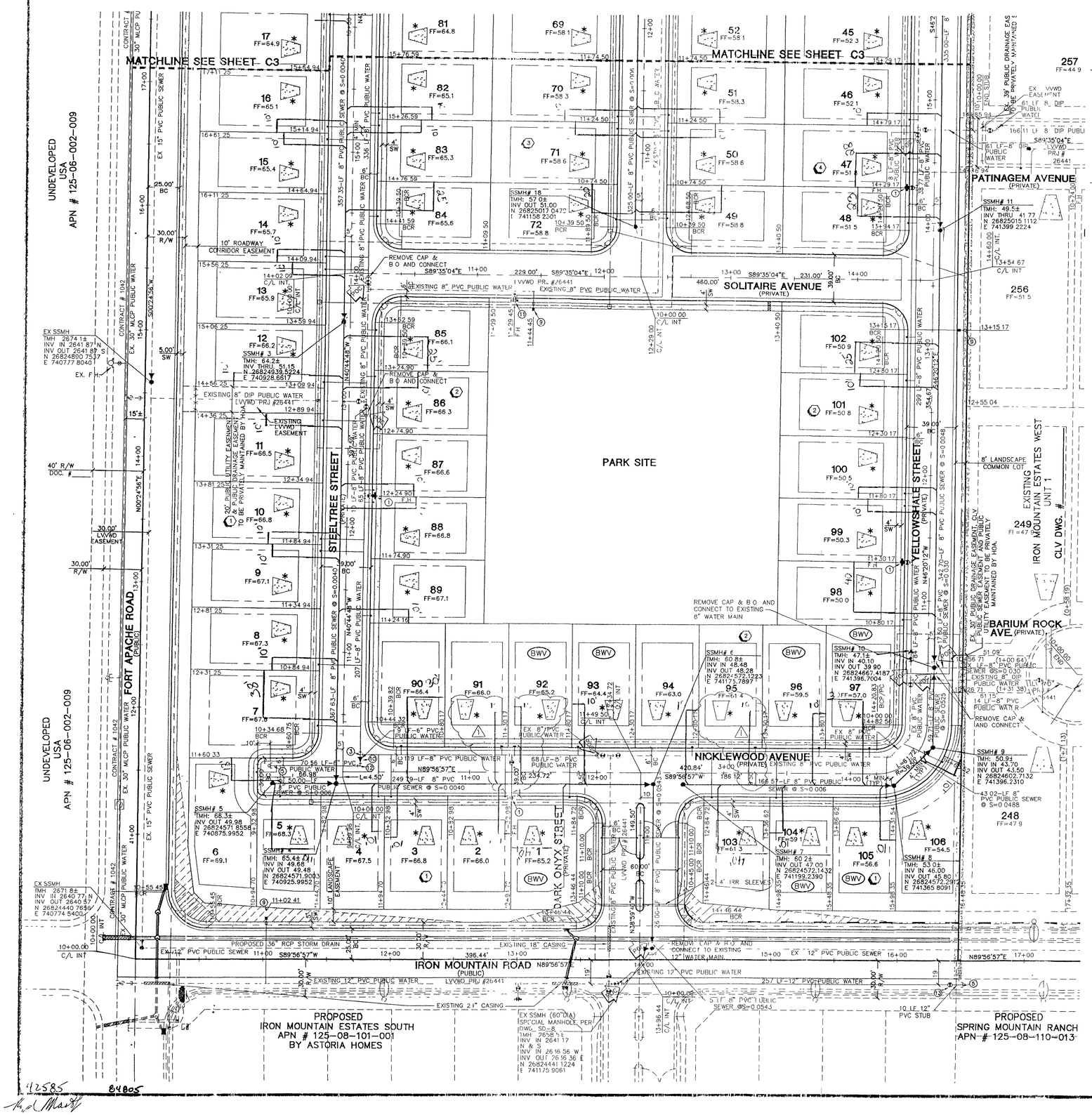
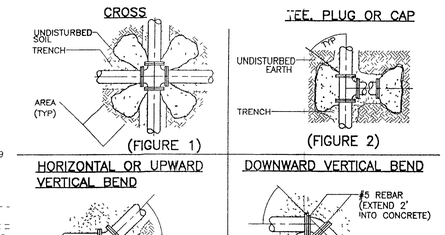
ASBUILT





N.T.S.

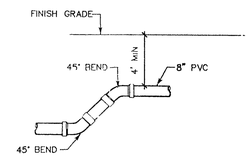
GENERAL NOTES

COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH SECTION 3. PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED IN UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN, BY A NRPE, FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

	BEARING AREA IN SQ FT						CONC/CU YDS		
PIPE ID	FIGURE 1	FIGURE 2	FIGURE 3, Δ 90°	45°	22½°	11¼°	FIGURE 4, Δ 45°	22½°	11¼°
4"	2	2	2	1	1	1	1.0	0.5	0.5
6"	2	3	4	2	1	1	1.5	1.0	0.5
8"	3	5	7	4	2	1	3.0	1.5	1.0
10"	4	8	10	6	3	2	4.5	2.5	1.5
12"	5	11	16	8	4	2	6.5	3.0	1.5

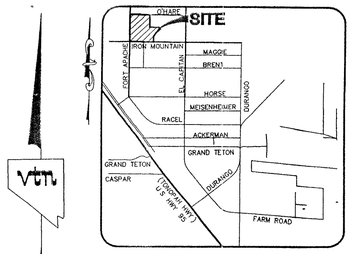
THRUST BLOCK INSTALLATION

N.T.S. USD PLATE NO. 5 PL11-1 12/10/99



45 DEGREE BEND DETAIL N.T.S

CORP STOP	JONES	J1935
AMS	JONES	J1975
GATE VALVE	MULER	A2360-06 -08



LOCATION MAP
N.T.S

GRAPHIC SCALE
40 0 20 40 80
1" = 40'

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701), DETERMINED BY CLARK COUNTY GIS CONTROL POINTS 802,803, 804, & 805, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE, IN BOOK 88 OF SURVEYS, AT PAGE 53.

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CLARK COUNTY BENCHMARK USC&GS V-169
NAVD88 ELEVATION: 791.316 METERS (2596.17 FEET)
USC&GS BRASS CAP 400 FT. SOUTH OF LOG CABIN WAY AND 100 FT. EAST OF EL CAPITAN WAY JUST EAST OF OF A BARBED WIRE FENCE.

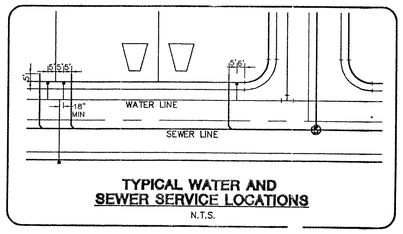
PRIVATE STREET NOTE :
PRIVATE STREETS ARE P.U.E.s CLV PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENT ARE TO BE PRIVATELY MAINTAINED.

CONTRACTOR NOTE:
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

FOR ADDITIONAL UTILITY, CONSTRUCTION NOTES, QUANTITIES AND LEGEND SEE SHEET C3

Avoid cutting underground utility lines. It's costly
Call before you **Dig**
1-800-227-2600

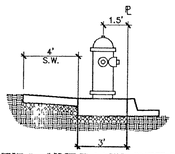
Avoid overhead power line contact. It's costly
Call before you **Overhead**
1-702-593-6111



TYPICAL WATER AND SEWER SERVICE LOCATIONS
N.T.S.

SANITARY SEWER MANHOLE SCHEDULE

SSMH #	NORTHING	EASTING	TMH	INV. IN	INV. OUT
1	26825601.8732	740933.4661	59.8±	-----	53.80 (S)
2	26825296.8584	740933.4661	62.4±	52.58 (THRU)	52.58 (THRU)
3	26824939.5224	740928.6617	64.2±	51.15 (THRU)	51.15 (THRU)
4	26824571.9003	740925.9952	65.4±	49.68 (N&W)	49.48 (E)
5	26824571.8558	740875.9952	66.3±	-----	49.98 (E)
6	26824572.1223	741175.7897	60.8±	48.48 (W)	48.28 (S)
7	26824572.1432	741199.2390	60.2±	-----	47.00 (E)
8	26824572.2912	741365.8091	53.0±	46.00 (W)	45.80 (E)
9	26824602.7132	741396.2310	50.9±	43.70 (S)	43.50 (N)
10	26824667.4187	741396.7004	47.1±	40.10 (N&S)	39.90 (E)
11	26825015.1112	741399.2224	49.5±	41.77 (THRU)	41.77 (THRU)
12	26825350.1024	741401.6523	51.2±	43.38 (THRU)	43.38 (THRU)
13	26825599.1502	741403.4588	52.4±	44.78 (N)	44.58 (S)
14	26825641.7742	741370.9720	52.2±	45.19 (W)	44.99 (E)
15	26825642.0315	741162.7635	53.7±	46.70 (S&W)	46.50 (E)
16	26825642.3639	740893.7595	61.4±	-----	54.39 (E)
17	26825342.0394	741160.5874	55.3±	49.06 (S)	48.86 (N)
18	26825017.0479	741158.2301	57.0±	-----	51.00 (S)



FIRE HYDRANT DETAIL
(PUBLIC STREET) N.T.S.

NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS.

NOTE:
SERVICE LATERALS FOR LOTS 12, 32-46, 49-72, 85,86, 94-97, 103-106 & 1" IRRIG. MTR ON IRON MTN. RD & 1" IRRIG. MTR. ON SOLITAIRE AVE. WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVVWD.

APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT — DATE 10/17/02
CLARK COUNTY FIRE MARSHAL — DATE 6/6/02
SEE SHEET #1
NEVADA POWER COMPANY — DATE

NEVADA POWER COMPANY APPROVAL IS ONLY FOR THE PLACEMENT AND CLEARANCE OF STREET LIGHT AND SIGNAL LIGHT INSTALLATION.

REV	DATE	BY	REVISION
1	10/9/02	PJP	P.E.J. DUY/SEE SHEET 1 FOR ASBUILT LOCATIONS 11/5/02

ASBUILT

ASTORIA HOMES
9555 DEL WEBB BLVD.
LAS VEGAS NEVADA, 89134
(702) 257-1188

CITY OF LAS VEGAS, NEVADA

vtn nevada CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
PH (702) 873-7550 FAX (702) 362-2597

MASTER UTILITY PLAN
IRON MOUNTAIN ESTATES WEST UNIT 2

DRAWN BY: JVL 08/15/01
DESIGNED BY:
CHECKED BY: CRG/DP 08/15/01
PROJECT NO: 5463-4
SCALE: 1" = 40' HORIZ. N/A VERT.

CHRISTOPHER R. GRUBER, CIVIL, No. 13966, STATE OF NEVADA — 5/20/02

SHEET **C4**
4 OF 23 SHEETS
DRAWING NO. 307Y-4691-2

12585
84805