

HYDROLOGY

PROPOSED CONDITIONS

THE PROPOSED SITE IMPROVEMENTS WILL INCLUDE THE CONSTRUCTION OF A SINGLE FAMILY RESIDENCE WITH LANDSCAPING AND ONSITE IMPROVEMENTS. IN ACCORDANCE WITH THE SAD 228 DRAINAGE MANAGEMENT PLAN FOR UNIT 19, THE RUNOFF WILL FREE DISCHARGE ALLOWABLE DISCHARGE.

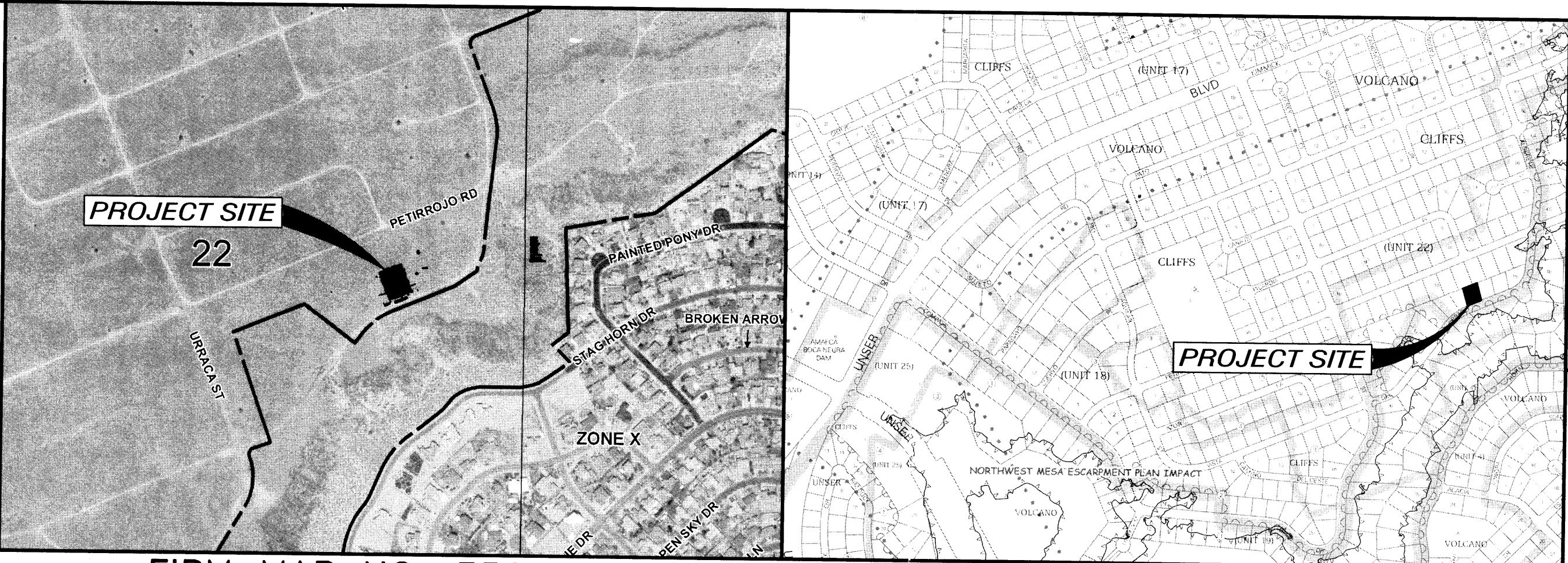
THE ALLOWABLE DISCHARGE WAS DETERMINED BY ANALYSIS OF THE BASIN INCLUDING THE LOT. THE LAND USE PERCENTAGES OF THE BASIN WERE APPORTIONED BETWEEN ROADWAYS AND LOTS BASED ON AREA. ANALYSIS OF THE APPORTIONMENT ESTABLISHED THE ALLOWABLE DISCHARGE FROM THE LOT BASED ON THE 206-LOTS BASIN YIELD OF 2.99 cfs. THE ALLOWABLE DISCHARGE IS EQUAL TO AREA * YIELD (0.285 ac * 2.99 cfs/ac = 0.85 cfs). THE ROOF, DRIVEWAY, AND AN ADDITIONAL 250 SQ.FT. FOR FUTURE IMPROVEMENTS ARE INCLUDED IN THE IMPERVIOUS AREA PERCENTAGE FOR THE LOT.

HYDROLOGIC DATA - SAD 228 DESIGN

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (acft)
		A	B	C	D			
206-ROAD	1.38	0	0	10	90	3.80	5.23	0.404
206-LOTS	3.64	0	14	51	35	2.99	10.87	0.244
206	5.02	0	10	40	50	3.20	16.10	0.648

HYDROLOGIC DATA - PROPOSED

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (acft)
		A	B	C	D			
LCT 16	0.29	0	29	29	42	3.00	0.85	0.033



FIRM MAP NO. 35001C0112G

VICINITY MAP D-10-Z

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO. 8.
- THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
- THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEED OR LANDSCAPED.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (280-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

NOTE

THE ENGINEER HAS UNDERTAKEN LIMITED 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 THEREFORE. THE 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. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

NOTE

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

REQUIRED FIRST FLUSH VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: ROOF AREA * (0.44-0.10)/12 IN CUBIC FEET.

ROOF AREA = 3846 SQ.FT.

REQUIRED VOLUME = 3846 * (0.44-0.10)/12 = 109 CU.FT.
VOLUME PROVIDED = 136 CU.FT.

EROSION CONTROL NOTES

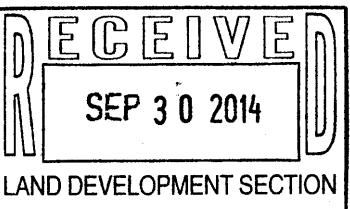
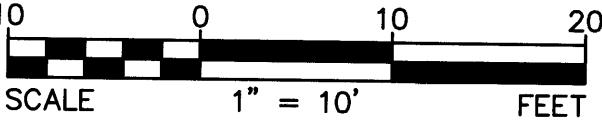
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LEGAL DESCRIPTION
LOT 16, BLOCK 6
VOLCANO CLIFFS UNIT 22
CITY OF ALBUQUERQUE BERNALILLO
COUNTY, NEW MEXICO

LEGEND

- FLOW ARROW
- EL=11.28 PROPOSED ELEVATION
- X 3.00 EXISTING ELEVATION
- GRADE BREAK
- 4966 PROPOSED CONTOUR
- 4966 EXISTING CONTOUR
- PROPERTY LINE
- 4.00% PROPOSED GRADE

EARTHWORK (CY)	
CUT:	13
FILL: COMPACTED	482
NET FILL (50% SHRINKAGE):	710 CU.YD.



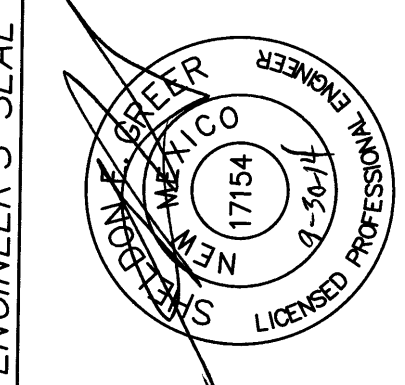
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

6311 VISTA DEL PRADO RD NW
LOT 16, BLOCK 6, VOLCANO CLIFFS UNIT 22
GRADING & DRAINAGE PLAN

LATEST DESIGN UPDATE	MONTH/DAY/YEAR		USER DEPARTMENT	
CITY PROJECT No.			ZONE MAP No. D-10-Z	SHEET 1 OF 1



ENGINEER'S SEAL

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR		DATE	
WORK	DATE	DATE	DATE
STAMPED BY	DATE	DATE	DATE
ACCEPTANCE BY	DATE	DATE	DATE
FIELD LOCATION BY	DATE	DATE	DATE
REVISIONS	DATE	DATE	DATE
CORRECTED BY	DATE	DATE	DATE
MICRO-FILM INFORMATION	DATE	DATE	DATE
RECORDED BY	DATE	DATE	DATE
No.			