

NOTE:  
ALL TOPOGRAPHICAL INFORMATION WAS SUPPLIED BY THE OWNER, BASED ON  
SURVEYS PERFORMED BY HEDRANK AND ASSOCIATES DATED 9-5-85, AND 1-7-88.

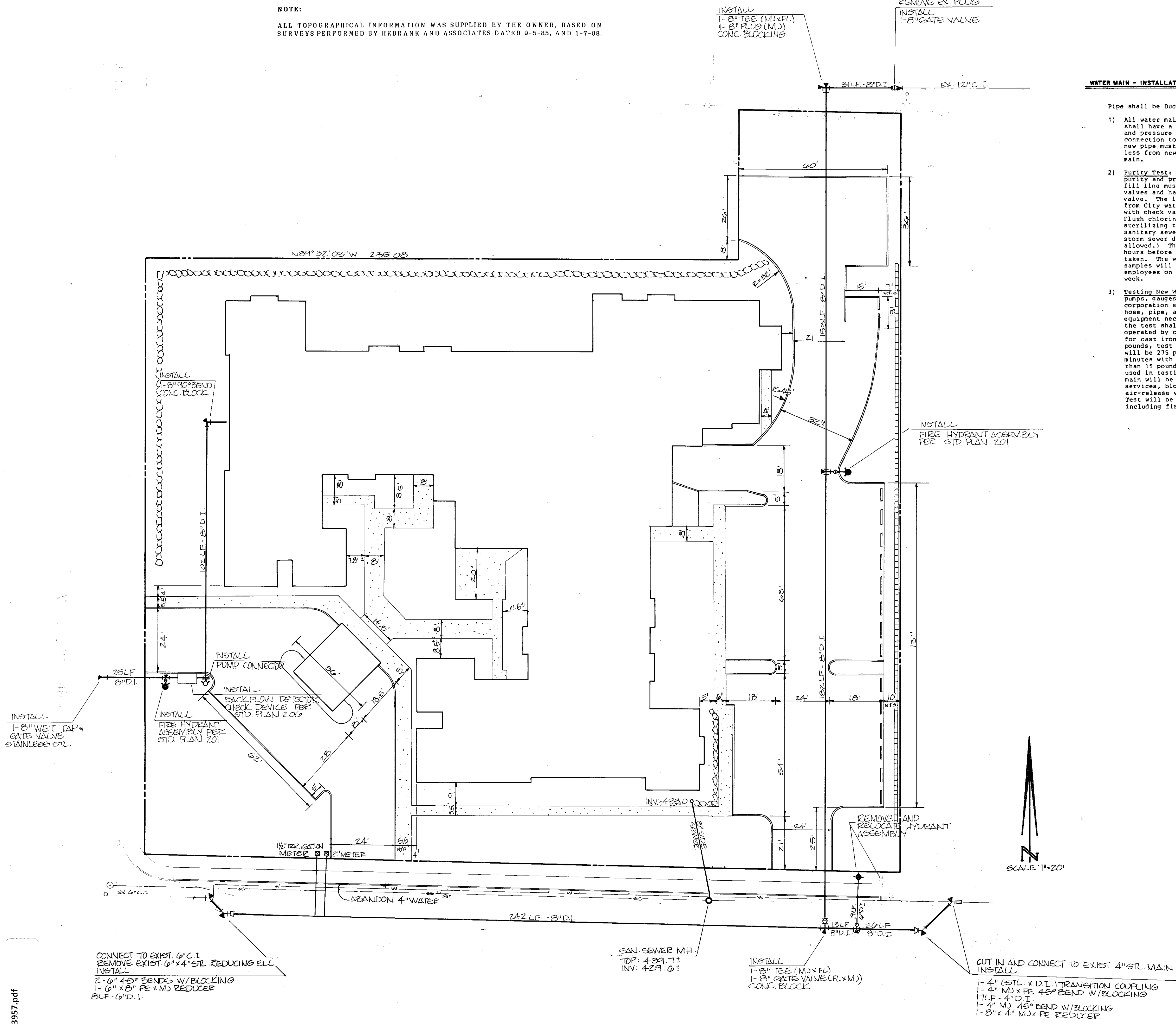
WATER GENERAL NOTES

1. All work and materials shall be in accordance with the "Standard Specifications for Road, Bridge, and Municipal Construction," Washington State Department of Transportation and American Public Works Association, Washington State Chapter, 1988 edition. Together with the latest edition of the City of Mountlake Terrace Engineering Standards.
2. An approved copy of these plans must be on site whenever construction is in progress.
3. It shall be the sole responsibility of the contractor to obtain street use and any other related permits prior to any construction activity in City right-of-way.
4. Prior to any construction activity, the City of Mountlake Terrace Engineering Department (776-1161) must be contacted for a preconstruction meeting.
5. All locations of existing utilities shown hereon have been established by field survey or obtained from available records and should therefore be considered approximate only and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations shown, and to further discover and avoid any other utilities not shown hereon which may be affected by the implementation of this plan. The contractor shall contact the utilities underground location service (1-800-424-5555) prior to construction. The Owner or his representative shall be immediately contacted if a utility conflict exists.
6. The water main distribution system shall be constructed according to the approved plans which are on file in the City of Mountlake Terrace Engineering Department. Any deviation from the approved plans will require written approval from the proper agency.
7. Connections to existing facilities shall be sealed off until construction is completed. No connections will be allowed until the new water mains have passed all pressure and purity tests.
8. Water main Pipe, Bedding, and Trench Compaction:
  - A. All water main pipe to be cement lined, Class 52 ductile iron, conforming to A.N.S.I. specifications A-21.51 (A.W.W.A. C151-76), or latest revision. Cement mortar lining and seal coating shall conform to A.N.S.I. A-21.4-74 (A.W.W.A. C104-74), or latest revision.
  - B. Pipe joints to be push-on, mechanical or flange joints.
  - C. All water main pipe fittings to be cement lined, Class 250 cast iron, conforming to A.N.S.I. A-21.10 and A-021.11-77, or latest revision.
  - D. All water main pipe bedding to be A.P.W.A. Class 'C'.
  - E. All water main concrete thrust blocks to conform to standard details shown on the plans.
  - F. All water main trench backfill shall be compacted to minimum 92% dry optimum density per A.S.T.M. D-1557-70 (modified Proctor) prior to testing water mains for acceptance.
9. All water main pipe 10" and smaller to maintain a minimum cover at 36 inches below finished grade. Where utility conflicts occur, water mains are to be lowered to clear.
10. All water mains shall be pressure tested and disinfected in accordance with the specifications of the Washington State Health Department and City of Mountlake Terrace Standard Plan No. 208. All inspection and pressure testing shall be done in the presence of, and under the supervision of, the City Engineer and/or his representative.
11. Contractor to provide plugs and/or temporary blow-off assemblies for testing and purity acceptance prior to final tie in.
12. Fire Hydrants:
  - A. All fire hydrants shall conform to the City of Mountlake Terrace Standard Plan No. 201.
  - B. All fire hydrant ports shall face perpendicular to curb and toward driveway as shown on the plans.
13. Water Main Services:
  - A. All water main service lines to be type "K" copper. Service connections shall be in accordance with City of Mountlake Terrace Standard Plan No. 202 or No. 203 (double straps and corporation stops.)
  - B. Meters and meter boxes to be installed by The City of Mountlake Terrace.
14. The water main to be set a minimum of 5 feet toward the roadway centerline from the curb. Buildings shall not be permitted within 10 feet, or carports within 5 feet, of the spring line of any water main where applicable, unless otherwise shown on the plans.
15. All water mains not in public right-of-way require 10 foot wide easements to the City of Mountlake Terrace.
16. All valves, existing and new, shall be operated only by the City of Mountlake Terrace. NO EXCEPTIONS!

WATER MAIN - INSTALLATION - STERILIZATION - TESTING

Pipe shall be Ductile Iron Class 52.

- 1) All water mains and appurtenances shall have a positive purity test and pressure test prior to connection to existing mains. The new pipe must be kept 18 feet or less from new valve or existing main.
- 2) Purity Test: To fill new line for purity and pressure testing, the fill line must have two check valves and hand operated gate valve. The line is to be filled from City water supply using pipe with check valves installed. Flush chlorinated water used for sterilizing the lines into sanitary sewer. (No on-ground or storm sewer disposal will be allowed.) The line must set 24 hours before water samples will be taken. The water purity test samples will be taken by City employees on Tuesday morning each week.
- 3) Testing New Water Line: All pumps, gauges, plugs, saddles, corporation stops, miscellaneous hose, pipe, and measuring equipment necessary for performing the test shall be furnished and operated by contractor. The test for cast iron pipe will be 300 pounds, test for ductile iron pipe will be 275 pounds, each for 15 minutes with a loss of not more than 15 pounds. Chlorine must be used in testing water. The new main will be tested with all services, blow-offs, and air-release valves installed. Test will be made on all valves including fire hydrant valves.



APPROVED FOR CONSTRUCTION  
CITY OF MOUNTLAKE TERRACE  
*Joel R. Buchanan* Date 3/10/88

*Kevin R. Collins*  
1-25-88

MOUNTLAKE PLAZA RETIREMENT CENTER GENCOR, INC.		
WATER & SEWER PLAN		
COLLINS & ASSOCIATES		
P.O. BOX 2332, REDMOND, WA., 98073 (206) 885-0102		
DRAWN JAZ	DATE JAN 28, 1988	PAGE 5 OF 5
CHECKED	SCALE 1"=20'	JOB NO. 1074
LOCATION SECTION 38, TWP. 27N., R. 4E., W.M.		

SITE DIMENSIONS SHOWN ARE FROM INFORMATION PROVIDED BY ARCHITECT.  
BUILDING LOCATION AND SIZE TO BE DETERMINED PER ARCHITECTURAL PLANS.

NOTE: CITY FORCES TO TRANSFER EXIST. WATER SERVICES TO NEW 8" MAIN AFTER PASSING ALL TEST.

REV #1 PER M.L.T. 2-29-88 JAZ

152-88-5