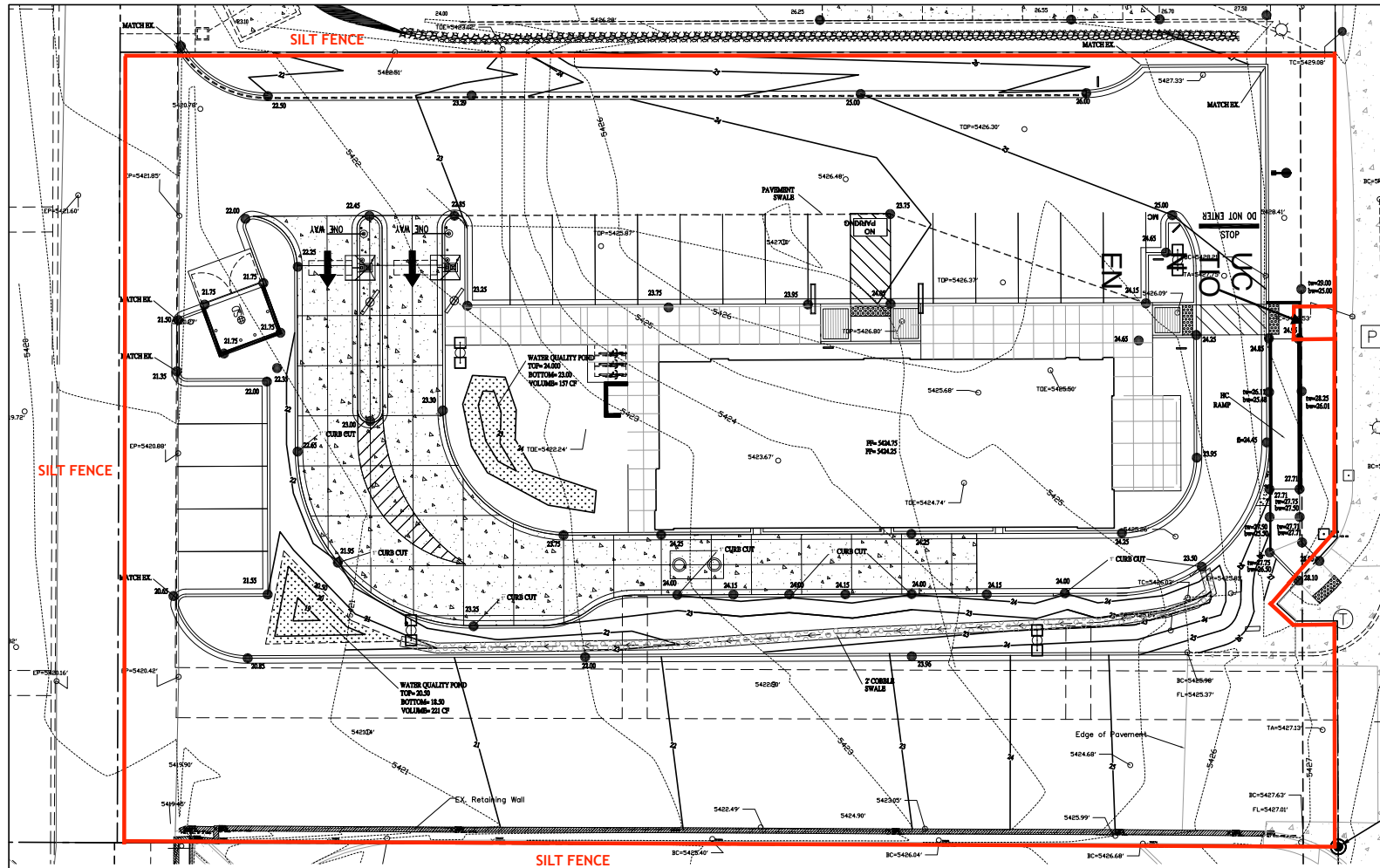


ECP



Weighted E Method

Existing Developed Basins										
Basin	Area (sq ft)	Area (acres)	100-Year, 6-hr						10-day Volume (ac-ft)	
			Treatment A (acres)	Treatment B (acres)	Treatment C (acres)	Treatment D (acres)	Weighted E (ac-ft)	Flow cfs		
ALLOWED FOR MASTERPLAN	3844	0.862	0%	0.132	0%	0%	0%	2.310	0.171	0.69
PROPOSED	38408	0.882	0%	0.100	0.088	0.0529	0.84	0.741	0.170	3.71
COMPARISON			0.000	0.044	-0.053	0.029	0.029		0.000	0.018

Equations:

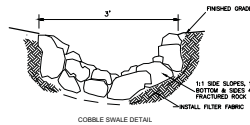
$$\text{Weighted E} = \text{Ea} \cdot \text{Aa} + \text{Eb} \cdot \text{Ab} + \text{Ec} \cdot \text{Ac} + \text{Ed} \cdot \text{Ad} / (\text{Total Area})$$
$$\text{Volume} = \text{Weighted } D \cdot \text{Total Area}$$
$$\text{Flow} = Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$$

Ea= 0.67	Qa= 1.84
Eb= 0.86	Qb= 2.49
Ec= 1.09	Qc= 3.17
Ed= 2.58	Qd= 4.49

Pond volume required
to reduce to below master plan assumption
Pond volume provided

Narrative

The subject property is located within the boundaries of the new Wymont drainage and La Mirada master drainage plan (G19D004). This parcel is located within basin E of the plan. The overall development assumed 85% D and 15%B land treatments or 2.55 cfs per acre. The proposed development conforms to the developed condition assumptions of the master plan and is allowed free discharge. There is a regional water quality pond that accounts for the flow from this site, water harvesting is not required but is proposed



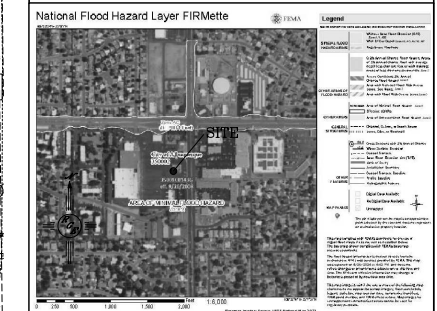
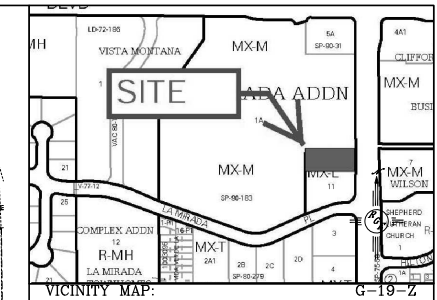
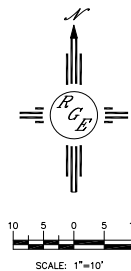
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 06/05/24
BY: *Randy P. Brummitt*
HydroTeam ID: G19D004G

THE APPROVAL OF THIS DEVELOPMENT PLAN MAY BE CONDITIONED UPON THE SUBMISSION OF ANY CITY OF ALBUQUERQUE REQUIRED PLAN REVISIONS TO THE CITY ENGINEER'S OFFICE FOR REVIEW AND APPROVAL. ANY CORRECTIONS OR CHANGES TO DEVELOPMENT PLAN, SUBMITTALS, AND/OR PERMITS MUST BE SUBMITTED TO THE CITY ENGINEER'S OFFICE FOR REVIEW AND APPROVAL. THE CITY ENGINEER'S OFFICE WILL NOT BE RESPONSIBLE FOR ANY DELAYS OR VIOLATIONS OF ANY CITY OF ALBUQUERQUE ORDINANCES.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE. IF THE BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT

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 (CITY) ACCEPTANCE OF ANY PROJECT.



FIRM MAP:

LEGAL DESCRIPTION:



TRACTS 3, WYMONT SUBDIVISION
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

Figure 1 is a cross-sectional diagram of a road and drainage system. The diagram shows a road surface with a dashed line for the 'EXISTING CONTOUR' and a solid line for the 'PROPOSED INDEX CONTOUR'. Below the road is a drainage ditch with a 'PROPOSED SPOT ELEVATION' marked by a circle and 'XXXX'. The ditch is bordered by a 'BOUNDARY' and an 'ADJACENT BOUNDARY'. Below the ditch is a 'PROPOSED EARTHEN SWALE' with a dashed line for the 'PROPOSED RETAINING WALL'. The swale is filled with 'PROPOSED GRAVEL' and 'PROPOSED CONCRETE'. At the bottom is a 'PROPOSED 2' WIDE COBBLE SWALE'.

ENGINEER'S SEAL	FREDDY'S	DRAWN BY: WCUJ
	4318 WYOMING	DATE
	GRADING AND DRAINAGE PLAN	4-22-24
		REVISED: 4-22-24 BY: 42-24
	<i>Rio Grande</i>	SHEET #
	<i>Engineering</i>	C1
	PO BOX 93024 ALBUQUERQUE, NM 87119 (505) 321-3098	JOB #
DAVID SOULE P.E. #14322		3220-00022

ESC Plan Standard Notes (2023-06-16)

1. All Erosion and Sediment Control (ESC) work on these plans, except as otherwise stated or provided hereon shall be permitted, constructed, inspected, and maintained in accordance with:
 - a. The City Ordinance § 14-5-2-11, the ESC Ordinance,
 - b. The EPA's 2022 Construction General Permit (CGP), and
 - c. The City Of Albuquerque Construction BMP Manual.
2. All BMP's must be installed prior to beginning any earth moving activities except as specified hereon in the Phasing Plan. Construction of earthen BMP's such as sediment traps, sediment basins, and diversion berms shall be completed and inspected prior to any other construction or earthwork. Self-inspection is required after installation of the BMPs and prior to beginning construction.
3. Self-inspections - In accordance with City Ordinance § 14-5-2-11(C)(1), "at a minimum a routine self-inspection is required to review the project for compliance with the Construction General Permit once every 14 days and after any precipitation event of 1/4 inch or greater until the site construction has been completed and the site determined as stabilized by the city. Reports of these inspections shall be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
4. Corrective action reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request.
5. Final Stabilization and Notice of Termination (NOT) - In accordance with City Ordinance § 14-5-2-11(C)(1), self-inspections must continue until the site is "determined as stabilized by the city." The property owner/operator is responsible for determining when the "Conditions for Terminating CGP Coverage" per CGP Part 8.2 are satisfied and then for filing their Notice of Termination (NOT) with the EPA. Each operator may terminate CGP coverage only if one or more of the conditions in Part 8.2.1, 8.2.2, or 8.2.3 has occurred. After filing the NOT with the EPA, the property owner is responsible for requesting a Determination of Stabilization from the City.
6. When doing work in the City right-of-way (e.g. sidewalk, drive pads, utilities, etc.) prevent dirt from getting into the street. If dirt is present in the street, the street should be swept daily or prior to a rain event or contractor induced water event (e.g. curb cut or water test).
7. When installing utilities behind the curb, the excavated dirt should not be placed in the street.
8. When cutting the street for utilities the dirt shall be placed on the uphill side of the street cut and the area swept after the work is complete. A wattle or mulch sock may be placed at the toe of the excavated dirt pile if site constraints do not allow placing the excavated dirt on the uphill side of the street cut.
9. ESC Plans must show longitudinal street slope and street names. On streets where the longitudinal slope is steeper than 2.5%, wattles/mulch socks or j-hood silt fence shall be shown in the front yard swale or on the side of the street.