

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

October 7, 2019

Diane Hoelzer, P.E.
Mark Goodwin & Associates
PO Box 90606
Albuquerque, NM 87199

**RE: Ceja Vista Unit 1
Updated Master Drainage Plan
Engineer's Stamp Date: 10/04/19
Hydrology File: P09D002F**

Dear Ms. Hoelzer:

PO Box 1293

Based upon the information provided in your submittal received 08/09/2019 and 10/04/19, the Updated Master Drainage Plan is approved for Grading Permit and Work Order.

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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

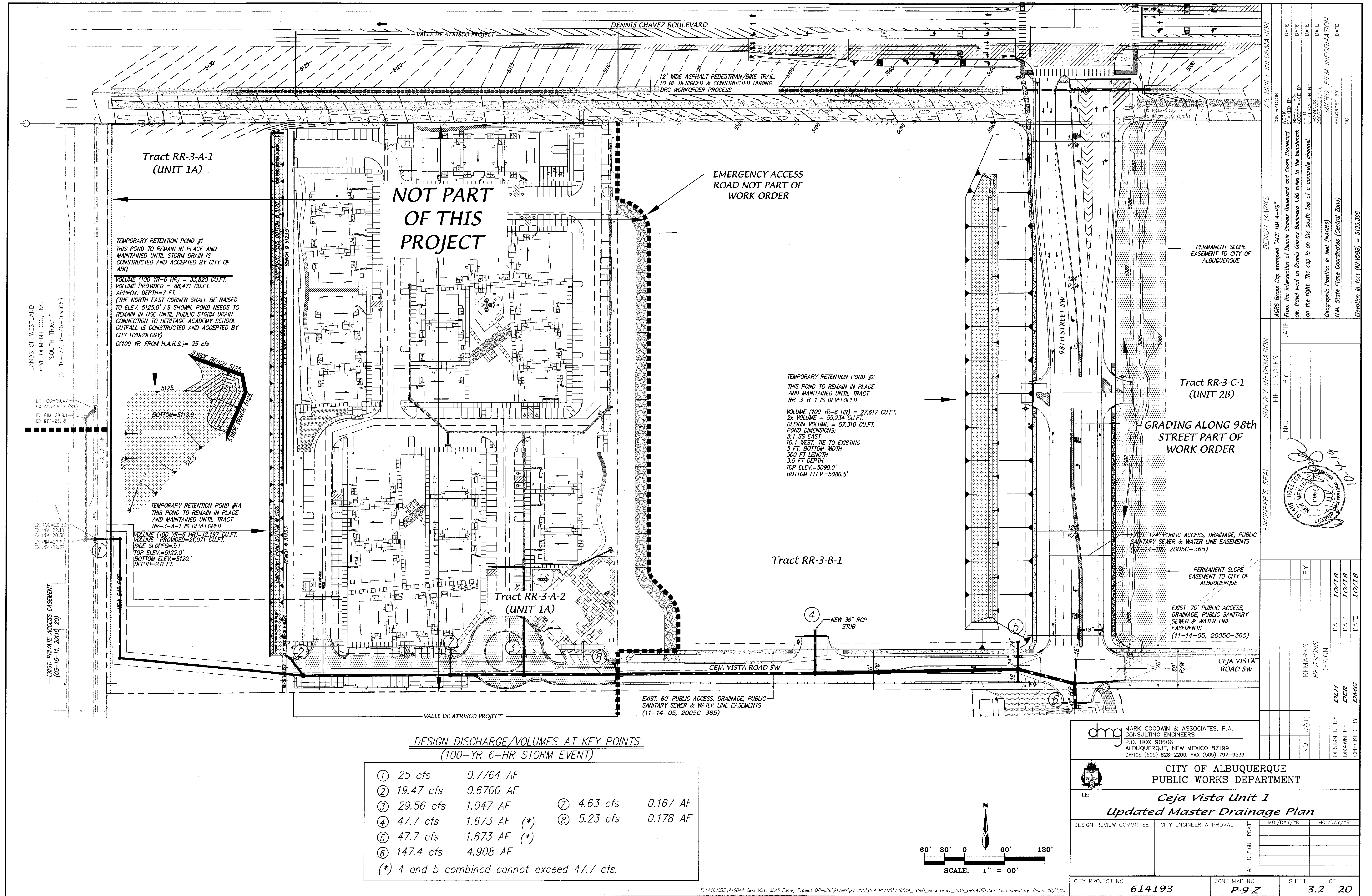
NM 87103

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

www.cabq.gov

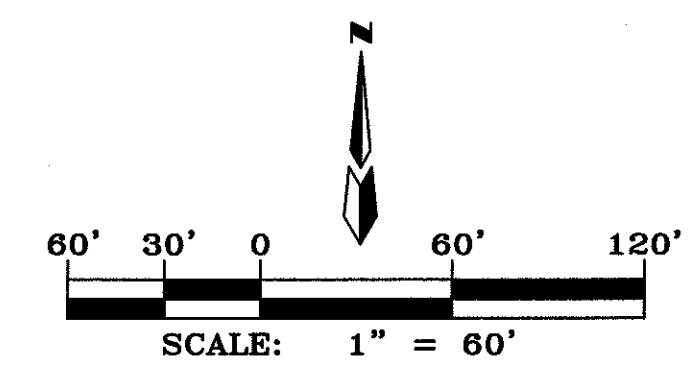
Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



DESIGN DISCHARGE/VOLUMES AT KEY POINTS
(100-YR 6-HR STORM EVENT)

①	25 cfs	0.7764 AF		
②	19.47 cfs	0.6700 AF		
③	29.56 cfs	1.047 AF	⑦	4.63 cfs 0.167 AF
④	47.7 cfs	1.673 AF (*)	⑧	5.23 cfs 0.178 AF
⑤	47.7 cfs	1.673 AF (*)		
⑥	147.4 cfs	4.908 AF		
(*) 4 and 5 combined cannot exceed 47.7 cfs.				



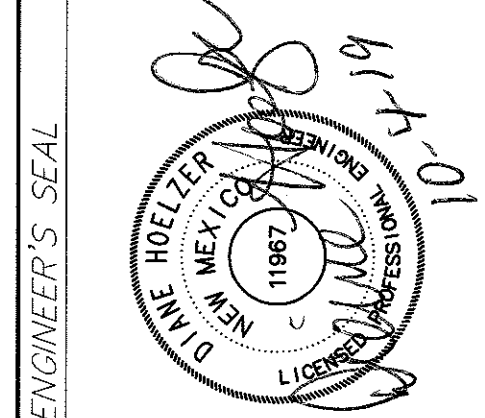
MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:
**Ceja Vista Unit 1
Updated Master Drainage Plan**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
614193	P-9-Z	3.2	20



SURVEY INFORMATION				BENCH MARKS				AS-BUILT INFORMATION			
FIELD NOTES				AGRS Brass Cap stamped "ACS BM 4-P9"				CONTRACTOR			
NO.	DATE	BY		DATE	BY	DATE		WORK	DATE	DATE	
								STAKED BY			
								ACCEPTANCE BY			
								FIELD			
								LOCATION BY			
								DRAWINGS			
								CORRECTED BY			
								MICRO-FILM			
								INFORMATION			
								RECORDED BY			
								NO.			

SEE SHEET 101 FOR OVERALL (CONT.)

SEE SHEET 3.1

DRAINAGE, PUBLIC SANITARY
SEWER & WATER LINE
EASEMENTS
(11-14-05, 2005C-365)

VALLE DE ATRISCO PROJECT

RR-4 WESTLAND SOUTH
(04-25-91, BK. 91-7, PG. 830-831)

EXIST. 60" PUBLIC ACCESS, DRAINAGE, PUBLIC
SANITARY SEWER & WATER LINE EASEMENTS
(11-14-05, 2005C-365)

GRADING OF POND AND ALL ASSOCIATED IMPROVEMENTS ARE PART OF THIS WORK ORDER

NOTES

- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
- THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
- SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE.
- ALL SITE WALLS SHALL CONFORM TO THE GENERAL HEIGHT AND DESIGN REGULATIONS CONTAINED IN SECTION 14-16-3-19 OF THE CITY ZONING CODE.
- COMBINATION GARDEN WALL/RETAINING WALL CANNOT EXCEED 8 FEET. IF THE RETAINING WALL IS GREATER THAN 4 FEET, THE DEVELOPER CAN ADD 3:1 SLOPES IN BACKYARD OR A SECOND RETAINING WALL OFFSET FROM THE FIRST ONE.

PHASING CONSTRUCTION NOTES:

- THIS GRADING AND DRAINAGE PLAN IS FOR THE DEVELOPMENT OF VALLE DE ATRISCO ONLY.
- THERE IS AN EXISTING RETENTION POND WEST OF THE PROJECT SITE (FUTURE TRACT RR-3-A-1) THAT WAS CONSTRUCTED TO INTERCEPT THE 100 YEAR FLOW VOLUME FROM THE ATRISCO HERITAGE ACADEMY SCHOOL WHICH THEN OVERFLOWS TO THE EXISTING ARROYO. THE EAST END OF THE POND WILL NEED TO BE BERMED TO ELEVATION 5124.0' THIS EXISTING RETENTION POND WILL THEN CONTAIN 2x THE 100 YEAR STORM VOLUME FROM THE SCHOOL SITE. THIS EXISTING POND WILL NEED TO REMAIN IN PLACE UNTIL THE PUBLIC STORM DRAIN SYSTEM THAT INTERCEPTS THE HIGH SCHOOL FLOWS IS CONSTRUCTED AND ACCEPTED BY THE CITY OF ALBUQUERQUE. THE PUBLIC STORM DRAIN SYSTEM WILL EXTEND EASTWARD THROUGH THE PROJECT SITE TO CEJA VISTA ROAD AND TO 98TH STREET, THEN SOUTH TO THE TEMPORARY POND.
- ONCE THE PUBLIC STORM DRAIN IS ACCEPTED THE EXISTING RETENTION POND CAN BE REPLACED BY THE NEW RETENTION POND AS SHOWN ON THIS GRADING AND DRAINAGE PLAN.
- THE RETENTION POND ON TRACT RR-3-B WILL PREVENT FLOWS FROM THIS TRACT FROM ENTERING THE FUTURE 98TH STREET PUBLIC ROW. THIS POND WILL REMAIN IN PLACE UNTIL THIS TRACT IS DEVELOPED.
- THE PUBLIC STORM DRAIN AND TEMPORARY CHANNEL ARE DESIGNED TO CONVEY THE DEVELOPED CONDITION FLOWS FROM VALLE DE ATRISCO, TRACT RR-3-B, FUTURE TRACT RR-3-A-1, 98TH STREET AND CEJA VISTA ROAD.
- THE TEMPORARY OFFSITE POND IS SIZED FOR DEVELOPED FLOWS ASSOCIATED WITH THE VALLE DE ATRISCO PROJECT ONLY WHICH INCLUDES 98TH STREET AND CEJA VISTA ROAD. AS TRACTS RR-3-B AND TRACT RR-3-A-1 DEVELOP THE OFFSITE RETENTION POND WILL BE MODIFIED AND ENLARGED TO RETAIN THESE ADDITIONAL STORM VOLUME.
- THE FIRST FLUSH VOLUME FROM VALLE DE ATRISCO PROJECT WAS CALCULATED TO BE 8,155.7 CUBIC FEET. THIS VOLUME WILL BE STORED IN THE OFFSITE RETENTION POND. WHEN THE FUTURE DOWNSTREAM STORM DRAIN IS CONSTRUCTED THIS FIRST FLUSH VOLUME SHALL CONTINUE TO BE ACCOUNTED FOR IN ANY AND ALL FUTURE DESIGN REVISIONS TO THIS POND.
- PRIOR TO CERTIFICATE OF OCCUPANCY, THE PUBLIC INFRASTRUCTURE SHALL BE CONSTRUCTED AND ACCEPTED BY THE CITY WHICH INCLUDES:
98TH STREET & CEJA VISTA ROAD IMPROVEMENTS,
PUBLIC STORM DRAIN FROM APS OUTFALL AT WEST PROPERTYLINE TO OUTFALL AT CEJA VISTA ROAD & 98TH STREET, TEMPORARY DRAINAGE CHANNEL & OFFSITE RETENTION POND.
- TEMPORARY RETENTION POND #1 SHALL BE COMPLETED & APPROVED C.O.A. HYDROLOGY PRIOR TO CERTIFICATE OF OCCUPANCY FOR VALLE DE ATRISCO.
- ALL PERIMETER RETAINING WALLS SHALL BE CONSTRUCTED SUCH THAT THE FOOTER SHALL REMAIN WITHIN PROJECT SITE AND NOT WITHIN ADJACENT RIGHT-OF-WAY OR PRIVATE PROPERTY.

LEGEND

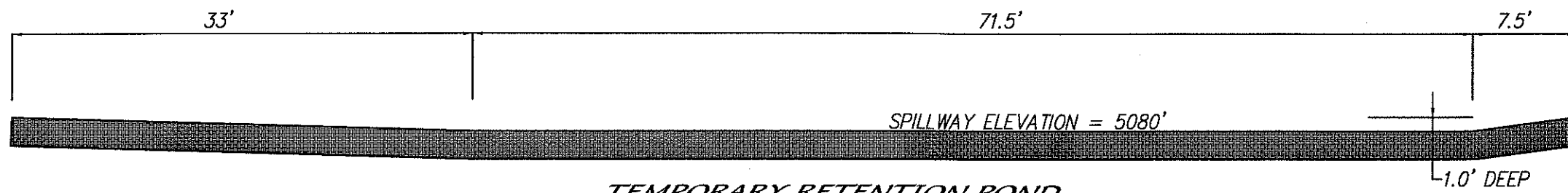
---	EXISTING CONTOUR (MAJOR)
- - -	EXISTING CONTOUR (MINOR)
x 00.0	EXISTING SPOT ELEVATION
TC=	EXISTING TOP CURB/FLOWLINE ELEVATION
FL=	EXISTING ASPHALT PAVEMENT
[Symbol]	EXISTING ELECTRIC TRANSFORMER
---	EXISTING OVERHEAD ELECTRIC LINE
o	EXISTING POWER POLE
[Symbol]	EXISTING LIGHT POLE
[Symbol]	EXISTING TRAFFIC SIGNAL PULLBOX
[Symbol]	EXISTING TELEPHONE MANHOLE
[Symbol]	EXISTING CATV PEDESTAL
[Symbol]	EXISTING STORM DRAIN MANHOLE
[Symbol]	NEW STANDARD CURB & GUTTER
[Symbol]	NEW MOUNTABLE CURB & GUTTER
[Symbol]	NEW RIGHT-OF-WAY
[Symbol]	NEW CENTERLINE
[Symbol]	NEW LOT LINES
[Symbol]	NEW EASEMENTS
[Symbol]	NEW TOP OF WALL ELEVATION
[Symbol]	NEW BOTTOM OF WALL ELEVATION
[Symbol]	NEW SPOT ELEVATIONS
[Symbol]	NEW FLOW DIRECTION
[Symbol]	NEW WATER BLOCK
[Symbol]	NEW RETAINING WALL (SEE NOTE 9)
[Symbol]	NEW GARDEN WALL
[Symbol]	NEW STORM DRAIN

SPECIAL DRAINAGE NOTE

THE OFFSITE TEMPORARY RETENTION POND SHALL REMAIN IN PLACE AND BE MAINTAINED PER COVENANT AGREEMENT UNTIL SUCH TIME THAT ALL DOWNSTREAM DRAINAGE INFRASTRUCTURE IS DESIGNED, APPROVED, CONSTRUCTED AND ACCEPTED BY THE CITY OF ALBUQUERQUE, AMAFCA AND BERNALILLO COUNTY.

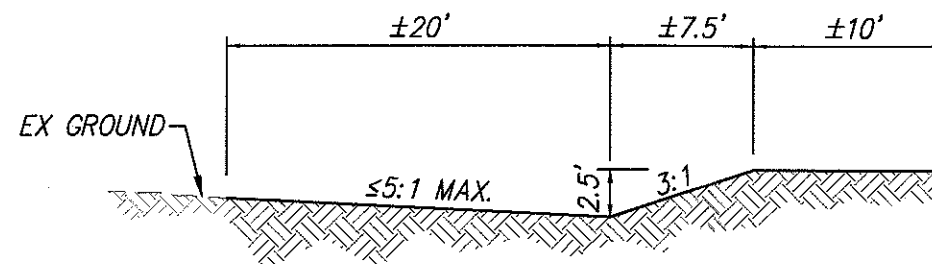
TEMPORARY RETENTION POND

REQUIRED POND VOLUME = 319,167 CU.FT.
DESIGN POND VOLUME = 322,742 CU.FT.
TOP OF POND = 5080.0
BOTTOM OF POND = 5068.7
POND SIDE SLOPES = 3:1
SPILLWAY ELEVATION AT 5080.0
WSEL(MAX) = 5079.9' (100-YR 10 DAY)
NOTE: POND AND STORM DRAIN DESIGNED FOR FULLY DEVELOPED FLOWS FROM ALL CONTRIBUTING SUB BASINS.
NOTE: POND VOLUME CAPACITY DESIGN IS FOR FULLY DEVELOPED FLOWS FOR THE 100-YEAR 10 DAY STORM EVENT.



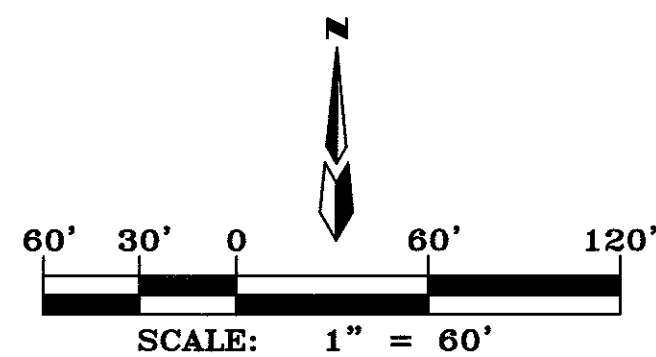
TEMPORARY RETENTION POND EMERGENCY SPILLWAY

(0cap @ 1.0' DEPTH = 214.5 cfs)
(Q100 = 142 cfs) (DEPTH = 0.76')



DIVERSION BERM A-A TYPICAL SECTION

SCALE: 1"=10'



dmg MARK GOODWIN & ASSOCIATES, P.A.
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