

- 1) ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- 2) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, SPECIFICATIONS, AND ORDINANCES, WITH ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
- 3) CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- 4) POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- 5) ALL MANHOLES IN PAVED STREETS EIGHTY (80') FOOT R/W AND LARGER, SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- 6) TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL BE MADE BY SPECIAL PROCEDURES. IN LINE SADDLES SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- 7) A SEWER MAIN CROSSING OVER A WATER MAIN OR LATERAL SHALL BE EIGHTEEN (18') OVER A WATER MAIN, BE REINFORCED CONCRETE, ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- 8) ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- 9) THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE RECONSTRUCTED OR REMOVED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
- 10) INSTALLATION OF CURVED SEWER REQUIRES SPECIAL CONSTRUCTION PROCEDURES AND INSPECTIONS. CONTACT CITY OF LAS VEGAS CONSTRUCTION SERVICES 24 HOURS PRIOR TO INSTALLATION.

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- 1) NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWMD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO A LVWMD INSPECTION.
- 2) ALL WORK SHALL CONFORM TO LVWMD STANDARD PLANS, DRAWINGS, AND SPECIFICATIONS AND THE UNIFORM CODES AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- 3) ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE (UNIFORM STANDARD) SPECIFICATIONS FOR WATER DISTRIBUTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.
- 4) A SINGLE PIPE MATERIAL, SHALL BE USED THROUGHOUT THE PROJECT, UNLESS OTHERWISE APPROVED BY THE LVWMD.
- 5) ALL SERVICE LATERALS TWO INCHES (2") IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVWMD APPROVED SERVICE SADDLES.
- 6) ALL SERVICE WATER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- 7) ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, CURBS AND VALLEY GUTTERS.
- 8) THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY SEWER OR STORM SEWER LINE CROSS:
A. A MINIMUM EIGHTEEN (18") VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY SEWER OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACES UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE, MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
A. POTABLE WATER SUPPLY QUALITY MATERIAL
B. ENCASED WITH 4" MIN. CONCRETE (MINIMUM)
C. SLEEPING WITH POTABLE WATER SUPPLY QUALITY PIPE
- EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER ON EITHER SIDE OF THE WATER MAIN, A MINIMUM TEN FOOT (10') DISTANCE PERPENDICULAR TO THE EXTERIOR OF MAIN
- 9) WARNING TAP SHALL BE REQUIRED OVER ALL MAINS, ALL SIX INCH (6") DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PSL NO 27.
- 10) ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVWMD'S DISTRIBUTION SYSTEM.

---		HABITAT PROPERTY LINE	51D	LOT NUMBER
---		NEIGHBOR'S PROPERTY LINE	APN	ASSESSOR'S PARCEL NUMBER
---		SETBACK CENTERLINE	SS	SANITARY SEWER
---		EX CMU WALL		EXIST. FIRE HYDRANT
---		SETBACK LINE		EXIST. SS MANHOLE
---		EXIST. CONC. CURB & GUTTER		EXIST. STREET LIGHT
---		EXIST. CONC. SIDEWALK		POWER POLE
---		SEWER LINE		WATER LINE
---		EXISTING SEWER LINE		EXISTING WATER LINE
---		EXISTING GAS LINE		TALL POWER POLE
---		EXISTING TELEPHONE CABLE		FOUND AS NOTED
		SS CLEANOUT		UNDERGROUND VAULT AS NOTED
HP		HIGH POINT		PROP. WATER METER

- ① CONSTRUCT DRIVEWAY PER USD 223.
- ② TRENCH BACKFILL AND REPLACE AC PER USD 123

(IN FEET)
1 inch = 30 ft.

NOTE: CONTRACTOR TO FURNISH &
INSTALL ALL SERVICE LATERALS.

EXIST. 4" SEWER LATERALS	8 EA
4" SEWER LATERALS PER SD-17--30±	2 EA
1" COPPER WATER SERVICE LATERAL	
W/ 3/4" WATER METER PER UDACS 1B.	10 EA

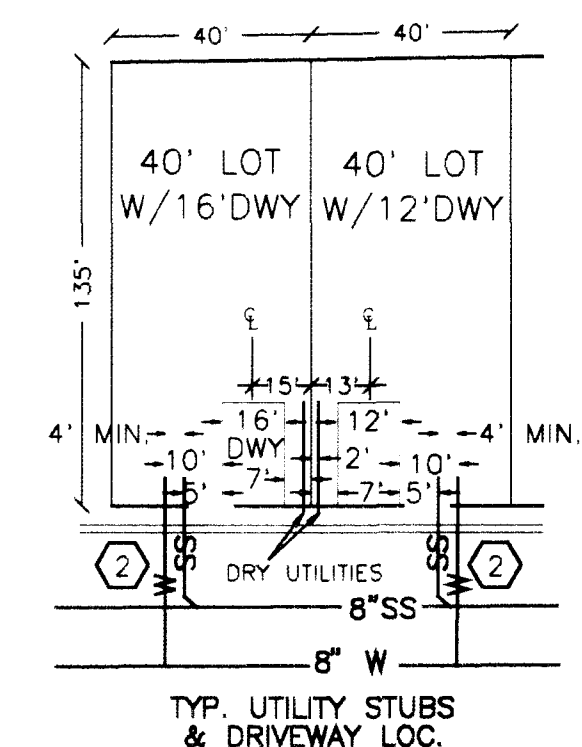
BEING N01°27'14"E, ALSO BEING THE CENTER LINE
OF CONCORD STREET, AS SHOWN ON FILE 71, PAGE 7
OF SURVEYS, OFFIAL RECORDS, CLARK COUNTY, NEVADA

LAS VEGAS VALLEY WATER DISTRICT DATE

11/24/98
DATE

NOTE: LOTS TO HAVE INDIVIDUAL 13R
RESIDENTIAL FIRE SPRINKLER SYSTEMS
FOR FIRE PROTECTION.

DOUBLE CHECK VALVE ASSEMBLY
REQUIRED ON EACH METER.



CITY OF LAS VEGAS 9-3-97

PROJECT NAME: HABITAT FOR HUMANITY
(SMP. 182)

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.

NOTE: CONTRACTOR TO POTHOLE
& VERIFY HORIZONTAL & VERTICAL
LOCATION OF EXISTING UTILITIES.

LOT NUMBERS PER
VEGAS HEIGHTS TRACT--UNIT NO
AS RECORDED IN
BOOK 1, PAGE 77 OF PLATS

NOTE: ALL STREET RIGHTS OF WAY,
SEWER AND WATER MAINS ARE PUBLIC

DOUBLE CHECK VALVE ASSEMBLY (10)---3/4"
Approved Double Check Assembly(s) [DCVA] shall be installed per the UDACS Plate 11C or 11D. No water shall be taken from a service requiring backflow prevention until the double check valve assembly has been successfully tested by the LVWD.

Any block wall or other fence material shall be designed and constructed around the outside of the easement(s), so as to allow the District direct access from the adjacent right-of-way.

Job No _____
FILE No _____
REFUSE OF DOCUMENTS _____

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF DWYER ENGINEERING, INC. AND IS NOT TO BE USED IN THE WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF DWYER ENGINEERING, INC.

APPROVED

[illegible]

STATE OF NEVADA
DAVID A. DWYER
CIVIL
NO. 7785
REGISTERED
STAMP

Dwyer Engineering, Inc.

CIVIL ENGINEERS LAND SURVEYORS
WATER RIGHTS LAND USE PLANNING

(702) 254-2200
fax: (702) 254-2236

7310 SMOKE RANCH RD., SUITE E
LAS VEGAS, NEVADA 89128

HORIZONTAL CONTROL AND UTILITY PLAN

HABITAT FOR HUMANITY
IMPROVEMENT DRAWINGS

HASSELL AVE

APN's 139-21-610-302, 303, 304, 305, 311, 312, 316, 317, 318

LAS VEGAS, NV

JOB No	98046
DATE	11-17-98
VERT SCALE	
HORIZ SCALE	1"=30'
DRAWN BY	ELB
CHECKED BY	PJ/DAD
SHEET	
2 OF 3	

FILE NO 107-V3002

