MOUNTLAKE TERRACE WATER GENERAL NOTES

- 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, CURRENT EDITION. TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
- 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.
- PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (425-776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
- 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.
- THE WATER MAIN DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED PLANS WHICH ARE ON FILE ON THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE PROPER AGENCY.
- 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
- 8. WATER MAIN PIPE, BEDDING AND TRENCH COMPACTION:
- A. ALL WATER MAIN PIPE TO BE CEMENT LINED, CLASS 52 DUCTILE IRON, CONFORMING TO STANDARD SPECIFICATIONS 9-30.1(1). CEMENT MORTAR LINING AND SEAL COATING SHALL CONFORM TO ANSI/AWWA C110/A21.10-82, OR LATEST REVISION.
- B. PIPE JOINTS TO BE PUSH-ON, MECHANICAL OR FLANGE JOINTS.
- ALL WATER MAIN PIPE FITTINGS TO BE CEMENT LINED, CLASS 250 CAST IRON, CONFORMING TO ANSI/AWWA C110/A21.10-82, OR LATEST REVISION.
- D. PIPE BEDDING SHALL CONFORM TO SECTION 7-10.3(9)A, AND PIPE BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.15, STANDARD SPECIFICATIONS.
- E. ALL WATER MAIN CEMENT CONCRETE THRUST BLOCKS TO CONFORM TO STANDARD DETAILS SHOWN ON THE PLANS.
- F. ALL WATER MAIN TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM 95% DRY OPTIMUM DENSITY PER A.S.T.M. D-1557-70 (MODIFIED PROCTOR) PRIOR TO TESTING WATER MAINS FOR
- MAINTAIN A MINIMUM COVER OF 36" OVER FINISHED GRADE ON ALL WATER MAIN PIPE. WHERE UTILITY CONFLICTS OCCUR, OTHER THAN SANITARY SEWER, WATER MAINS ARE TO BE LOWERED TO CLEAR. SEE "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY FOR SEWER CONFLICTS.
- 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. 209 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
- ALL GATE VALVES TO BE RESILIENT SEATED AND SHALL BE MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF A.W.W.A. STANDARD C-509, OR LATEST REVISION.
- 13. 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.
- A. ALL WATER MAIN SERVICE LINES TO BE TYPE "K" COPPER. SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH CITY
- (DOUBLE STRAPS AND CORPORATION STOPS). B. WATER METERS 2" AND SMALLER TO BE SUPPLIED AND INSTALLED

OF MOUNTLAKE TERRACE STANDARD PLAN NO. 202 OR NO. 203

THE WATER MAIN SHALL 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

BY THE CITY OF MOUNTLAKE TERRACE.

OTHERWISE SHOWN ON THE PLANS.

- ALL WATER MAINS NOT IN PUBLIC RIGHT-OF-WAY REQUIRE 10 FOOT WIDE EASEMENTS TO THE CITY OF MOUNTLAKE TERRACE.
- ALL VALVES, EXISTING AND NEW, SHALL BE OPERATED ONLY BY THE CITY OF MOUNTLAKE TERRACE. NO EXCEPTIONS!
- A STATE APPROVED BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON ALL IRRIGATION SYSTEMS, FIRE SYSTEMS, INDUSTRIAL WATER SYSTEMS, AND ANY OTHER WATER CONNECTION THAT MAY HAVE A POSSIBILITY OF A CROSS CONTAMINATION CONNECTION AS DETERMINED BY A CERTIFIED CROSS CONNECTION TECHNICIAN.
- CONSTRUCTION OF DEWATERING SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 7-11.3(1).
- AN AS-BUILT WATER PLAN SHALL BE SUBMITTED FOR ALL DEVELOPMENTS, SHORT PLATS AND SUBDIVISIONS.
- ALL TAPPING SLEEVES SHALL BE CAST IRON MJ OR AS DESIGNATED BY THE CITY ENGINEER.

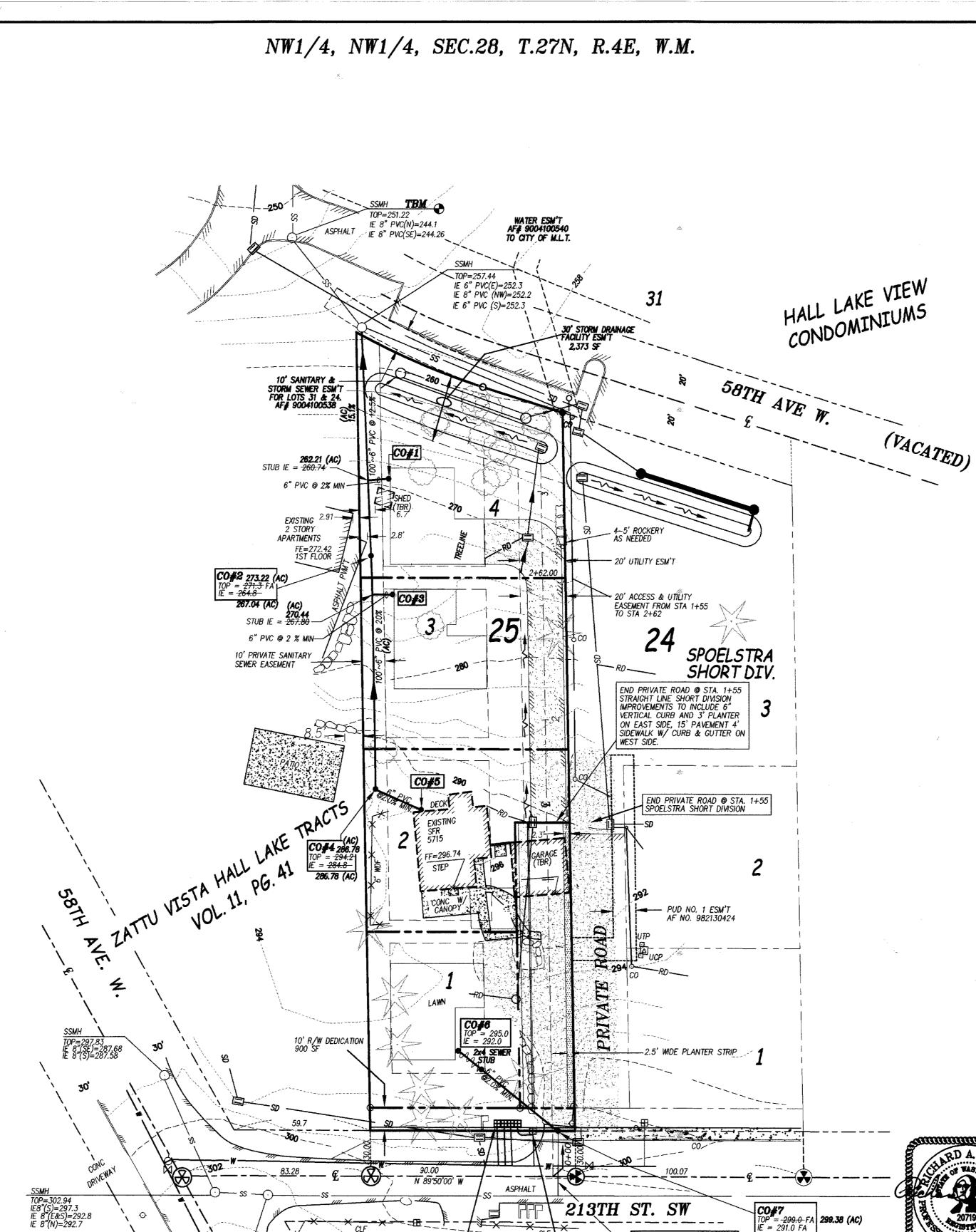
MOUNTLAKE TERRACE SANITARY SEWER GENERAL NOTES

- 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, CURRENT EDITION, TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
- 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 (425-776-1161) 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.
- THE SANITARY SEWER 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. ALL NEW SANITARY SEWER LINES SHALL BE SEALED OFF AT THE EXISTING TRUNK CONNECTION POINT UNTIL ALL UPSTREAM CONSTRUCTION IS COMPLETED, CLEANED, TESTED, LAMPED, AND ACCEPTED BY THE CITY OF MOUNTLAKE TERRACE. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED FROM PIPE PRIOR TO OPENING SEAL. AT THE END OF THE PROJECT AND PRIOR TO ACCEPTANCE, ALL SANITARY SEWER LINES SHALL BE INSPECTED BY TV VIEWING, RECORDED ON VHS VIDEO TAPE, AND SUBMITTED TO THE CITY AS A PERMANENT RECORD.
- 8. MANHOLE AND LIDS:
 - A. ALL MANHOLES SHALL BE MOUNTLAKE TERRACE STANDARD PLAN NO. 305 (TYP.) TYPE, WITH ECCENTRIC CONE.
 - B. OUTSIDE DROP CONNECTIONS SHALL BE CONSTRUCTED IN CONFORMANCE TO MOUNTLAKE TERRACE STANDARD PLAN NO. 308.
- C. ALL MANHOLES SHALL HAVE A MINIMUM DROP OF 0.10 FEET BETWEEN
- D. ALL MANHOLES NOT IN PAVED AREAS SHALL HAVE LOCKING LIDS.
- E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST ALL MANHOLE TOPS TO MATCH FINAL ASPHALT ELEVATIONS AND GROUND ELEVATIONS IN LANDSCAPED AREAS.
- F. ALL MANHOLES IN UNPAVED AREAS SHALL HAVE CONCRETE COLLARS PER M.L.T. STD. PLAN #306.
- SEWER PIPE, BEDDING, AND TRENCH COMPACTION:
- A. ALL SEWER PIPE SHALL BE ONE OF THE FOLLOWING:
- 1. P.V.C., CONFORMING WITH A.S.T.M. D-3034, SDR 35.
- 2. DUCTILE IRON, CLASS 50, CONFORMING TO A.W.W.A. C151.
- 3. PIPE MAY BE ANY OF THE ABOVE PROVIDED:
 - MATERIALS AND BE PROVIDED WITH RUBBER GASKET

B) WHERE A PIPE MATERIAL IS SPECIFICALLY SHOWN ON

A) ADJOINING PIPE LENGTHS MUST BE OF THE SAME

- THE PLAN, THAT MATERIAL MUST BE USED.
- B. PIPE BEDDING SHALL CONFORM TO SECTION 7-17.3(1)B, STANDARD SPECIFICATIONS. BEDDING MATERIAL SHALL CONFORM TO SECTION
- C. TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM 95% DRY OPTIMUM DENSITY PER A.S.T.M. D-1557-70 (MODIFIED PROCTOR) PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
- 10. SIDE SEWER LATERALS:
- A. SIDE SEWERS SHALL BE 6" MINIMUM DIAMETER WITH 1.0% MINIMUM
- B. SIDE SEWERS SHALL BE TESTED FOR LEAKAGE AT THE SAME TIME THE MAIN LINE SEWER IS TESTED. IF NOT TESTED TOGETHER, PROVIDE TEST TEES AT SEWER CONNECTIONS.
- C. BUILDINGS WITH GREATER THAN 10 UNITS SHALL BE SERVICED BY ONE OF THE FOLLOWING METHODS:
- 1. SINGLE 8" DIAMETER SERVICE WITH CLEANOUT CONNECTED TO TRUNK INTO MANHOLES ONLY
- 2. ALTERNATE CONNECTION METHODS IN COMPLIANCE WITH "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY.
- D. ALL LATERAL CONNECTIONS TO SEWER MAINS SHALL BE MADE WITH A WYE OR SWEEPING TEE. WHERE NO TEE, WYE, OR RISER IS AVAILABLE, USE AN APPROVED SADDLE FOR SEWER CONNECTION.
- E. CLEANOUTS MUST BE PROVIDED AT THE RIGHT-OF-WAY LINE FOR LATERALS EXTENDING FROM CITY OWNED MAINS. ALL CLEANOUTS MUST BE BROUGHT TO THE SURFACE IN ACCORDANCE WITH
- 11. CONSTRUCTION OF DEWATERING SYSTEMS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 7-17.3(1)A.
- 12. WHENEVER SEWERS MUST CROSS UNDER WATER MAIN THE SEWER SHALL BE LAID AS SPECIFIED IN "CRITERIA FOR SEWAGE DESIGN", WASHINGTON STATE DEPARTMENT OF ECOLOGY.
- 13. BUILDINGS SHALL NOT BE PERMITTED WITHIN 10 FEET, OR CARPORTS WITHIN 5 FEET, OF THE SPRING LINE OF ANY SANITARY SEWER MAIN. SIDE SEWERS 6" DIAMETER OR LESS MAY BE LOCATED WITHIN 30" OF A STRUCTURE PROVIDED THAT THE SOIL SUPPORT PRISM IS NOT DISTURBED FOR THE ADJACENT FOUNDATION.
- 14. PRIOR TO OCCUPANCY, THE DEVELOPER SHALL GRANT NECESSARY SANITARY SEWER EASEMENTS TO THE CITY OF MOUNTLAKE TERRACE. THE WIDTH SHALL EQUAL THE NOMINAL DEPTH TO THE INVERT, BUT SHALL NOT BE LESS THAN 10'.
- 15. AN AS BUILT SANITARY SEWER DRAWING SHALL BE SUBMITTED FOR ALL DEVELOPMENTS, SHORT PLATS AND SUBDIVISIONS.
- 16. ALL SEWERS SHALL BE DESIGNED AND CONSTRUCTED TO GIVE MEAN VELOCITIES, WHEN FLOWING FULL, OF NOT LESS THAN 2 FEET PER SECOND.
- 17. SAND COLLARS OR OTHER CITY APPROVED COUPLINGS ARE REQUIRED ON ALL PVC PIPE CONNECTIONS TO CONCRETE MANHOLES.



WATER SERVICE

METERS. EXTEND

TO LOTS 3 & 4

. 3/4" WATER SERVICE METERS FOR LOTS 1,3 & 4

REFER TO SECTION 2-WATER AND SECTION 3-SEWER IN

THE MOUNTLAKE TERRACE ENGINEERING STANDARDS FOR

STANDARD PLANS AND ADDITIONAL INFORMATION.

EXTEND 1" LINES TO LOTS 1, 3 & 4

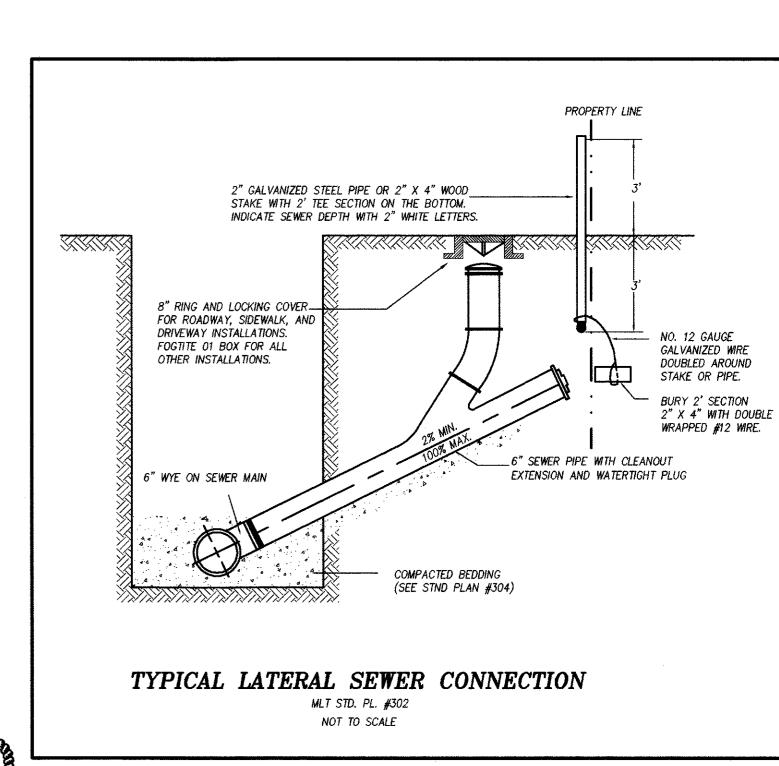
MLT STD. PLAN #202.

METER FOR LOT 2

CATHILL VISTA

VOL.20, PG.104

NOTE:



08/18/00

01/13/00

6/24/99

5/17/99

3/12/99

DATE

BRK

BRK

MNB

BRK

Engineers, 356-2700

INITIALS

B.M. CITY OF MLT #212=28, TOP OF N. RIM M/C AT

INTX OF 212TH & 52ND AVE. W.

T.B.M. TOP OF SSMH ALONG S. CURB AT ENTRANCE TO

CITY DATUM ELEV. = 382.13

HALL LAKE VIEW CONDOMINIUM OFF OF 58TH AVE.W. PLAN ELEV. = 251.22

THESE PLANS ARE AS-BUILT AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: 08-18-00

LEGEND

----W---- WATER LINE

EXIST. CASED 4" x 4"
CONCRETE MON W/BRASS

DISK STAMPED "WSI 16916"

MON. W/ BRASS DISK STAMPED "WSI 16916"

STORM CATCH BASIN

POWER POLE

GUY POLE

WATER METER

WATER VALVE

FIRE HYDRANT

POWER LINE

STORM DRAIN MANHOLE

SANITARY SEWER MANHOLE

SANITARY SEWER CLEAN OUT

SET CASED 4" x 4" CONCRETE

APPLICANT: JIM A. WALVATNE STRAIGHT LINE CONSTRUCTION

SEATTLE, WA 98155 6261 NE 184TH ST. SEATTLE, WA 98155 (425) 486-0379

PRIMARY CONTACT: BRIAN KALAB

SITE ADDRESS: 5715 213TH ST. SW MOUNTLAKE TERRACE, WA.

OWNER:

JIM A. WALVATNE

6261 NE 184TH ST.

WESTERN SURVEYORS, INC. (425) 356-2700 SP# 99-01

SEWER & WATER PLAN

STRAIGHT LINE CONSTRUCTION AS-CONSTRUCTED NW 1/4, NW 1/4, SEC.28, T.27N., R.4E., W.M.

DWN. BY DATE REV. BY DATE PROJECT MANAGER MNB 11/16/98 19 MNB 11/16/00 D.L. BRESKE PRAWING FILENAME | F.B. NO. | CHK. BY JOB NO. | 98-068-A | 4 of 4 | *** 13000 HWY 99 SOUTH * EVERETT * WA * 98204 *** 98068SW-AC.DWG 336 INIT

PAVEMENT TO BE REPLACED AS PER MLT. STD. PLAN #107 FOR ALL WATER SERVICE TAPS. REV. NO. | DESCRIPTION THESE DRAWINGS REFLECT FIELD MEASUREMENTS MADE AFTER COMPLETION OF CONSTRUCTION ENGINEER OF RECORD - SIGNATURE

CONTRACTOR TO TAP MAIN, PROVIDE LINES & MATERIALS

ETC. PER MLT. STD. PLAN #202.

TYPE OR PRINT NAME

EXISTING 6" PVC SANITARY

PROVIDED BY JIM WALVATNE

SEWER STUB 8' DEEP

LOCATION AND DEPTH

TO SERVE LOT 1

EXPIRES 8/1/01

AS-CONSTRUCTED

FOR AS-CONSTRUCTED ONLY

REVISIONS PER CITY 1ST REVIEW

MODIFICATIONS TO DRIVE WAY ON LOT 4

MODIFICATIONS TO SEWER AS PER CITY

MODIFICATIONS TO PLAT ROAD AS PER CITY

LAND USE CONSULTANTS CIVIL ENGINEERS . LAND SURVEYORS EXPIRES 11/5/2001

Western