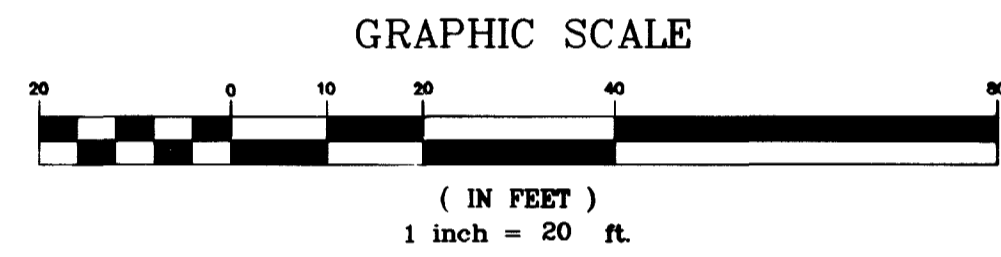
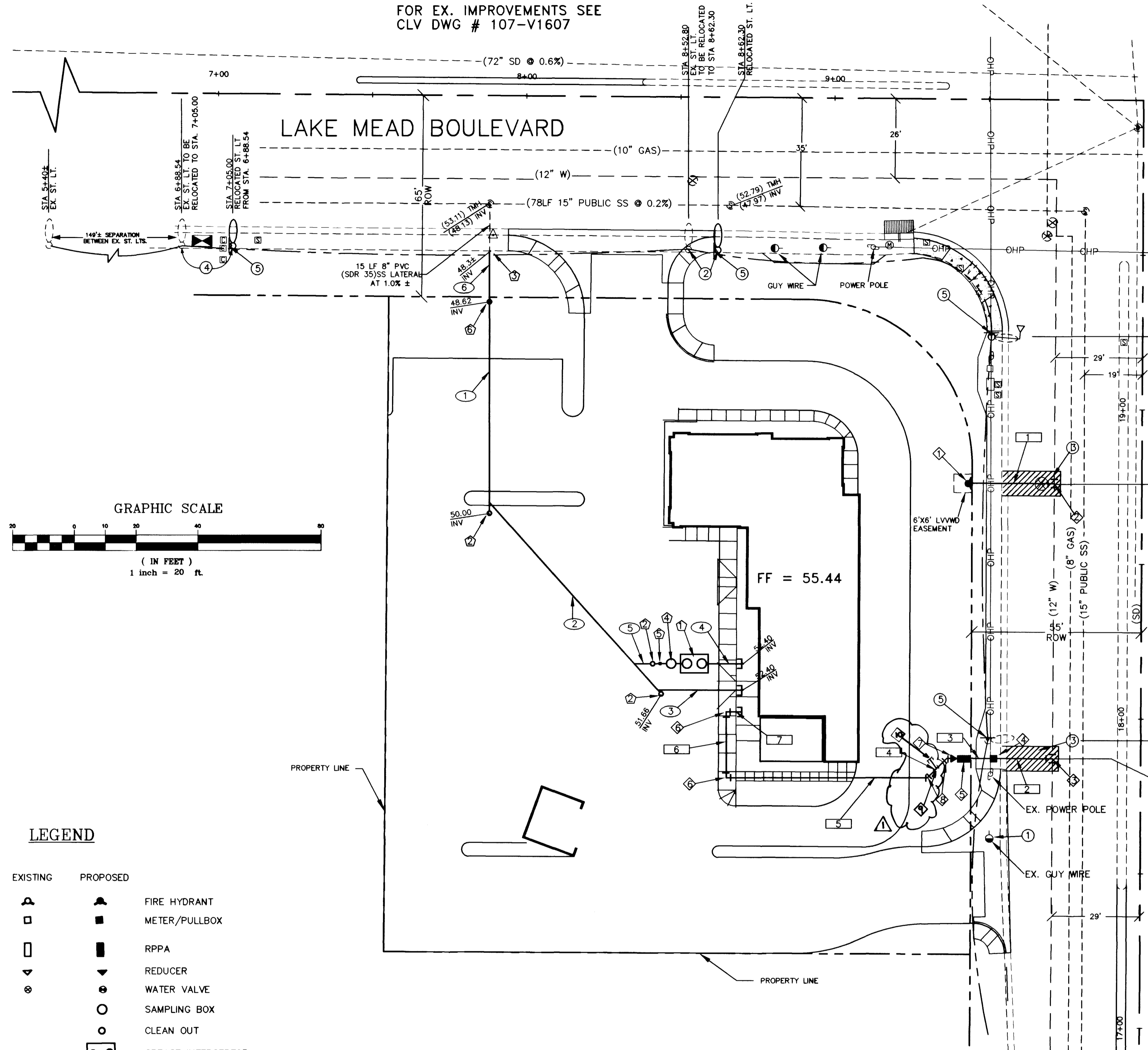


FOR EX. IMPROVEMENTS SEE
CLV DWG # 107-V1607



LEGEND

- | | | |
|----------|----------|------------------------|
| EXISTING | PROPOSED | |
| | | FIRE HYDRANT |
| | | METER/PULLBOX |
| | | RPPA |
| | | REDUCER |
| | | WATER VALVE |
| | | SAMPLING BOX |
| | | CLEAN OUT |
| | | GREASE INTERCEPTOR |
| | | FIRE LANE PAINTED CURB |
| | | FIRE LANE |

SEWER CONTRIBUTION

- * AVE. DAILY - 0.30 GPM
- ** PEAK DAILY - 0.99 GPM

- * AVE. DAILY = (0.10) GAL. PER SQ. FT. PER DAY
- 0.10 X 4328 = 433 GAL/DAY = 0.30 GPM

- ** PEAK DAILY = 3.3 (AVE.)
- 3.3 X 0.30 GPM = 0.99 GPM

WATER QUANTITIES

PUBLIC	
6" PVC WL	46 LF
1.5" COPPER WL	21 LF
1.5" WATER METER	1 EA
FIRE HYDRANT	1 EA
12"x6" WETTAPPING SLEEVE W/ VALVE	1 EA
PRIVATE	
2" PVC WL	100 LF
1.5" RPPA	1 EA

CALL BEFORE YOU OVERHEAD !!
1-702-593-6111
CALL BEFORE YOU DIG !!
1-800-227-2600

CONSTRUCTION NOTES

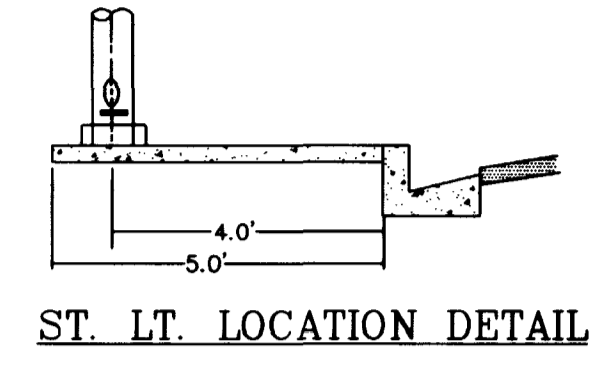
- ① GUY WIRE TO BE RELOCATED PER CENTRAL TELEPHONE
- ② EX. STREET LIGHT TO BE RELOCATED TO STA. 8+62.30
- ③ TRENCH AND PATCH PER CC STD. DWG. #503
- ④ LIMITS OF PATCHING TO BE TO NEAREST LANE LINE BEYOND TRENCHING WITH A MIN. WIDTH OF 8' OR AS SPECIFIED ON PLANS (MIN. A.C. THICKNESS TO BE 4")
- ⑤ EX. STREET LIGHT TO BE RELOCATED TO STA. 7+05.00
- ⑥ INSTALL R8-3A AND R7-1AP SIGNS (ATTACHED TO ST. LT. POLES)

SEWER CONSTRUCTION NOTES

- ① INSTALL 1200 GAL. GREASE INTERCEPTOR (REFER TO MECH. PLANS)
- ② INSTALL 6" SEWER CLEANOUT (REFER TO DETAIL SHT. C5)
- ③ CONSTRUCT SEWER CONNECTION
- ④ INSTALL JENSON SAMPLING BOX MODEL 2432-Z OR APPROVED EQUIVALENT.
- ⑤ INSTALL 2" VENT PER MECH. PLANS
- ⑥ INSTALL 8" SEWER CLEANOUT (REFER TO DETAIL SHT. C5)

WATER CONSTRUCTION NOTES

- ① INSTALL FIRE HYDRANT & APPURTENANCES PER UDACS PLATE #7(CC STD. DWG. 516)
- ② INSTALL 12"x6" WET-TAPPING SLEEVE W/ 6" TAPPING VALVE
- ③ INSTALL 1.5" SERVICE SADDLE WITH CORP STOP
- ④ INSTALL 1.5" METER PER UDACS PL. #1D
- ⑤ INSTALL 1.5" RPPA PER UDACS PL. #11A
- ⑥ INSTALL 2" 90° BEND W/ TB PER UDACS PL. #5
- ⑦ INSTALL 1.5"x2" REDUCER PER UDACS PL. #3
- ⑧ INSTALL 2" 45° BEND W/TB PER UDACS PL. #5
- ⑨ INSTALL 2"x2"x1" TEE W/B PER UDACS PL. #5
- ⑩ CONNECT TO 1" R.P. ASSEMBLY (REF. LANDSCAPE PLANS SHEET L2)



ST. LT. LOCATION DETAIL

MARTIN LUTHER KING BOULEVARD
FOR EX. IMPROVEMENTS SEE
CLV DWG # 107-V856A

SEWER TABLE

PIPE NO.	TYPE	DIA (IN)	LF	SLOPE (%)
1	SDR 35	6	89	2.0
2	SDR 35	6	63	2.0
3	SDR 35	6	27	2.7
4	SDR 35	6	11	4.5
5	SDR 35	6	15	2.0
6	SDR 35	8	16	2.0

WATER TABLE

PIPE NO.	SIZE (IN)	TYPE OF PIPE	LF
1	6	C900	23
2	1.5	COPPER	16
3	1.5	COPPER	5
4	2	SCH40	9
5	2	SCH40	65
6	2	SCH40	21
7	2	SCH40	5

NOTE: CONTRACTOR TO VERIFY SEWER MAIN INVERT IN FIELD.

FIRE HYDRANT INSTALLATION

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7

1 1/2" REDUCED PRESSURE PRINCIPLE ASSEMBLY

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

PROJECT NAME: McDonald's Lake Mead & MLK P.C.
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is **NOT APPROVED FOR CONSTRUCTION** at this time and this signature does not provide or imply a water commitment.
Lewis E. Binder 6.13.97
LVVWD DATE

CLV FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

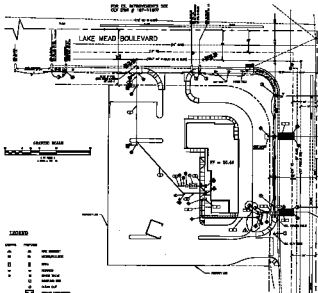
BASED ON

SQUARE FOOTAGE	4328	SQUARE FEET
LARGEST ARE BETWEEN 4-HOUR AREA SEPARATION WALLS	4328	SQUARE FEET
BUILDING HEIGHT:	23	FEET
NUMBER OF STORES:	1	FLOOR
TYPE OF CONSTRUCTION:	V-N	
OCCUPANCY:	A-3	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO	

REVIEWED BY: *[Signature]*
DATE: 6.13.97

[Signature] 6/27/97
LVVWD DATE

SCALE (H)	1"=20'	SCALE (V)	NONE	DESIGN BY	WLW	DRAWN BY	WLW	DATE	6/13/97
THE CW GROUP CIVIL ENGINEERS		2535 E. FLAMINGO ROAD LAS VEGAS, NV 89119 (702)898-9027 FAX (702)898-9061		UTILITY PLAN		McDONALD'S AT LAKE MEAD & MARTIN LUTHER KING		JOB# 97004	
SHEET C4 OF 5									
107-V2683									



LEGEND

- 1" = 10' (Scale)
- 1" = 20' (Scale)
- 1" = 30' (Scale)
- 1" = 40' (Scale)
- 1" = 50' (Scale)
- 1" = 60' (Scale)
- 1" = 70' (Scale)
- 1" = 80' (Scale)
- 1" = 90' (Scale)
- 1" = 100' (Scale)
- 1" = 120' (Scale)
- 1" = 150' (Scale)
- 1" = 200' (Scale)
- 1" = 300' (Scale)
- 1" = 400' (Scale)
- 1" = 500' (Scale)
- 1" = 600' (Scale)
- 1" = 700' (Scale)
- 1" = 800' (Scale)
- 1" = 900' (Scale)
- 1" = 1000' (Scale)

SEWER CONDUIT

- 12" DIA. - 12' DIA.
- 15" DIA. - 15' DIA.
- 18" DIA. - 18' DIA.
- 24" DIA. - 24' DIA.
- 30" DIA. - 30' DIA.
- 36" DIA. - 36' DIA.
- 42" DIA. - 42' DIA.
- 48" DIA. - 48' DIA.
- 54" DIA. - 54' DIA.
- 60" DIA. - 60' DIA.

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CONCRETE WORK

- ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SPECIFICATIONS FOR CONCRETE AND REINFORCED CONCRETE, AS PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
- ALL EXISTING WORK SHALL BE REPAIRED OR REPLACED AS NECESSARY.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SPECIFICATIONS FOR CONCRETE AND REINFORCED CONCRETE, AS PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.

SEWER CONDUIT WORK

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SEWER TABLE

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMITS	10/1/78	J. J. [Signature]	[Signature]
2	ISSUED FOR CONSTRUCTION	10/1/78	J. J. [Signature]	[Signature]
3	ISSUED FOR RECORD	10/1/78	J. J. [Signature]	[Signature]

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3	ISSUED FOR RECORD	10/1/78	J. J. [Signature]	[Signature]

PROPOSED PROJECT
CONSTRUCTION

DESIGNED BY
ENGINEER

DATE
SCALE

MCDONALD'S AT LAKE MEAD & MARTIN LUTHER KING UTILITY PLAN
 SHEET C4 of 5
 JOB # 87004
 10/1/78