PROJECT NAME: LEWIS HOMES SUMMERLIN PARCEL "MM" UNIT 1 (SMC C1 FROM CC & S1)

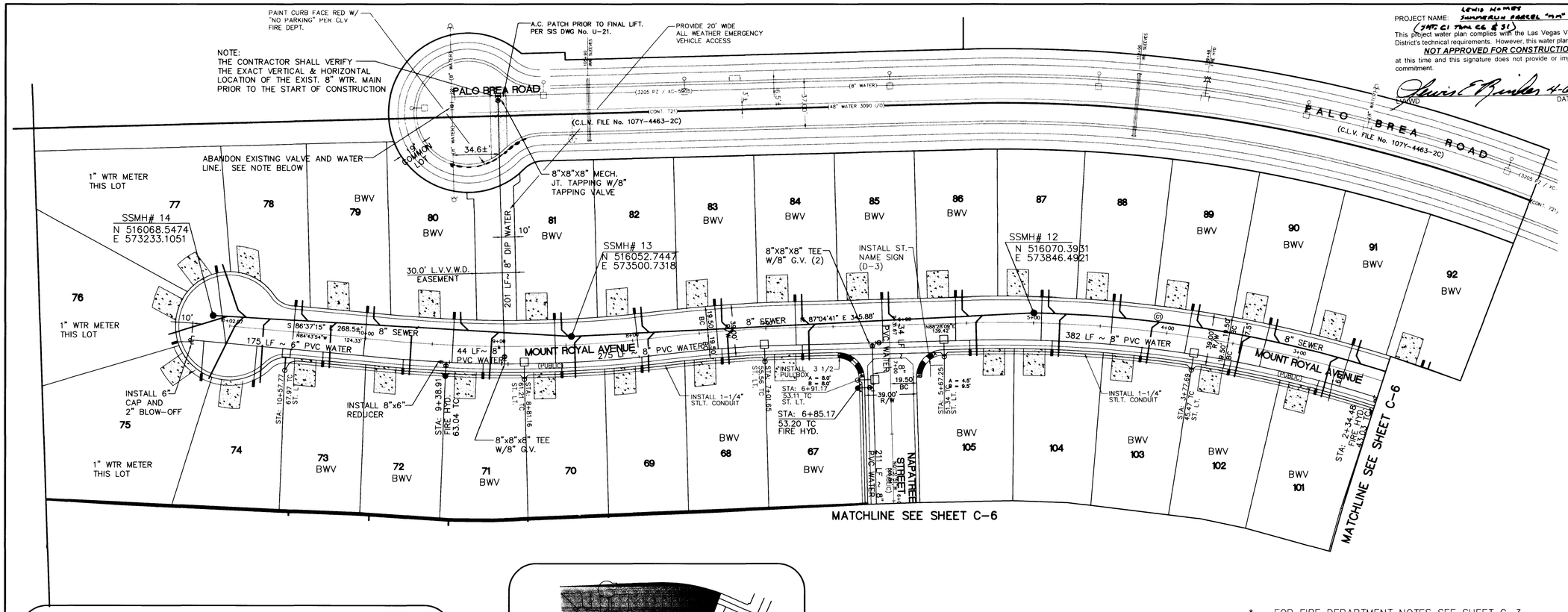
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is **NOT APPROVED FOR CONSTRUCTION** at this time and this signature does not provide or imply a water commitment.

Steven E. Brinker 4-6-99
DWND DATE

NORTH

SCALE 1"=40'

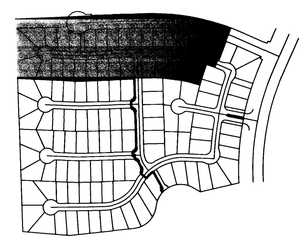
40 0 40 80
SCALE FEET



ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI.

THE CONTRACTOR SHALL CUT THE EXISTING PIPE 3'± BEYOND THE ABANDONED VALVE AND INSTALL A CAP. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE No. 5 AT ALL CAP OR PLUG LOCATIONS.



KEY MAP

Sewer Curve Table				
No.	Delta	Radius	Tangent	Length
C1	24°58'14"	940.50'	208.25'	409.89'

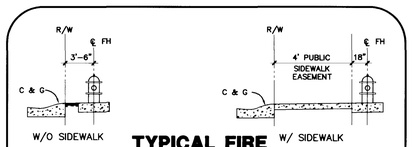
SEWER CONTRIBUTION

63 LOTS X 2.3 PER LOT = 144.9

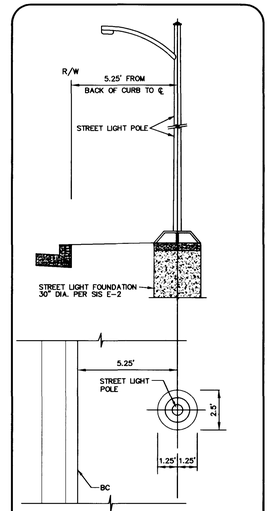
63 X 250 GPD = 15,750 GPD AVERAGE

15,750 GPD X 3.4 PEAKING FACTOR = 53,550 GPD PEAK

* – FOR FIRE DEPARTMENT NOTES SEE SHEET C-3

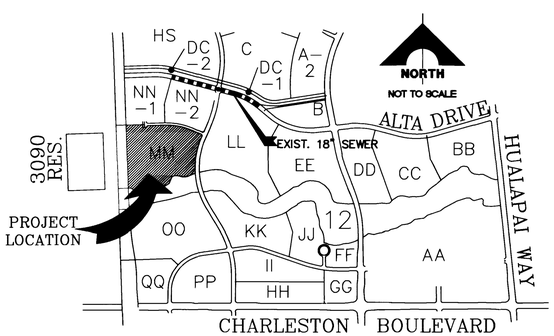


TYPICAL FIRE HYDRANT LOCATION



TYP. ST. LT. LOCATION

NOT TO SCALE



SEWER DISCHARGE MAP

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON:

SQUARE FOOTAGE 1,350 – 2,400

LARGEST AREA BETWEEN SEPARATION WALLS N/A

HEIGHT 2 STORIES – 28' MAX.

TYPE OF CONSTRUCTION TYPE V-N

EXPOSURES N/A

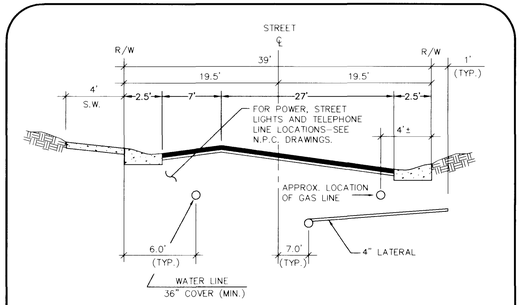
SPRINKLER SYSTEM N/A

OCCUPANCY RESIDENTIAL

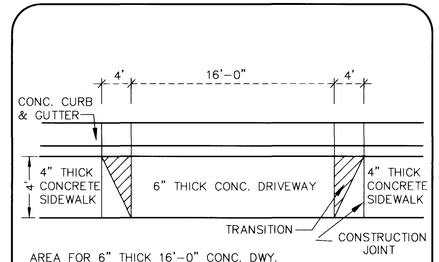
ROOF CONSTRUCTION TILE

REVIEWED BY Amy Chong

DATE 4/6/99



UNDERGROUND UTILITIES LOCATION TYPICAL STREET SECTION



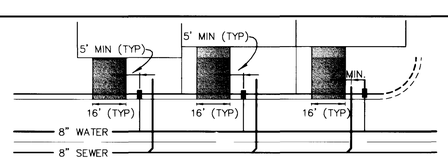
AREA FOR 6" THICK 16'-0" CONC. DWY. = 4' X (16'-0' + 8') = 96 SQ. FT.

DRIVEWAY DETAIL

125 AMP 240V PAD MOUNT SERVICE

WITH

1 2 POLE 60 AMP CIRCUIT BREAKER/S
1 1 POLE 15 AMP CIRCUIT BREAKER/S
0 1 POLE 40 AMP CIRCUIT BREAKER/S
0 1 POLE 60 AMP CIRCUIT BREAKER/S
1 2 POLE 60 AMP CONTACTOR/S
1 BY-PASS SWITCH PER CONTACTOR



TYPICAL WATER & SEWER SERVICE LOCATIONS

BASIS OF BEARING

NORTH 89°54'38" EAST BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP THEREOF ON FILE IN BOOK 80, PAGE 14 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

G.C.WALLACE PROJECT BENCHMARK NO. 107, A 2" BRASS DISK IN CONCRETE, LYING SOUTH 44°00'38" EAST, 641.6' FROM THE INTERSECTION OF HUALAPAI WAY AND TOWN CENTER DRIVE.

ELEVATION = 2877.96
CITY OF LAS VEGAS BENCHMARK
OLV001954 RIVET & PLATE IN TOP OF CURB NW SIDE OF TOWN CENTER DRIVE AND SOUTH CIRCLE ISLAND.

2725.923 NGVD 1929 DATUM
2728.37 NAVD 1988 DATUM (831.6074 M)
2726.19 SUMMERLIN DATUM * PROJECT DATUM
SUMMERLIN DATUM = NAVD – 2.18'

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT 4/07/99

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY

Call before you Dig.

1-800-227-2600

UNDERGROUND SERVICE (USA)

ENGINEER – STATE OF NEVADA – RALPH E. BECKER – PROFESSIONAL ENGINEER – CIVIL – No. 13051 – DATE 4-6-99

REV	DATE	DESCRIPTION	DATE	AGEN. APP	DATE	GOVN. APP.

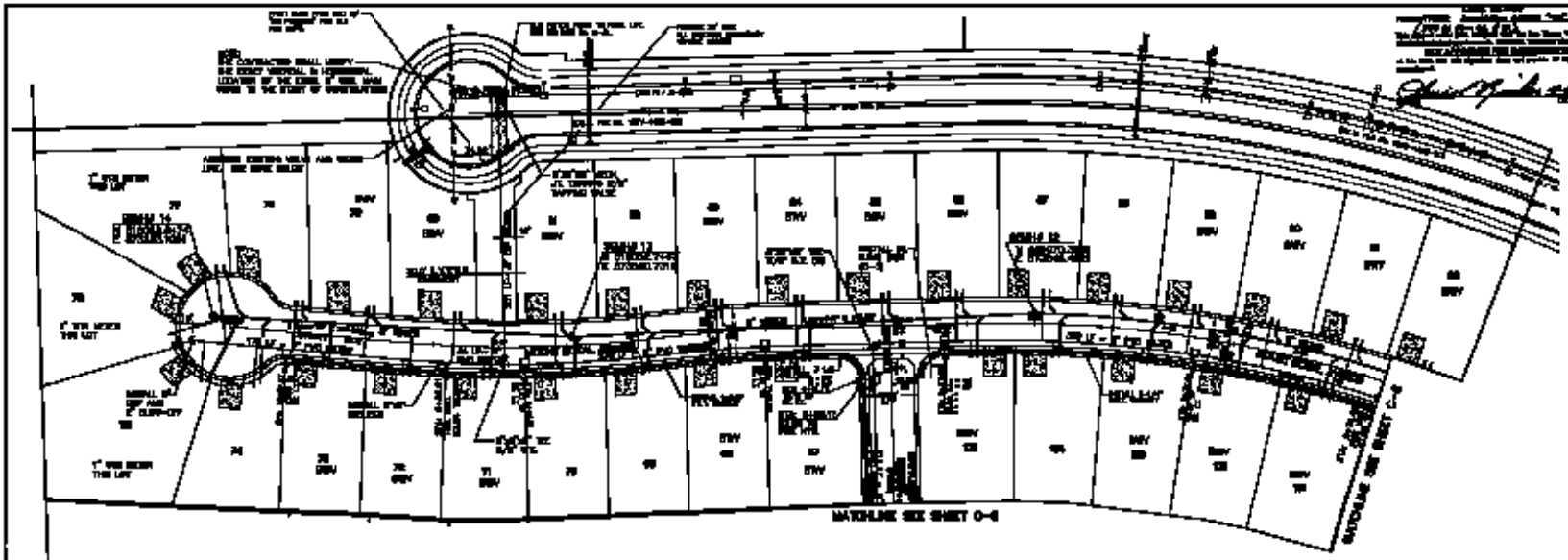
DESIGN: ADR
DRAWN: ADR
CHECK:
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 04-05-99
PLOT TIME: 15:32:12
BFscale

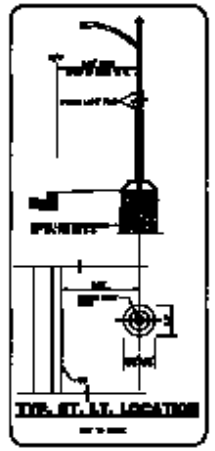
G.C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89102
TELEPHONE: (702) 363-1200 • FAX: (702) 363-8979
F:\5543-9304\dwg\improv\mm01c005.dwg

LEWIS HOMES OF NEVADA
SUMMERLIN PARCEL "MM" UNIT1
UTILITY PLAN 1

SHEET **C-5** 5 OF 17 SHTS

14175 16521 3074-4605-1

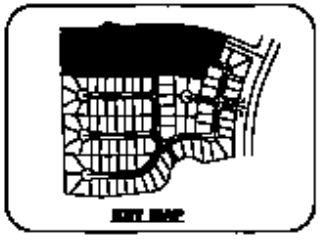




ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE PRESERVED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A PORTION OF THE TOP 12 INCHES OF VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH NONROTTING FIBROUS MATERIAL A CONFORMING PROPOSAL OF AS MUCH SAND TO.

THE CONTRACTOR SHALL CUT THE EXISTING PIPE TO REMOVE THE ABANDONED VALVE AND INSTALL A CAP, BLOCK, & ANCHOR AS DESCRIBED IN THE EXISTING PIPE AS DIRECTED AT THE CUT AND CAP LOCATIONS. THE INSTALLATION OF A PLUG MAY BE PERMITTED ONLY BEFORE APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE LOCAL PLACE No. 8 AT ALL CAP OR PLUG LOCATIONS.



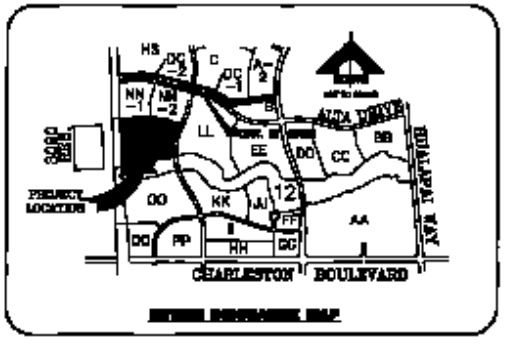
KEY MAP

WATER DISTRIBUTION

[illegible]

* – FOR FIRE DEPARTMENT NOTES SEE SHEET C-3

TYPICAL FIRE HYDRANT LOCATION



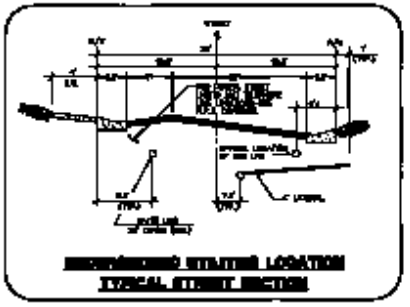
WATER DISTRIBUTION MAP

FIRE FLOW CALCULATIONS

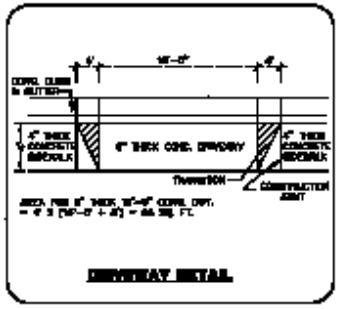
FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 PERCENT NOT BELOW NORMAL.

TABLE 10:

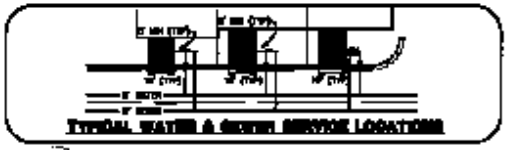
PRIMARY FACTOR	1,500 – 2,000
ADDITIONAL FACTORS	N/A
RESULT	2,000 GPM – 30 PSI
TYPE OF CONSTRUCTION	TYPE V-N
OCCUPANCY	N/A
SPRINKLER SYSTEM	N/A
CONFIDENCE	PERCENTAGE
FIRE DISTRIBUTION	[illegible]
REVIEWED BY	[illegible]
DATE	4/5/94



NEIGHBORHOOD STATION LOCATION
TYPICAL STREET SECTION



DRIVEWAY DETAIL



TYPICAL WATER & SEWER SERVICE LOCATIONS

BASIS OF BEARING

NORTH 89°04'26" EAST BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 36, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP THEREOF ON FILE IN BOOK 94, PAGE 34 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

[illegible]

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT — 4/5/94

Call before you Dig. 1-800-227-8600 UNDERGROUND SERVICE (USA)

D.C. WALLACE, INC.
Engineering/Architecture
[illegible]

LAND HOLDER OF RECORD
ORIGINAL PARCEL "B" UNIT
UTILITY PLAN 1

SHEET C-5

NAME 3