

DRAINAGE PLAN:

LEGAL DESCRIPTION: LOTS 15, 16, & 18A, BLOCK 1,
NORTH ALBUQUERQUE ACRES TRACT 2, UNIT 3 & A

SITE AREA: 1.92 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED SEPTEMBER 26, 2008 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500—YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.

LOCATION AND DESCRIPTION: THE PROPERTY IS LOCATED BETWEEN WYOMING BOULEVARD AND PINON VISTA COURT AND NORTH OF EAGLE ROCK AVENUE. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.

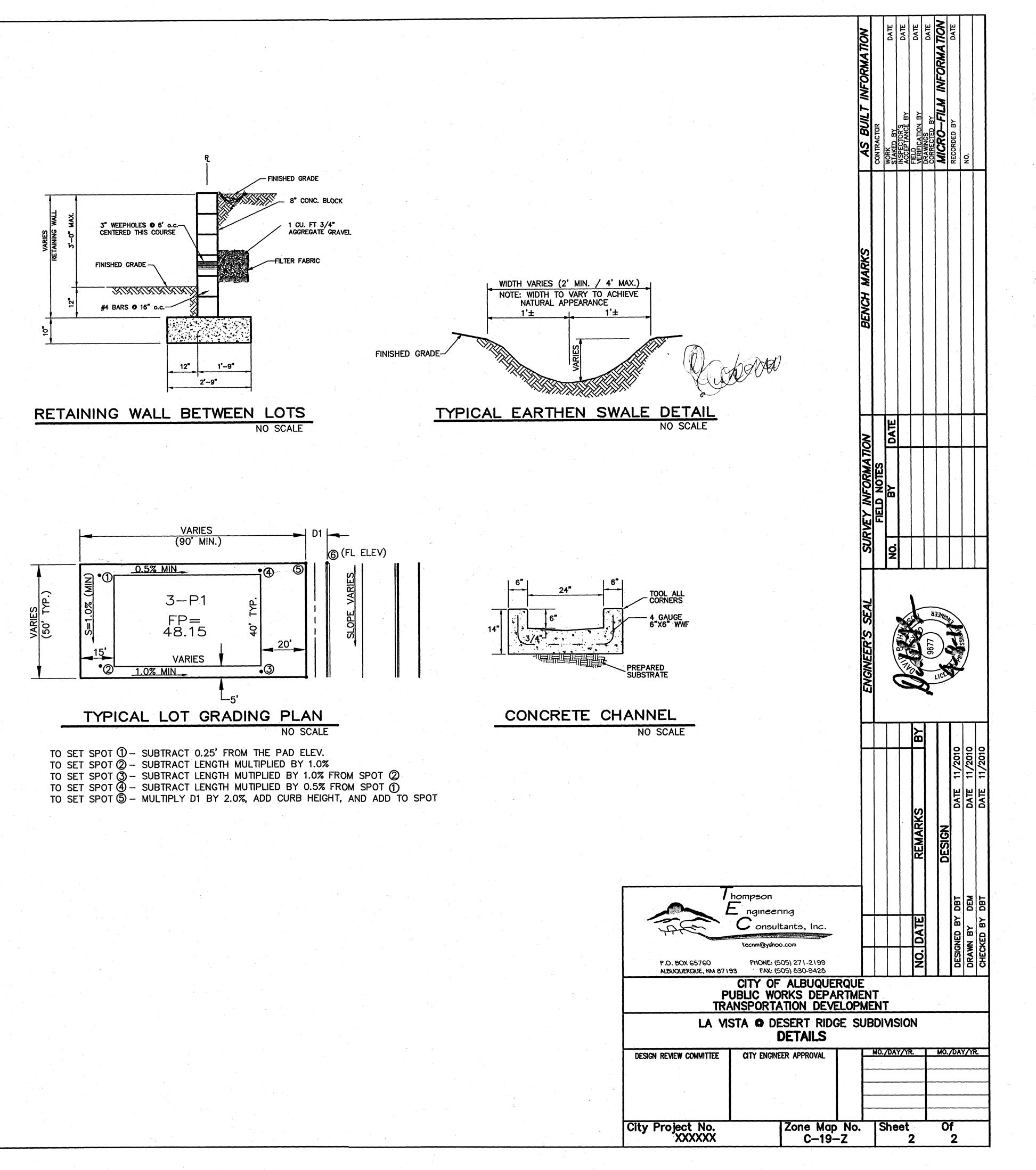
THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO PINON VISTA COURT WHICH DRAINS INTO THE LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST. ONCE WYOMING BOULEVARD IS BUILT OUT THESE FLOWS WILL BE DIRECTED NORTH TO THE EXISTING 108 INCH RCP STORM DRAIN.

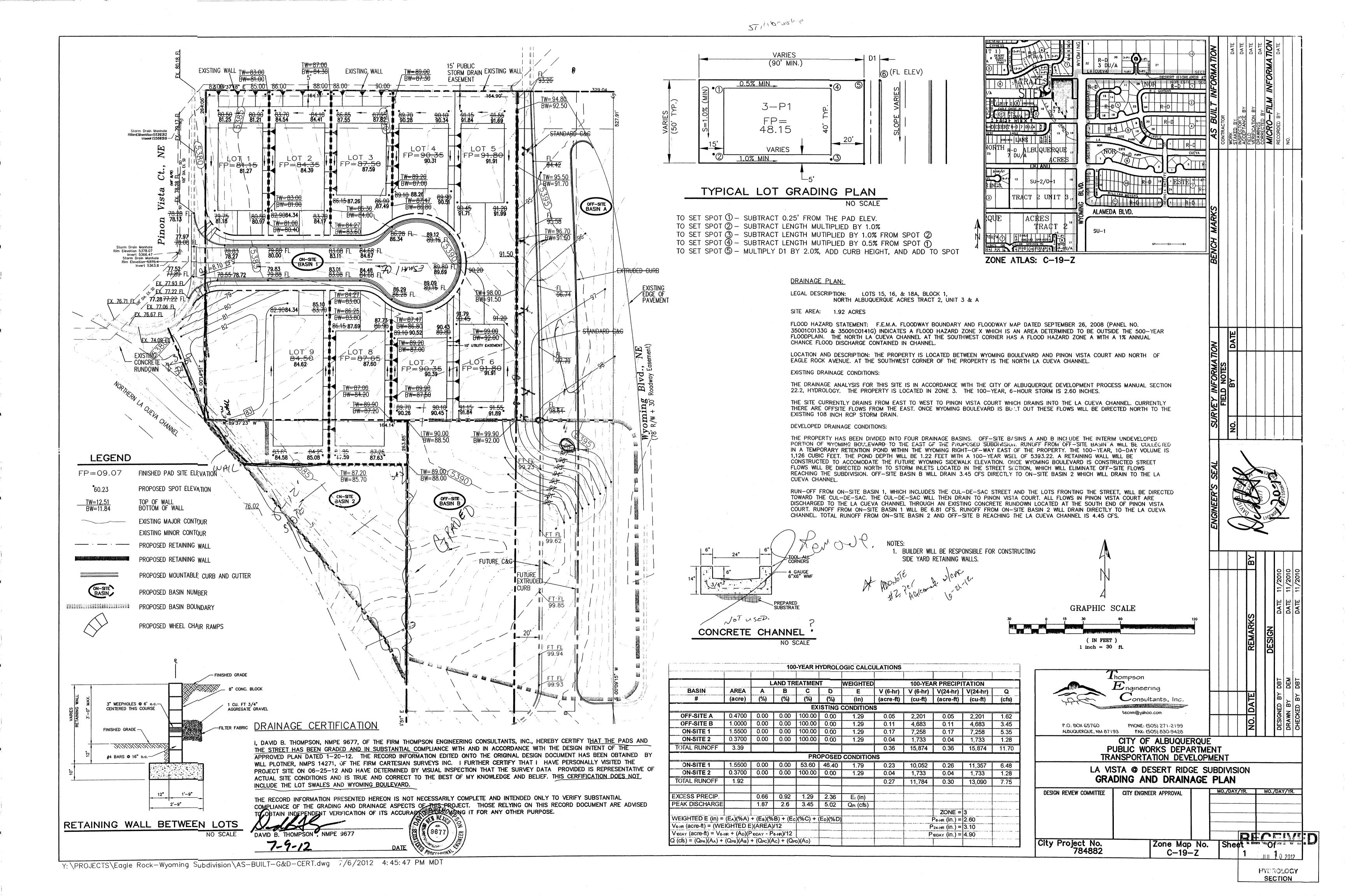
DEVELOPED DRAINAGE CONDITIONS:

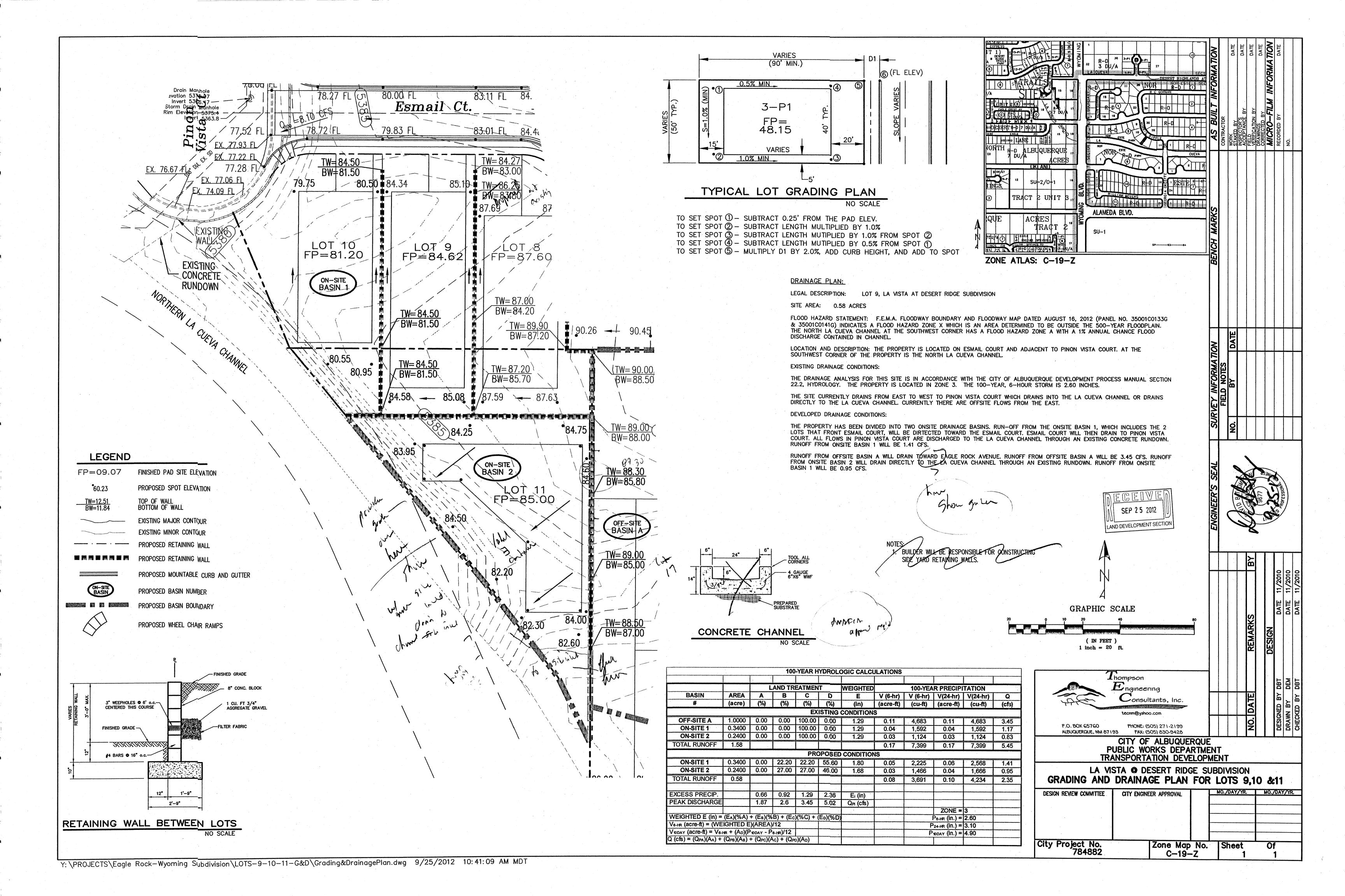
THE PROPERTY HAS BEEN DIVIDED INTO FOUR DRAINAGE BASINS. OFF-SITE BASINS A AND B INCLUDE THE INTERIM UNDEVELOPED PORTION OF WYOMING BOULEVARD TO THE EAST OF THE PROPOSED SUBDIVISION. RUNOFF FROM OFF-SITE BASIN A WILL BE CONVEYED IN A DITCH TO THE WALL ALONG THE PROPOSED EAST PROPERTY LINE AND THEN CONVEYED IN A CONCRETE CHANNEL THAT WILL DISCHARGE TO THE PROPOSED CUL-DE-SAC BULB THROUGH A 24-INCH SIDEWALK CULVERT. SOME GRADING WILL BE DONE IN THE INTERIM CONDITION TO DIRECT THE FLOWS TO THE PROPOSED EAST PROPERTY LINE RETAINING WALL WHERE A 5' BY 10' RIPRAP PAD (D50 = 3") WILL BE INSTALLED. THE RETAINING WALL WILL BE CONSTRUCTED TO ACCOMODATE THE FUTURE WYOMING SIDEWALK ELEVATION. OPENINGS IN THE WALL WILL BE CONSTRUCTED TO ALLOW THE RUNOFF TO FLOW INTO THE CONCRETE CHANNEL. ONCE WYOMING BOULEVARD IS CONSTRUCTED STREET FLOWS WILL BE DIRECTED NORTH TO STORM INLETS LOCATED IN THE STREET SECTION, WHICH WILL ELIMINATE OFF-SITE FLOWS REACHING THE SUBDIVISION. IN THE INTERIM CONDITION, A TOTAL OF 1.62 CFS WILL DRAIN TO THE CUL-DE-SAC BULB FROM OFF-SITE BASIN A. OFF-SITE BASIN B WILL DRAIN 3.45 CFS DIRECTLY TO ON-SITE BASIN 2 WHICH WILL DRAIN TO THE LA CUEVA CHANNEL.

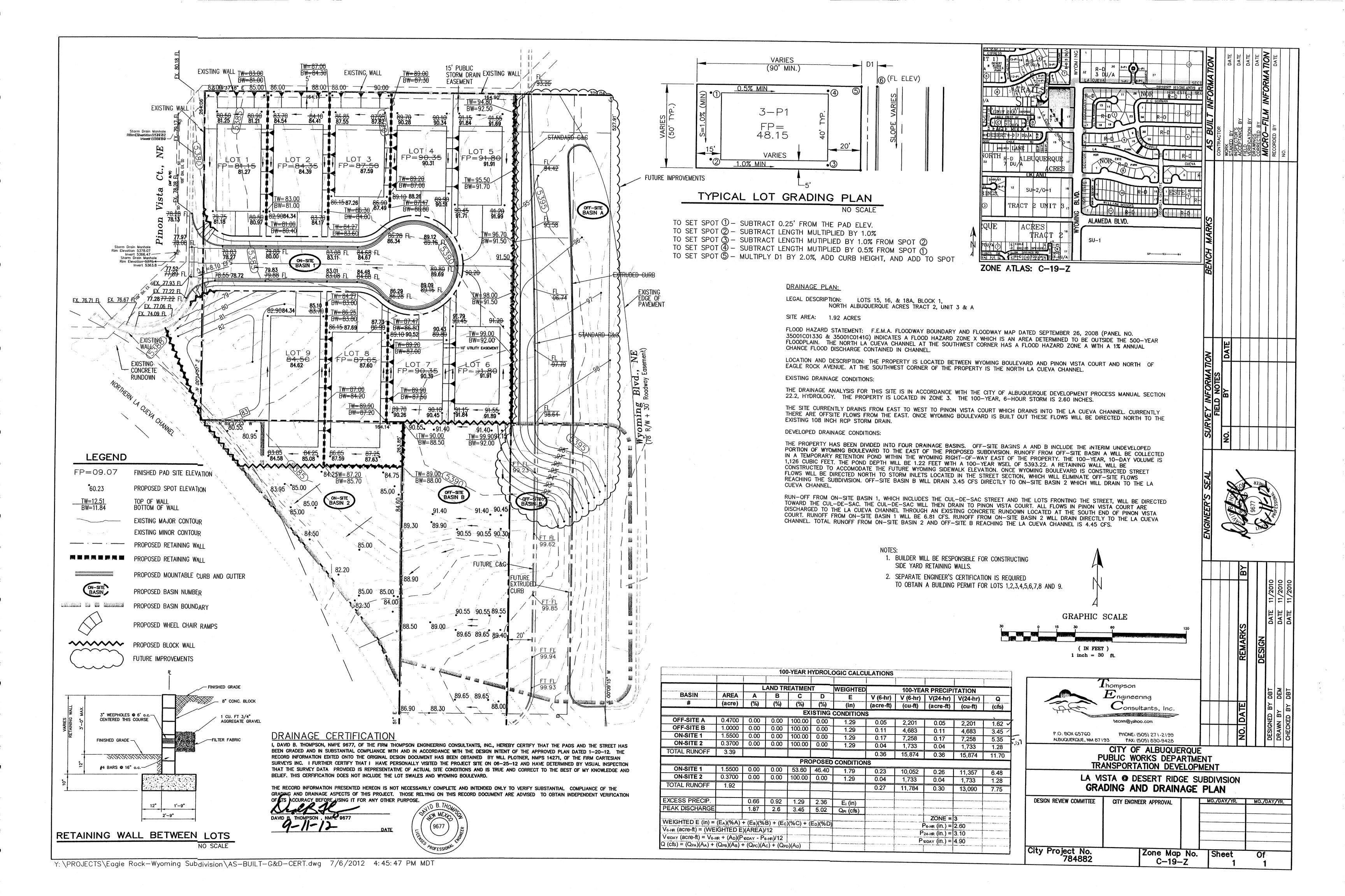
RUN-OFF FROM ON-SITE BASIN 1, WHICH INCLUDES THE CUL-DE-SAC STREET AND THE LOTS FRONTING THE STREET, WILL BE DIRECTED TOWARD THE CUL-DE-SAC. THE CUL-DE-SAC WILL THEN DRAIN TO PINON VISTA COURT. ALL FLOWS IN PINON VISTA COURT ARE DISCHARGED TO THE LA CUEVA CHANNEL THROUGH AN EXISTING CONCRETE RUNDOWN LOCATED AT THE SOUTH END OF PINON VISTA COURT. RUNOFF FROM ON-SITE BASIN 1 WILL BE 6.81 CFS. IN THE INTERIM CONDITION RUNOFF FROM BOTH THE OFF-SITE AND ON-SITE BASINS THAT WILL DRAIN TO PINON VISTA COURT TOTALS 8.43 CFS. RUNOFF FROM ON-SITE BASIN 2 WILL DRAIN DIRECTLY TO THE LA CUEVA CHANNEL. TOTAL RUNOFF FROM ON-SITE BASIN 2 AND OFF-SITE B REACHING THE LA CUEVA CHANNEL IS 4.45 CFS.

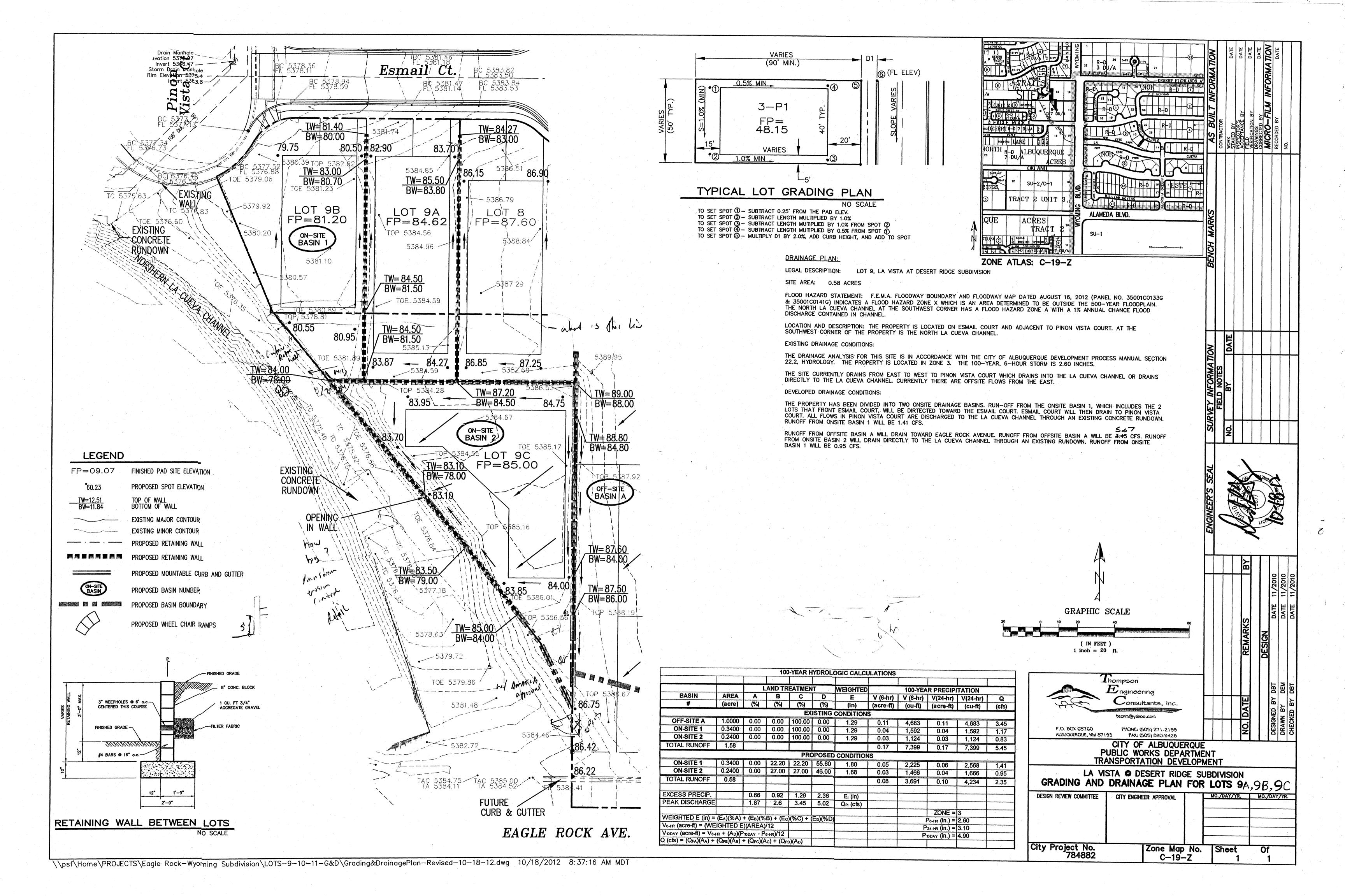
			100	-YEAR H	YDROLO	OGIC CALCU	LATIONS				
		LAND TREATMENT				WEIGHTED	100-YEAR PRECIPITATION				
BASIN	AREA	A	В	С	D	E	V (6-hr)	V (6-hr)	V(24-hr)	V(24-hr)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
				EX	ISTING	CONDITIONS	3				
OFF-SITE A	0.4700	0.00	0.00	100.00	0.00	1.29	0.05	2,201	0.05	2,201	1.62
OFF-SITE B	1.0000	0.00	0.00	100.00	0.00	1.29	0.11	4,683	0.11	4,683	3.45
ON-SITE 1	1.6300	0.00	0.00	100.00	0.00	1.29	0.18	7,633	0.18	7,633	5.62
ON-SITE 2	0.2900	0.00	0.00	100.00	0.00	1.29	0.03	1,358	0.03	1,358	1.00
TOTAL RUNOFF	3.39						0.36	15,874	0.36	15,874	11.70
				PRO	POSED	CONDITION	IS	·		·	
ON-SITE 1	1.6300	0.00	0.00	53.60	46.40	1.79	0.24	10,570	0.27	11,943	6.81
ON-SITE 2	0.2900	0.00	0.00	100.00	0.00	1.29	0.03	1,358	0.03	1,358	1.00
TOTAL RUNOFF	1.92						0.27	11,928	0.31	13,301	7.81
EXCESS PRECIP.	·	0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q (cfs)					
								·	ZONE =		
WEIGHTED E (in) = (E)(%A) + (E)(%B) + (E)(%C) +	(E)(%D)		1	P (in.) =		
V (acre-ft) = (WEIGHTED E)(AREA)/12								P···· (in.) = 3.10			
V (acre-ft) = V + (A)(P - P)/12								P	···· (in.) =	4.90	
Q (cfs) = (Q)(A) +	(Q ·)(A ·)	+ (Q ·)(/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)(A:)							

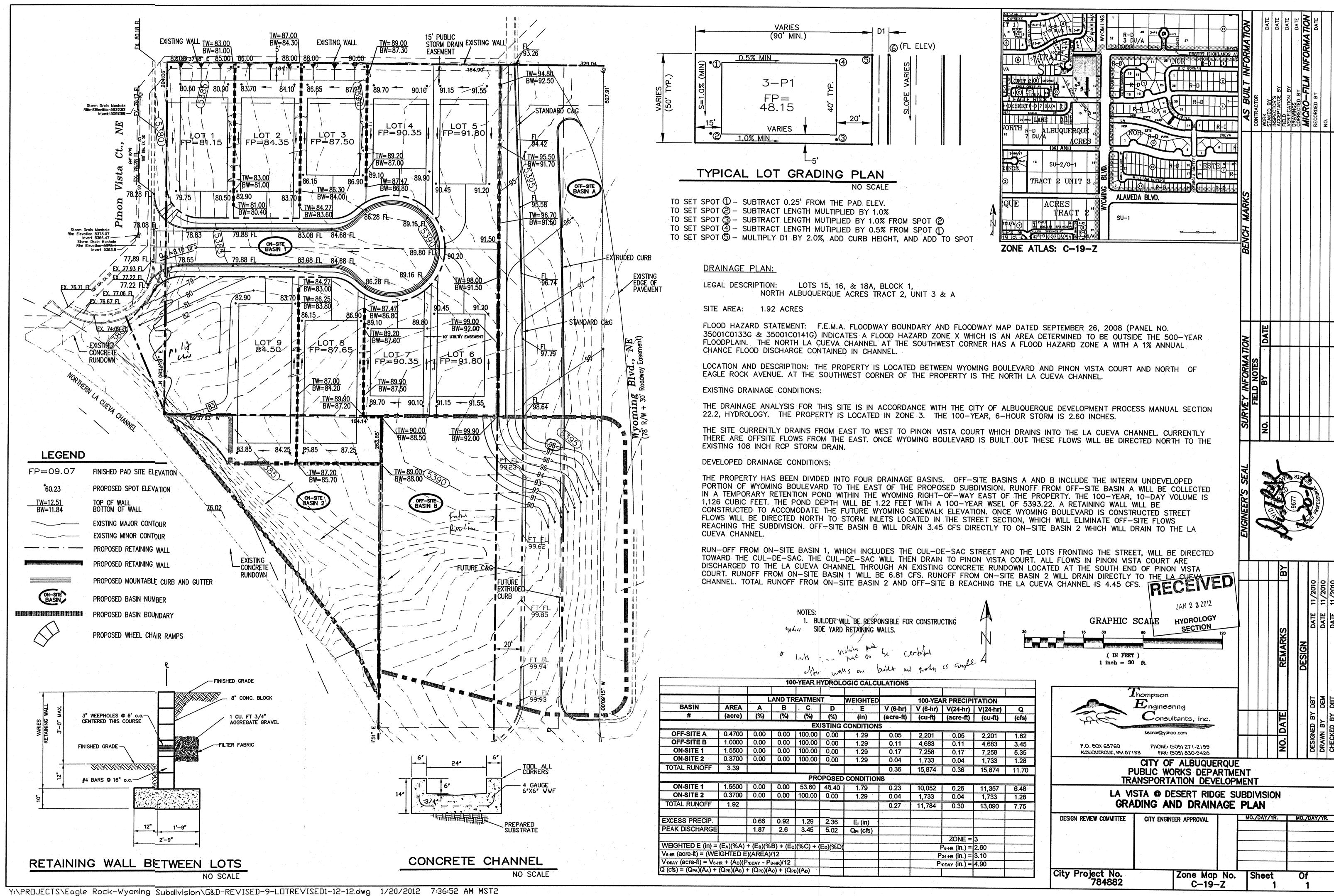


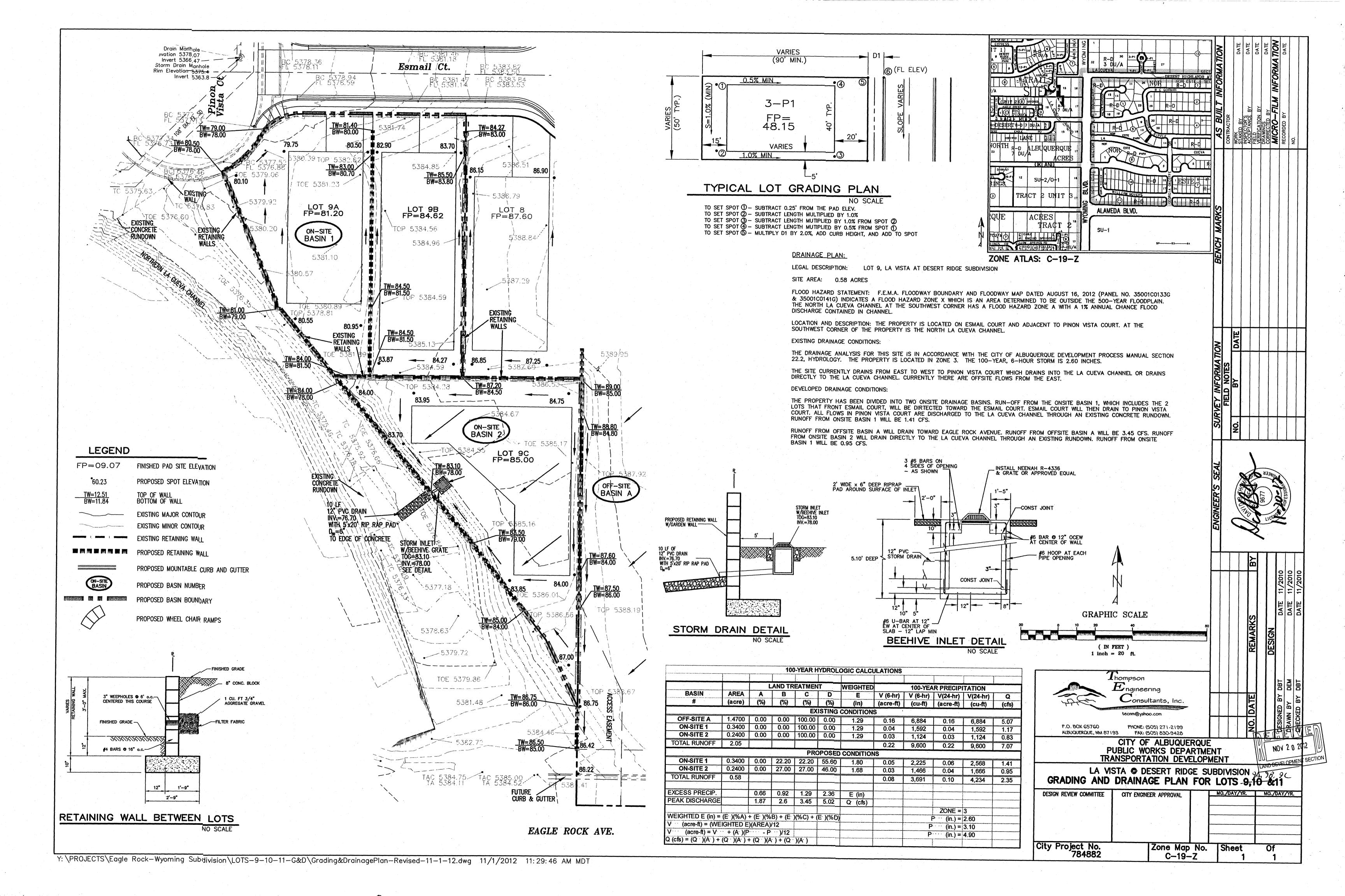


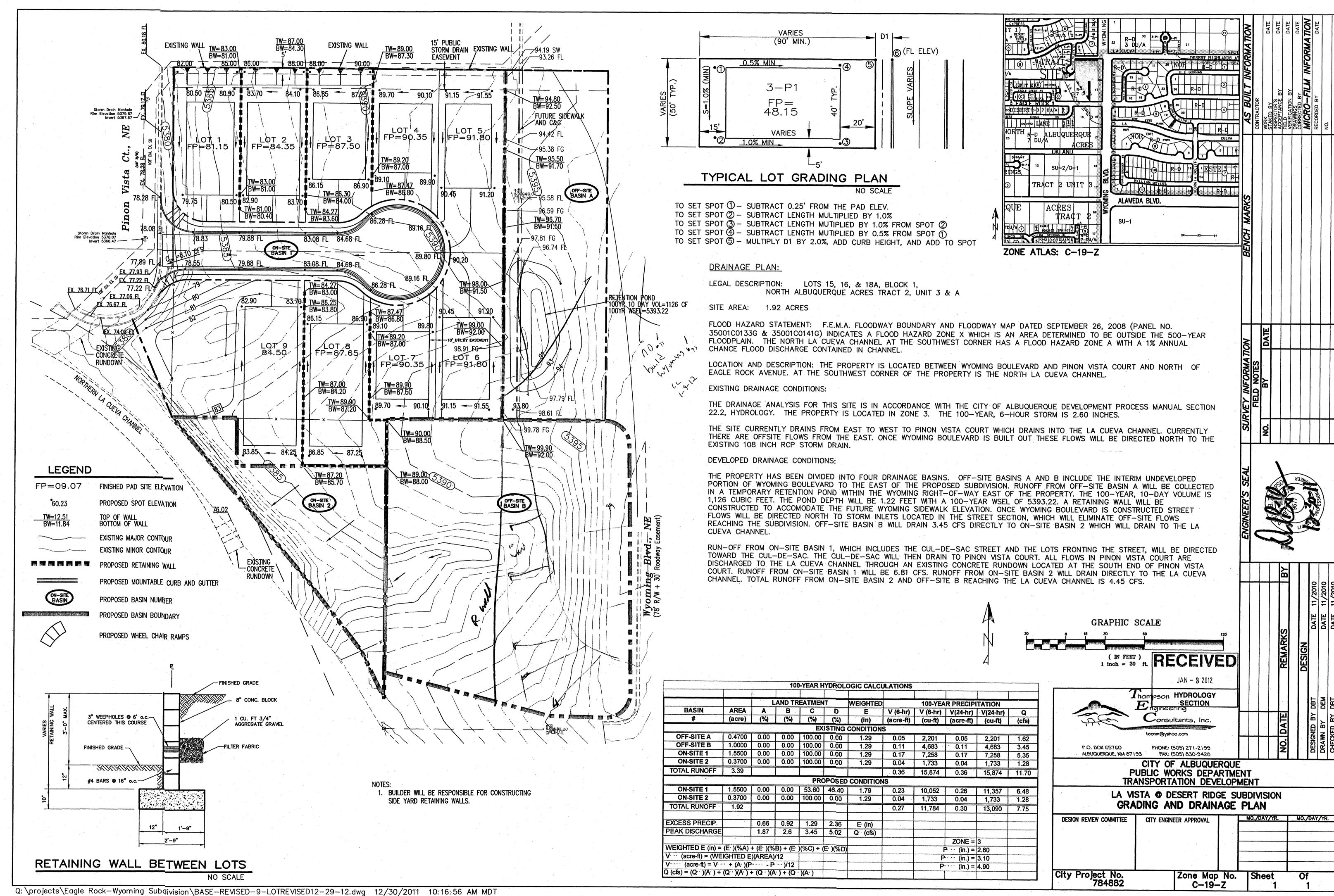


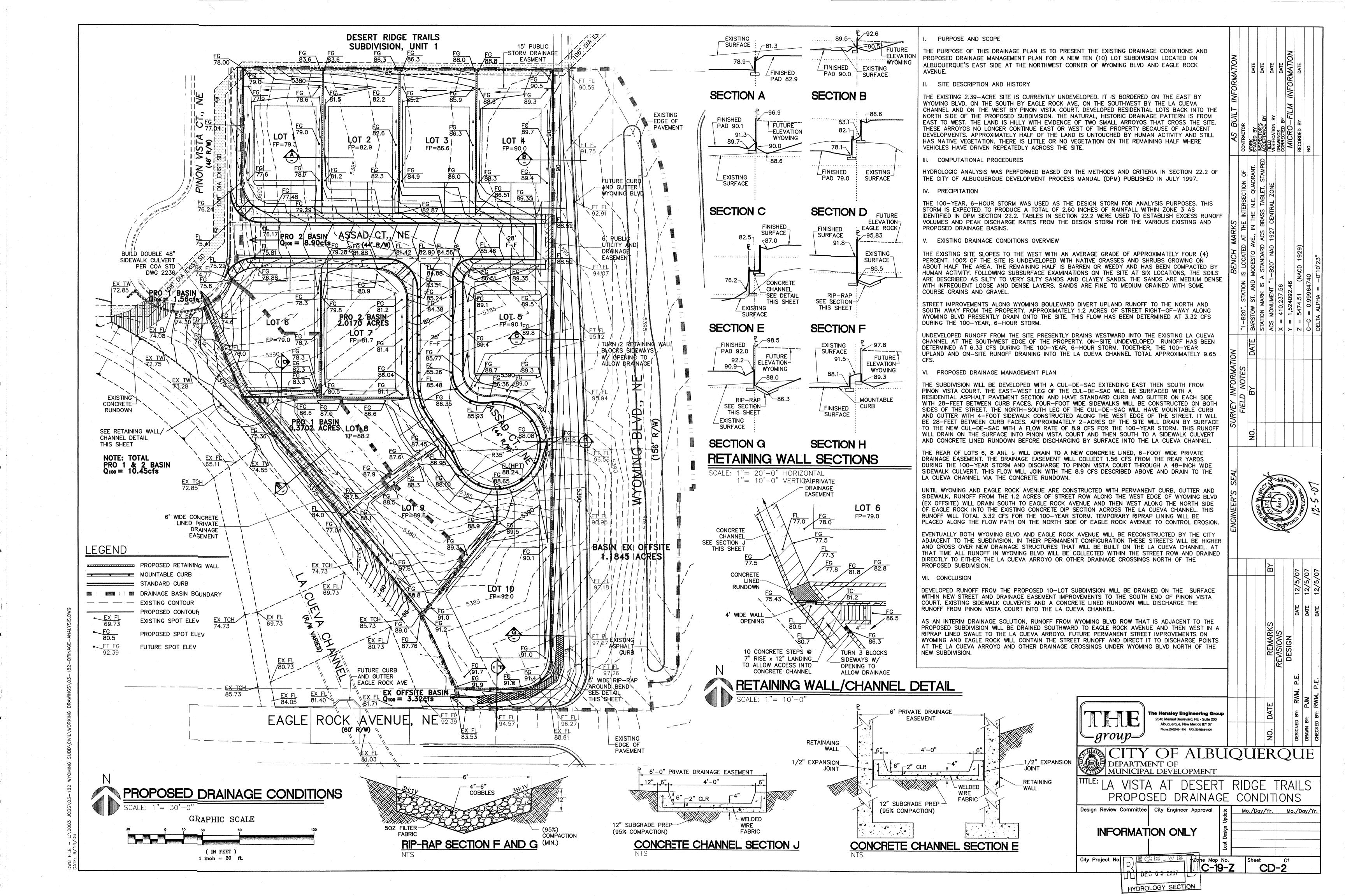


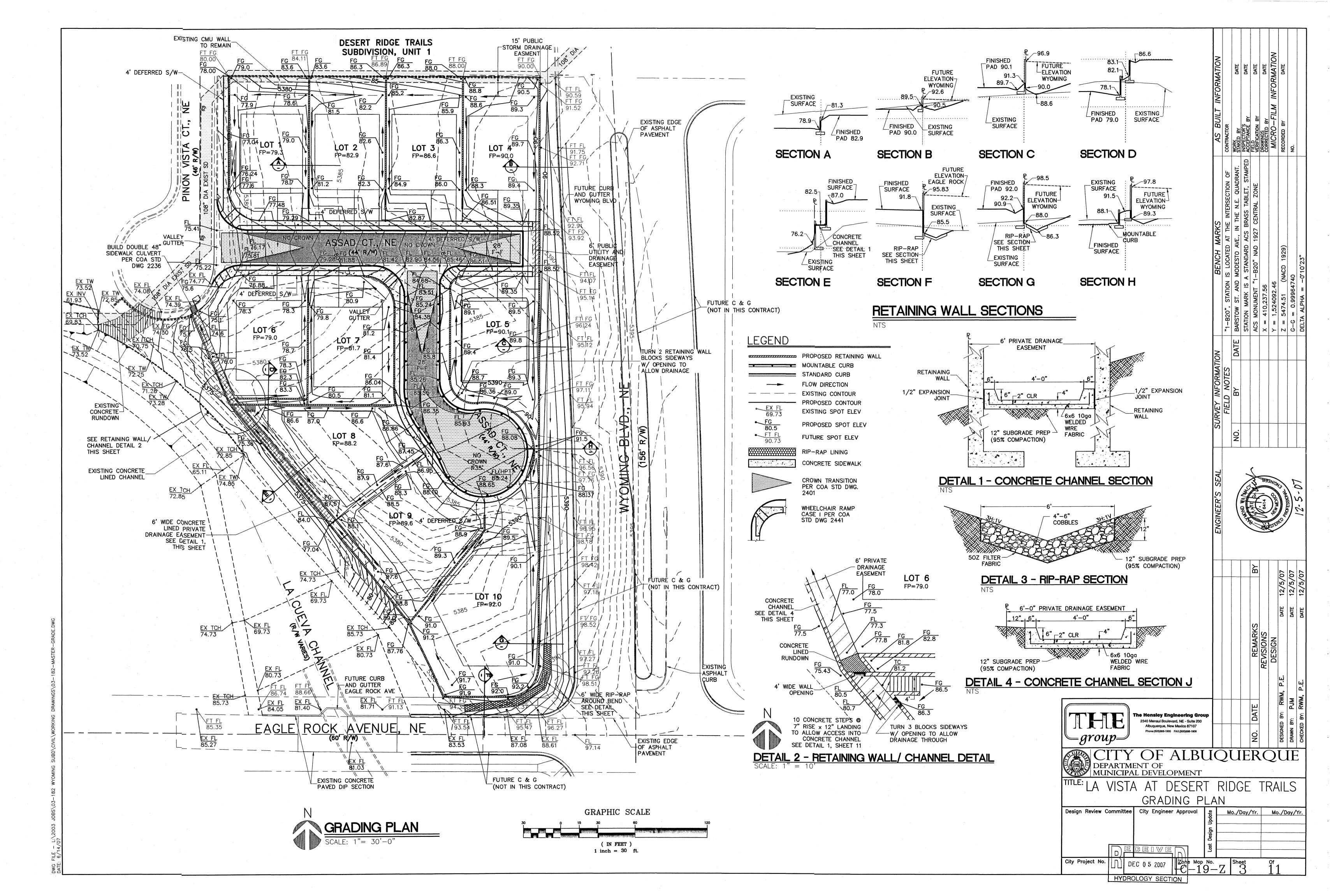












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