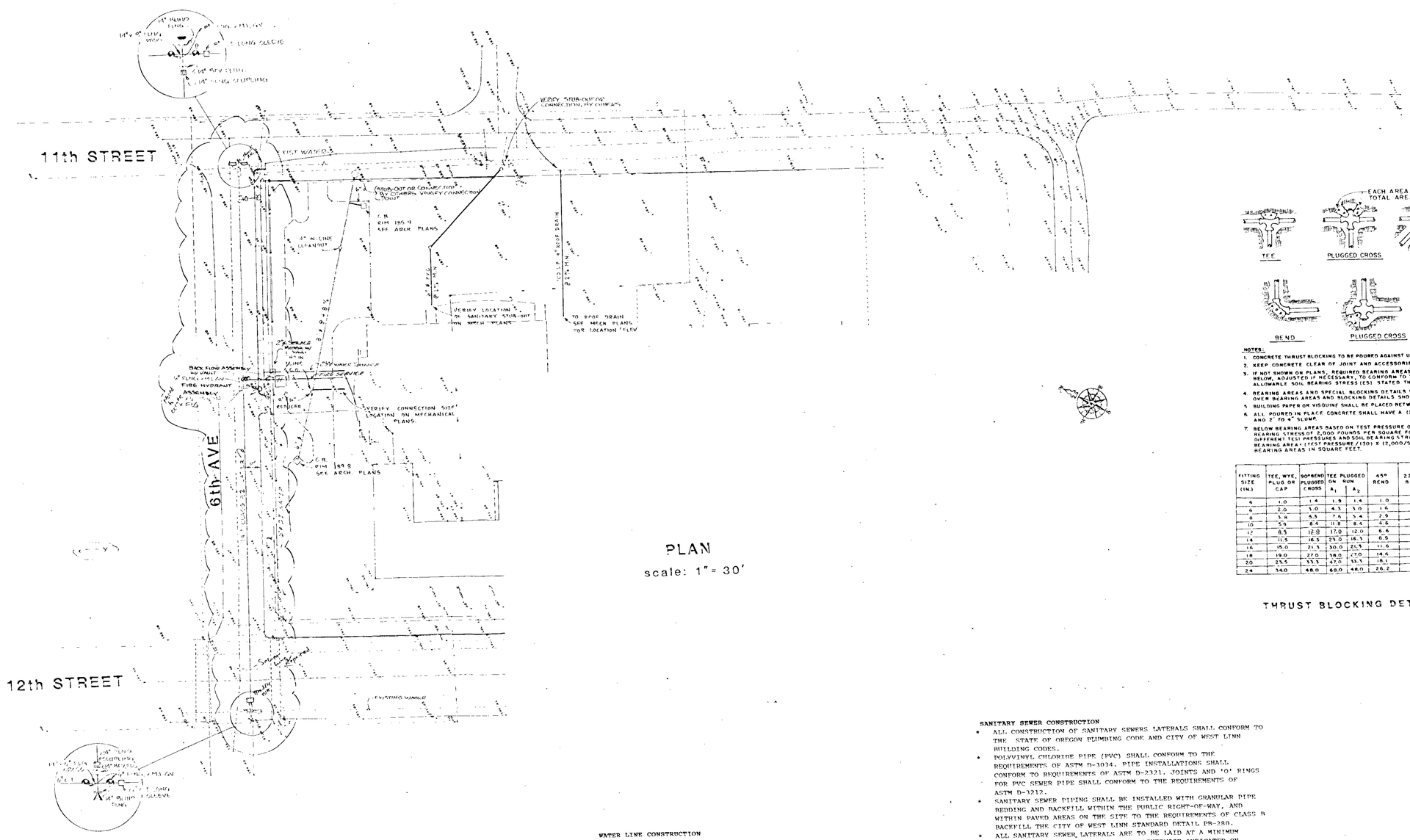
WILLAMETTE
MIDDLE
SCHOOL

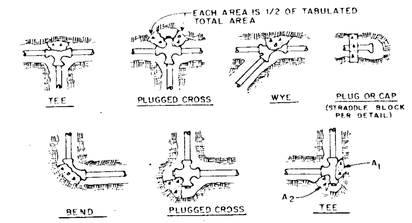
GYMNASIUM
ADDITION

1403 12th St
West Linn
Oregon



PLAN

scale: 1" = 30'



NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUSTED IF NECESSARY, TO CONFORM TO THE TEST PROCEDURE (S) AND ALLOWABLE SOIL BEARING STRESS (ES) STATED THE SPECIAL SPECIFICATIONS.
4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.
5. BUILDING PAPER OR VISQUINE SHALL BE PLACED BETWEEN CONCRETE AND FITTINGS.
6. ALL POURED IN PLACE CONCRETE SHALL HAVE A (28) DAY STRENGTH OF 3,000 P.S.I. AND 2 TO 4" SLUMP.
7. BELOW BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) X (2,000/SOIL BEARING STRESS) X (TABLE VALUE). BEARING AREAS IN SQUARE FEET.

FITTING SIZE (IN.)	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN A_1	TEE PLUGGED ON RUN A_2	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.0	1.4	1.9	1.4	1.0	—	—
6	2.0	3.0	4.3	3.0	1.4	1.0	—
8	3.6	5.3	7.6	5.4	2.9	1.5	1.0
10	5.5	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.4	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

THRUST BLOCKING DETAIL

GENERAL NOTES

* ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN, THE STATE OF OREGON PLUMBING CODE, AND THE SUPPORTING ARCHITECTURAL PLANS AND SPECIFICATIONS, OR AS APPROVED BY THE GOVERNING AGENCIES.
* BASIS OF ELEVATION: TOP OF 1/2" IRON PIPE IN MONUMENT BOX AT INTERSECTION OF 4th AVENUE AND 11th STREET. ELEVATION 159.69
* 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.
* ADDITIONAL INFORMATION, DETAILS AND COMMON CONNECTION POINTS ARE SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
* 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.
* CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED DRAWINGS AT THE JOB SITE AND SHALL ENTER ON "AS BUILT" DATA. AT THE COMPLETION OF THE WORK THE DRAWING SHALL BE SUBMITTED TO THE ENGINEER.

WATER LINE CONSTRUCTION

* ALL WORK AND MATERIALS TO IN ACCORDANCE WITH THE CITY OF WEST LINN, THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333 AND THE A.W.W.A. STANDARDS.
* ALL PIPE TO HAVE A MINIMUM OF 30-INCHES OF COVER BELOW FUTURE GRADE LINES.
* CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT PIPE INTERIORS, FITTINGS AND VALVES AGAINST CONTAMINATION.
* CONCRETE THRUST BLOCKS TO BE CONSTRUCTED AT ALL TEES, BENDS, FIRE HYDRANTS, AND WHERE INDICATED ON THE PLANS FOR LINES 4-INCHES AND LARGER.
* BACKFLOW ASSEMBLY FOR THE FIRE SERVICE SHALL BE EQUAL TO AMES CO. MODEL 200 DCA, DOUBLE CHECK ASSEMBLY. SIZING PER THE REQUIREMENTS OF THE FIRE SPRINKLER SYSTEM.
* BACKFLOW ASSEMBLY FOR THE DOMESTIC SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN.
* CONCRETE VAULTS WILL BE SIZED TO THE REQUIREMENTS OF THE BACKFLOW ASSEMBLY AND GOVERNING AGENCIES. THE VAULTS SHALL BE EQUIPPED WITH SPRING ASSISTED GALVANIZED DIAMOND PLATE WITH LOCKING LATCH.
* THE DOMESTIC SERVICE METER SHALL BE HOUSED IN A VAULT MEETING THE REQUIREMENTS OF THE CITY OF WEST LINN.

SANITARY SEWER CONSTRUCTION

* ALL CONSTRUCTION OF SANITARY SEWERS LATERALS SHALL CONFORM TO THE STATE OF OREGON PLUMBING CODE AND CITY OF WEST LINN BUILDING CODES.
* POLYVINYL CHLORIDE PIPE (PVC) SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3034. PIPE INSTALLATIONS SHALL CONFORM TO REQUIREMENTS OF ASTM D-2321. JOINTS AND 'O' RINGS FOR PVC SEWER PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3212.
* SANITARY SEWER PIPING SHALL BE INSTALLED WITH GRANULAR PIPE BEDDING AND BACKFILL WITHIN THE PUBLIC RIGHT-OF-WAY, AND WITHIN PAVED AREAS ON THE SITE TO THE REQUIREMENTS OF CLASS B BACKFILL THE CITY OF WEST LINN STANDARD DETAIL PB-280.
* ALL SANITARY SEWER LATERALS ARE TO BE LAID AT A MINIMUM SLOPE OF TWO PERCENT (2%) UNLESS OTHERWISE INDICATED ON THE PLANS.

STORM SEWER CONSTRUCTION

* ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN AND THE STATE OF OREGON PLUMBING CODE.
* CONNECTIONS TO THE EXISTING STORM SEWER SYSTEM WILL REQUIRE THE CONTRACTOR TO DETERMINE THE LOCATION OF THE EXISTING STORM SYSTEM AND MAKE THE NECESSARY CONNECTION.
* STORM SEWER PIPING SHALL BE INSTALLED WITH GRANULAR PIPE BEDDING AND BACKFILL WITHIN THE STREET RIGHT-OF-WAY OR WITHIN FUTURE PAVING LIMITS. COMPACTED NATIVE BACKFILL MAY BE APPROVED IN LANDSCAPE AREAS. SEE THE CITY OF WEST LINN STANDARD DETAIL PB-280 FOR DETAILS.

7/17/90 Dennis

COMPASS CORPORATION
ENGINEERING – SURVEYING – PLANNING
8564 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222
(503) 653-9093
90-2687-1527 *

WEST LINN
SCHOOL
DISTRICT

22210 SW STAFFORD RD
WEST LINN, OR 97068
(503) 638-9869

DULL
OLSON
WEEKES
ARCHITECTS

115 NW First Avenue, Suite 301
Portland, Oregon 97209
503/295-6050

DATE MARCH 16, 1990

JOB # 89029

DRAWN BY

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REVISIONS

CIVIL PLAN &
DETAILS

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