

# CITY OF ALBUQUERQUE



July 1, 2015

David Soule, PE  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM 87199

**RE: HLP Endodontics, 10429 Lagrima Del Oro NE  
Grading and Drainage Plan  
Engineer's Stamp Dated 6-29-15 (File: F21-D063)**

Dear Mr. Soule:

Based upon the information provided in your submittal received 6-29-15, the above referenced plan is approved for SO-19.

PO Box 1293

A separate Excavation/Barricading Permit is required for SO-19 construction within City ROW. A copy of this approval letter must be on hand when applying for the permit. To obtain a C.O., the storm drain work in the City ROW must be inspected and accepted.

Albuquerque

Please contact Jason Rodriguez, 857-8074, to schedule an inspection.

If you have any questions, you can contact me at 924-3924.

New Mexico 87103

Sincerely,

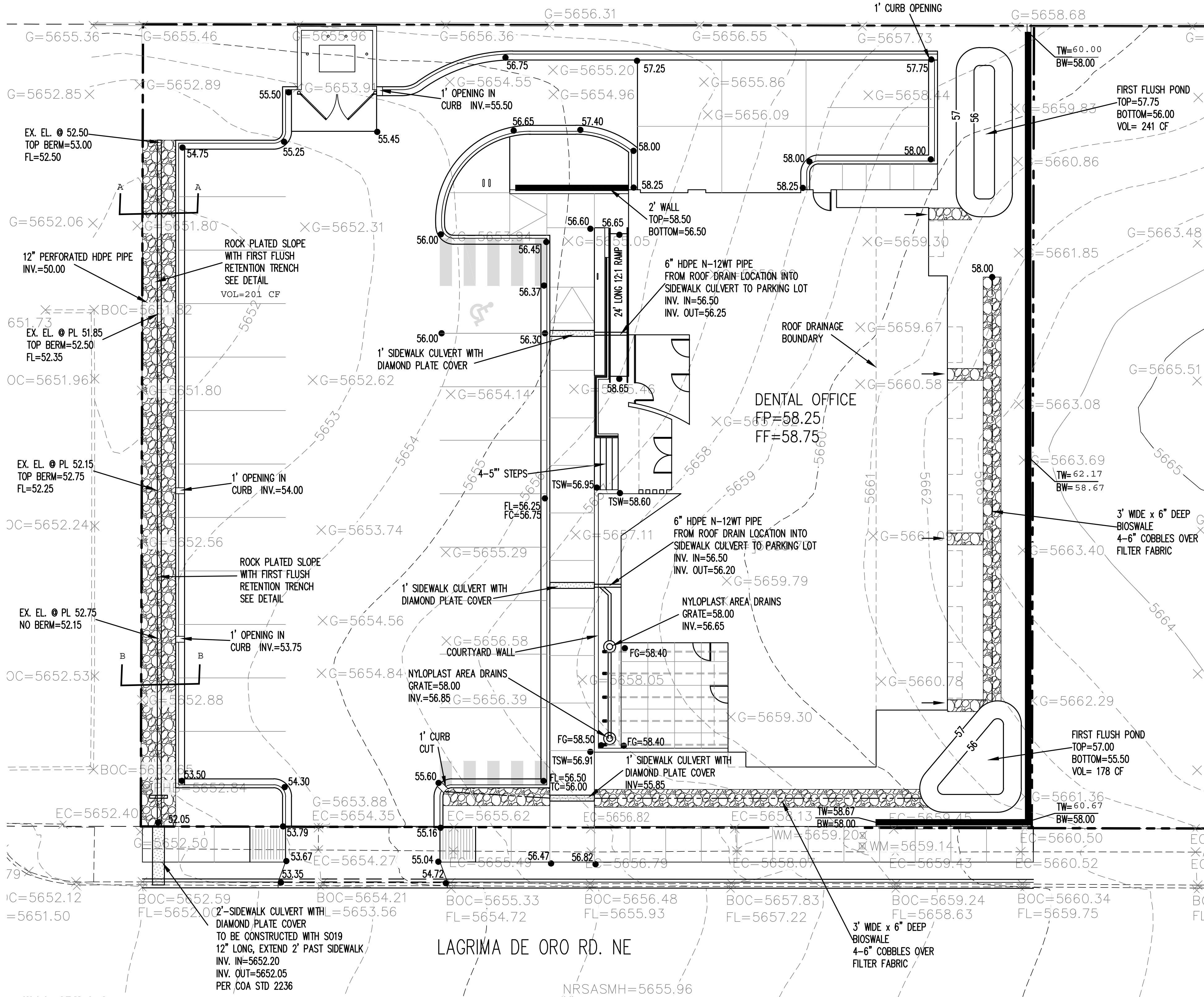
Jeanne Wolfenbarger, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

www.cabq.gov

Orig: Drainage file

c.pdf: via Email: Recipient, Monica Ortiz  
Jason Rodriguez, Street/Storm Drain Maintenance, [JTRodriguez@cabq.gov](mailto:JTRodriguez@cabq.gov),  
Antoinette Baldonado, DMD





Weighted E Method

LAGRIMA DEL ORO															
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		10-year E-6-ir		10-day		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Volume (ac-ft)	Volume (cfs)			
UPLAND	6480	0.149	60%	0.08928	20.0%	0.030	20.0%	0.02975	0%	0.000	0.988	0.012	0.39	0.12	
OVERALL EXISTING	20121	0.462	60%	0.36912	20.0%	0.092	0.0%	0.000	0.0%	0.000	3.062	0.033	1.03	0.13	
BASIN A	3662	0.082	0%	0.000	40.0%	0.033	33.0%	0.02698	27%	0.022	1.627	0.011	0.31	0.04	
BASIN B	1969	0.038	0%	0.000	0.0%	0.000	0.0%	0.000	100%	0.038	2.640	0.008	0.20	0.014	
BASIN C	1918	0.044	0%	0.000	5.0%	0.002	95%	0.042	0.0%	0.000	2.581	0.009	0.23	0.015	
BASIN D	12972	0.298	0%	0.000	12.0%	0.036	88.0%	0.264	0.0%	0.000	2.304	0.027	1.58	0.204	
OVERALL PROPOSED	20121	0.462	0%	0.000	14.8%	0.068	17.9%	0.083	74%	0.340	2.581	0.030	0.91	0.30	0.137

Equations:

Weighted E = Ea \* Aa + Eb \* Ab + Ec \* Ac + Ed \* Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm (zone 4)  
Ea= 0.8  
Eb= 1.08  
Ec= 1.48  
Ed= 2.64  
Qa= 2.2  
Qb= 2.92  
Qc= 3.73  
Qd= 5.25

Pond volume required  
FIRST FLUSH REQUIRED  
EXISTING ONSITE DISCHARGE  
PROPOSED ONSITE DISCHARGE  
UPLAND  
NARRATIVE

THIS SITE IS AN INFILL DEVELOPMENT NEAR THE BOTTOM OF THE BEAR CANYON ARROYO WATER SHED. THIS SITE HAS BEEN APPROVED FOR FREE DISCHARGE ON TWO PRIOR SUBMITTALS. (F210069). IN ADDITION THE BOTH ADJUTING PROPERTIES (F210076/F210078) WERE APPROVED FOR FREE DISCHARGE. WE PROPOSE FREE DISCHARGE WITH THE INCLUSION OF THE FIRST FLUSH PONDING VOLUME. THE PROPOSED SIDEWALK CULVERT WILL BE CONSTRUCTED WITH THE S019 PERMIT PROCESS

HARVEST SWALE VOLUME  
AREA OF PIPE= 785 SF  
AREA OF GRANULAR FILL= 3.21 SF  
UNIT VOLUME  
115 #

CONTRIBUTING TO CULVERT  
A  
B

0.71 CFS  
1.98 CFS

420.20 cf  
715.00 cf

LAGRIMA DE ORO RD. NE

NRSASMH=5655.96

### PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW NOTICE TO CONTRACTORS (SPECIAL ORDER "SO-19")

- AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" (OR 505-260-1990.) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
- PRIOR TO POURING CONCRETE, CONTRACTOR SHALL NOTIFY THE STORM DRAIN INSPECTOR, 505-857-8074, TO INSPECT REINFORCEMENT.

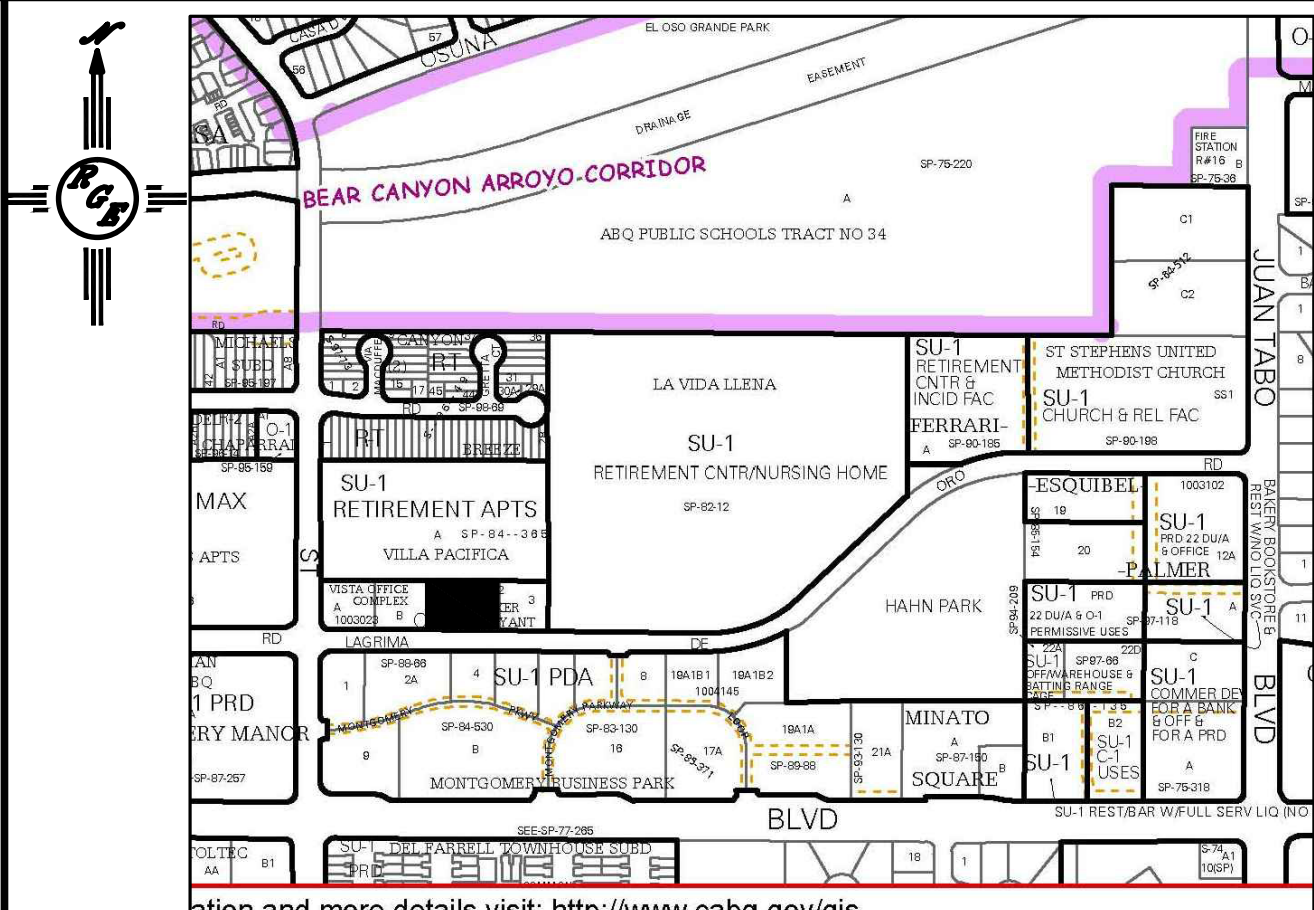
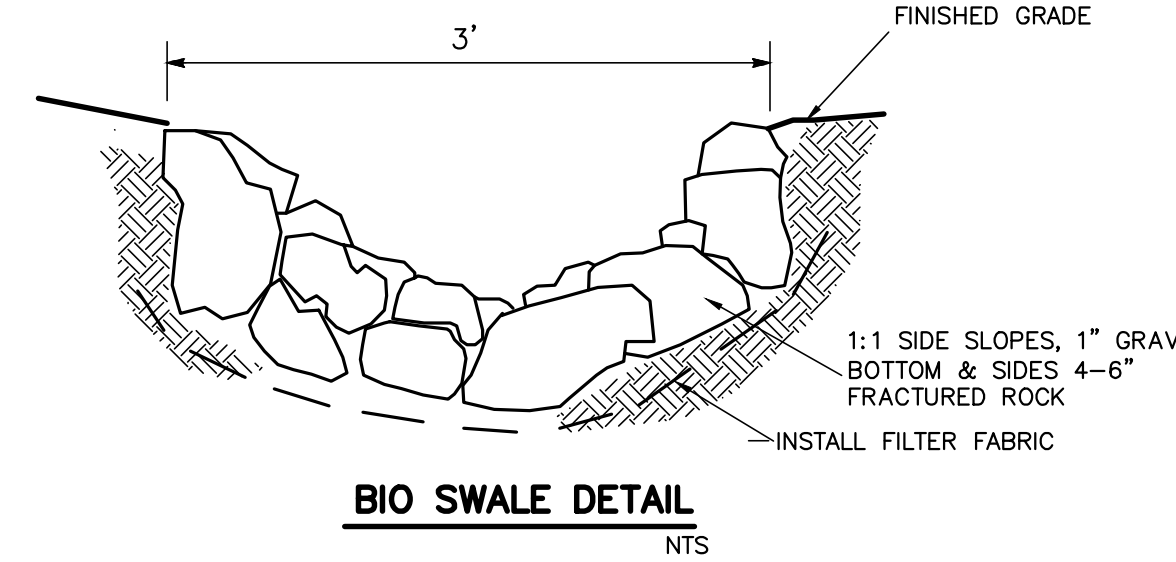
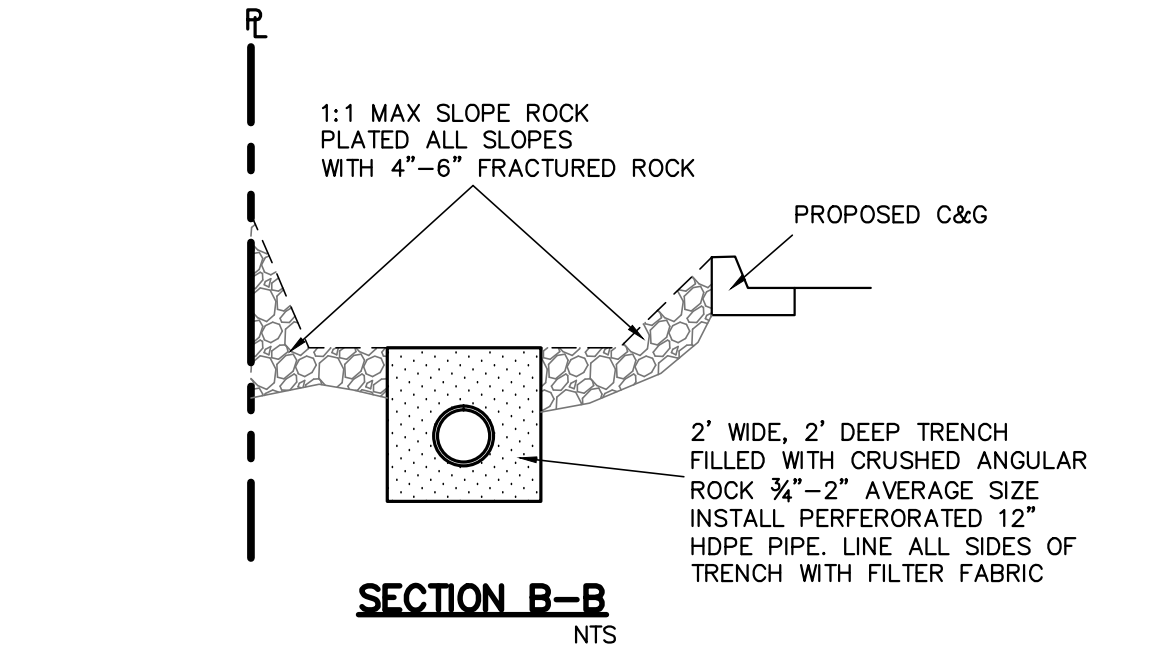
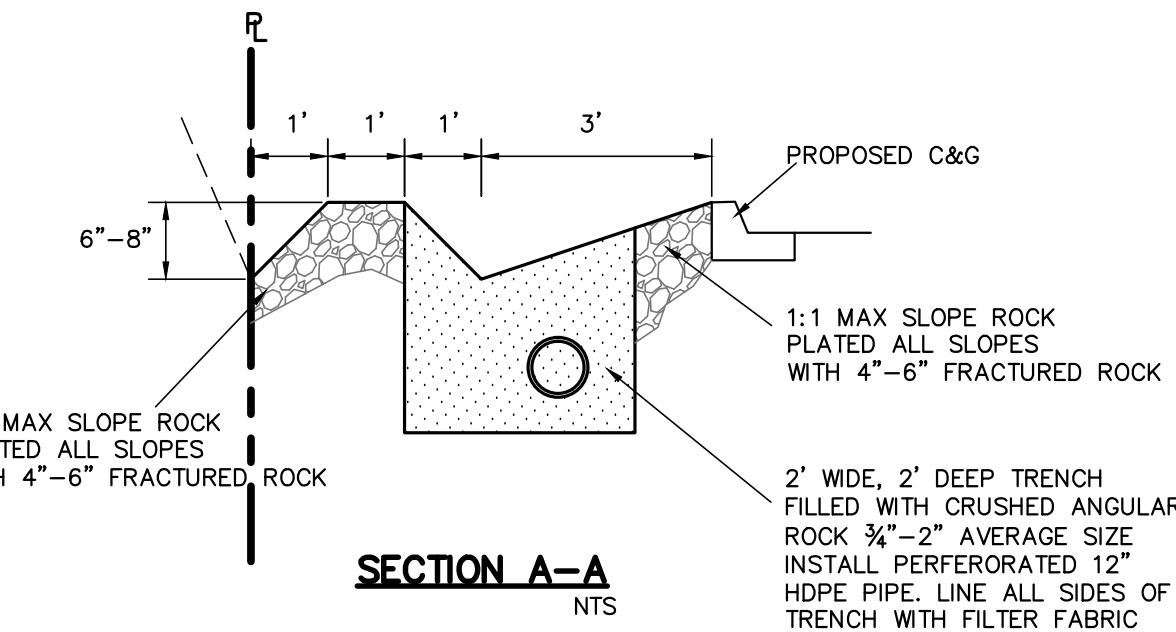
APPROVAL	NAME:	DATE:
INSPECTOR		

### EROSION CONTROL NOTES:

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

#### FIRST FLUSH REQUIREMENTS

15100 x .34 /12=427.83 CF  
PROVIDED 515 CF



VICINITY MAP: F-21-Z



FIRM MAP: FM35001C144G

### LEGAL DESCRIPTION:

LOT #2, BLOCK 19, PRIMROSE POINTE UNIT 6  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO

### NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- RETAINING WALL HEIGHTS AT EAST PROPERTY LINE ACCOUNT FOR FINISHED DESIGN GRADES FOR ADJACENT TRACT BEING DESIGNED BY THIS OFFICE

### LEGEND

---	EXISTING CONTOUR
---	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED INDEX CONTOUR
---	LOT LINE
---	CENTERLINE
---	RIGHT-OF-WAY
---	EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
---	PROPOSED ROCK FACE WALL
---	EXISTING CURB AND GUTTER
---	PROPOSED EDGE OF CONCRETE
---	PROPOSED FLOWLINE
---	EXISTING WALL

<b>ENGINEER'S SEAL</b>  6/29/15 <b>DAVID SOULE</b> P.E. #14522	<b>10429 LAGRIMA DE ORO DENTAL OFFICE</b>  <b>CONCEPTUAL GRADING AND DRAINAGE PLAN</b>	<b>DRAWN BY DEM</b>  <b>DATE</b> <b>4-14-15</b>
	 <b>Rio Grande Engineering</b> 1808 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0088	<b>SHEET #</b> <b>1 of 2</b>  <b>JOB #</b> <b>XXXXX</b>