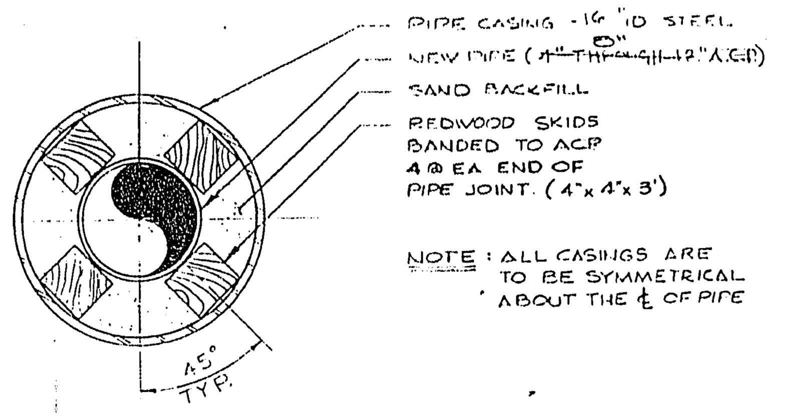
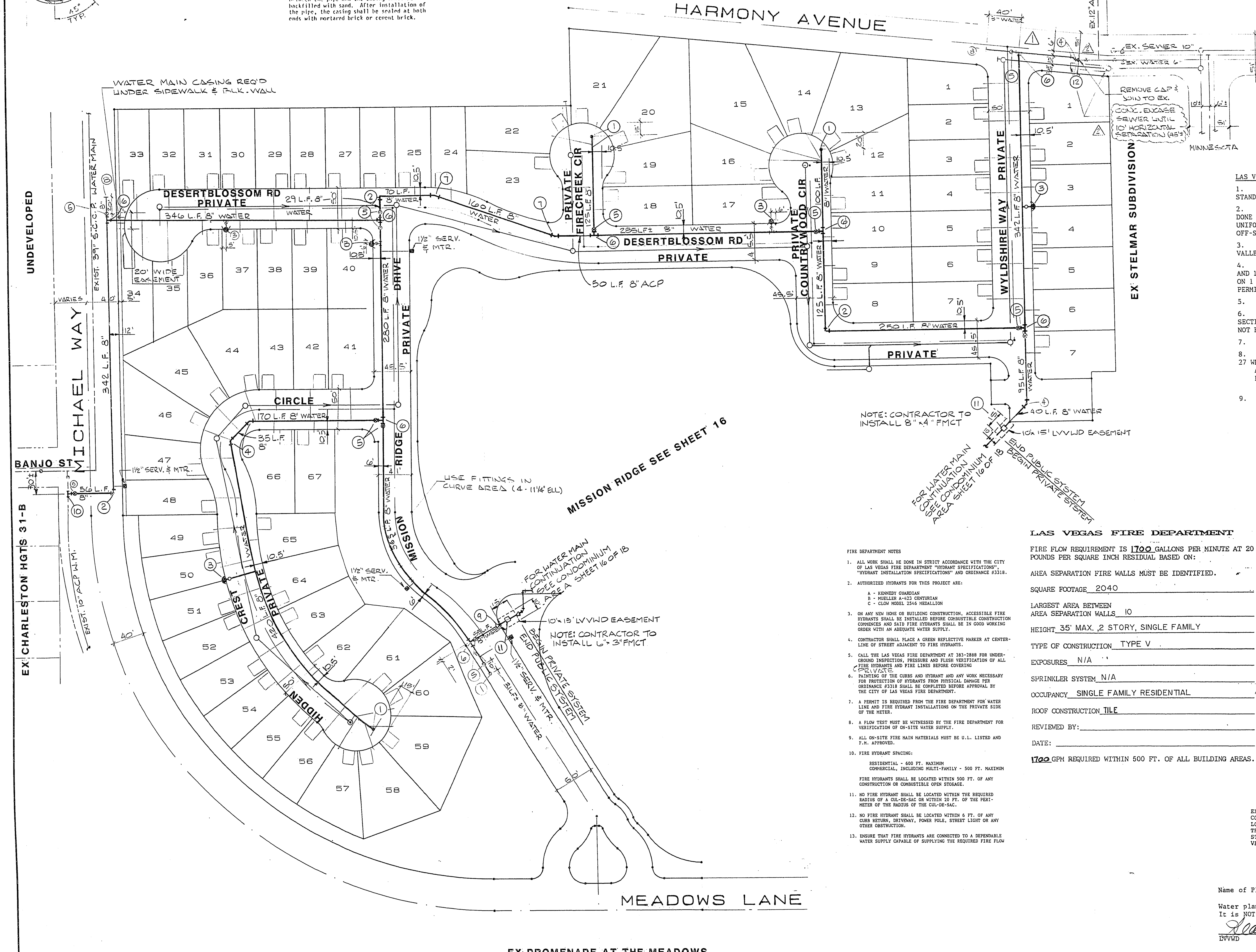


NOTE:

1. Steel pipe casing shall be fabricated from a minimum of 1/4" thick steel plates, conforming to the requirements of ASTM A283, Grade B, C, or D. All joints shall be welded. Interior joints shall be ground to a smooth finish. All welding shall be performed in accordance with AWWA C201, "AWWA Standard for Fabricated Electrically Welded Steel Water Pipe." Coatings for steel casing are not required.
2. Pipe casing shall be laid true to line and grade with no bends or changes in grade for the full length of the casing.
3. The pipe shall be supported at each end of each joint with skids. The annular space between the pipe and the casing shall be backfilled with sand. After installation of the pipe, the casing shall be sealed at both ends with mortared brick or cement brick.



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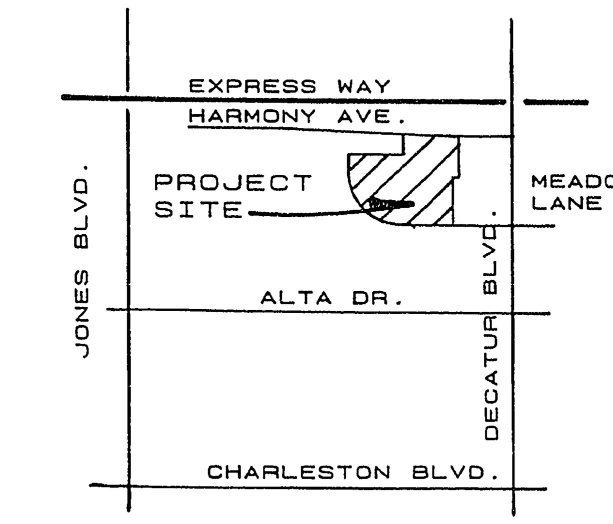

VICINITY MAP

No.	DATE	BY	REVISION
1	1-23-89	DWM / cl 1/23/89	RELOCATE WATER TO 6' SOUTH OF ℄ SEWER 10' SOUTH OF WATER
2	2-23-89	DWM / cl 2/23/89	CONC. ENCASE SEWER 45'± TO HARMONY; ADD 2 - 45° ELLS FOR WATER RELOCATION TO 6' SOUTH OF ℄

HB 1-20-89
LLM 2/23/89

Donald W. Ma[illegible]

10.6.88

SOUTHWEST ENGINEERING
LAND PLANNING • MAPPING • DEVELOPMENT
1725 S. RAINBOW BLVD.•STE. 23•LAS VEGAS, NEVADA 89102
(702) 363-9700

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA.
3. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1 1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
6. DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14" AND 16".
7. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
8. DEFLECTION TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
   A. OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
   B. OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS
9. CALL BEFORE YOU DIG - 1-800-227-2600.

Edwin [illegible] 11/29/88
CLV FIRE MARSHALL — DATE

Leanne L Miller 1/9/89
L.V.V.W.D. — DATE

FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPAARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3318.
2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
   A - KENNEDY GUARDIAN
   B - MUELLER A-423 CENTURIAN
   C - CLOW MODEL 2546 MEDALLION
3. ON ANY NEW HOME OR BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
4. CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTER-LINE OF STREET ADJACENT TO FIRE HYDRANTS.
5. CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDER-GROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING PRIVATE
6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3318 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATER LINE AND FIRE HYDRANT INSTALLATIONS ON THE PRIVATE SIDE OF THE METER.
8. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT FOR VERIFICATION OF ON-SITE WATER SUPPLY.
9. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
10. FIRE HYDRANT SPACING:
    RESIDENTIAL - 600 FT. MAXIMUM
    COMMERCIAL, INCLUDING MULTI-FAMILY - 500 FT. MAXIMUM
    FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE.
11. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT. OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FT. OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
13. ENSURE THAT FIRE HYDRANTS ARE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1700 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:

AREA SEPARATION FIRE WALLS MUST BE IDENTIFIED.

SQUARE FOOTAGE 2040

LARGEST AREA BETWEEN AREA SEPARATION WALLS 10

HEIGHT 35' MAX. ,2 STORY, SINGLE FAMILY

TYPE OF CONSTRUCTION TYPE V

EXPOSURES N/A

SPRINKLER SYSTEM N/A

OCCUPANCY SINGLE FAMILY RESIDENTIAL

ROOF CONSTRUCTION TILE

REVIEWED BY:

DATE:

1700 GPM REQUIRED WITHIN 500 FT. OF ALL BUILDING AREAS.

QUANTITY ESTIMATE
(PUBLIC WATER SYSTEM)

①	2" BLOW OFF	3 EACH
②	8" 90° ELBOW	3 EACH
③	STD. FIREHYDRANT & ASSEMBLY	5 EACH
④	8" 45° ELBOW	5 EACH
⑤	8" GATE VALVE	13 EACH
⑥	8" TEE	8 EACH
⑦	8" 22½° ELBOW	2 EACH
⑧	8" CAP	2 EACH
⑨	8" x 6" REDUCER	1 EACH
⑩	10" x 8" MECHANICAL TAPPING TEE & 8" VALVE	1 EACH
⑪	FMCT	2 EACH
	3/4" SERVICES WITH METER	74 EACH
	3896 L.F. ± PUBLIC 8" ACP WATER MAIN	
	1½" SERVICE WITH METER	4 EACH
⑫	12" X 8" REDUCER	1 EACH

EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

Name of Plan: PACIFIC RIDGE

Water plan as shown will be acceptable.
It is NOT approved for construction.

Leanne L Miller 12/20/88
LVVWD — Date

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)
Avoid cutting underground utility lines. It's costly.

TITLE: PUBLIC SYSTEM MASTER WATER PLAN
SINGLE FAMILY AREA

PROJECT: PACIFIC RIDGE

W.O. No. 880527
BY RICHARD
DATE 8-88
SCALE 1" = 60'

SHEET 14 OF 18 SHEETS

204

5674-4026

116144