

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

December 19, 2019

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 2737 Carson Road NW
Grading and Drainage Plan
Engineer's Stamp Date: 12/08/19
Hydrology File: H12D020**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 12/09/19, the Grading and Drainage Plan is approved for Building Permit.

Albuquerque

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter and the pad certification approval letter.

NM 87103

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

www.cabq.gov

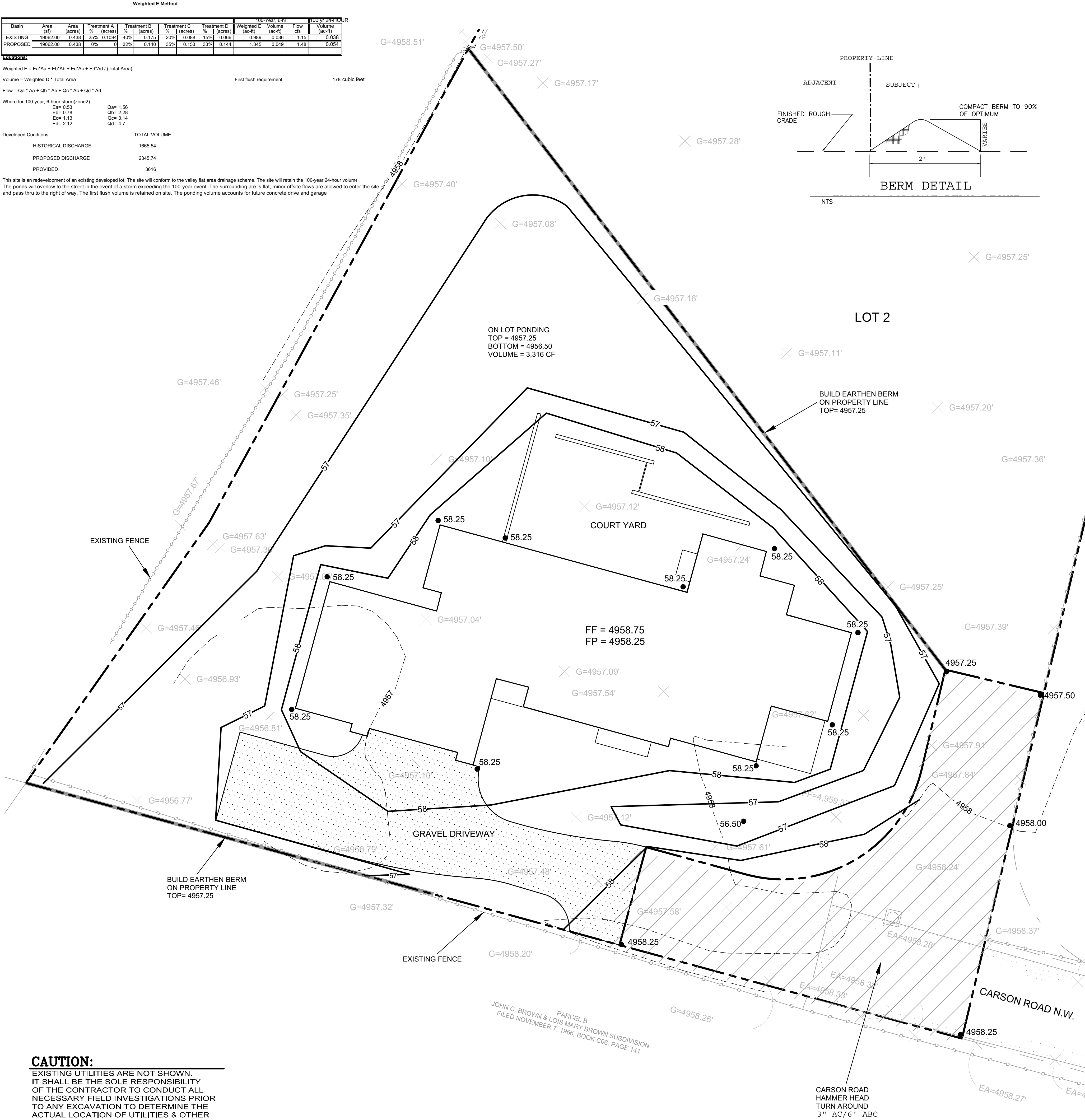
If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

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

Weighted E Method														
Basin	Area (sq ft)	Area (acres)	Treatment A				100-Year E-7		100 yr 24-Hour					
			Treatment A (% (acres))	Treatment B (% (acres))	Treatment C (% (acres))	Treatment D (% (acres))	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
EXISTING	19062.00	0.438	25%	0.1064	40%	0.174	20%	0.088	15%	0.069	0.369	1.15	0.338	
PROPOSED	19062.00	0.438	0%	0	32%	0.140	35%	0.153	33%	0.144	1.345	0.049	1.48	0.054
<u>Equations:</u>														
Weighted E = E _a A _a + E _b A _b + E _c A _c + E _d A _d / (Total Area)														
Volume = Weighted D * Total Area														
First flush requirement														
178 cfs														
Flow = Q _a * A _a + Q _b * A _b + Q _c * A _c + Q _d * A _d														
Where for 100-year, 6-hour storm(zone2)														
			Q _a = 1.56											
			E _a = 0.53											
			Q _b = 2.28											
			E _b = 0.78											
			Q _c = 3.14											
			E _c = 1.13											
			Q _d = 4.7											
			E _d = 2.12											
Developed Conditions			TOTAL VOLUME											
HISTORICAL DISCHARGE			1665.54											
PROPOSED DISCHARGE			2345.74											
PROVIDED			3616											

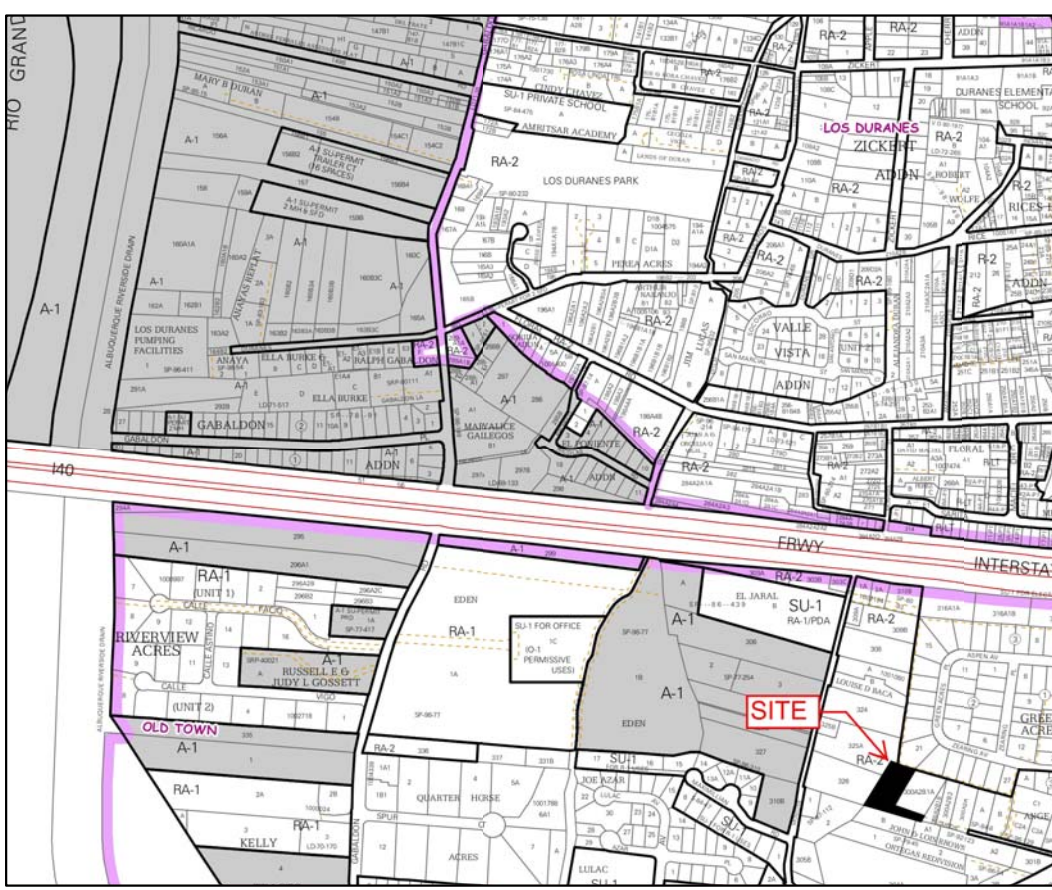
This site is an redevelopment of an existing developed lot. The site will conform to the valley flat area drainage scheme. The site will retain the 100-year 24-hour volume. The ponds will overflow to the street in the event of a storm exceeding the 100-year event. The surrounding area is flat, minor offsite flows are allowed to enter the site and pass thru to the right of way. The first flush volume is retained on site. The ponding volume accounts for future concrete drive and garage



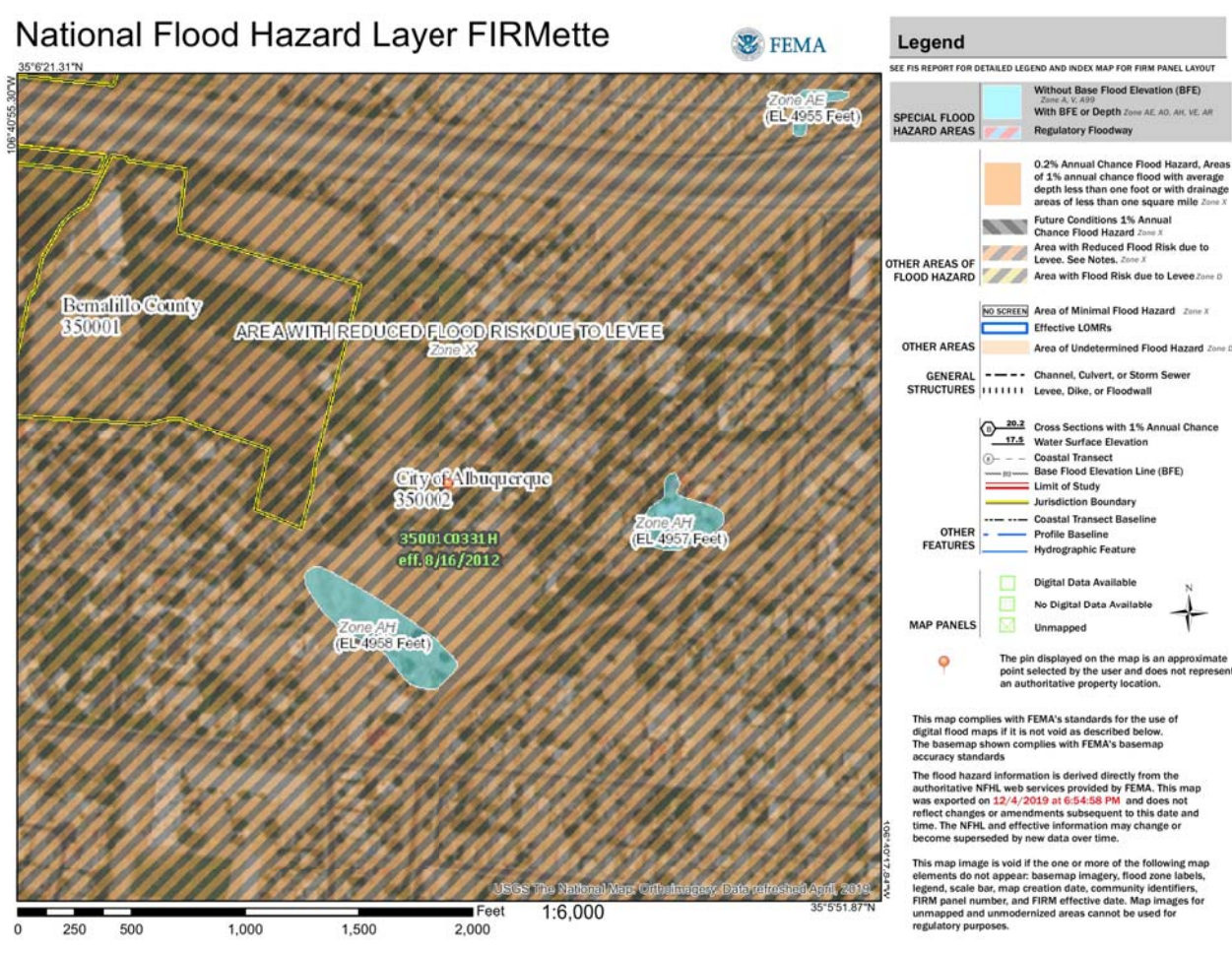
CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: H-12-Z



FIRM MAP:

LEGAL DESCRIPTION:


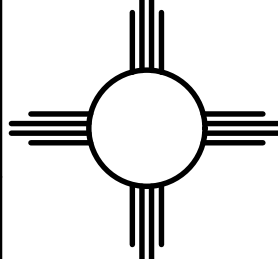
LOTS 1 AND 2 WITHIN SECTION 12, T.10N., R.3E., N.M.P.M.
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

LEGEND

---	EXISTING CONTOUR
- - - -	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
- - - -	PROPOSED INDEX CONTOUR
•	EXISTING SPOT ELEVATION
•	PROPOSED SPOT ELEVATION
---	BOUNDARY
- - - -	PROPOSED EARTHEN SWALE
---	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
=====	PROPOSED GRAVEL DRIVEWAY
=====	PROPOSED HAMMER HEAD TURN AROUND (BY OTHERS)
=====	PROPOSED EARTHEN BERM

ENGINEER'S SEAL	LOTS 1 WITHIN SECTION 12, T.10N., R.3E., N.M.P.M. 2737 CARSON DR. NW	DRAWN BY DEM
		DATE 12-7-19
12/8/19	GRADING AND DRAINAGE PLAN	MEMBER RES CARSON DR NW DWG
		SHEET # C1
		JOB #
DAVID SOULE P.E. #14522	 <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0899	