

PONDING VOLUME REQUIREMENTS (90TH PERCENTILE/FIRST FLUSH)

VOLUME REQUIRED = 0.34 INCHES x IMPERVIOUS AREA =  
(0.34/12 x 47,094.52) = 1,334.34 CF

PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED =  
PONDING CALCULATIONS:

POND A:  
AREA @ ELEV. 5126 = 1,376.46 SF  
AREA @ ELEV. 5124 = 96.56 SF  
POND VOLUME=(1,376.46+96.56)/2\*2=1,473.02 CF

POND B:  
AREA @ ELEV. 5134 = 567.83 SF  
AREA @ ELEV. 5124 = 16.35 SF  
POND VOLUME=(567.83+16.35)/2\*2=584.18 CF  
TOTAL PONDING VOLUME PROVIDED =  
1,473.02 + 584.18 = 2,057.20 CF

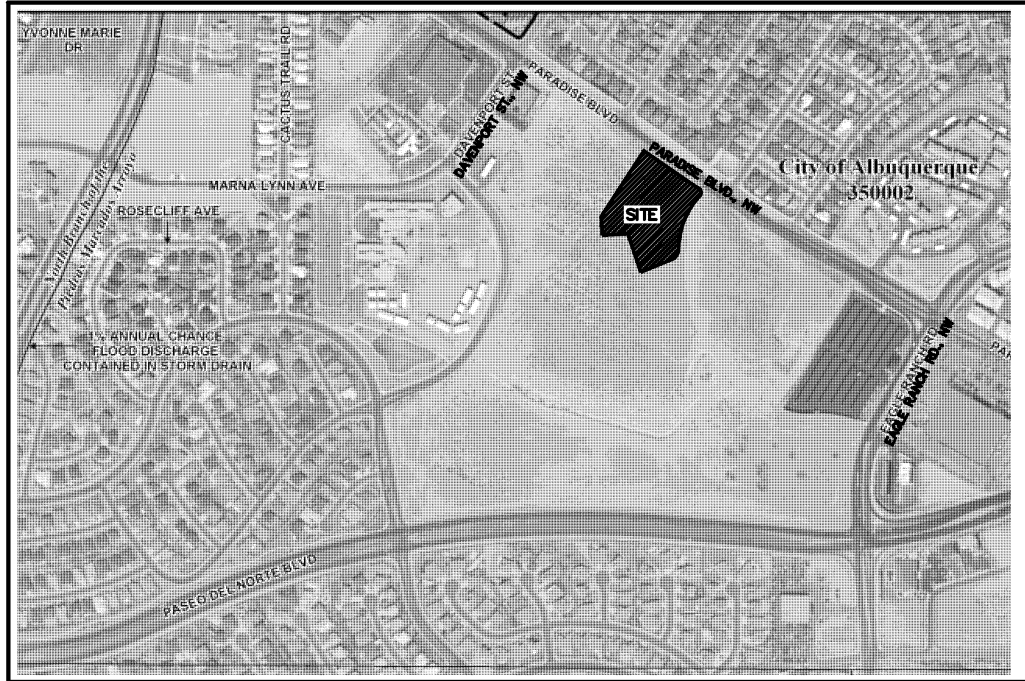
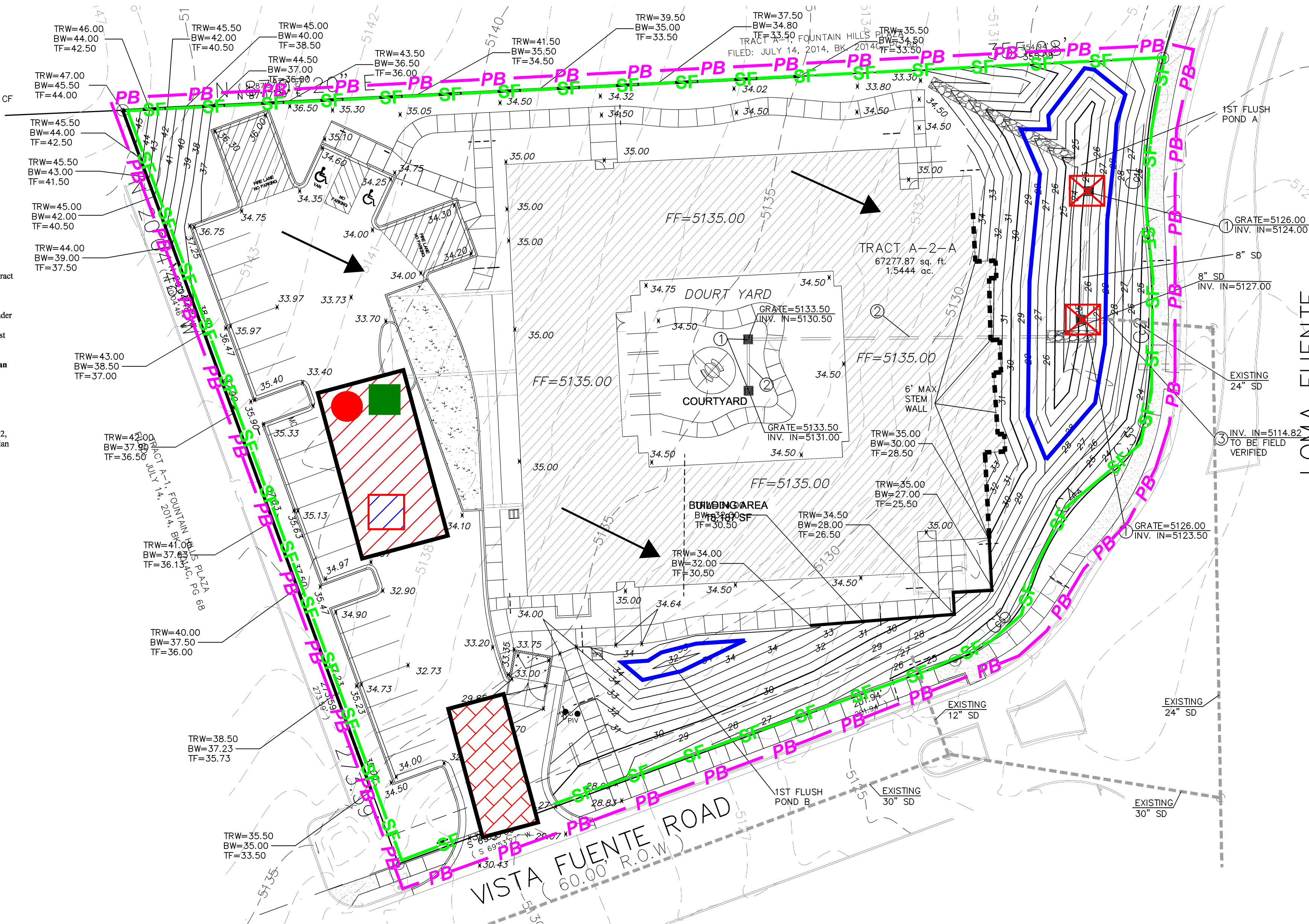
Location  
TRACT A-2-A, Fountain Hills Subdivision is located at the northwest corner of Vista Fuente Road and Nunzio Avenue NW containing 1.5444 acre. See attached portion of Vicinity Map C-12-Z for exact location.

Purpose  
The purpose of this drainage report is to present a grading and drainage solution for new building and improvements with this tract of land.

Existing Drainage Conditions  
This site falls within Master Drainage Plan for Fountain Hills under the City project number C12-10003B. This project falls within Basin B-1-A. The site currently drain from northwest to southeast side of the site to Vista Fuente Road and Nunzio Avenue NW.

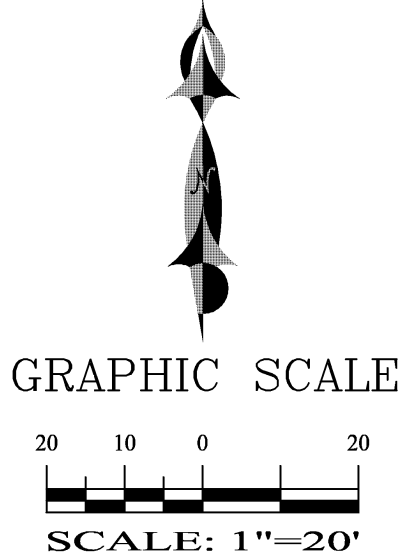
Proposed Conditions and On-Site Drainage Management Plan  
We are proposing to pond the 90th Percentile/First Flush requirement (1,334.34 cf). Total retention volume provided (2,057.20 cf) exceeds the ponding requirement for First Flush (1,334.34 cf).

Calculations  
City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, was used for runoff calculations. See this plan for AHYMO input and Summary output files.



FIRM MAP: EFFECTIVE DATE: FM35001C01166 09-06-2008

LEGAL DESCRIPTION:  
TRACT A-2-A, FOUNTAIN HILLS PLAZA  
CONTAINING 1.5444 ACRE  
ZONING: SU-1 FOR PDA TO INCLUDE C-3 USES  
ADDRESS: 4590 PARADISE BLVD NW



LEGEND

EROSION AND SEDIMENT CONTROL PLAN

- PB -PB -PB -PB PROJECT PERIMETER & DISTURBED AREA
- SF - SF - SF SILT FENCE
- MULCH SOCKS
- FLOW DIRECTION
- STAGING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- TRASH RECEPTACLE
- CHEMICAL TOILET
- CONCRETE WASHOUT
- RETENTION POND
- RIP RAP
- CHECK DAM
- DROP INLET PROTECTION
- OUTFALL
- POSTING SIGN
- PRESERVED VEGETATION

SITE WILL HAVE A PERIMETER SILT FENCE. INLET GRATES WILL BE PROTECTED ONCE THEY ARE ACTIVE. STAGING AREA IS REPRESENTATIVE AND MAY BE MOVED TO ACCOMMODATE PROJECT.

RECEIVING WATERS: RIO GRANDE 2105\_50 BY WAY OF ALBUQUERQUE MS4. TIER II AND IMPAIRED WITH E. COLI, PCBs IN FISH TISSUE, AND OXYGEN DEPLETION

CRITICAL HABITAT: CRITERION "A"; NO CRITICAL HABITATS WITHIN PROJECT AREA

GPS LOCATION: 35.1849, -106.6780

FOUNTAIN HILLS PLAZA ASSISTED LIVING

PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM

CITY, COUNTY, STATE

08/16/2019

DATE

C. DURKIN

DRAWN BY

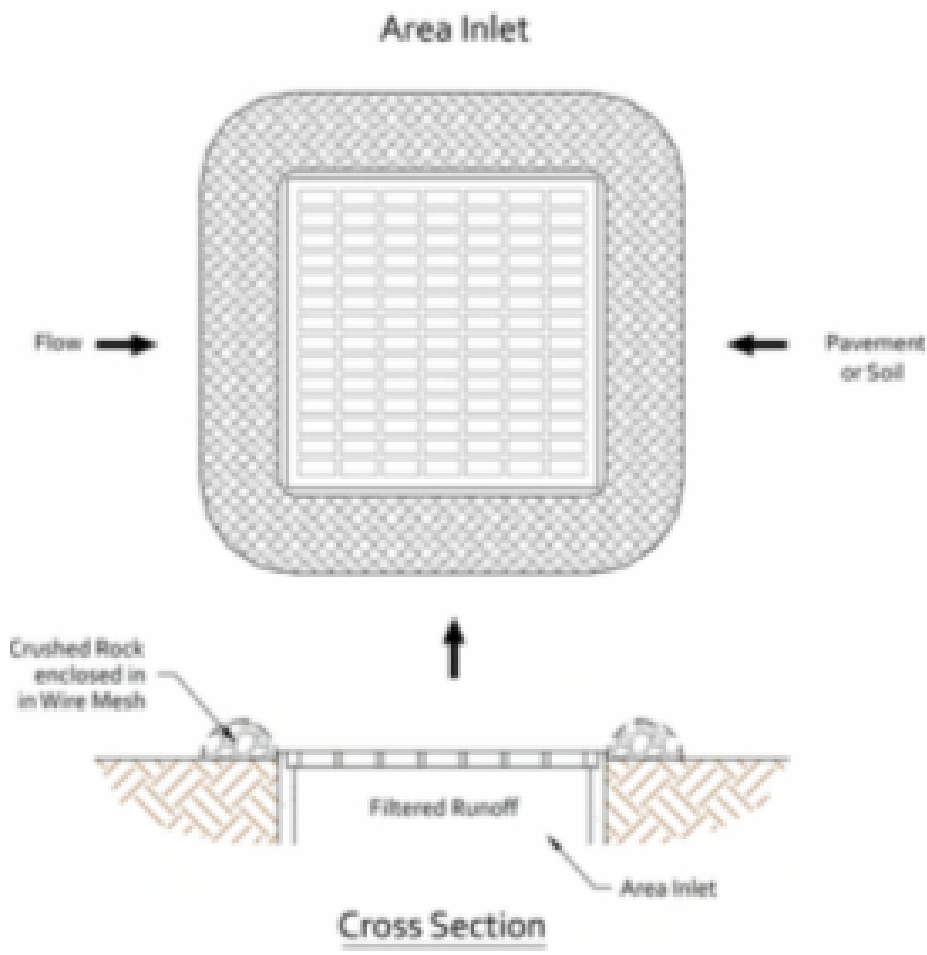
INSPECTIONS PLUS



08/16/2019  
CPESC Stamp



INLET PROTECTION



BMP Objectives

- Sediment Control
- Sheet Flow Runoff Control

SILT FENCE



BMP Objectives

- Sediment Control
- Sheet Flow Runoff Control
- Wind Erosion Control

SEDIMENT TRACK OUT CONTROL



BMP Objectives

- Sediment Control

MULCH SOCK/STRAW WATTLE



BMP Objectives

- Sediment Control
- Reduce Runoff Velocity
- Inlet Protection

BERMS AND SWALES




BMP Objectives

- Runoff Control
- Run-on Diversion

EROSION CONTROL NOTES

1. All perimeter erosion and sediment control measures shall be installed prior to the execution of any grading work and shall be maintained for the duration of the project. Failure to install and maintain erosion controls is a violation of the Federal Permit and is subject to fines.
2. All Erosion Controls and their installation shall meet manufacturer specification and comply with the current guidelines for Stormwater Management for Construction Activities.
3. Sediment collected behind sediment filters and Silt Fences shall be removed when sediment reaches 1/3 the height of the barrier.
4. Inspection of erosion and sediment controls and other protective measures are required once every 7 days from July 1st to October 31st and once every 7 days from November 1st to June 30th for discharge to tier and Sensitive Waters. Storm Events that produce 0.25' or more shall be inspected within 24 hours of the storm event.
5. Erosion and Sediment control measures shall be removed following construction or upon permanent stabilization of the disturbed/graded areas, whichever occurs last.
6. All disturbed areas that are not to be paved shall be reseeded unless otherwise noted.
7. The Contractor shall keep the site clean at all times and control dust resulting from earthwork operations. The Contractor shall not track mud or sediment from the site onto the public streets.

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