

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 15, 2022

Phillip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015

**RE: Lopez West
Bridge Blvd. Sw
Grading and Drainage Plan Stamp Date: 9/25/12
Pad Certification Date: 4/11/22
Hydrology File: L11D067**

Dear Mr. Clark:

PO Box 1293

Based on the submittal received on 4/13/22, and site visit 4/15/22 the Pad Certification is approved for Building Permit by Hydrology.

Albuquerque

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

NM 87103

www.cabq.gov

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Lopez WEST Residential **Building Permit #:** _____ **Hydrology File #:** L11/D0067
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lot 1 & 2, Plat of Lopez West /LOT 316A, UNIT 3, TOWN OF ATRISCO GRANT
City Address: _____

Applicant: CLARK CONSULTING ENGINEERS **Contact:** PHIL
Address: _____
Phone#: 281-2444 **Fax#:** xxxx cell / txt 264.6042 **E-mail:** CCEalbq@aol.com

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT: ☐ PLAT ☐ RESIDENCE ☐ DRB SITE ☒ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

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

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

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

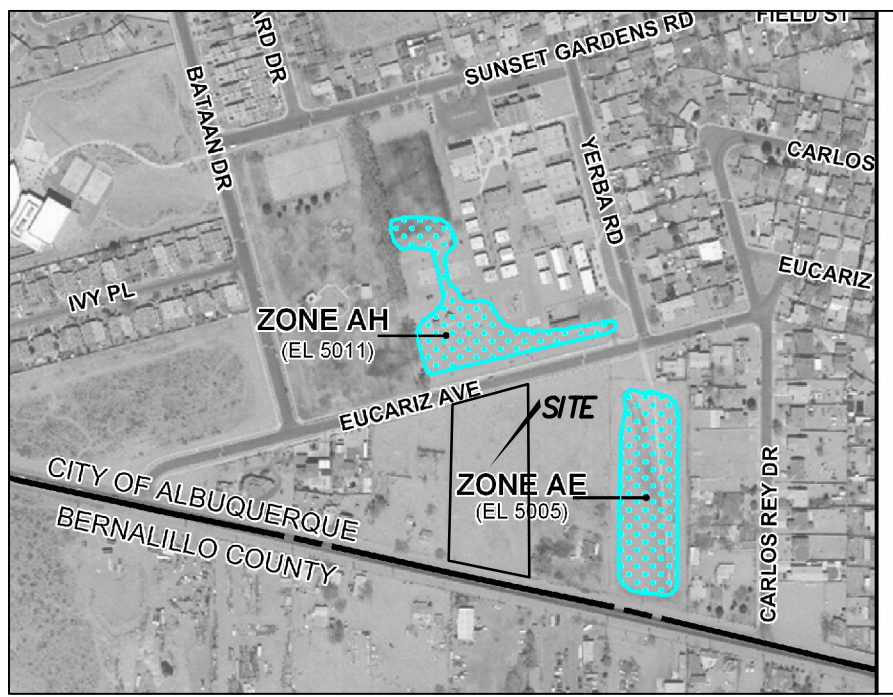
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☒ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ FLOODPLAIN DEVELOPMENT PERMIT
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 4/11/22 **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



FIRM MAP PANEL # 329

GRADING & DRAINAGE PLAN

THE 6-LOT RESIDENTIAL SUBDIVISION IS LOCATED IN THE SOUTHWEST AREA OF ALBUQUERQUE APPROXIMATELY 3 MILES SOUTHWEST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

- EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING VACANT LOT
- PROPOSED IMPROVEMENTS: 6-2600 SF TOTAL SUB-GRADE PAD AREA(S), NEW CONCRETE DRIVEPADS AND ON-SITE PARKING, NEW GRADE ELEVATIONS, WALLS, FLATWORK AND LANDSCAPING.
- CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
- QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS BOUNDED ON THE EAST AND WEST BY RESIDENTIAL USE. BRIDGE AND EUCARIZ DR. ON THE SOUTH AND NORTH ARE PAVED. EUCARIZ AVE. ON THE NORTH, HAS EXISTING CURB, GUTTER AND SIDEWALK, WHILE BOTH EUCARIZ AND BRIDGE ARE MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DOES NOT DRAIN OR DISCHARGE RUNOFF.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE BOTH STREETS ARE IMPROVED ONLY MINIMAL GRADING (DRIVEPAD RECONSTR-N) IS PROPOSED WITHIN THE CITY R.O.W. THE "FIRST BLUSH" 1/2-INCH RAINSTORM IS RETAINED ON-SITE SINCE RUNOFF IS NOT DISCHARGED TO THE ADJACENT STREETS. ADDITIONALLY, RUNOFF IS ROUTED TO LANDSCAPING AND WATER HARVESTING IS RECOMMENDED.

THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWS.

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO DISCHARGE RATE: $Q = Q_{PEAK} \times AREA$. "Peak Discharge Rates For Small Watersheds" VOLUMETRIC DISCHARGE: $VOLUME = E_{Weighted} \times AREA$ $P100 = 2.20$ Inches, Zone 1 Time of Concentration, TC = 10 Minutes DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

TOTAL AREA = 2.09 ACRES, WHERE EXCESS PRECIP. 'A' = 0.49 in. [0.08] PEAK DISCHARGE, $Q100 = 2.7$ CFS [0.51] WHERE UNIT PEAK DISCHARGE 'A' = 1.29 CFS/AC. [0.24] THEREFORE: $VOLUME 100 = 3717$ CF [607]

DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

	AREA	LAND TREATMENT	Q_{Peak}	E
UNDEVELOPED/HARVEST POND	0.84 Ac.(40%)	A	1.29[0.24]	0.49[0.08]
LANDSCAPING	0.42 Ac.(20%)	B	2.03[0.76]	0.67[0.22]
GRAVEL & COMPACTED SOIL	0.48 Ac.(23%)	C	2.87[1.49]	0.99[0.44]
ROOF - PAVEMENT	0.36 Ac.(17%)	D	4.40[2.90]	1.97[1.24]
	2.09 Ac.			

THEREFORE: $E_{Weighted} = 0.89$ in.[0.38] & $Q100 = 4.89$ CFS VOLUME 100 = 6752 CF
 $Q10 = 2.28$ CFS VOLUME 10 = 2883 CF

RECOMMEND : ROUTE DEVELOPED RUNOFF THROUGH EXISTING/UPGRADED SOFT LANDSCAPING INCLUDING DEPRESSED LANDSCAPING IN THE NEW REAR YARDS AS SHOWN

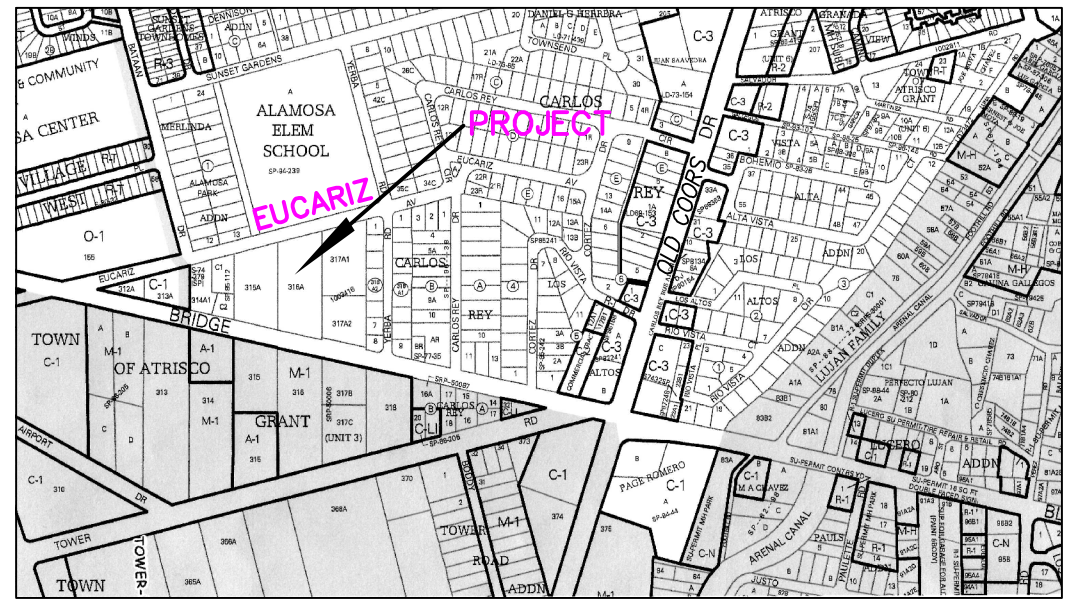
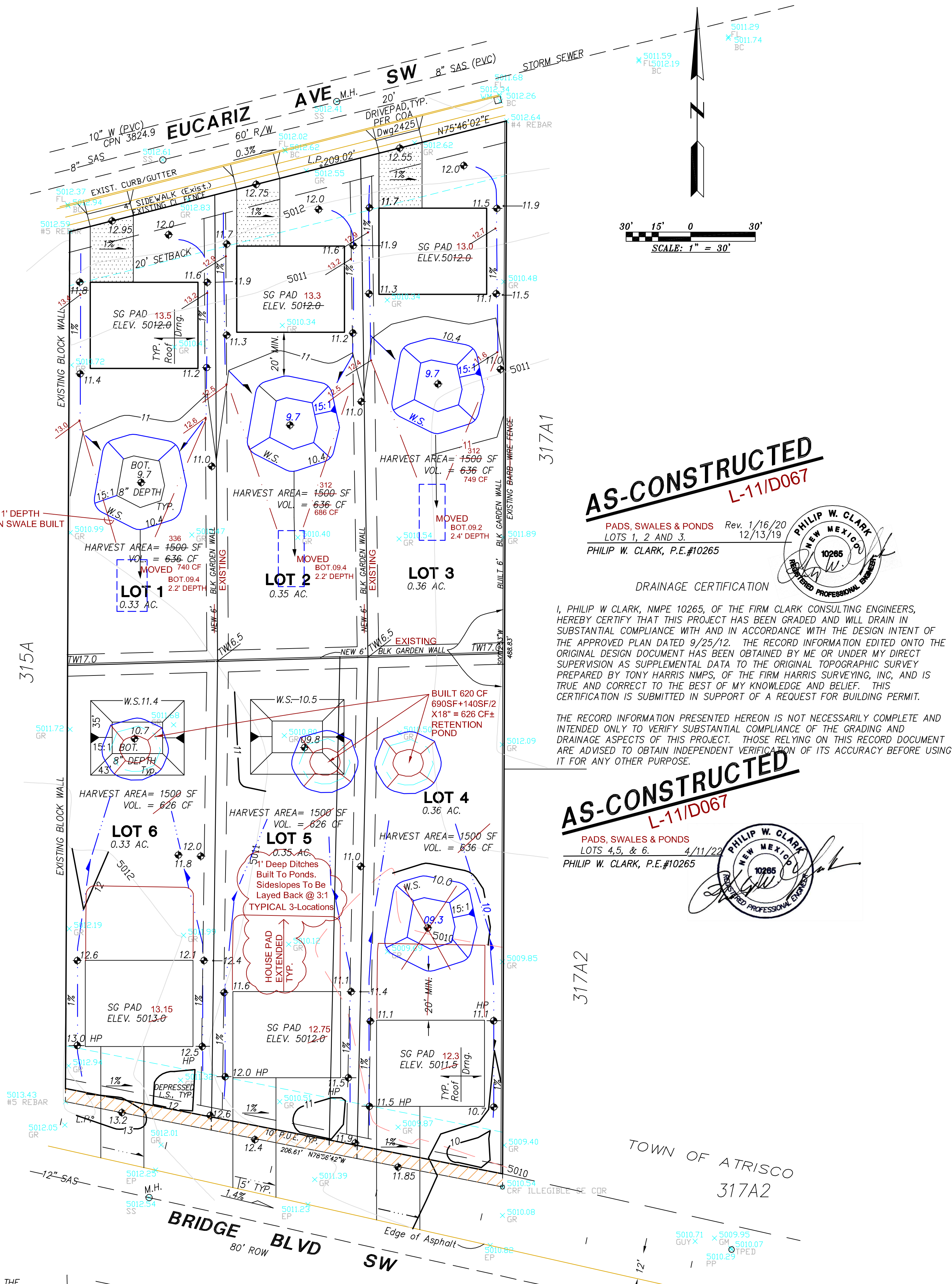
REARYARD HARVEST CALC. (TYP.)

ALL DEVELOPED RUNOFF IS DIRECTED TO THE REAR YARD HARVESTING AREAS WITH THE EXCEPTION OF THE EAST SIDEYARD / SWALE ON LOT 4. THE REAR YARDS ARE CALCD AS FOLLOWS:

$(1500 SF + 341 SF) / 2 \times 0.68' = 626 CF$
 $(1495 SF + 405 SF) / 2 \times 0.67' = 636 CF$

CHECK 1st 1/2" RETAINED
 $2.09 AC \times 43560 SF \times 0.04' = 3641 CF$
PER LOT 3641/6 ~ 607 CF, OK

PHILIP W. CLARK NMPE #10265



ZONE L-11

VICINITY MAP

NOTES

- ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 8TH EDITION W/ UPDATES.
- AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
- 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.
- ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
- CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
- REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX.
- MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

AS-BUILT SPOT ELEVATION	22.0
EXIST. SPOT ELEVATION	24.0
EXIST. CONTOUR	10
NEW SPOT ELEVATION	24.0
NEW CONTOUR	12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW P.C.C., CONCRETE	
TOP OF CURB, EXISTING	TC
FLOWLINE	FL
EXISTING POWER POLE	O
FACE OF CURB/FACE OF CURB	F-F
HIGH POINT	HP
WATER SURFACE	W.S.

PROJECT DATA

LEGAL DESCRIPTION (CONCURRENT PLATTING)

LOTS 1-6, LOPEZ WEST SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK

TOP OF REBAR/CAP AT THE PROJECT SOUTHEAST CORNER MSL
ELEVATION = 5010.54, AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, 8-110, NAVD 88, MSL ELEV. 5069.58, LOCATED AT THE NE INTERSECTION OF 75TH ST. AND BRIDGE BLVD.

TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY THE SURVEY OFFICE UNDER THE DIRECTION OF ANTHONY HARRIS, N.M.P.S., DATED JULY 2012.

Clark Consulting Engineers
Edgewood, New Mexico 87015

Tel: (505) 281-2444		Cell: (505) 264-6042	
DATE	REVISION	LOT 316A, UNIT 3, TOWN OF ATRISCO GRANT ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO BRIDGE BLVD / EUACARIZ LOPEZ WEST Grading & Drainage Plan	
9.21.12	ADDR. COA		
	9.19.12 LET		
1/16/20	AS-BUILT 1-3		
4/7/22	AS-BUILT 4-6		
DESIGNED BY: PWC	DRAWN BY: CCE	JOB #: LOPEZ_F	1 OF 1
CHECKED BY: PWC	DATE 7/2012	FILE #: G/D	

1 OF 1

HYDROLOGY L-11 / D067