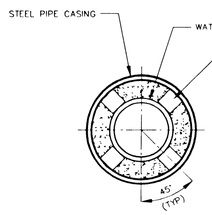


PIPE 4" THRU 12"

NOTE:
1. STEEL PIPE CASING SYMMETRICAL ABOUT WATER MAIN CENTERLINE

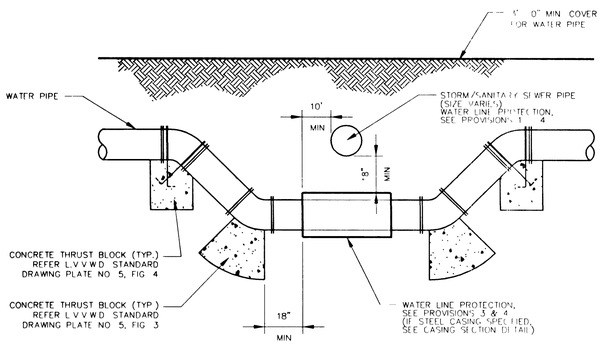
2. PRE-APPROVED CASING SPACERS AND PRE-APPROVED END SEALS INSTALLED PER MANUFACTURER'S SPECIFICATIONS. (REDWOOD SKIDS NOT ALLOWED. UDACS SECTION 3.26 NOT APPLICABLE.) USE A "CENTERED" CONFIGURATION AND PORVIDE THE MANUFACTURER WITH THE FOLLOWING
- PIPE OD
- CASING ID
- CASING LENGTH

1. STEEL PIPE CASING SHALL BE FABRICATED FROM A MINIMUM OF 1/4" THICK STEEL PLATES, CONFORMING TO THE REQUIREMENTS OF ASTM A238, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUNDED 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 JOINT WITH SPACERS. AFTER INSTALLATION OF THE PIPE, THE CASING SHALL BE SEALED AT BOTH ENDS WITH CASING END SEALS. DUCTILE IRON PIPE JOINTS INSIDE CASING ARE TO BE RESTRAINED.

TYPICAL CASING SECTION



WHERE THE WATER MAIN IS BELOW THE SEWER MAIN, OR IS LESS THAN 18" ABOVE THE SEWER MAIN, THE WATER LINE SHALL BE PROTECTED BY CONSTRUCTION OF THE STORM/SANITARY SEWER AS FOLLOWS

1. EXTRA HEAVY CAST IRON PIPE; OR
2. WATER SUPPLY QUALITY MATERIALS MEETING AWWA STANDARDS; OR
3. SEWER OR WATER MAIN ENCASEMENT WITH FOUR INCHES, MINIMUM, OF CEMENT SLURRY (300 PSI+). OR
4. SEWER OR WATER MAIN SLEEVED WITH WATER QUALITY PIPE WITHOUT JOINTS

THE PROVISION UTILIZED SHALL EXTEND 10 FEET ON EACH SIDE OF THE CROSSING. THE PROVISION UTILIZED SHALL ALSO BE EXTENDED FOR OTHER THAN 90 DEGREE CROSSINGS TO THE POINT AT WHICH THE TEN FOOT SEPARATION BETWEEN THE WATER AND SEWER LINES IS ACHIEVED (10/SINE OF CROSSING ANGLE)

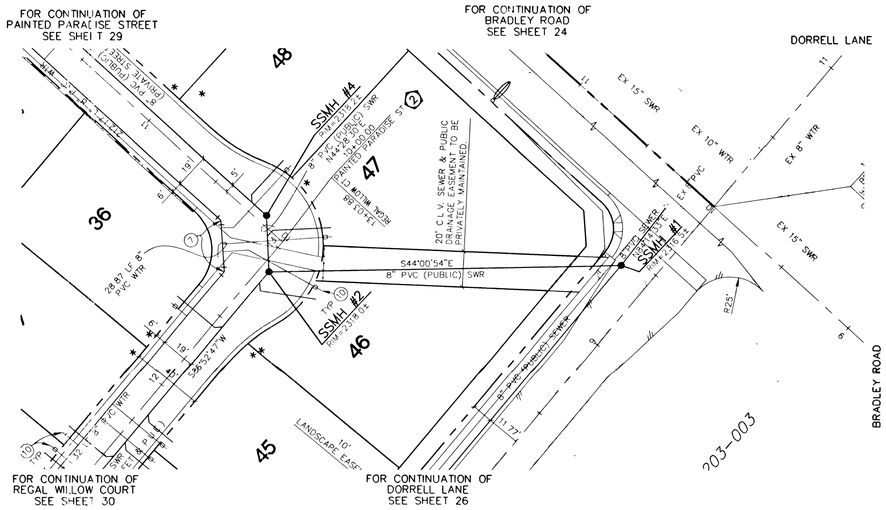
REF. UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS, 1995, 2.19.02
DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, 1991, 2.2.21

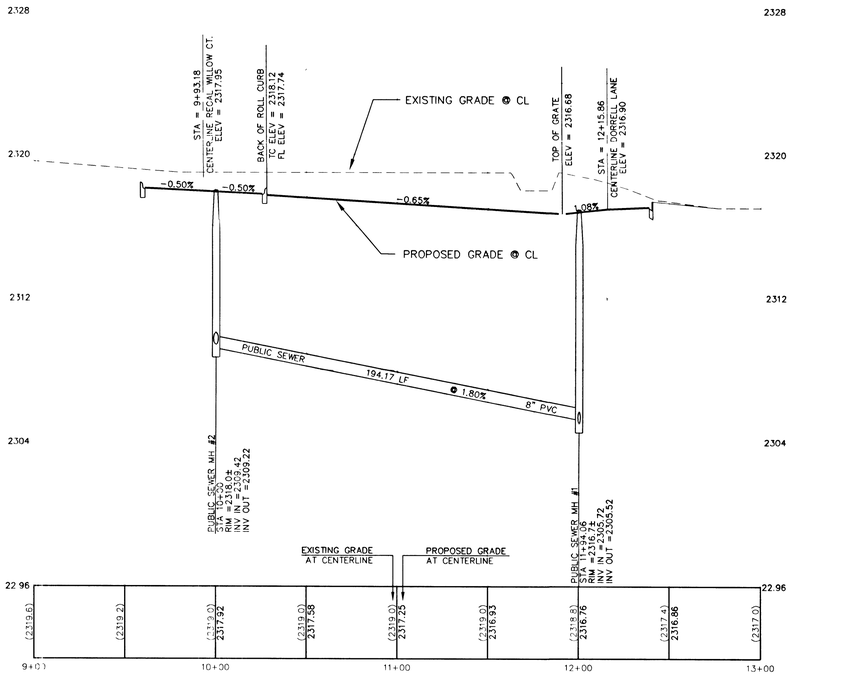
STORM/SANITARY SEWER WATER CROSSING DETAIL

NTS

WATER QUANTITY ESTIMATES

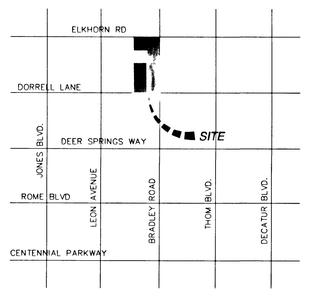
ITEM #	REF #	DESCRIPTION	UNIT	QUANTITY	REMARKS
1		8" PVC WATER MAIN	LF	3,590	
2		6" PVC WATER MAIN	LF	385	
3		3/4" WATER METER	EA	45	PER UDACS PLATE 1B
4		3/4" WATER METER	EA	8	PER UDACS PLATE 1D
5		3/4" IRRIGATION METER	EA	1	PER UDACS PLATE 1D
6	(1)	STD. FIRE HYDRANT W/ASSY	EA	5	PER UDACS PLATE 7
7	(2)	8"x8"x8" TEE	EA	3	PER UDACS PLATE 5
8	(3)	6" GATE VALVE	EA	2	PER UDACS PLATE 8
9	(4)	8" GATE VALVE	EA	6	PER UDACS PLATE 8
10	(5)	8"x6" REDUCER	EA	2	PER UDACS PLATE 5
11	(6)	8" 90° BEND	EA	1	PER UDACS PLATE 5
12	(7)	8" 45° BEND	EA	6	PER UDACS PLATE 5
13	(8)	2" BLOW-OFF ASSY	EA	3	PER UDACS PLATE 4
14	(9)	12"x8" TAPPING SLEEVE AND VALVE	EA	1	PER UDACS PLATE 22
15	(10)	1" TYPE K COPPER SERVICE	EA	45	PER UDACS PLATE 1B
16	(11)	1" TYPE K COPPER SERVICE	EA	9	PER UDACS PLATE 1D
17	(12)	1" RPPA	EA	1	PER UDACS PLATE 11A
18					





SEWER CONNECTION PROFILE AT DORRELL

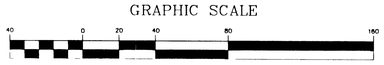
SCALE: HORIZONTAL 1"=40'
VERTICAL 1"=4'



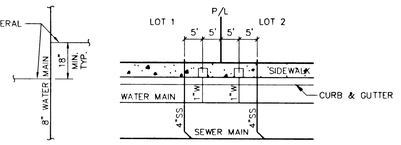
VICINITY MAP

N.T.S.

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.
VERTICAL SCALE= 1" = 4'



TYPICAL SERVICE LOCATION

UNLESS OTHERWISE SHOWN

NOTE

ALL PRIVATE STREETS ARE CLV SEWER & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL

CNLV BM #519118, SW COR OF WATER DISTRICT FENCE, DECATUR BLVD. & DEER SPRINGS WAY

STATION 1LV90
24E4

ELEVATION= 701.4396 METERS (NAVD88)
2301.306 FEET

SEWER QUANTITY ESTIMATES

ITEM #	DESCRIPTION	UNIT	QUANTITY
1	8" PVC SEWER MAIN	LF	3257
2	4" PVC SEWER LATERAL	LF	1325
3	4' DIA. SEWER MANHOLE	EA	13

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District — Date 9/11/01 ESN018

NOTICE TO CONTRACTOR !

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY

CALL before you Dig

1-800-227-2600

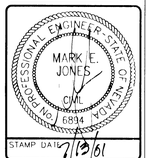
UNDERGROUND SERVICE (USA)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY

CALL 1-702-593-6111

34479

NO.	DATE	BY	APP'VD.	REVISION DESCRIPTION



STAMP DATE 7/13/01

3610 North Rancho Drive
Las Vegas, Nevada 89130
Telephone: (702) 648-9700
fax: (702) 648-4143

ENGINEERING
SOUTHWEST
LAND PLANNING • MAPPING • DEVELOPMENT

TITLE: UTILITY DETAILS AND DORRELL SEWER CONNECTION

PROJECT: PARADISE MEADOWS - WEST
D.R. HORTON
CITY OF LAS VEGAS

WORK ORDER NO. 000612
DESIGN BY: SJW
DATE: 10/30/00
SCALE: 1"=40'
CADFILE: pmwun
SHEET 6 OF 32 SHEETS
CLV DWG NO. S-51-W