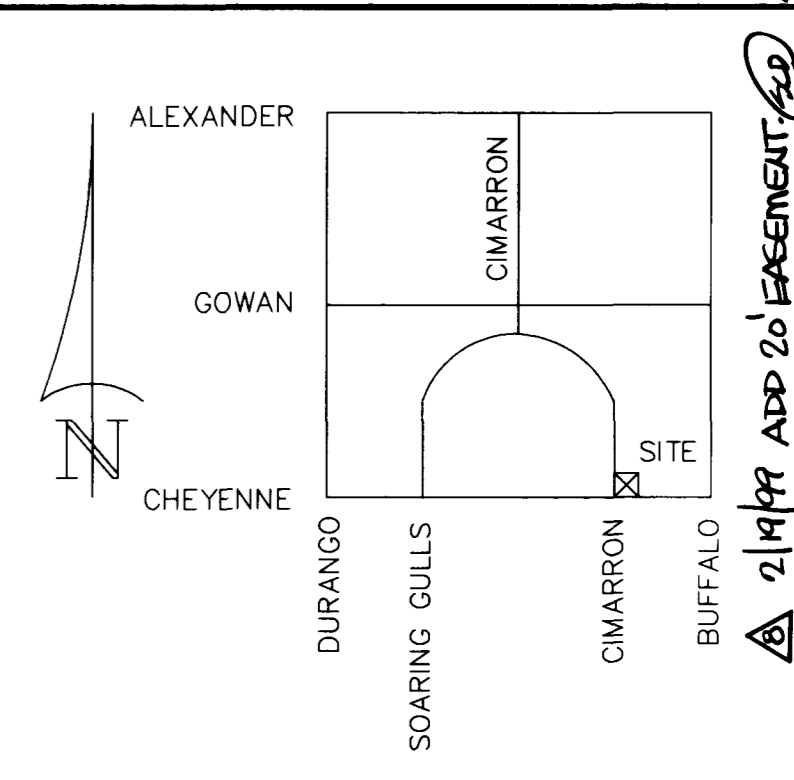
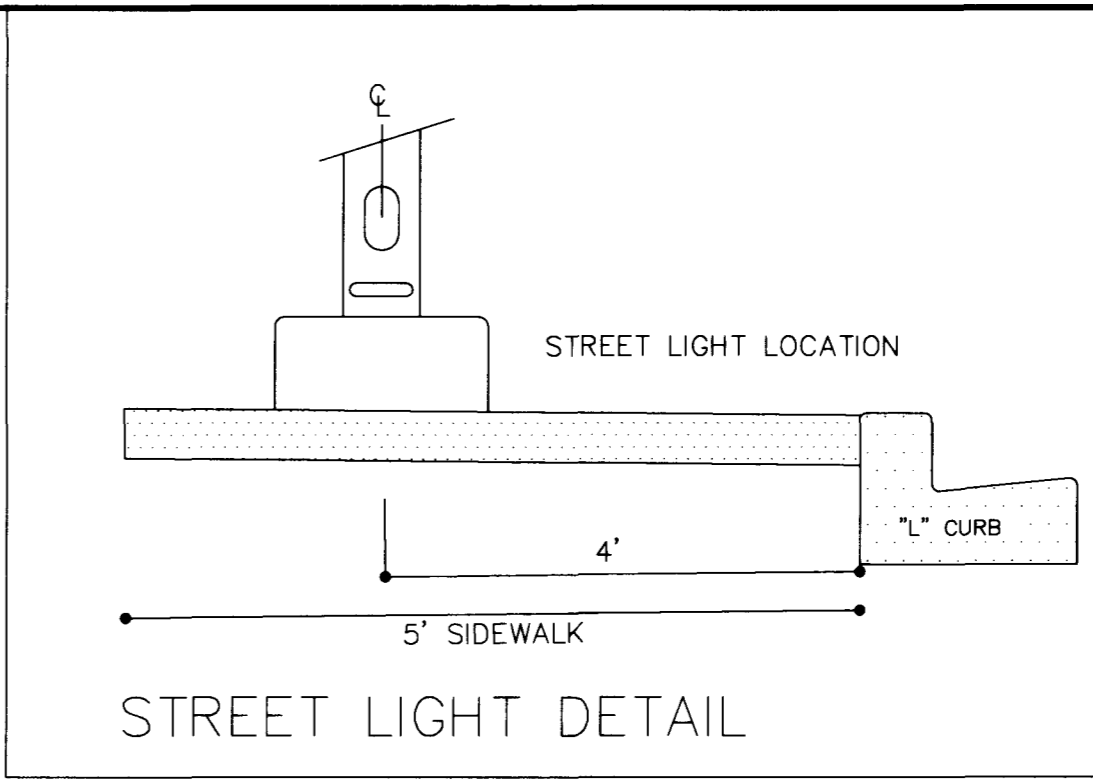
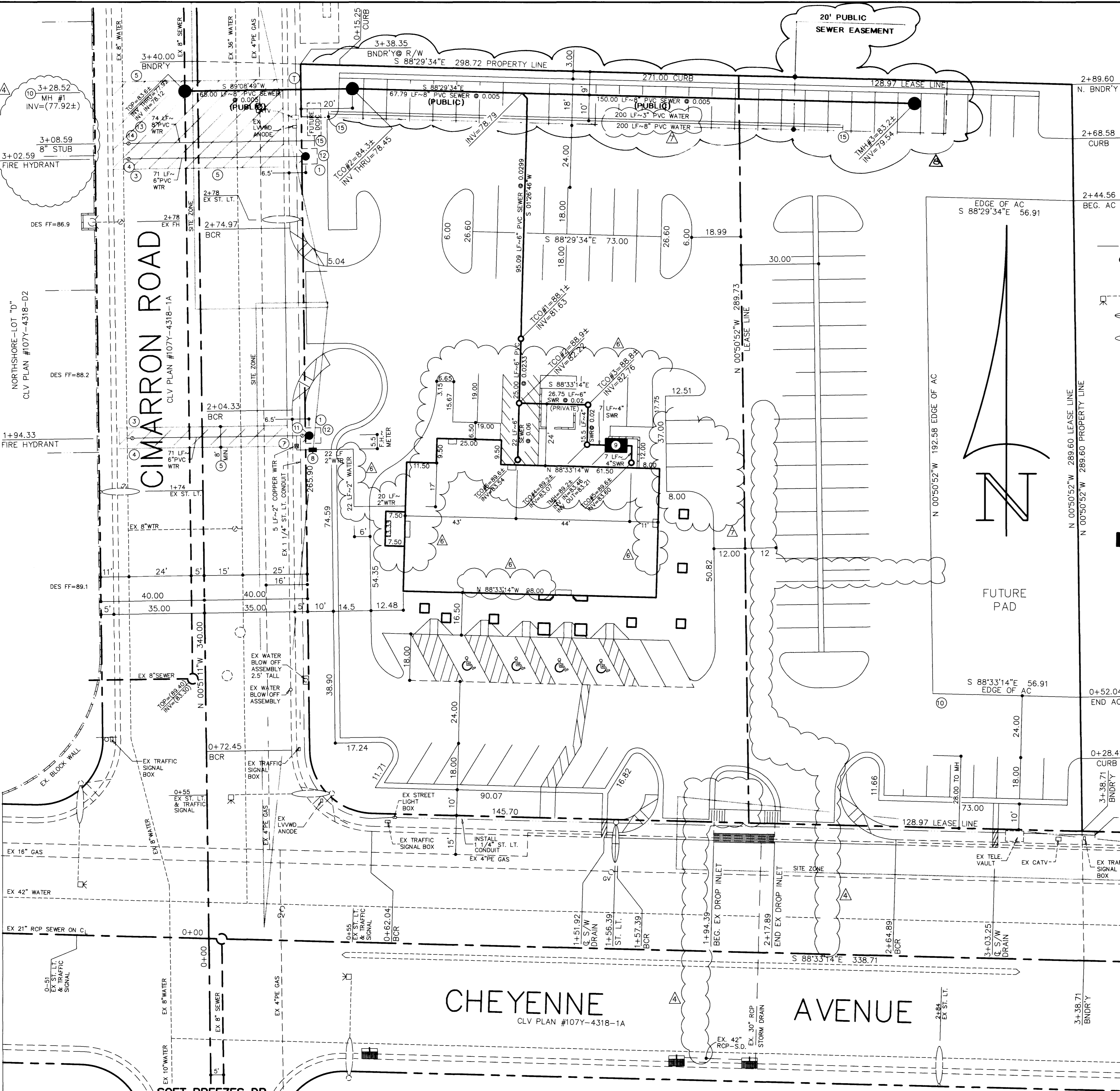


11/19/99 ADD 20' EASEMENT  
 4/15/99



LEGEND AND QUANTITY ESTIMATE

1 1/4" ST. LT. CONDUIT	270 LF.	PUBLIC
TCO	TOP OF CLEAN OUT	PRIVATE
EX DROP INLET	EX TRAFFIC SIGNAL HEAD	
STREET LIGHT	250 WATT HPS LUMINAIRE	1 EA.
EX STREET LIGHT		
①	STD. FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE #7	2 EA.
②	8" x 6" M.J. TAPPING TEE	2 EA.
③	6" TAPPING VALVE	2 EA.
④	AC PAVEMENT PATCH PER U.S.D. #504	
⑤	2" COPPER SERVICE CONNECTION & METER PER UDACS STD. PLATE #1D	1 EA.
⑥	2" RPPA PER UDACS STD. PLATE #11A	1 EA.
⑦	JENSEN 1000 GALLON GREASE INTERCEPTOR MODEL 1000EE W/CAST IRON FRAME AND COVER	1 EA.
⑧	SEWER INVERT UNKNOWN—VERIFY PRIOR TO ANY CONSTRUCTION	1 EA.
⑨	6" GATE VALVE	1 EA.
⑩	6" x 6" LVVWD EASEMENT	2 EA.
⑪	8" x 8" M.J. TAPPING TEE	1 EA.
⑫	8" TAPPING VALVE	1 EA.
⑬	8" CAP	3 EA.

8" PVC WATER	74 LF	200 LF
6" PVC WATER		142 LF
2" PVC WATER		
2" COPPER WATER		5 LF
8" PVC SEWER		283 LF
6" PVC SEWER		169 LF
4" PVC SEWER		31 LF
6" SEWER CLEAN OUT w/ BOX, TRAFFIC RATED LID, & CONCRETE COLLAR		4 EA.
4" SEWER CLEAN OUT w/ BOX, TRAFFIC RATED LID, & CONCRETE COLLAR		2 EA.
48" MANHOLE		2 EA.
3" PVC WATER		200 LF

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2000 gallons per minute at 20 psi residual pressure.

BASED ON:

SQUARE FOOTAGE:	5,362 square feet
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	5,362 square feet
BUILDING HEIGHT:	36.5 feet
NUMBER OF STORIES:	2 floor
TYPE OF CONSTRUCTION:	V-N
OCCUPANCY:	A-3
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO

Reviewed By: *Amy Choy*  
 Date: 1st APR 17 1998  
 LVVWD DATE: 7/2/98

FILE = PUTT01U  
 1" = 20'

REVISION

NO.	DATE	REV. PER	SW GAS CHK PRNT
1	07/17	move f.h. & meter	
2	11/20	REV. LVVWD EASEMENT	
3	1/16	REV. SEWER & WATER	
4	5/11	SEWER / FIRE HYD. / WATER	
5	5/20	REVISE BLDG / TRASH ENCLOSURE	
6	6/10	REVISE PARKING / ADD WATER	
7	10/10		

**DUNNAM CIVIL ENGINEERS**  
 3306 SPRING MOUNTAIN ROAD  
 SUITE 82  
 LAS VEGAS, NV 89102  
 (702) 367-0588  
 (702) 367-8145 FAX

# UTILITY PLAN

