CITY OF ALBUQUERQUE

Hydrology Section Planning Department David S. Campbell, Director



Timothy M. Keller, Mayor

March 2, 2018

Philip Clark Clark Consulting Engineers 19 Ryan Road Edgewood, NM 87015

RE: Cosme Retail - 6205 Central Ave. NW

Request for Shell Completion BP 2016-29070 Hydrology Final Inspection – Approved Engineer's Stamp Date: 3/15/2017 (K11D077)

Certification Date 2/20/2018

Dear Mr. Clark:

Based on the application received 2/20/2018, the site is acceptable for permanent Release of Shell Completion by Hydrology.

PO Box 1293

If you have any questions feel free to call me at 924-3986 or e-mailjhughes@cabq.gov.

Sincerely,

Albuquerque

NM 87103

James D. Hughes, P.E.

Principal Engineer, Planning Dept. Development and Review Services

www.cabq.gov

C: email Serna, Yvette; Fox, Debi; Tena, Victoria; Sandoval, Darlene M., Bob Feeney,

Nicole Friedt

Eas VACan: 7/12/17; // bk 2017c, p. 81



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 1/2016)

DRB#: EPC#:	Work Order#:
DRB#: EPC#: EPC#: Lot C-15A, Unit 2, Town of Atrisco Grant	10/19/2000, 2000C, p.277
City Address: 6205 Central Ave NW	, , ,
	Contact: Philip Clark
Address: 19 Ryan Road Edgewood, NM 87015	
Phone#: Fax#:	E-mail:CCEalbq@aol.c
Other Contact:	Contact:
Address:	
Phone#: Fax#:	
Check all that Apply:	
DEPARTMENT:	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
× HYDROLOGY/ DRAINAGE	BUILDING PERMIT APPROVAL
MS4/ EROSION & SEDIMENT CONTROL	× CERTIFICATE OF OCCUPANCY
Mow Breston & SESTMENT CONTROL	GRADING/ESC PERMIT APPROVAL
TYPE OF SUBMITTAL:	
AS-BUILT CERTIFICATION	PRELIMINARY PLAT APPROVAL
	SITE PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN READING PLAN FEB 2 0 2018	SITE PLAN FOR BLDG. PERMIT APPROVAL
SIGILIAN TEAN	FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN DRAINAGE REPORT LAND DEVELOPMENT SECTION	
DRAINAGE REPORT CLOMR/LOMR	
CLOWIN LOWK	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	SO-19 APPROVAL PAVING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	GRADING/PAD CERTIFICATION
NEIGHBORHOOD IMPACT ASSESMENT (NIA)	WORK ORDER APPROVAL
	CLOMR/LOMR
EROSION & SEDIMENT CONTROL PLAN (ESC)	CEONIN EONIN
OTHER (SPECIFY)	PRE-DESIGN MEETING?
	OTHER (SPECIFY)
S THIS A RESUBMITTAL?: Yes No	
DATE SUBMITTED: JAN 25 2048 2 8 By: PWC	
DATE SUBMITTED: JAN 25 2048 2/10 By: PWC	

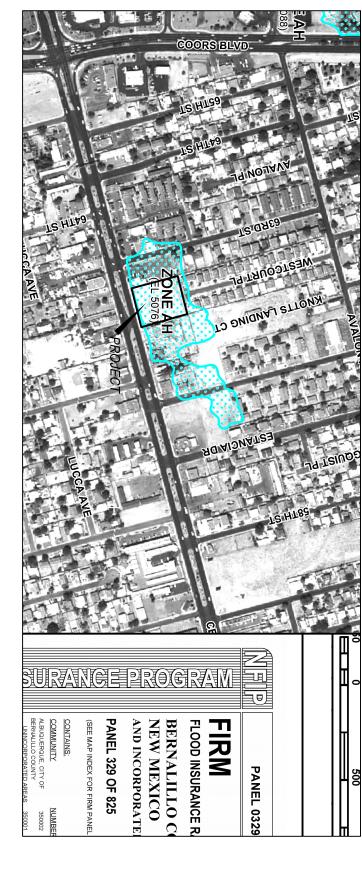
FEE RECEIVED: ___

ELECTRONIC SUBMITTAL RECEIVED: ___



ORTHO-PHOTO, DA TED 11 <u>__</u> 2015

₱74 BOIL



SITE DOES LIE \geq SPHA PANEL **"**## 329

ADING DRAINAGE ע $\stackrel{\mathcal{A}}{\geq}$

THE COMMERCIAL RETAIL PROJECT IS LOCATED IN THE WEST CENTRAL AREA OF ALBUQUERQUE APPROXIMATELY 3 MILES WEST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERN-ALILLO 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:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING PREVIOUSLY DEVELOPED LOT

2. PROPOSED IMPROVEMENTS: 12,400 SF OFFICE-RETAIL BLDG, ON-SITE PARKING, NEW GRADE ELEVATIONS, FLATWORK AND LANDSCAPING.

3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.

4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

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 COMMERCIAL USE. CENTRAL AVE ON THE SOUTH IS 4—LANES PAVED, DEVELOPED WITH 6' WIDE SIDEWALKS AND CURB & GUTTER. THE SITE CURRENTLY DOES NOT DRAIN OR DISCHARGE RUNOFF. HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE CENTRAL AVE. IS IMPROVED NO GRADING IS PROPOSED WITHIN THE CITY R.O.W. THE "FIRST FLUSH" 1/2—INCH RAINSTORM IS RETAINED ON—SITE. ADDITIONALLY, RUNOFF IS ROUTED TO LANDSCAPING AND WATER HARVESTING IS RECOMMENDED. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF—SITE DRAINAGE FLOWS.

To CONTRACTORS –

Drainage Facilities within

CALCULATIONS

YDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM)
ENSED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO
ISCHARGE RATE: Q=QPEAK × AREA..."Peak Discharge Rates For Small Watersheds"
OLUMETRIC DISCHARGE: VOLUME = EWeighted × AREA
100 = 2.20 Inches, Zone 1
Time of Concentration, TC = 10 Minutes
ESIGN STORM: 100—YEAR/6—HOUR, 10—YEAR/6—HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS (PREVIOUSLY DEVELOPED)

TOTAL AREA = 1.2 ACRES, WHERE EXCESS F PEAK DISCHARGE, Q100 = 3.5 CFS [1.8], WHERE UNIT F THEREFORE: VOLUME 100 = 4312 CF [1916] PRECIP. 'C' = 0.99 In. [0.44] PEAK DISCHARGE 'A' = 2.9 CFS/AC. [1.5]

UNDEVEL./
LANDSCAPING / Harvest
GRAVEL & COMPACTED SOIL
ROOF — PAVEMENT DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND
FOR STUDY AREA LAND TREATM'T **VOLUMETRIC** Q Peak
1.29[0.24]
2.03[0.76]
2.87[1.49]
4.40[2.90] DISCHARGE

0.XXX Ac.(XX%)
0.20 Ac.(17%)
0.0 Ac.(0%)
1.0 Ac.(83%)
1.2 Ac. 1.75 In.[1.07] VOLUME 100 = 4

ROUTE DEVELOPED RUNOFF THROUGH EXISTING/UPGRADED SOFT LANDSCAPING INCLUDING DEPRESSED LANDSCAPING STRIP ALONG PARKING AS SHOWN

BASIN TO CFS...SIZE

ABOVE)

<u>E</u> 0.49[0.08] 0.67[0.22] 0.99[0.44] 1.97[1.24]

1.2 AC \times 43560 SF \times 0.37"/12 = 1612 CF TOTAL RETAINED ON-SITE, 1675 CF, 4 AREAS CHECK EPA FIRST-FLUSH RE TAINED

Where: C = 1' W. SDWK. A = 0.625 S = 0.7, g = 32 f/s $\langle CULV. = 1'x7-1/2''$ SF, H=0.625'

OUTLET:

Q Q | |

 $CA \sqrt{2gH}$ 2.8 CFS

2' WIDE

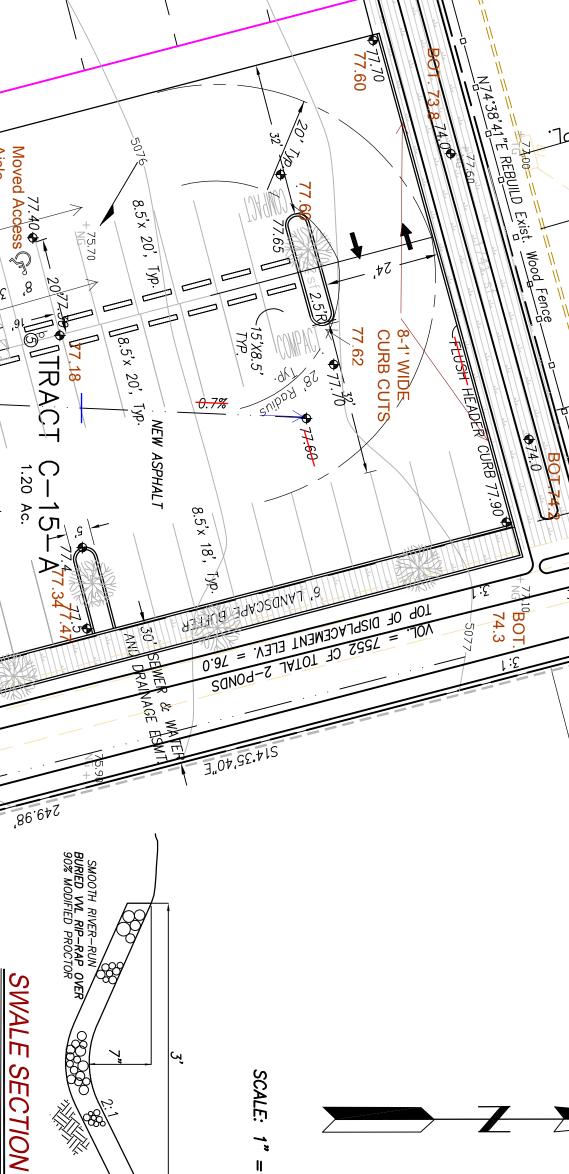
EXISTING Displaced Volu = (25082 SF + 0) / 2] 2' DEPTH, N. POND] 1.6' DEPTH, E. POND 7552 CF

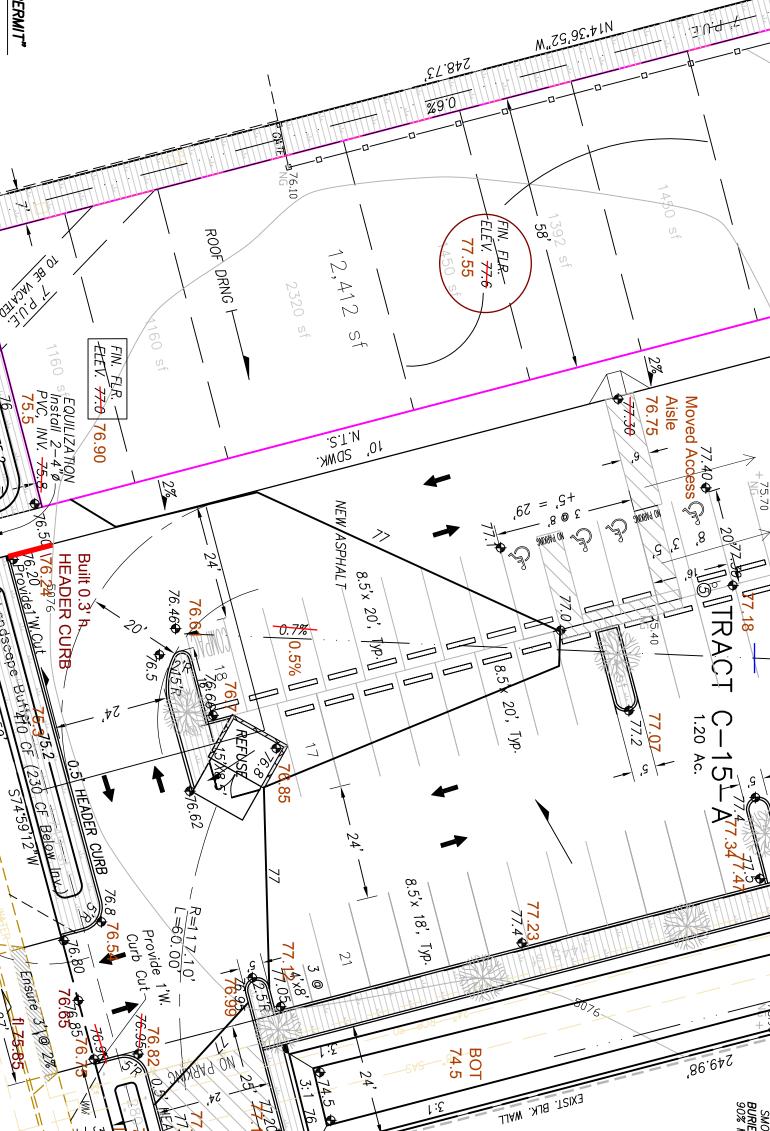
F 76 CONTOUR = $2150 \text{ SF } \supseteq 2$ F 74 CONTOUR = $634 \text{ SF } \supseteq 2$ F 76 CONTOUR = $4103 \text{ SF } \supseteq 1$ F 74.4 CONTOUR = $2243 \text{ SF } \supseteq 1$ RE TOTAL OF 2-PONDS: VOL.

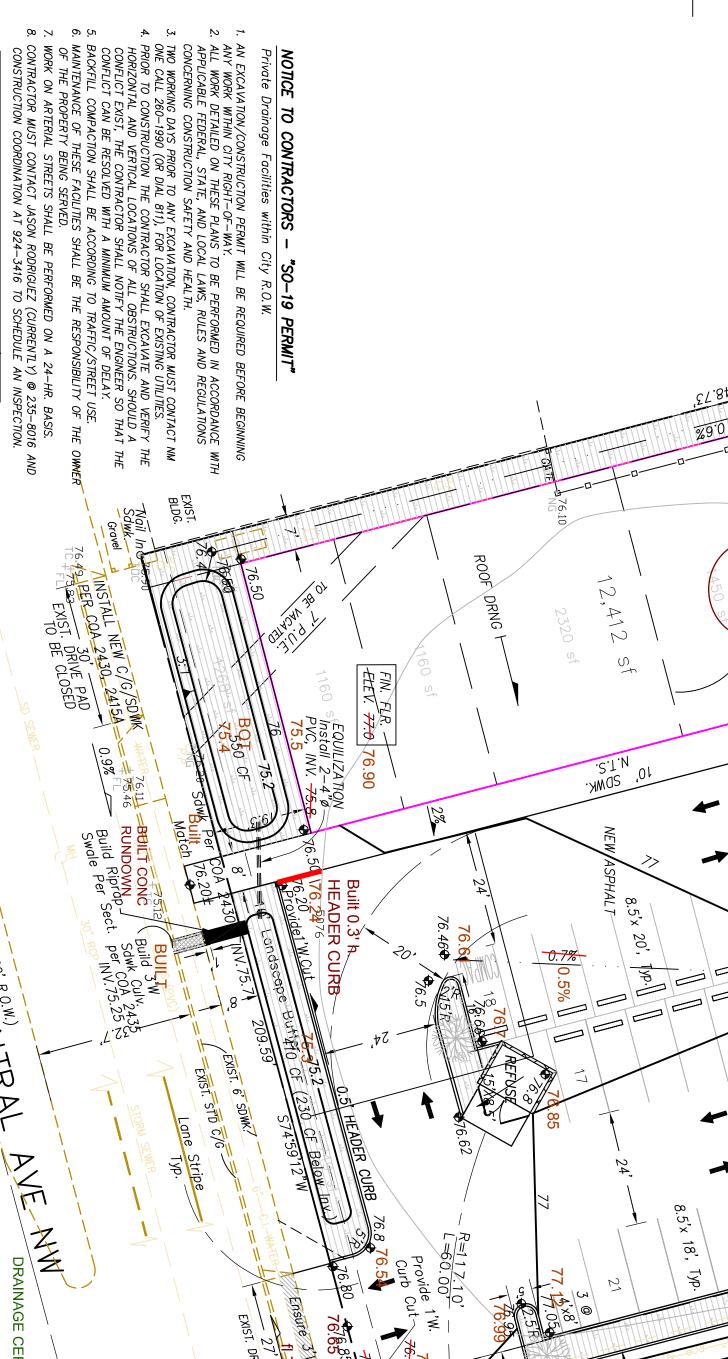
DISPLACEMENT VOL. = PROVIDED ACEMENT VOL. = AREA OF 76
PROVIDED AREA OF 74
AREA OF 76
AS-BUILTAREA OF 74
THEREFORE

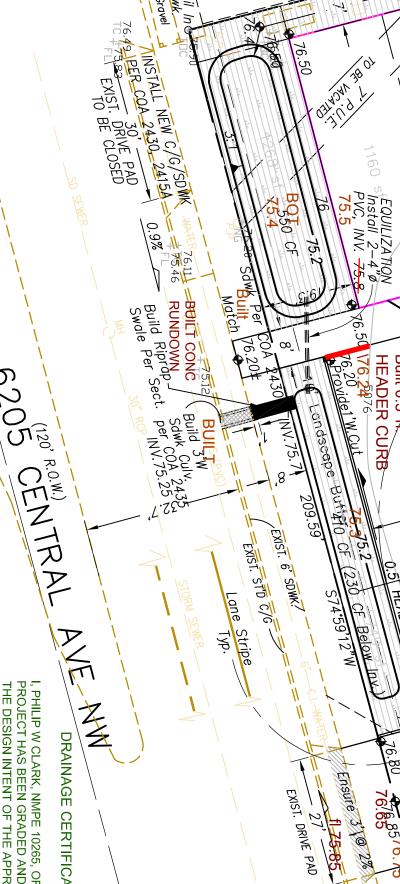
Philip W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO SIGNIFICANT EARTHWORK KIND, NOR MAJOR DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

MEZICONKL 77.62 8-1' WIDE.
CURB CUTS FLUSH-HEADER CURB 77.90 **◆**77.76 SCALE: 1'' = 20'









 $me = (area of 5076 Contour \times 0.6' = 7525 CF$ 0) $/2 \times depth$ I, PHILIP W CLARK, NMPE 10265, OF THE FIRM CLARK CONSULTING ENGINEERS, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 3-15-17. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AS SUPPLEMENTAL DATA TO THE ORIGINAL TOPOGRAPHIC SURVEY PREPARED BY GARY E. GRITSKO, NMPS 8686, OF ALPHA PRO SURVEYING IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR _CERTIFICATE OF OCCUPANCY. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

9

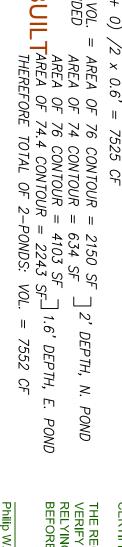
20

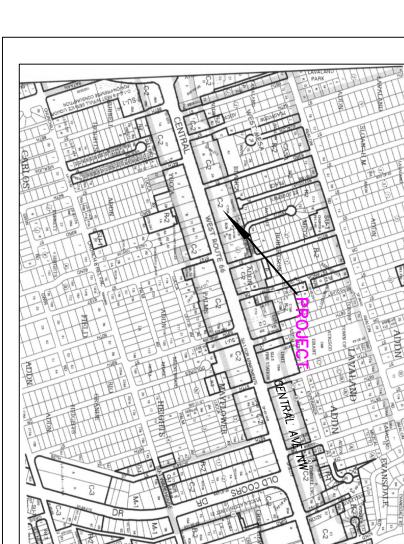
V

DRAINAGE CERTIFICATION

AS-BUILT

2/19/18 1/24/18





YCINITY ZONE K-11

NOTES

1. ALL WORK WITHIN THE RIGHT—OF—WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION W/ 9 UPDATES. ALL DRAINAGE IMPROVEMENTS WITHIN THE CITY ROW SHALL BE BUILT, INSPECTED, AND ACCEPTED PER THE S.O. (SPECIAL ORDER) 19 PROCESS

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. 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 LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.

n=0.04 Mannings 2% Slope, Q= 3 CFS

MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
REFER TO & SEE EROSION & SEDIMENT CONTROL PLAN

CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.

EGEND

NEW P.C.C., CONCRETE NEW SWALE -DRAINAGE DIRECTION, EXISTING NEW SPOT ELEVATION NEW CONTOUR EXIST. SPOT ELEVATION CONTOUR +24.0 As-Built 74.5 — 10 , • , ◆ 24.0 -12 TC

EXIST. W.I./WALL

TOP OF CURB, EXISTING FLOWLINE EXISTING POWER POLE
FACE OF CURB/FACE OF CURB HIGH POINT 0

PROJEC DATA

TEMP.

BENCHERIM

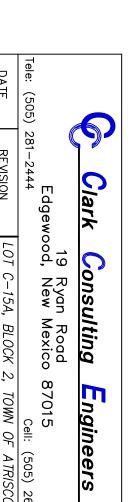
<u>PF.H.</u> == ==

LEGAL DESCRIPTION LOT C-15A, BLOCK 2, TOWN OF ATRISCO GRANT ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

TOP OF REBAR/CAP #13244 AT THE SOUTHEAST CORNER MSL ELEVATION = 5076.48, AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, ACS 18_K11, NAVD 88, MSL ELEV. 5076.47, LOCATED AT THE ENE CURB RETURN OF 63TH ST. AND CENTRAL AVE. PROJECT BENCHMARK

TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY ALPHA PRO SURVEYING SUPPLEMENTED BY CLARK CONSULTING ENGINEERS UNDER DIRECTION OF GARY E. GRITSKO, N.M.P.S., DATED APRIL 2016.



ADDR COAHYDROL
ADDED SO19 NOTES
&REF: TO ESC PLAN

Grading & Drainage

3/15/17

Plan QF