2	0.3	Basin B
0.00	0.00	0.30	0.00	0.2	0.00	0.03	0.12	0.07	0.07	0.3	0.3	Basin C
0.00	0.00	0.25	0.00	0.3	0.00	0.01	0.21	0.03	0.03	0.3	0.3	Basin D
					0.96 cfs						0.97 cfs	
Volume	Runoff Volume - Existing Conditions					Runoff Volume - Developed Conditions					Volume	
	A	B	C	D	100 yr V (cu-ft)	A	B	C	D	100 yr V (cu-ft)		
Basin A	0	0	169	0	169	0	26	68	160	254	Basin A	
Basin B	0	0	443	0	443	0	170	168	125	464	Basin B	
Basin C	0	0	239	0	239	0	31	143	130	304	Basin C	
Basin D	0	0	301	0	301	0	16	296	57	329	Basin D	
					1,163					1,381		
					Cu. Ft					Cu. Ft		
Volume	Runoff Volume - Existing Conditions					Runoff Volume - Developed Conditions					Volume	
	A	B	C	D	100 yr r 10 day V (cu-ft)	A	B	C	D	100 yr r 10 day V (cu-ft)		
Basin A	169	377	208		169	169	254	84		377	Basin A	
Basin B	443	561	118		443	443	464	21		561	Basin B	
Basin C	239	404	165		239	239	304	65		404	Basin C	
Basin D	301	373	72		301	301	320	20		373	Basin D	
					640					777		
					Cu. Ft					Cu. Ft		

DESIGNED BY: M.H.B.

DRAWN BY: T.D.S.

CHECKED BY:

MARK H. BURAK
STATE OF NEW MEXICO
NO 10987
PROFESSIONAL ENGINEER

01/11/2021

10516 OLYMPIC AVENUE NE

GRADING & DRAINAGE PLAN

Residential Construction

DRAWING NUMBER

C1

1 OF 1