CITY OF ALBUQUERQUE

October 19, 2018

Dennis Lorenz, P.E.
Lorenz Design & Consulting
2501 Rio Grande Blvd. NW Suite A
Albuquerque, New Mexico 87107

RE: **Holiday Bowl**
7515 Lomas NE
Request 30-Day Temporary C.O. – Accepted
Engineers Stamp Date 4/16/16 (J19D082A)
Certification Dated: 10/19/18

Dear Mr. Lorenz,

Based on the Certification received 10/19/2018, Hydrology has no objection to the issuance of a 30-day Temporary Certification of Occupancy based solely on the Hydrology Certification received from Dennis Lorenz, PE. This letter serves as a "green tag" from Hydrology for a 30-day Temporary Certificate of Occupancy to be issued by the Building and Safety Division.

Prior to the issuance of a permanent Certificate of Occupancy, the Hydrology Department must receive a complete acceptable submittal package from the applicant. An inspection of the site must be conducted by the City of Albuquerque Hydrology Department with all site improvements in compliance with all City of Albuquerque Standards.

If you have any questions, please contact me at 924-3986 or Totten Elliott at 924-3982.

Sincerely,

James D. Hughes P.E.
Principal Engineer, Planning Dept.
Development Review Services

TE/DH
C: CO Clerk: Fox, Debi; Tena, Victoria C.; Michelle Costilla; Sandoval, Darlene M.

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: HOLIDAY BOWL Building Permit #: 2018-10873 Hydrology File #: J19-D082A

DRB#: — EPC#: — Work Order#: —

Legal Description: TRACT G LA MESA DEL NORTE ADDN

City Address: 7515 LOMAS NE

Applicant: GARY SKIDMORE Contact: G. SKIDMORE

Address: 7515 LOMAS NE ABQ NM 87110

Phone#: 268-3308 Fax#: — E-mail: —

Other Contact: DENNIS LORENZ Contact: D. LORENZ

Address: 2501 RIO GRANDE NW STE A, ABQ NM 87104

Phone#: 220-0869 Fax#: — E-mail: DENNISL@LORENZNM.COM

TYPE OF DEVELOPMENT: ____ PLAT (# of lots) ____ RESIDENCE ____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? ____ Yes X No

DEPARTMENT ____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X 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?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY

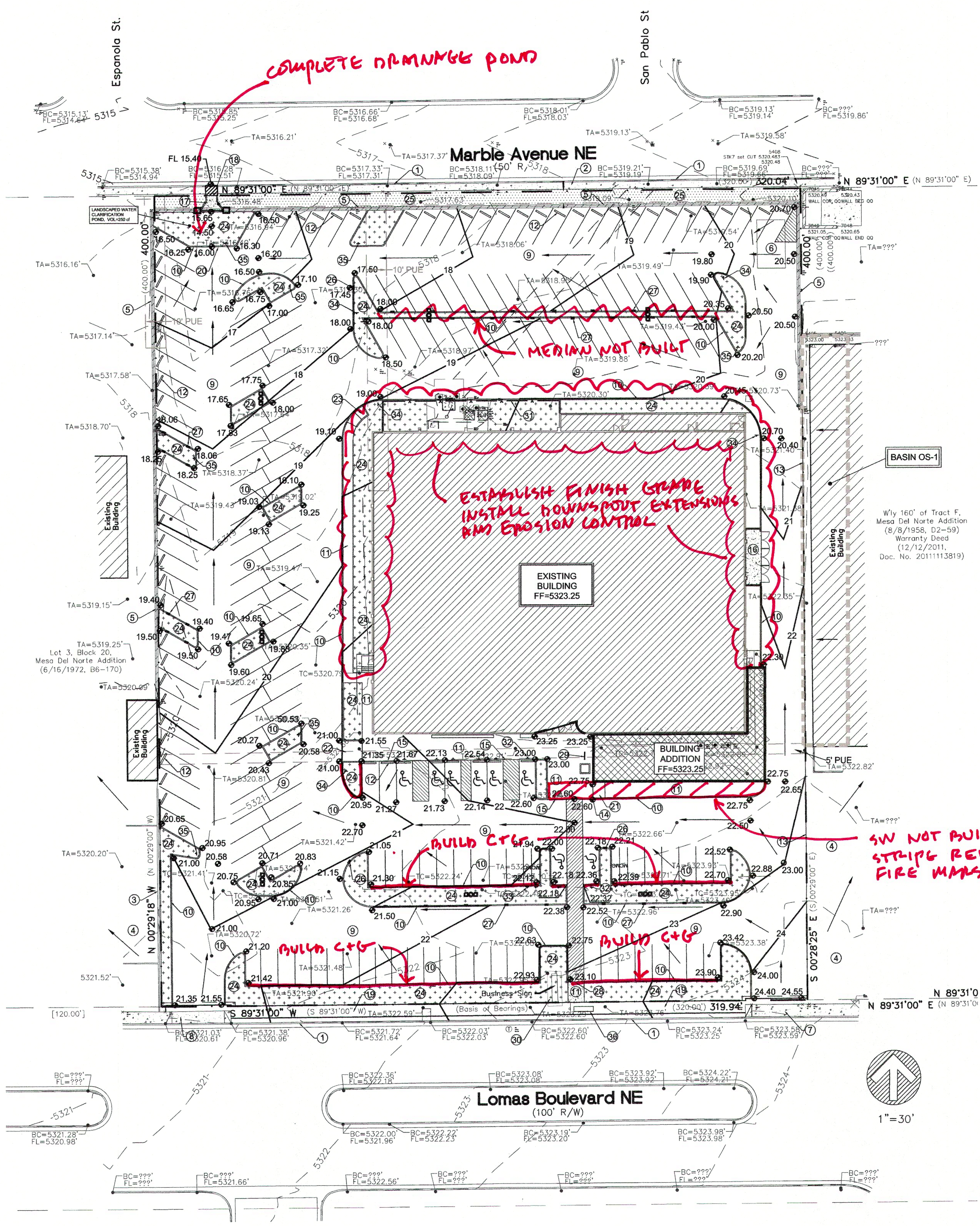
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

____ 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: 10.19.18 By: DENNIS LORENZ

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

FEE PAID: ____



GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the renovation of the Holiday Bowling Center, located at 7515 Lomas Blvd NE. The renovation includes a 2,115 square foot building addition with paving, landscaping, utility, grading, and drainage improvements to support the project. The purpose of this Plan is to support building permit approval. The scope of this plan is to present grading and drainage criteria for the safe management of excess runoff impacting the site from upstream drainage basins, and controlling excess runoff from the project site in a well-managed, non-erosive manner.

EXISTING CONDITIONS

The property is located at 7515 Lomas Blvd NE, between Pennsylania Street and Wyoming Blvd NE. The site is presently fully developed. The Holiday Bowling Center was developed in the 1950's. The existing 28,129 square foot building was developed in accordance with the criteria in force at the time. The site is fully surfaced with asphalt pavement. No Landscaing improvements are present.

SIte topography slopes to the northwest. All excess runoff flows north by paved swales within the parking lot to the northwest corner of the site, where flows drain through an existing block wall to Marble Avenue NE. The existing drainage outlet has become clogged. There is no evidence that the site drains freely to Marble Avenue. It appears that excess runoff ponds at the northwest corner of the site. The east and west property boundaries are sealed by solid perimeter walls. A potion of the building located to the east drains into the side yard of the site (Basin OS-1). The remainder of the property to the east drains away from the site. No other off-site flows impact the site.

As shown by the FIRM Panel (Sheet C-3), the site does not lie within a mapped 100 year Flood Zone.

PROPOSED IMPROVEMENTS

As stated above, the project consists of the construction of a 2,115 square foot building addition with paving, landscaping, utility, grading, and drainage improvements. Where practical all developed runoff will be routed through landscaping to capture the first flush before release into the perimeter streets. All excess runoff will be managed by respecting historical drainage conditions. All excess runoff will drain the the northwest corner of the site . A new drainage structure will be provided to safely drain developed flows through a sidewalk culvert to Marble Avenue. SO-19 permitting will apply. First Flush volume is provided as required by Ordinance.

Construction will disturb an area of more than 1.0 acres; therefore a Storm Water Pollution Prevention Plan will be required.

CALCULATIONS

The calculations shown hereon define the 100-year/6 hour design storm falling within the project area under existing and proposed conditions. The hydrology is per "Section 22.2, Part A, Development Process Manual, Vol 2", dated June 1997.

ZONE:	3	PROJECT HYDROLOGY						
P_{6HOUR}	2.60	HOLIDAY BOWL						
$P_{10 DAY}$	4.90	AHYMO						
EXISTING CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	2.94	0.00	0.04	0.00	2.90	2.34	14.66	0.573
OS-1	0.10	0.00	0.00	0.00	0.10	2.36	0.50	0.020
PROPOSED CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	2.94	0.00	0.13	0.20	2.61	2.22	14.13	0.545
OS-1	0.10	0.00	0.00	0.00	0.10	2.36	0.50	0.020

FIRST FLUSH CALCULATION

90TH PERCENTILE DEPTH = 0.44"
LESS INITIAL ABSTRACTIONS = -0.10"
REQUIRED RETAINED DEPTH = 0.34"

POND REQUIREMENT = Ad(0.34") = 2.61 AC(43,560sf/ac/12)(0.34") = 3,221 CF
VOLUME PROVIDED = LANDSCAPED AREA X 0.25" = 14,893 sf X 0.25" = 3,723 cf
PLUS ADDITIONAL VOLUME AT WATER CLARIFICATION POND = 250 cf
TOTAL FIRST FLUSH VOLUME PROVIDED = 3,973 cf

Private Drainage Facilities within City Right-of-Way
Notice to Contractor
(Special Order 19 ("SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. 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.
3. Two working days prior to any excavation, the contractor must contact **New Mexico One Call, dial "811"** [or (505) 260-1990] for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the 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.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets shall be performed on a 24-hour basis.
8. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an inspection.

STREET MAINTENANCE INSPECTOR

APPROVAL________________________

IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DRAINAGE ORDINANCE, EFFECTIVE MAY 12, 2014, ALL NEW DEVELOPMENT PROJECT S ARE REQUIRED TO MANAGE THE RUNOFF WHICH OCCURS DURING THE 90TH PERCENTILE STORM EVENT. IN ORDER TO COMPLY WITH THIS CRITERIA, WHERE PRACTICAL, ALL SURFACE DRAINAGE SHALL BE ROUTED THROUGH LANDSCAPED AREAS BEFORE RELEASE INTO DOWNSTREAM DRAINAGE FACITLITIES. THIS PLAN RECOMMENDS ALL LANDSCAPED AREAS BE DEPRESSED A MINIMUM OF 3-INCHES BELOW THE ADJACENT PAVED SURFACE TO RETAIN THE FIRST FLUSH RUNOFF.

CONTRACTOR SHALL PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT IS PRESENT IN THE STREET, THE DIRT IS TO BE REMOVED AT THE END OF EACH DAY OR DURING THE DAY IF RAIN IS IMMINENT OR IF THE CONTRACTOR INTRODUCES WATER INTO THE STREET.

DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR
TEMPORARY CERTIFICATE OF OCCUPANCY

I, DENNIS A. LORENZ, NMPE9647, OF THE FIRM LORENZ DESIGN & CONSULTING, LLC, 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 04-16-2018. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY BRIAN MARTINEZ, NMPS 18374 OF THE FIRM CARTESIAN SURVEYS, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10-17-2018 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR TEMPORARY CERTIFICATE OF OCCUPANCY.

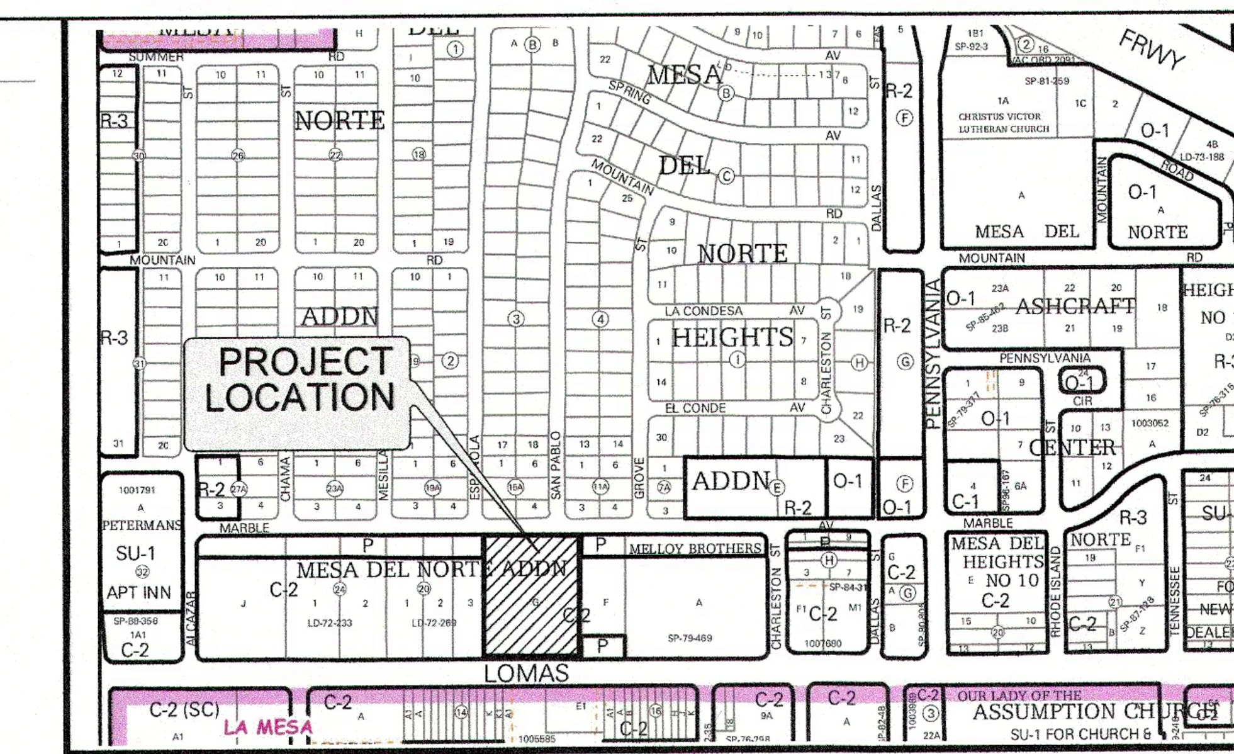
THE FOLLOWING ITEMS MUST BE COMPLERED PRIOR TO ISSUANCE OF PERMANENT CERTIFICATE OF OCCUPANCY:

1. COMPLETE LANDSCAPING.
2. ESTABLISH FINISH GRADE AROUND BUILDING. INSTALL DOWNSPOUT EXTENSIONS AND EROSION CONTROL IMPROVEMENTS.
3. CONSTRUCT ALL CONCRETE CURBS.
4. COMPLETE DRAINAGE POND AT NW CORNER PER PLAN.

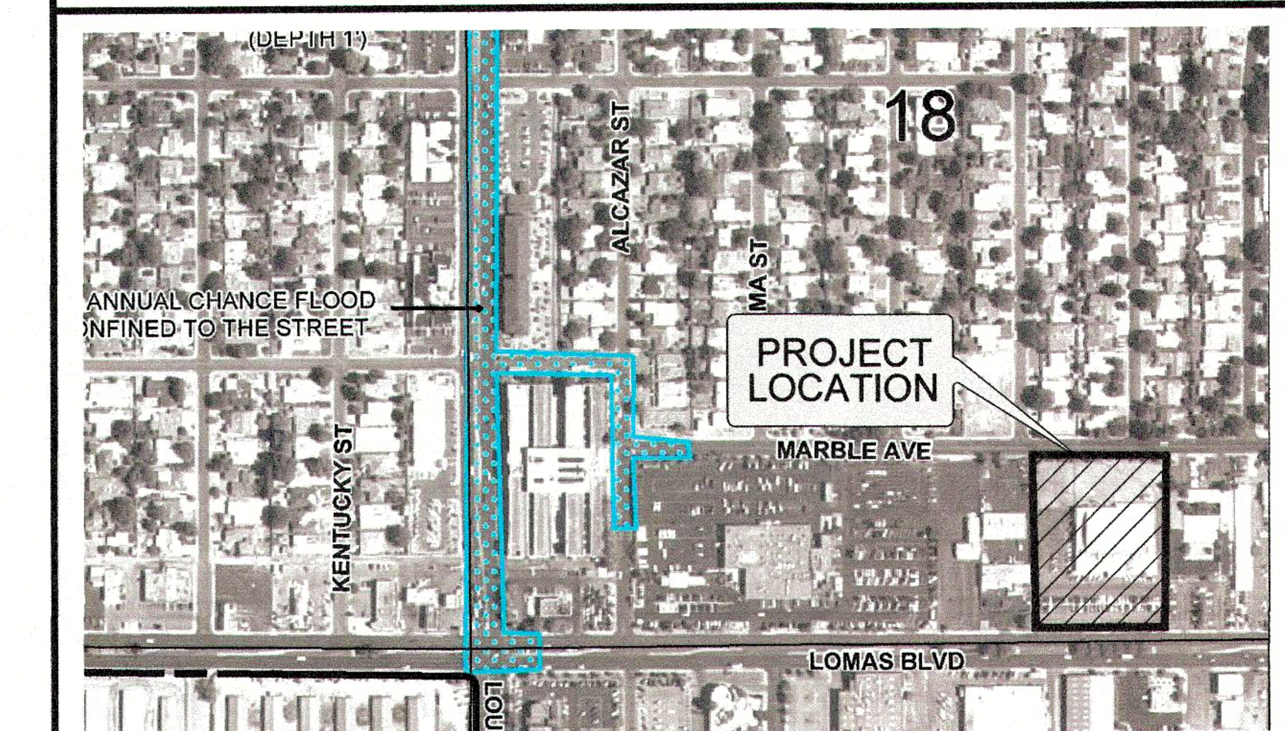
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

DENNIS A. LORENZ, NEW MEXICO, 9647, REGISTERED PROFESSIONAL ENGINEER
10·19·18

DENNIS A. LORENZ, NMPE 9647



LOCATION MAP ZONE ATLAS J-22-Z NTS



FIRM PANEL 35001C0357H NTS

LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
6" CONCRETE CURB		
CURB ELEVATIONS	TOP CONC. ELEV. FLOWLINE ELEV	TOP CONC. ELEV. FLOWLINE ELEV
SPOT ELEV.		16.7
RIGHT OF WAY		
EASEMENT		
CENTERLINE		
RETAINING WALL	R/R	
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
FLOWLINE ELEV	EX FL 16.2	FL 16.2
DRAINAGE SWALE		
STORM INLET		
STORM DRAIN PIPE		SD
DOWNSPOUT		
DRAINAGE BASIN DIVIDE		
DRAINAGE BASIN ID		A-1
LIGHT POLE AND FIXTURE		

KEYED NOTES

1. EXISTING CONCRETE STANDARD CURB AND GUTTER.
2. EXISTING PUBLIC SIDEWALK TO REMAIN.
3. EXISTING CONCRETE CURB.
4. EXISTING ASPHALT PAVEMENT.
5. EXISTING BLOCK WALL TO REMAIN.
6. EXISTING SHED TO BE RELOCATED. COORDINATE WITH OWNER.
7. EXISTING DRIVEPAD TO REMAIN. CONSTRUCT ACCESSIBLE SIDEWALK. SEE SHEET DETAIL H/C.4.
8. EXISTING DRIVEPAD TO REMAIN. CONSTRUCT ACCESSIBLE SIDEWALK. SEE SHEET DETAIL J/C.4.
9. REMOVE AND DISPOSE EXISTING ASPHALT. REPLACE WITH ASPHALT PAVEMENT PER SECTION A/C.4.
10. CONSTRUCT 6-INCH CONCRETE CURB. SEE DETAIL C/C.4.
11. CONSTRUCT CONCRETE SIDEWALK.
12. INSTALL CONCRETE TIRE STOP - TYPICAL.
13. EDGE OF NEW PAVEMENT.
14. END CONCRETE CURB.
15. CONSTRUCT CONCRETE TURN DOWN SIDEWALK SEE DETAIL B/C.4. NO RAISED CURB AT THIS LOCATION.
16. CONSTRUCT NEW REFUSE ENCLOSURE. SEE DETAIL F/C.5.
17. CONSTRUCT 10' WIDE CONCRETE CHANNEL. SEE DETAIL C/C.5.
18. CONSTRUCT 2-24" SIDEWALK CULVERTS PER CITY STANDARD DETAIL 2236.
19. CONSTRUCT 6' PUBLIC SIDEWALK PER CITY STANDARD DETAIL.2430.
20. PROVIDE 10' CURB BLOCKOUT FOR DRAINAGE.
21. CONSTRUCT ACCESSIBLE RAMP TYPE 'A'. SHEET DETAIL E/C.4.
22. CONSTRUCT ACCESSIBLE RAMP TYPE 'B'. SHEET DETAIL F/C.4.
23. CONSTRUCT ACCESSIBLE RAMP TYPE 'C'. SHEET DETAIL G/C.4.
24. NEW LANDSCAPING. SEE LANDSCAPE PLAN. — NOT COMPLETE.
25. EXISTING LANDSCAPING TO REMAIN.
26. CONSTRUCT 12" CURB BLOCKOUT FOR DRAINAGE.
27. CONSTRUCT 6" CURB BLOCKOUT FOR DRAINAGE AT 20' ON CENTER ALONG MEDIAN LENGTH.
28. CONSTRUCT 8' CURB BLOCKOUT AT SIDEWALK.
29. BICYCLE RACK - 10 SPACES.
30. EXISTING SIGN TO REMAIN.
31. CONSTRUCT 8' HIGH CHAIN LINK FENCE AT UTILITY YARD WITH GATE PER PNM STANDARDS.
32. CONSTRUCT ADA ACCESSIBLE PARKING SIGN ASSEMBLY. SEE DETAIL K/C.4.
33. CONSTRUCT MOTORCYCLE PARKING SIGN. SEE DETAIL A/C.5.
34. CONSTRUCT "DO NOT ENTER" SIGN. SEE DETAIL B/C.5.
35. CONSTRUCT "ONE WAY" SIGN. SEE DETAIL B/C.5.
36. EXISTING BUS BENCH AND SIGN TO BE RELOCATED. COORDINATE WITH TRANSIT.

PROJECT INFORMATION:

PROPERTY ADDRESS:
7515 LOMAS BLVD NE , ALBUQUERQUE, NEW MEXICO

LEGAL DESCRIPTION:
TRACT G, LA MESA DEL NORTE ADDITION

PROJECT SURVEY
BOUNDARY AND TOPOGRAPHIC SURVEY BY CARTESIAN SURVEYS, INC., MAY 1, 2015

PROJECT BENCHMARK
ACS MONUMENT "26-K19"
ELEVATION = 5329.456 FEET MSLD (NAVD 1988)

SMPC Architects
PRINCIPLES OF DESIGN.

LORENZ
DESIGN & CONSULTING, LLC
Civil Engineering | Construction Management

HOLIDAY BOWL
100% Permit Documents
7515 Lomas Boulevard Northeast
Albuquerque, New Mexico 87110

NO	DATE	DESCRIPTION
1	04-16-2018	CODE COMMENTS

DATE:	04-16-2018
PROJECT #:	LDC 15-011
DRAWN BY:	DAL
CH'D BY:	DAL
Copyright:	

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET C.02 OF