

CITY OF ALBUQUERQUE



April 7, 2016

Levi J. Valdez, PE
George T Rodriguez-Development Consultant
12800 San Juan Rd. SE
Albuquerque, NM 87123

Re: Hillside Auto Sales, LLC
134 Tennessee St. NE
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 10-21-14 (K19D148)
Certification dated: 4-4-16

Dear Mr. Valdez,

Based on the Certification received 4/5/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

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

PO Box 1293

Sincerely,

Albuquerque

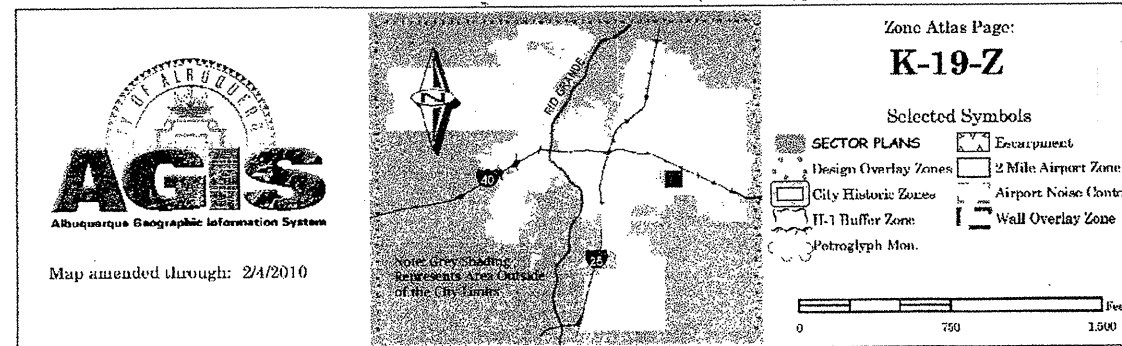
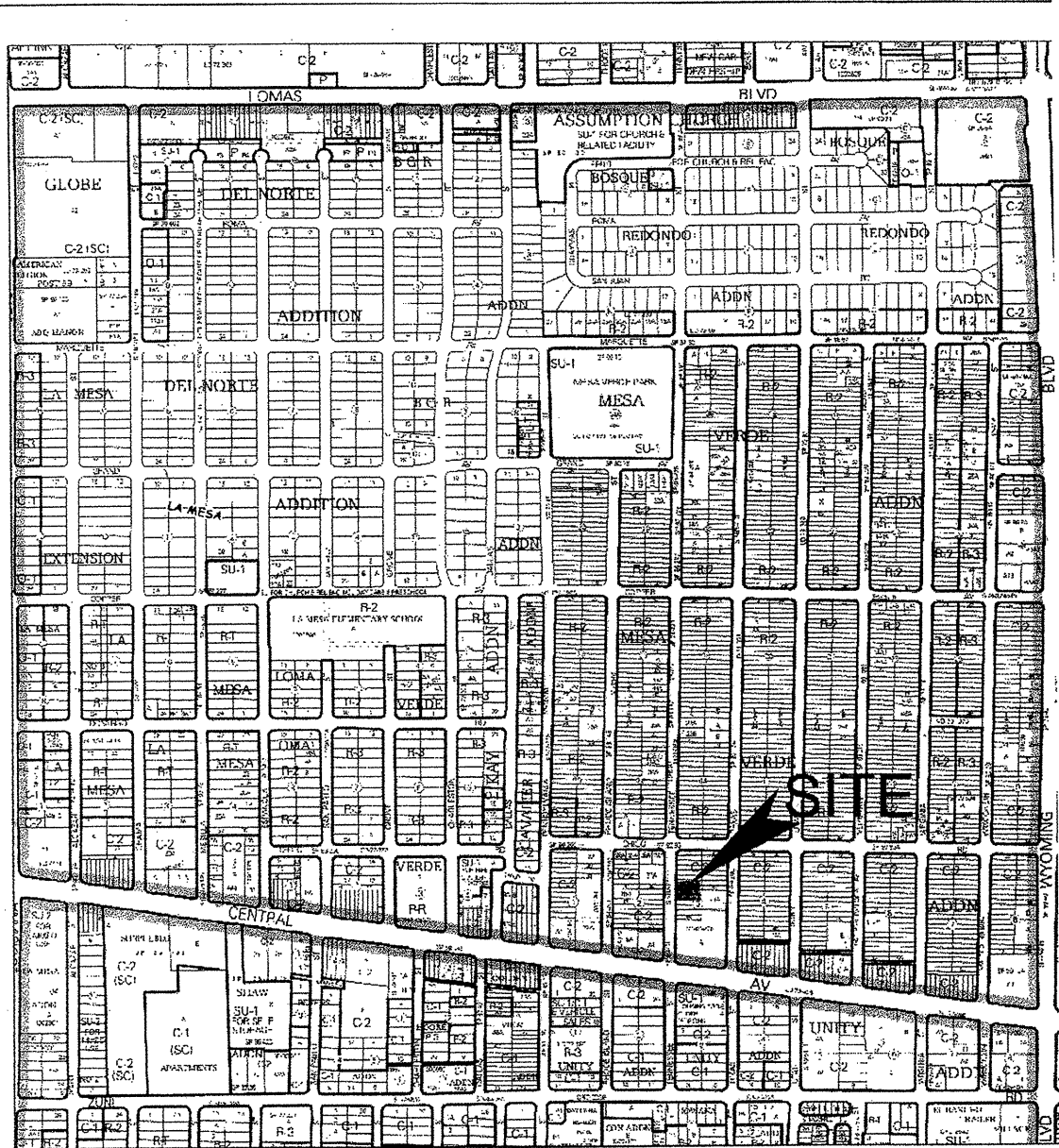
Abiel Carrillo, P.E.
Principal Engineer, Planning Department
Development and Review Services

New Mexico 87103

www.cabq.gov

TE/AC

C: email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois



VICINITY MAP

Drainage Comments:

N.T.S.

As shown on the vicinity map hereon, the subject site is a vacant property located on the East side of Tennessee Avenue N.E. between Central Avenue and Chico Street N.E., in the City of Albuquerque, Bernalillo County, New Mexico, (Zone Atlas Map K-19-Z).

The subject site, 1.) is not located within a designated floodplain (designated Zone 'X'), re: F.E.M.A. Panel 350 002 0358H dated August 16, 2012, 2.) does not contribute to the offsite flows of adjacent properties and does not accept offsite flows from adjacent properties, 3.) is a vacant property that is to have a 40.0' x 60.0' metal building and associated improvements constructed thereon, 5.) is to have a retention pond that is sized for the "first flush storm volume".
"First Flush Storm Volume": 0.34" x impervious area, impervious area = 10,890.0 sq. ft. 0.34" (0.3") x 10,890.0 = 326.7 cu. ft.
Proposed Retention Pond(s): (Mean Dimensions)
Pond #1 = 1.10' x 4.5' x 42.0' = 207.9 cu. ft.
Pond #2 = 1.10' x 3.0' x 45.0' = 148.5 cu. ft.
Total = 356.4 cu. ft. Provided
- 326.7 cu. ft. Required
*** 29.7 cu. ft. Freeboard

SITE AREA = 0.31 ACRE
PRECIPITATION: 360 = 2.60 in.
1440 = 3.10 in.
10day = 4.90 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A 0.66 in.	1.87 cfs/ac.
TREATMENT B 0.92 in.	2.60 cfs/ac.
TREATMENT C 1.29 in.	3.45 cfs/ac.
TREATMENT D 2.36 in.	5.02 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A 0.31 ac.	AREA 0.00 ac.
TREATMENT B 0.00 ac.	AREA 0.00 ac.
TREATMENT C 0.00 ac.	AREA 0.06 ac.
TREATMENT D 0.00 ac.	AREA 0.25 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E = $(0.66 \times (0.31) + (0.92 \times (0.00) + (1.29 \times (0.00) + (2.36 \times (0.00)) / 0.31$
= 0.66 in.
V100-360 = $(0.66 \times (0.31) / 12 = 0.01705$ ac-ft = 742.7 cf

EXISTING PEAK DISCHARGE:

Q100 = $(1.87 \times (0.31) + (2.60 \times (0.00) + (3.45 \times (0.00) + (5.02 \times (0.00)) = 0.58$ cfs

PROPOSED EXCESS PRECIPITATION:

Weighted E = $(0.66 \times (0.00) + (0.92 \times (0.00) + (1.29 \times (0.06) + (2.36 \times (0.25)) / 0.31$
= 2.15 in
V100-360 = $(2.15 \times (0.31) / 12.0 = 0.05562$ ac-ft = 2,423.0 cf

V100-1440 = $(0.06 \times (0.25 \times (3.10 - 2.60) / 12 = 0.07040$ ac-ft = 3,067.0 cf

V100-10day = $(0.06 \times (0.25 \times (4.90 - 2.60) / 12 = 0.10790$ ac-ft = 4,700.8 cf

PROPOSED PEAK DISCHARGE:

Q100 = $(1.87 \times (0.00) + (2.60 \times (0.00) + (3.45 \times (0.06) + (5.02 \times (0.25)) = 1.47$ cfs

INCREASE: V100-360 = 1,680.3 cf

Q100 = 0.89 cfs

DRAINAGE CERTIFICATION:

I, LEVI J. VALDEZ, N.M.P.E. NO. 5693, 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 [DATE]. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND 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 (PERMANENT)].

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 PURPOSES.

Levi J. Valdez
LEVI J. VALDEZ, N.M.P.E. NO. 5693

04-04-10
DATE

SEAL

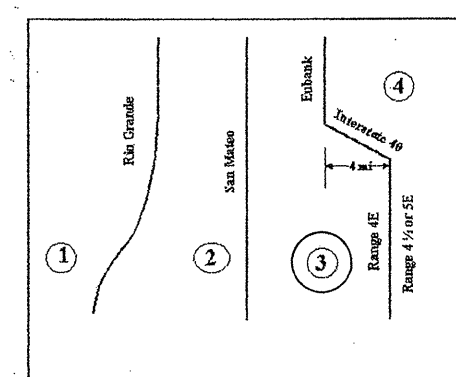


A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

ZONE	LOCATION
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East; South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

Zone	Intensity (2-YR, 10-YR)
1	4.70 (1.84, 3.14)
2	5.05 (2.04, 3.41)
3	5.38 (2.21, 3.65)
4	5.61 (2.34, 3.83)



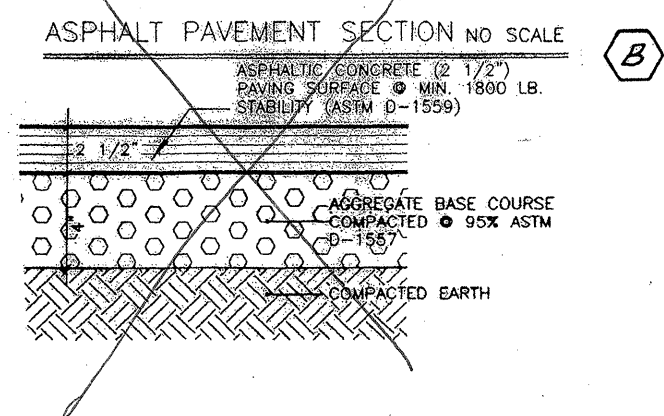
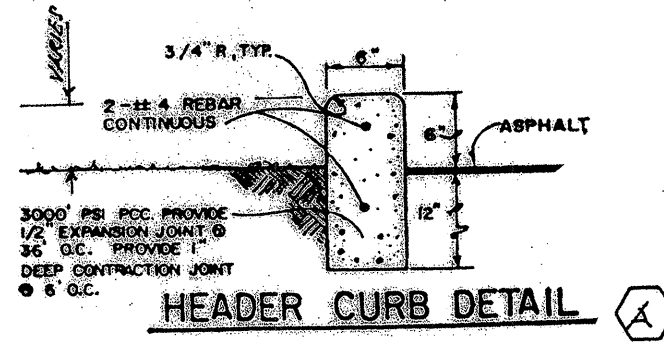
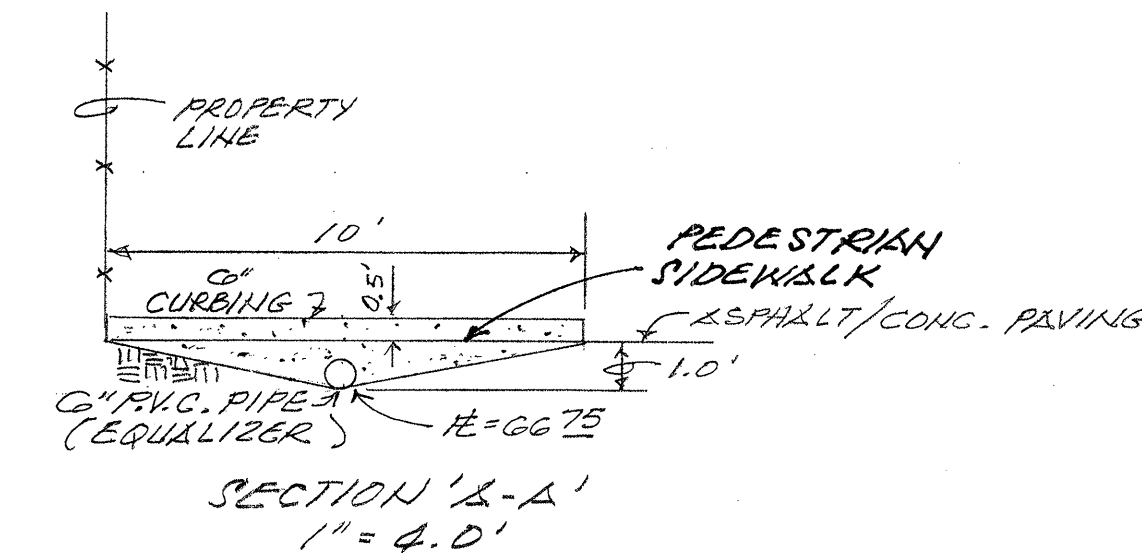
Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundwater and infiltration capacity. Croplands. Unlined Arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil uncompacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Zone	Treatment	100-YR (2-YR, 10-YR)
1	A	1.29 (0.00, 0.24)
2	B	1.56 (0.00, 0.38)
3	C	1.87 (0.00, 0.58)
4	D	2.30 (0.05, 0.87)

LEGAL DESCRIPTION: LOTS 20 THRU 23, BLOCK 3, MESA VERDE ADDITION, ALBUQUERQUE, NEW MEXICO.

NOTES:

- PROVIDE NEW 6.0' SIDEWALK PER C.O.A. STD. DWG. # 2430
- PROVIDE NEW 25.0' WIDE CONCRETE DRIVEPAD PER C.O.A. STD. DWG. # 2425
- PROVIDE H.C. RAMP(S) @ SIDEWALK PER C.O.A. STD. DWG. # 2441



EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION. HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

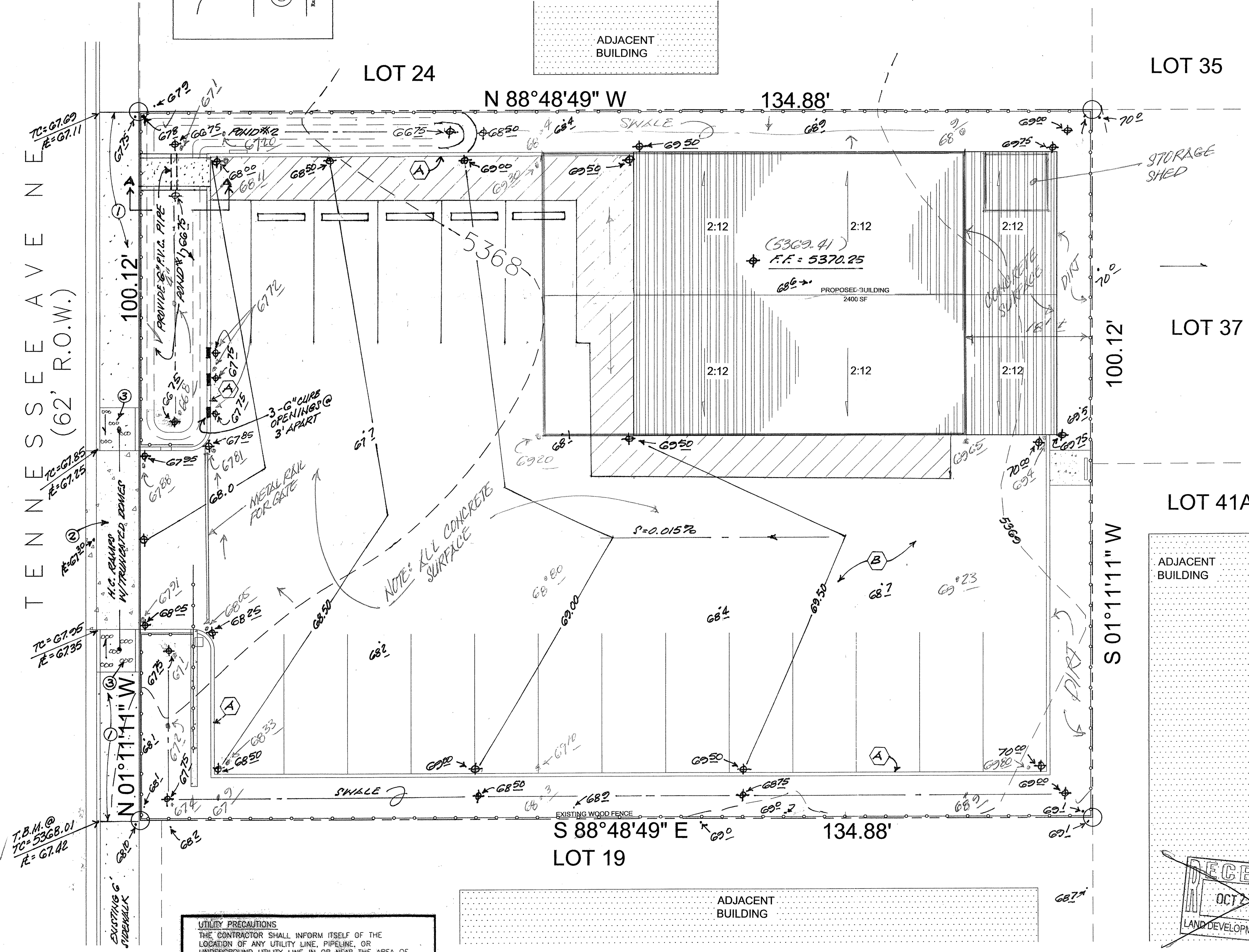
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

LEGEND:

- TOP OF CURB ELEVATION = 70'-08.01
- CURB FLOWLINE ELEVATION = 70'-07.02
- EXISTING SPOT ELEVATION = 70'-07.02
- EXISTING CONTOUR ELEVATION = 5368
- PROPOSED SPOT ELEVATION = 70'-08.75
- PROPOSED CONTOUR ELEVATION = 70'-08.50
- PROPOSED OR EXISTING CONCRETE SURFACE = 70'-08.50
- EXISTING FENCE LINE = 70'-08.50

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED FOR THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.



UTILITY PRECAUTIONS
THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.



APRIL 2016
(ENGINEER'S CERTIFICATION)
DRAINAGE AND GRADING

SCALE: 1"= 10'