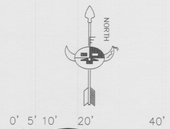
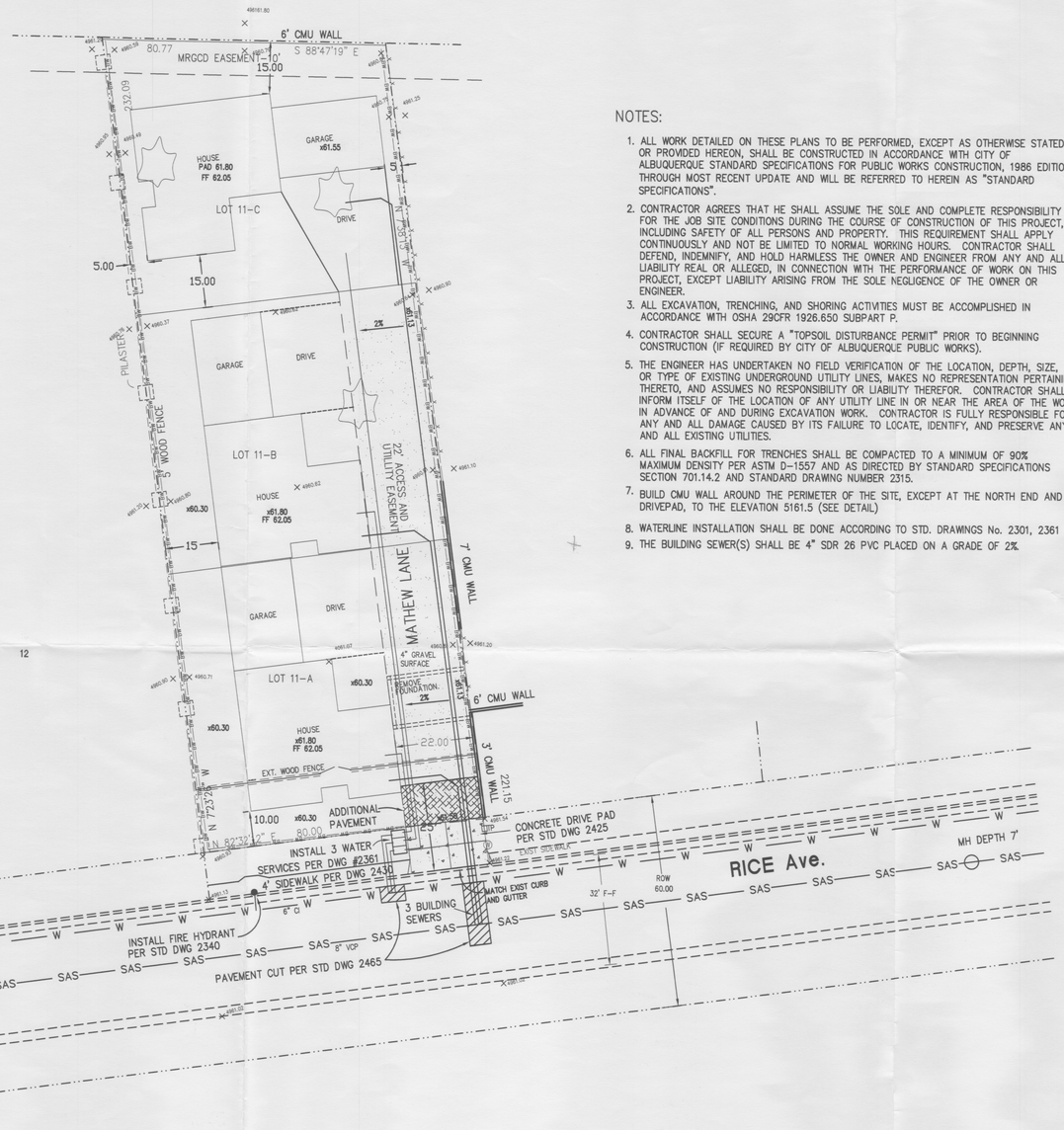
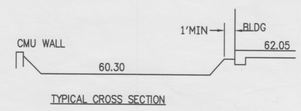


SCALE: 1"=20'

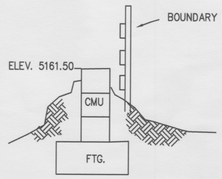


NOTES:

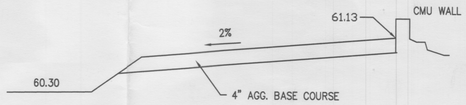
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH MOST RECENT UPDATE AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
2. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
4. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION (IF REQUIRED BY CITY OF ALBUQUERQUE PUBLIC WORKS).
5. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.
6. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
7. BUILD CMU WALL AROUND THE PERIMETER OF THE SITE, EXCEPT AT THE NORTH END AND DRIVEPAD, TO THE ELEVATION 5161.5 (SEE DETAIL)
8. WATERLINE INSTALLATION SHALL BE DONE ACCORDING TO STD. DRAWINGS No. 2301, 2361 .
9. THE BUILDING SEWER(S) SHALL BE 4" SDR 26 PVC PLACED ON A GRADE OF 2%



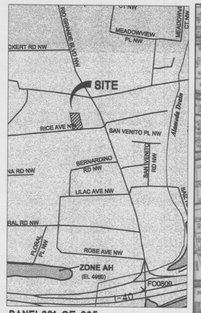
TYPICAL CROSS SECTION

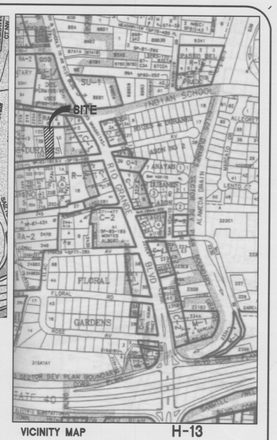


CMU WALL



MATHEW LANE CROSS SECTION





VICINITY MAP H-13

HYDROLOGY

DESIGN STORM: 10 DAY-100Yr ZONE 1

P10= 10 - (24.9/(P1)^1.4)
P1 = 2.75 in/hr

P10 - (24.9/(2.75)^1.4

P10 = 3.94 in/hr

EXCESS RAINFALL; (RAINFALL THAT RUNS OFF)

SOIL TREATMENT	A	B	C	D
INITIAL ABSTRACTION	.65	.50	.35	.10
INFILTRATION	1.67	1.25	0.83	0.04
EXCESS RAINFALL	0.53	0.78	1.13	2.12

VOLUME 10 DAY STORM = VOL. 6 + AREA (IMPERV.) * (RAIN 10d - RAIN 6h)

		AREA BY TRTMNT							POND	
LOT	AREA	A	B	C	D	V360	Vimp	Vtot	AREA	DEPTH
11A	6400		1477	2158	2391	8660	3515	1015	1477	
11B	5864		2140	1581	2320	8374	3410	982	2140	
11C	5838		2695	823	2320	7950	3410	947	2695	
							TOTAL	2944	6312	0.47'

DRB 1003467

LEGAL DESCR.

LOT 11, RICE'S ADDITIONS No.1
ALBUQUERUQE, NM

BENCHMARK

STATION: ACS 7-H13
X = 373707.44
Y = 1495715.39
GROUND TO GRID = 0.9996810
DELTA ALPHA = -0°14'34"
NEW MEXICO STATE PLANE
COORDINATE SYSTEM
CENTRAL ZONE
NAD 1927
ELEV. 4961.715

LEGEND

TC 98.43	PROPOSED TOP OF CURB ELEVATION
x61.80	PROPOSED SPOT ELEVATION
x59.0	EXISTING SPOT ELEVATION (GRND & TC)
	TEMPORARY PAVING
	PROPOSED CURB & GUTTER
	EXISTING CURB AND GUTTER
60	EXISTING CONTOUR W/ INDEX ELEVATION
71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
42" SD	STORM DRAIN WITH MANHOLE & INLETS
30" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
CMU	CMU WALL
SAS	EXISTING SEWER
W	EXISTING WATER
	EXISTING TREE

BLAKE MATHEW VILLAS

GRADING and DRAINAGE PLAN

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 10/1/03

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4699

1 of 1

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