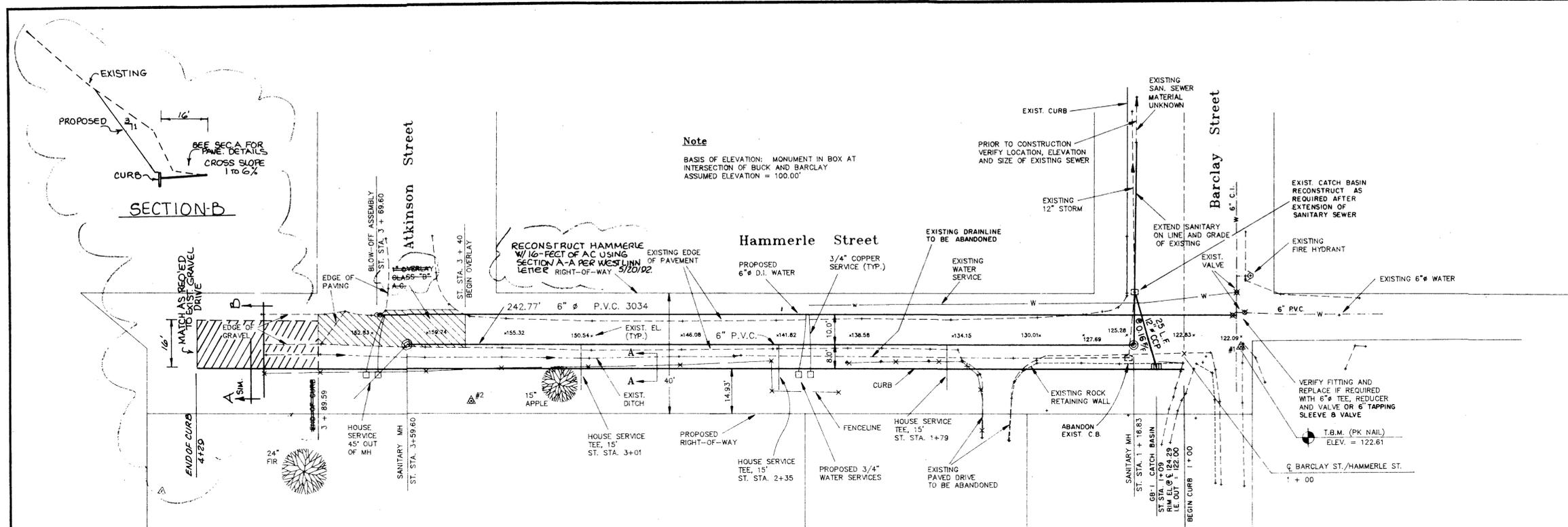


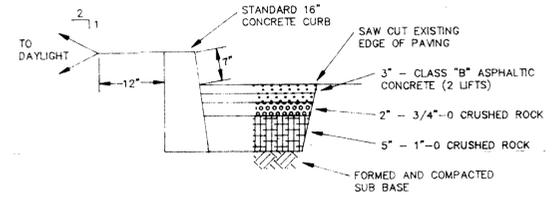


Vicinity Map  
n. t. s.



**Note**  
BASIS OF ELEVATION: MONUMENT IN BOX AT INTERSECTION OF BUCK AND BARCLAY ASSUMED ELEVATION = 100.00'

SECTION B



Pavement Detail A - A  
n. t. s.



PLAN

Scale: 1" = 20'

**APPROVED FOR CONSTRUCTION BY**  
CITY OF WEST LINN  
DATE 6-9-92 BY *David Monson*

**GENERAL NOTES**

- \* ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN SPECIFICATIONS, THE APWA (OREGON CHAPTER) STANDARD SPECIFICATIONS AND DRAWINGS (1990), THE STATE OF OREGON PLUMBING CODE, THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY, THE OREGON DEPARTMENT OF HUMAN RESOURCES, AND AS APPROVED AND NOTED ON THESE DRAWINGS.
- \* CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- \* CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- \* EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- \* ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY BECOME APPARENT.
- \* THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.

**STREET CONSTRUCTION AND PAVING**

- \* CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, ROOTS, BRUSH, AND OTHER ORGANIC MATERIAL IN THE WORK AREA AND WHERE INDICATED ON THE PLANS. THESE MATERIALS SHALL BE DISPOSED OF, OFF SITE, IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.
- \* CONTRACTOR SHALL PROVIDE THE NECESSARY EROSION PROTECTION, TO INCLUDE GRADING, DITCHING, HAY BALES, AND SILT FENCING TO MINIMIZE EROSION AND ADJACENT PROPERTY.
- \* THE STREET SECTION SHALL BE GRADED TO THE ELEVATIONS SHOWN ON THE DRAWINGS WITH THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE FINISHED PAVEMENT AS SPECIFIED.
- \* MATERIAL IN SOFT SPOTS WITHIN THE PAVED AREAS SHALL BE REMOVED TO A DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH PIT RUN CRUSHED ROCK. THE SUBGRADE SHALL BE "PROOF ROLLED", WITNESSED BY THE ENGINEER AND/OR THE CITY PRIOR TO PLACEMENT OF BASE ROCK. ADDITIONALLY, COMPACTION TESTING IS REQUIRED FOR THE FINISHED BASE ROCK. THE CONTRACTOR TO PROVIDE AND SHALL BE RESPONSIBLE FOR SUPPLYING THE RESULTS OF A MINIMUM TWO TESTS TO THE ENGINEER PRIOR TO PAVING. COMPACTION TO BE 95% OF MODIFIED PROCTOR DENSITY (T-190).
- \* CONTRACTOR TO NOTIFY CITY OF WEST LINN, AND THE ENGINEER, 24-HOURS PRIOR TO STARTING CONSTRUCTION ON WORK TO BE ACCEPTED BY THE CITY.
- \* ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED THE OREGON STATE HIGHWAY FOR MATERIALS USED. CONTRACTOR TO PROVIDE DENSITY TESTING RESULTS FOR ASPHALTIC CONCRETE PLACED IN PUBLIC STREETS.
- \* CONCRETE SHALL BE MIXED BASED ON A FORMULA WHICH WILL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000psi IN 28-DAYS.

**STORM SEWER**

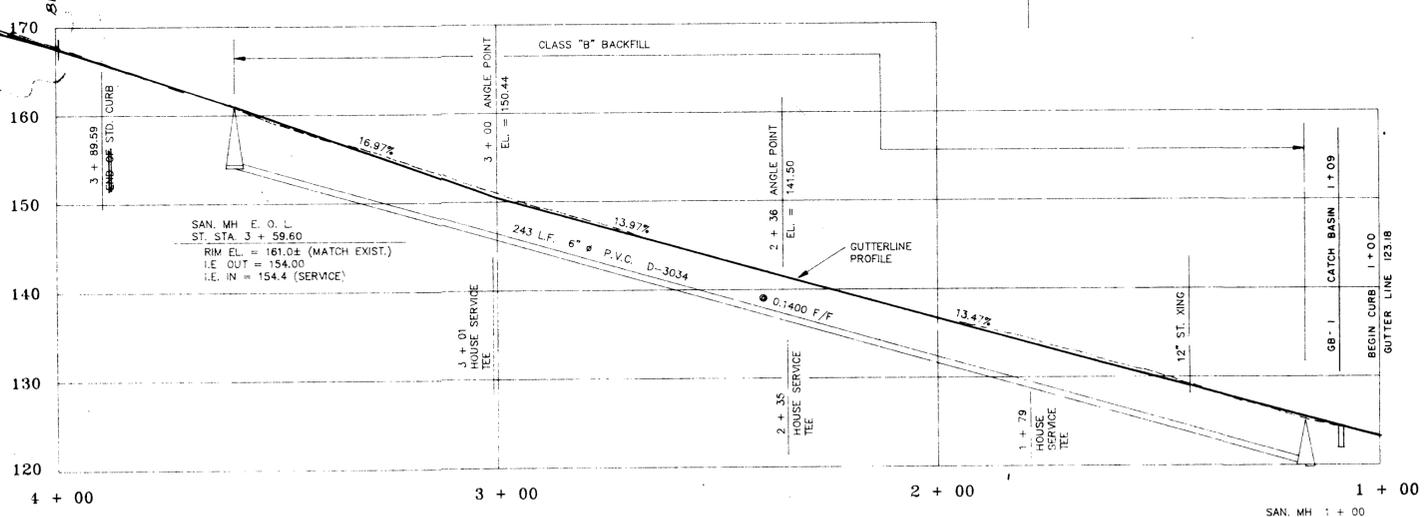
- \* MATERIALS:  
MATERIALS USED FOR PUBLIC IMPROVEMENTS TO MEET THE REQUIREMENTS OF THE CITY OF WEST LINN. CONCRETE CULVERT PIPE (CCP) SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 14, CLASS 3. NONREINFORCED CONCRETE PIPE POLYVINYL CHLORIDE PIPE (PVC) SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 3034 SDR 35. DUCTILE IRON PIPE (DI) SHALL BE CLASS 52, PUSH-ON JOINT PIPE MEETING STANDARDS ASA STANDARD A-21.4.
- \* PIPE BEDDING AND TRENCH BACKFILL WITHIN PAVED AREAS TO BE 3/4"-0" CRUSHED ROCK. PIPE BEDDING TO EXTEND A MINIMUM OF 6-INCHES IN ALL DIRECTIONS FROM THE OUTSIDE OF THE PIPE.

**SANITARY SEWER**

- \* ALL WORK AND MATERIALS TO CONFORM WITH THE CITY OF WEST LINN STANDARDS (1990, APWA, OREGON CHAPTER, STANDARD SPECIFICATIONS AND DRAWINGS) FOR ALL PUBLIC SANITARY SEWER LINES.
- \* CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- \* ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
- \* CONTRACTOR TO "POT HOLE" EXISTING SEWER AT CONNECTION POINT PRIOR TO ACTUAL CONSTRUCTION TO VERIFY INVERT ELEVATION.
- \* ALL PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR 35, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PVC SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. PVC SEWER PIPE SHALL BE CONNECTED TO CONCRETE MANHOLES BY MEANS OF AN APPROVED COUPLING WITH AN ELASTOMERIC GASKET, AN APPROVED WATERSTOP OR FLEXIBLE SLEEVE. IN ADDITION TO HYDROSTATIC OR AIR TIGHTNESS, SANITARY SEWER CONSTRUCTED OF PVC SEWER PIPE SHALL BE DEFLECTION TESTED NO LESS THAN 30-DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING AN APPROVED SOLID POINTED MANDREL (80% OF INSIDE DIAMETER) THROUGH THE COMPLETED PIPE LINE.
- \* CONTRACTOR SHALL CONDUCT A TV ACCEPTANCE INSPECTION UPON COMPLETION OF ALL SEWER CONSTRUCTION.
- \* ALL PRIVATE SERVICE CONNECTIONS SHALL BE A MINIMUM OF 4-INCH PVC AND INSTALLED AT A MINIMUM GRADE OF 2% UNLESS OTHERWISE NOTED.
- \* PIPE BEDDING AND BACKFILL SHALL CONFORM TO THE APWA STANDARD DETAILS AND AS NOTED ON THE PLANS.
- \* TRENCHES WITHIN THE ROADWAY OF DRIVEWAYS SHALL BE BACKFILLED WITH GRANULAR MATERIAL. COMPACTION SHALL BE SUFFICIENT TO PREVENT SETTLEMENT. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT, METHOD AND EFFORT REQUIRED TO ACHIEVE REQUIRED COMPACTION. SUBSEQUENT SETTLEMENT OF THE FINISH SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- \* CONTRACTOR SHALL MAINTAIN AS-CONSTRUCTED DATA INCLUDING STATION, LENGTH, AND DEPTH OF SERVICE CONNECTION, AND ANY CHANGES MADE DURING CONSTRUCTION.

**WATER SYSTEM NOTES**

- \* ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF WEST LINN STANDARDS AND SPECIFICATIONS, THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES CHAPTER 38 AND APWA STANDARDS.
- \* ALL PIPE TO HAVE A MINIMUM COVER OF 36-INCHES BELOW THE FUTURE FINISH GRADES.
- \* DUCTILE IRON PIPE TO BE TYTON JOINT CEMENT MORTAR LINED, CLASS 52, AND SHALL CONFORM TO ASTM C-110, C-150, AND C-151.
- \* GATE VALVES TO BE DOUBLE DISK TYPE CONFORMING TO AMWA C-500, WITH RESILIENT SEATS PER AMWA C-508-80. VALVE BOXES TO BE CAST IRON, RICH MODEL 925 OR EQUAL.
- \* COPPER TUBING SHALL BE TYPE K SOWF FOR 1-INCH OR LESS SERVICES.
- \* THRUST BLOCKING: ALL TEES, FLANGES, CAPS, BENDS, AND AT ALL OTHER LOCATIONS WHERE UNBALANCED FORCES EXIST SHALL REQUIRE SUITABLE THRUST BLOCKING CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH AND SHALL HAVE A STRENGTH AT 28-DAYS OF 3000psi.
- \* HYDROSTATIC TESTS: THE TEST PRESSURE SHALL BE 150psi AT THE LOWEST POINT IN ANY SECTION. THE DURATION SHALL BE 30-MINUTES AND SHALL BE MONITORED BY THE ENGINEER OR THE CITY OF WEST LINN.
- \* STERILIZATION: PIPELINES INTENDED TO CARRY POTABLE WATER SHALL BE FLUSHED AND STERILIZED BEFORE PLACED INTO SERVICE. STERILIZING PROCEDURE SHALL CONFORM TO AMWA C-401 OR AS MODIFIED OR EXPANDED BY GOVERNING AGENCY HAVING JURISDICTION.
- \* DISPOSAL OF THE STERILIZATION WATER SHALL BE DONE IN SUCH A WAY AS TO NOT CAUSE DAMAGE OR INJURY.



Profile

Scale: 1" = 20' Hor., 1" = 10' Vert.

DATE	NO.	REVISION
5/29/92	1	REVISE PER CITY - ADD 40' CURB

**COMPASS CORPORATION**  
ENGINEERING SURVEYING PLANNING  
8564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222 (503) 222-4862 (503) 653-9983

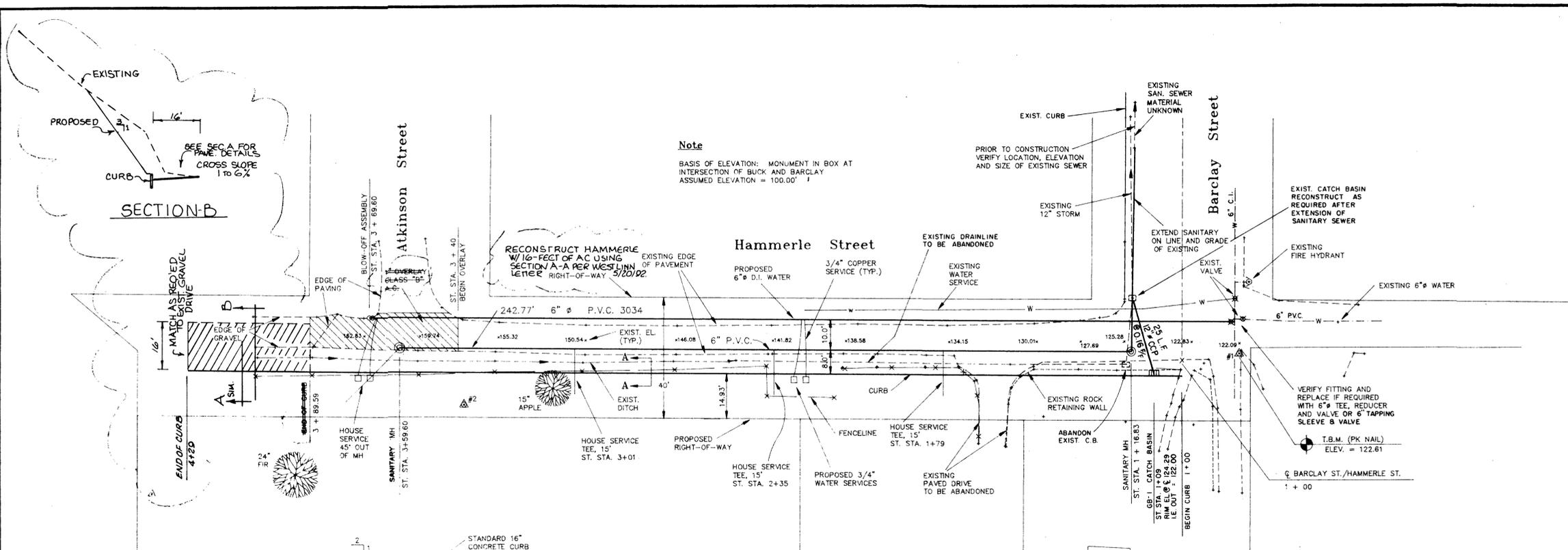
Mr. Tom Cardoso  
15490 S. W. Deline  
Beaverton, Oregon 97007  
Phone: 503-641-2647

Hammerle Street Improvements JUN 9 1992  
For Tax Lot 1000 2 - 1E - 25AC  
West Linn File MIP-90-02 and MISC-91-02

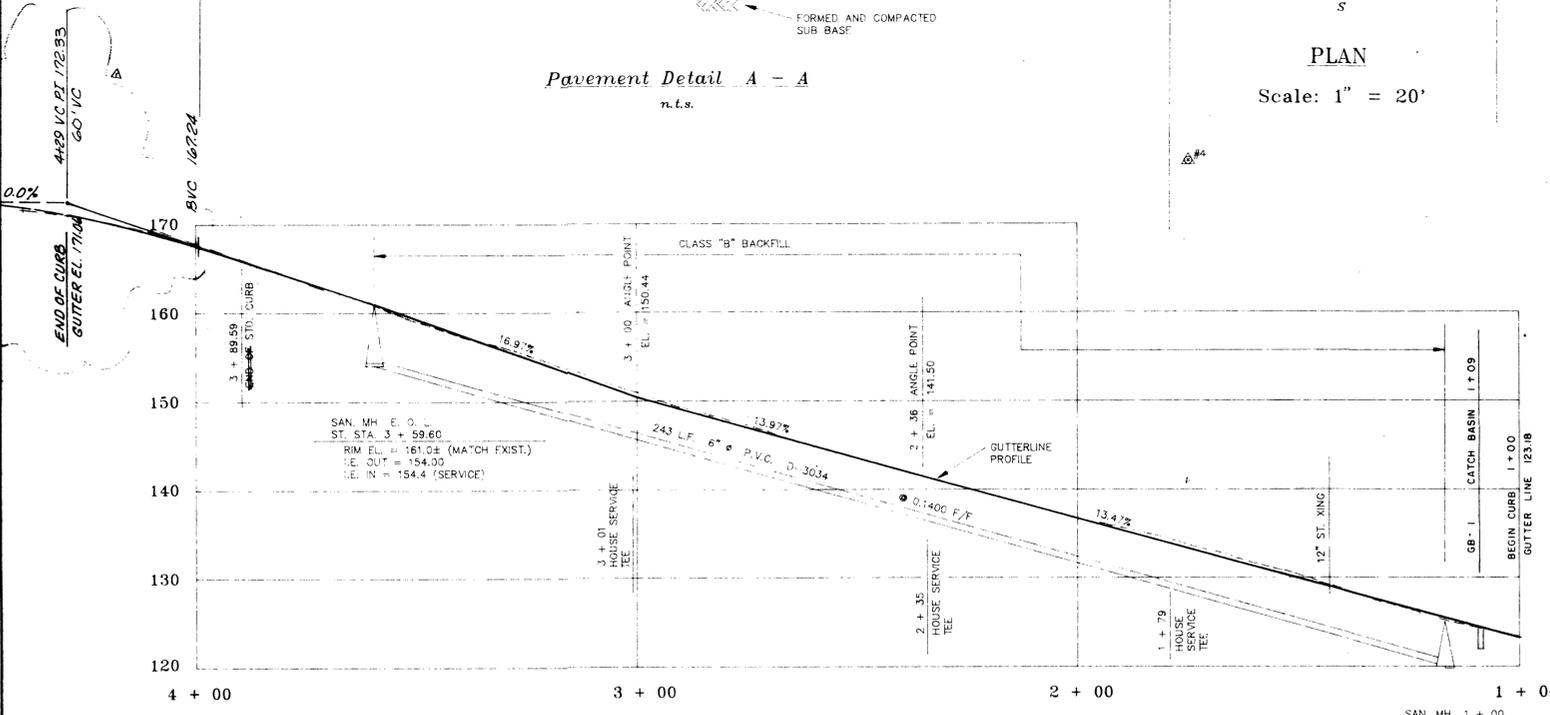
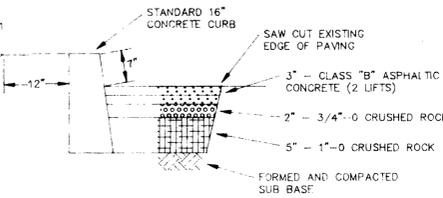




Vicinity Map  
n. t. s.



**Note**  
BASIS OF ELEVATION: MONUMENT IN BOX AT INTERSECTION OF BUCK AND BARCLAY ASSUMED ELEVATION = 100.00'



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**WATER SYSTEM NOTES**

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ENGINEERING SURVEYING PLANNING  
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(503) 222-4652 (503) 653-8093

Mr. Tom Cardoso  
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Phone: 503-641-2647

Hammerle Street Improvements  
For Tax Lot 1000 2 - 1E - 25AC  
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JUN 11 1992