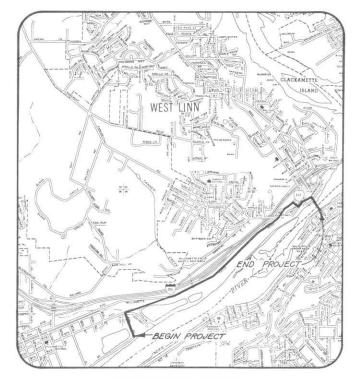
TRI-CITY SERVICE DISTRICT CLACKAMAS COUNTY, OREGON WEST LINN FORCE MAIN AND **GRAVITY SEWER**

FEBRUARY, 1986



SYMBOLS

	NEW	EXISTING	SHEET NO.
CATCH BASIN		10	1
POWER POLE		+	2
GUY WIRE			
FIRE HYDRANT		Â.	3
WATER METER			4
TRAVERSE POINT		\triangle	5
STREET LIGHT		* .	
CONCRETE BOX CULVERT		()	6
FENCELINE			7
PROPERTY LINE			8
EDGE OF PAVEMENT			
EDGE OF DRIVEWAY			9
GAS LINE		G	10
WATER LINE		W	11
DRAINAGE CULVERT	<u> </u>	>	
MANHOLE THRUST BLOCKING	0	O.	12
SANITARY SEWER		S	13
SANITARY SEWER FORCE MAIN			14
BACKFILL CLASS			
BEDDING CLASS	\succeq		15
			16
FLEXIBLE COUPLING	6 6		
AIR INJECTION POINT	\bigcirc		17
			3.9

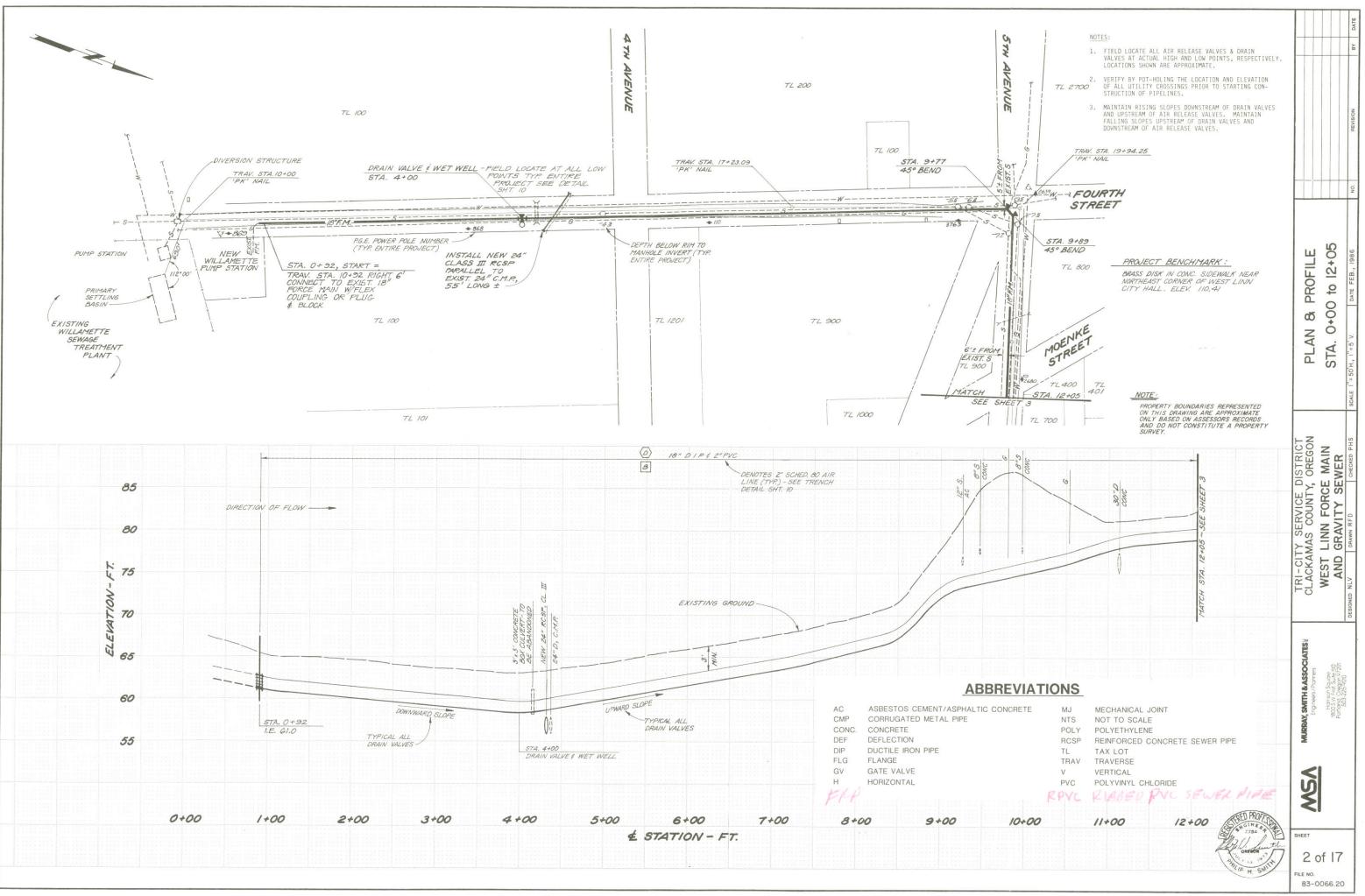


LOCATION MAP SCALE: 1" = 2000'

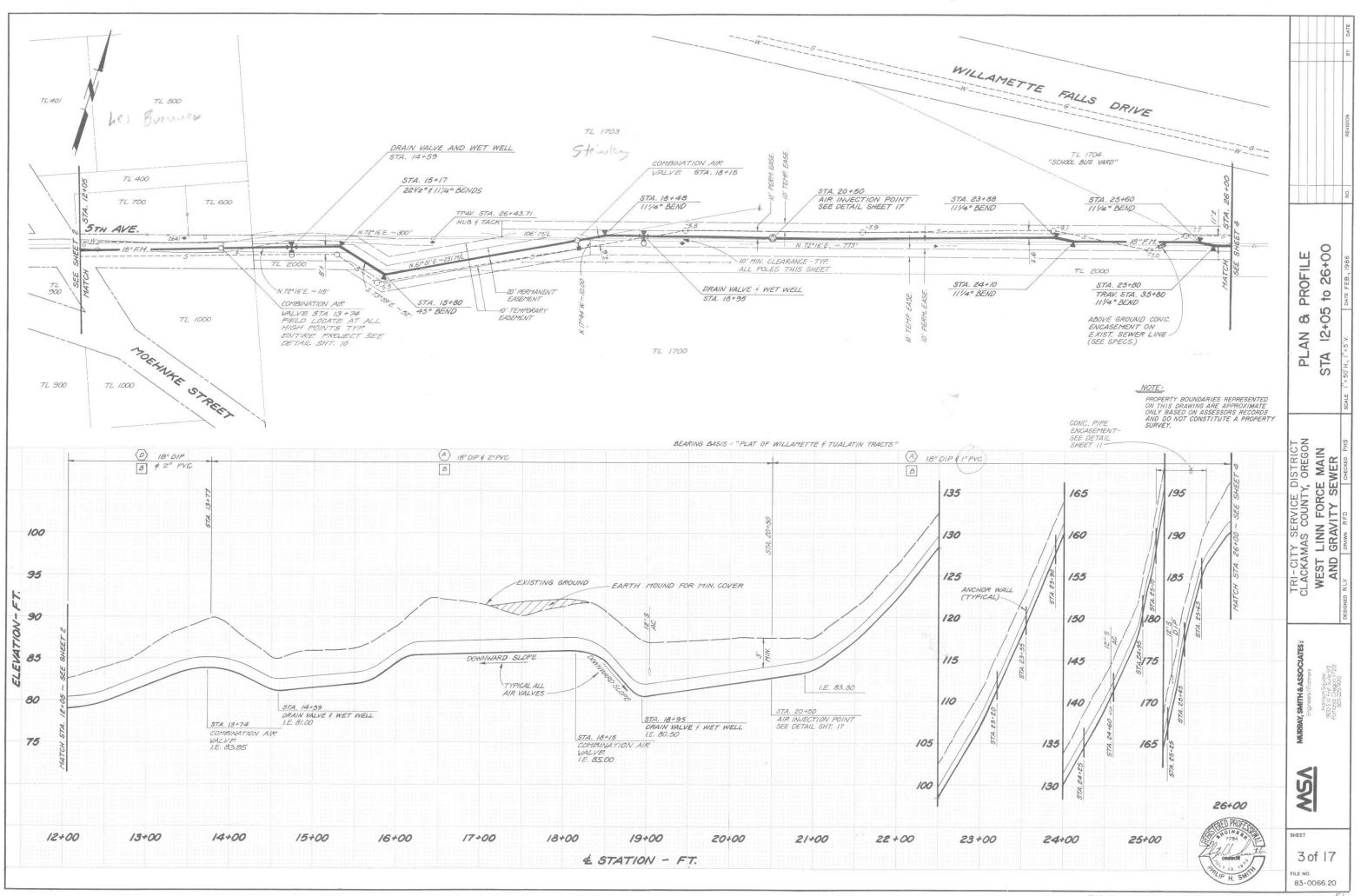
INDEX OF DRAWINGS

TITLE

INDEX OF DRAWINGS PLAN & PROFILE STA, 0+00 to 12+05 PLAN & PROFILE STA, 12+05 to 26+00 PLAN & PROFILE STA. 26+00 to 40+05 PLAN & PROFILE STA, 40+05 to 54+05 PLAN & PROFILE STA. 54+05 to 68+05 PLAN & PROFILE STA. 68+05 to 82+50 PLAN & PROFILE STA. 82+50 to 96+50 PLAN & PROFILE STA. 96+50 to 104+66 DETAILS DETAILS PLAN, ELEVATION & DETAILS OF BRIDGE CROSSING PLAN, ELEVATION & DETAILS OF BRIDGE CROSSING WEST PIER DETAILS EAST PIER DETAILS PIPE SUPPORT DETAILS PIPE SUPPORT DETAILS

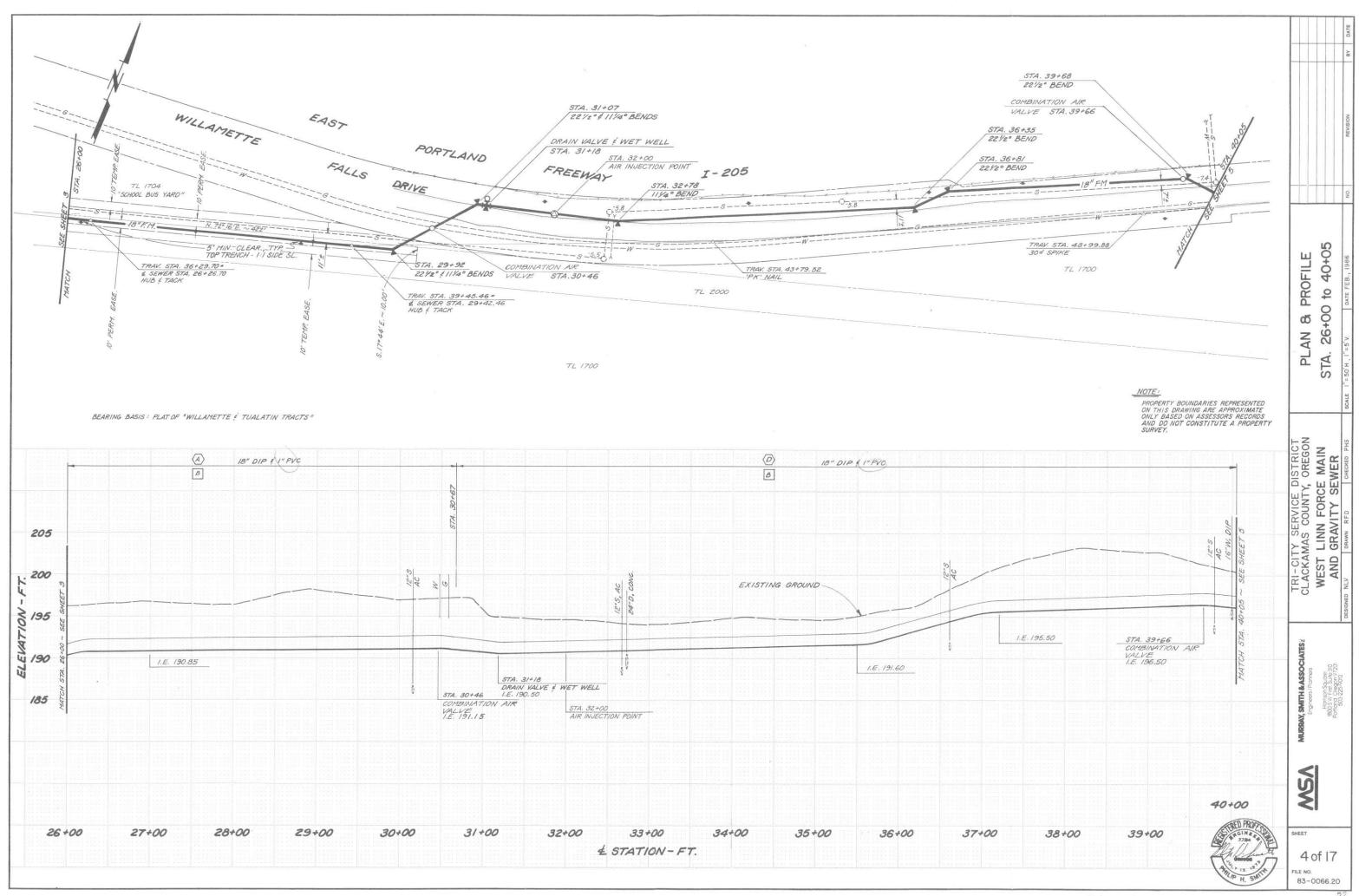


THIS DRAWING HAS BEEN REDUCED APPROXIMATELY ONE-HALF SCALE 50

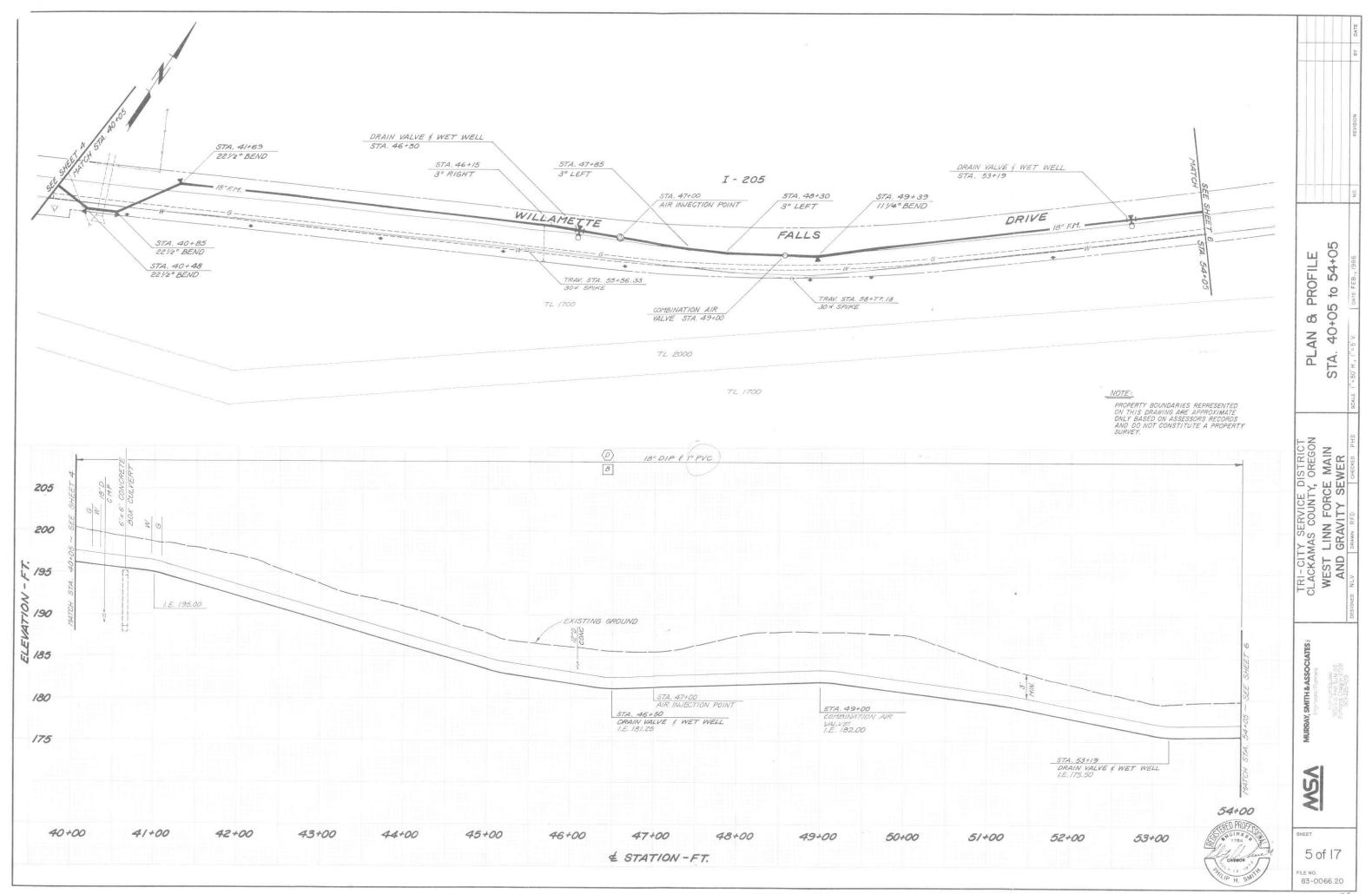


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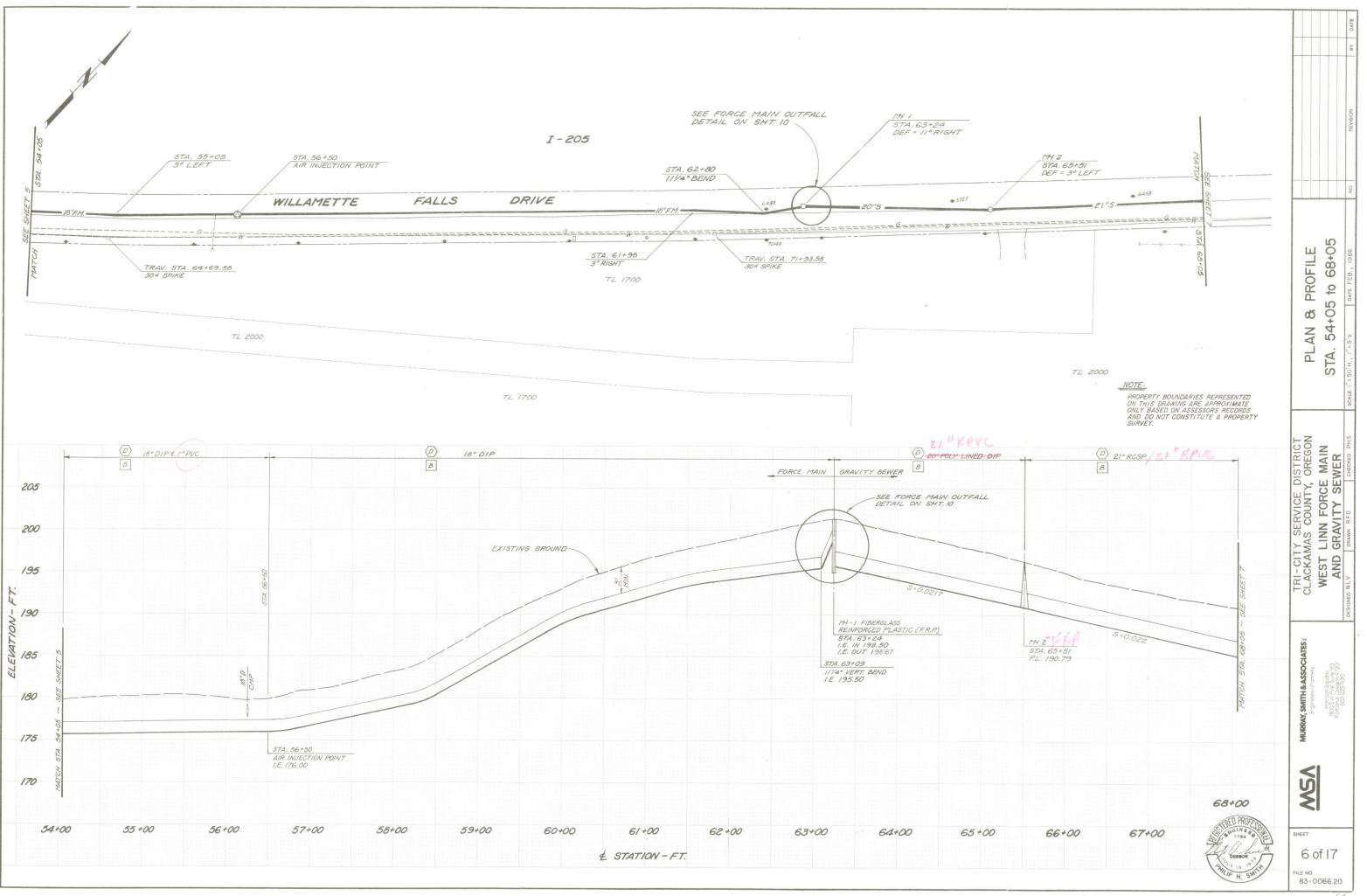
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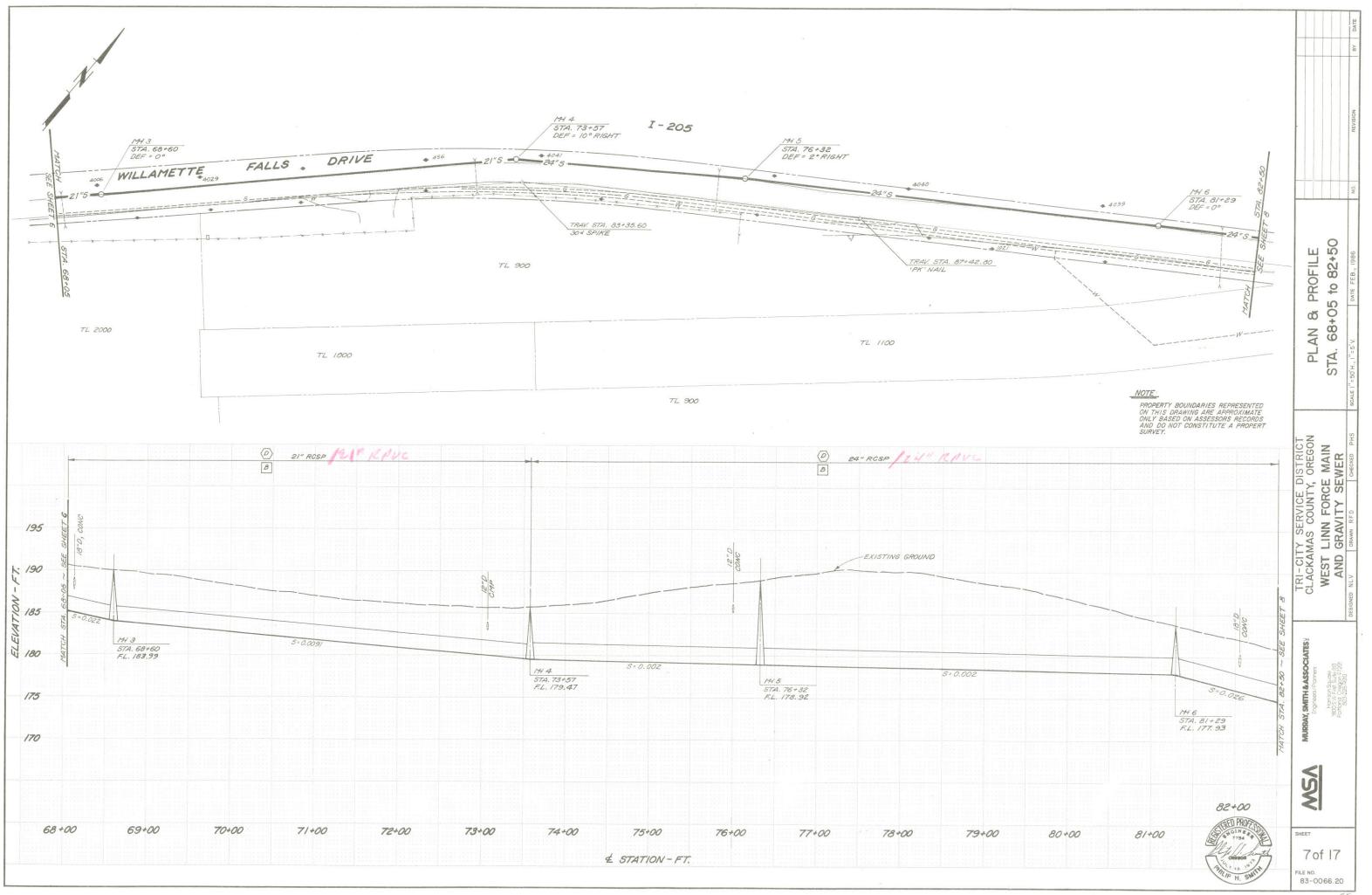
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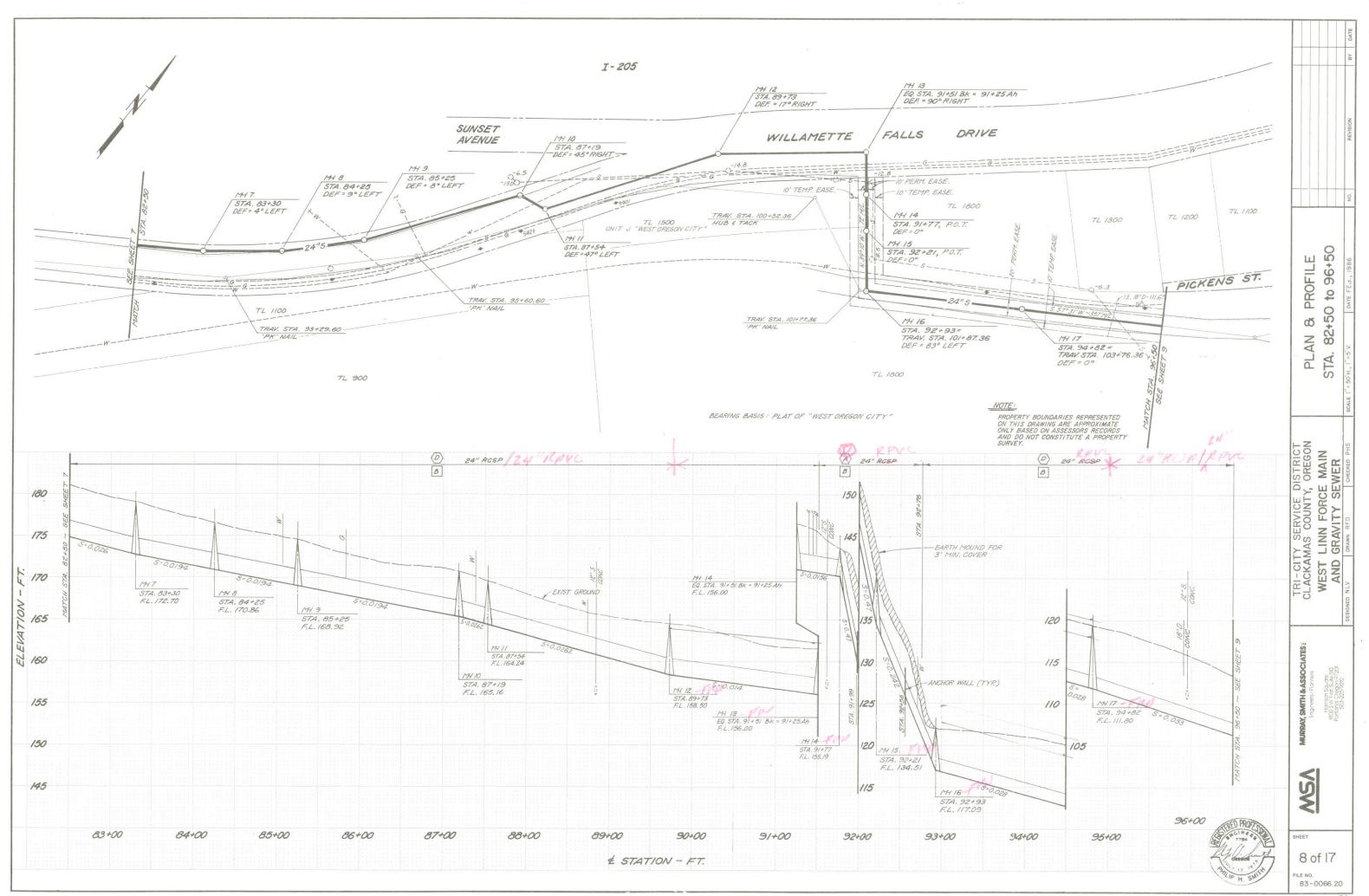
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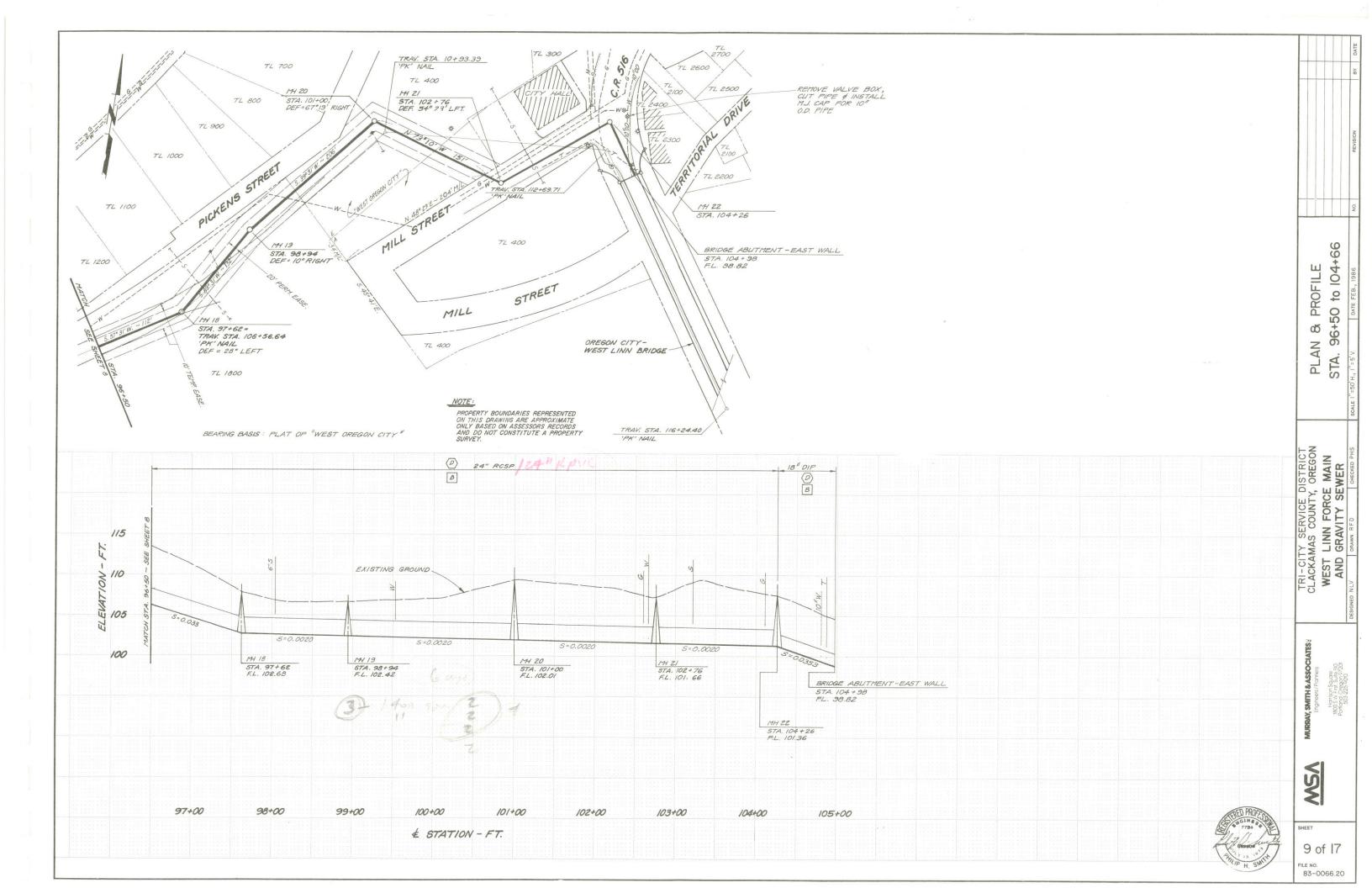
THIS DRAWING HAS BEEN REDUCED APPROXIMATELY ONE-HALF SCALE 54

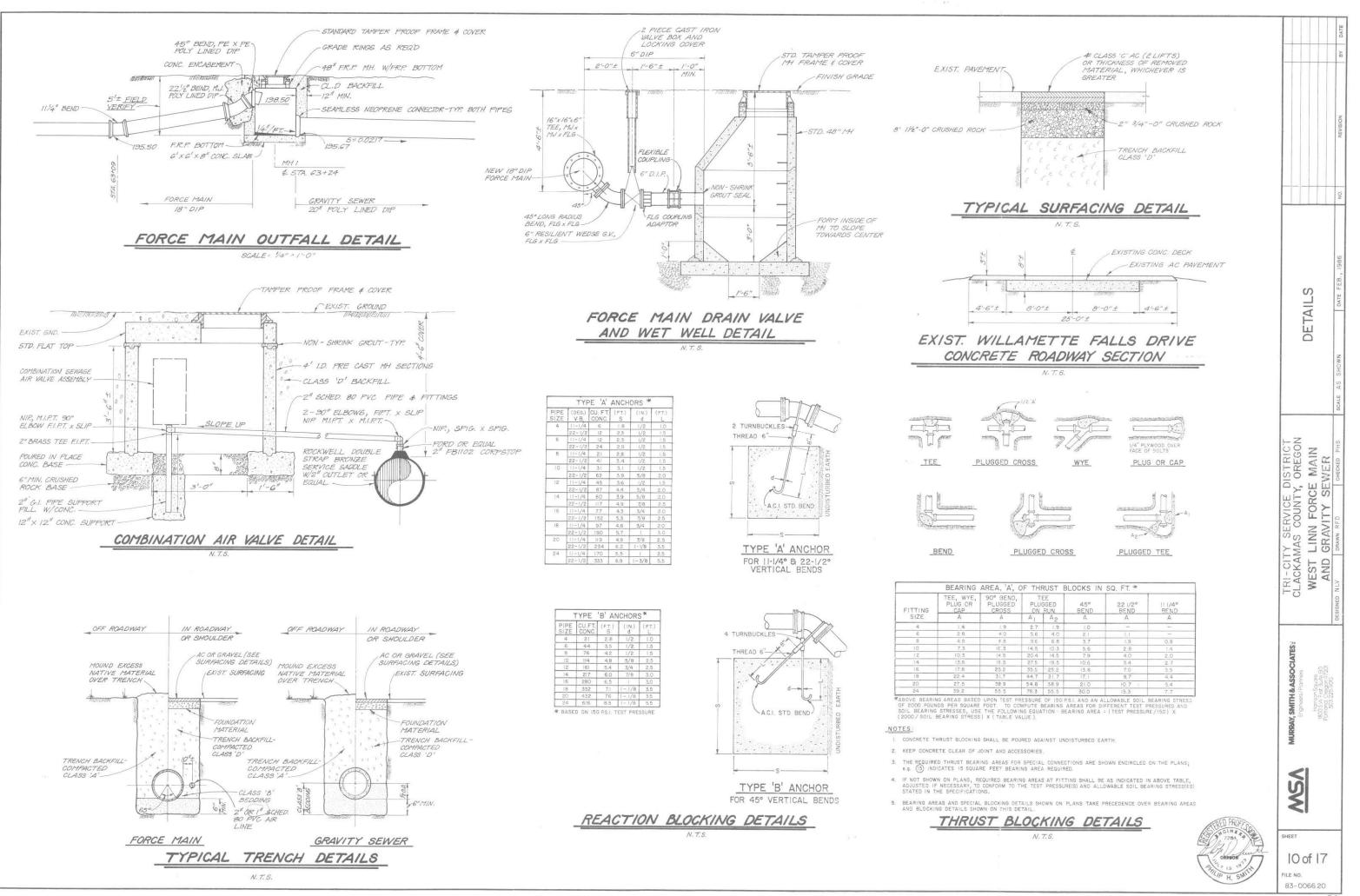


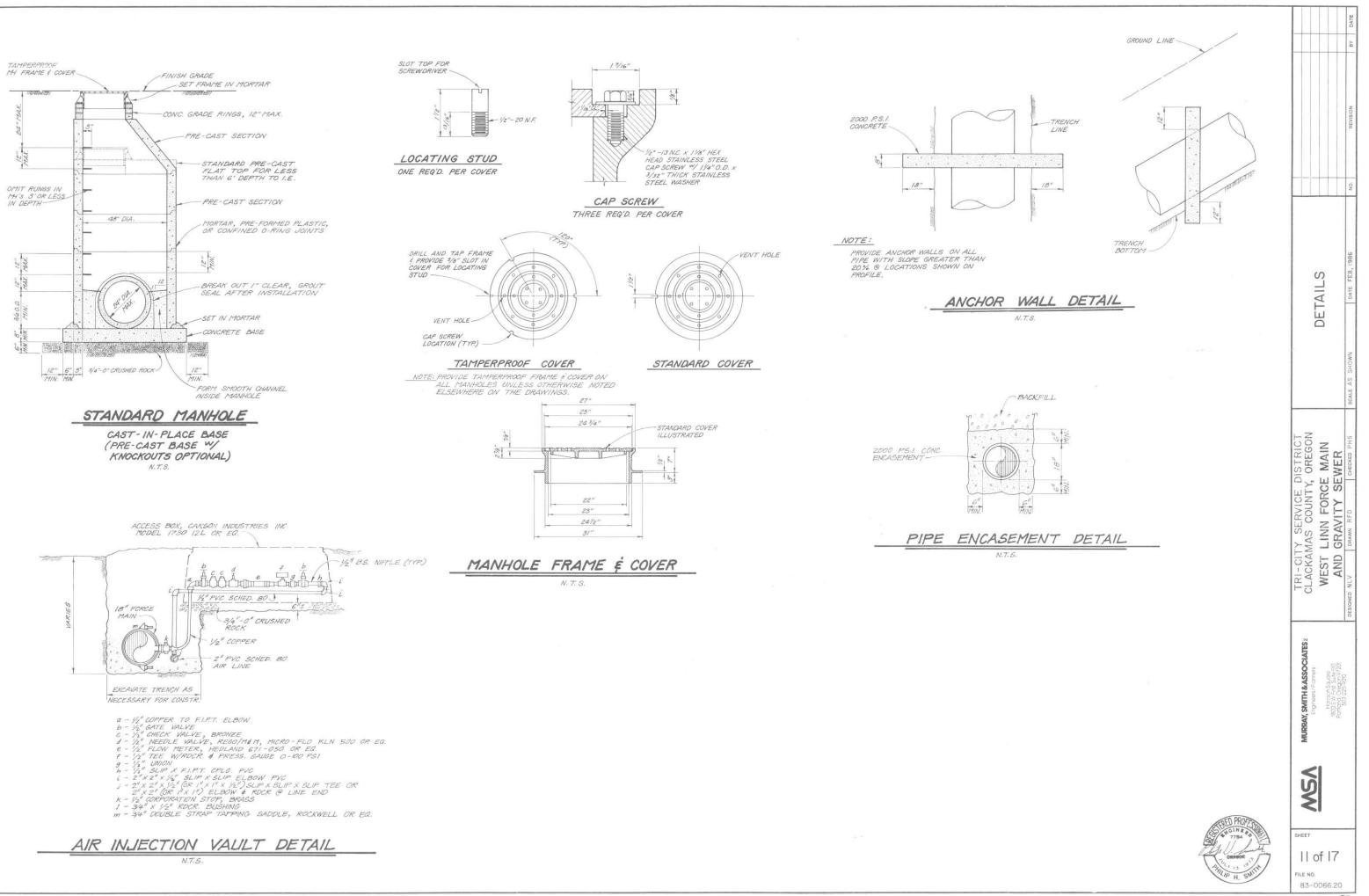
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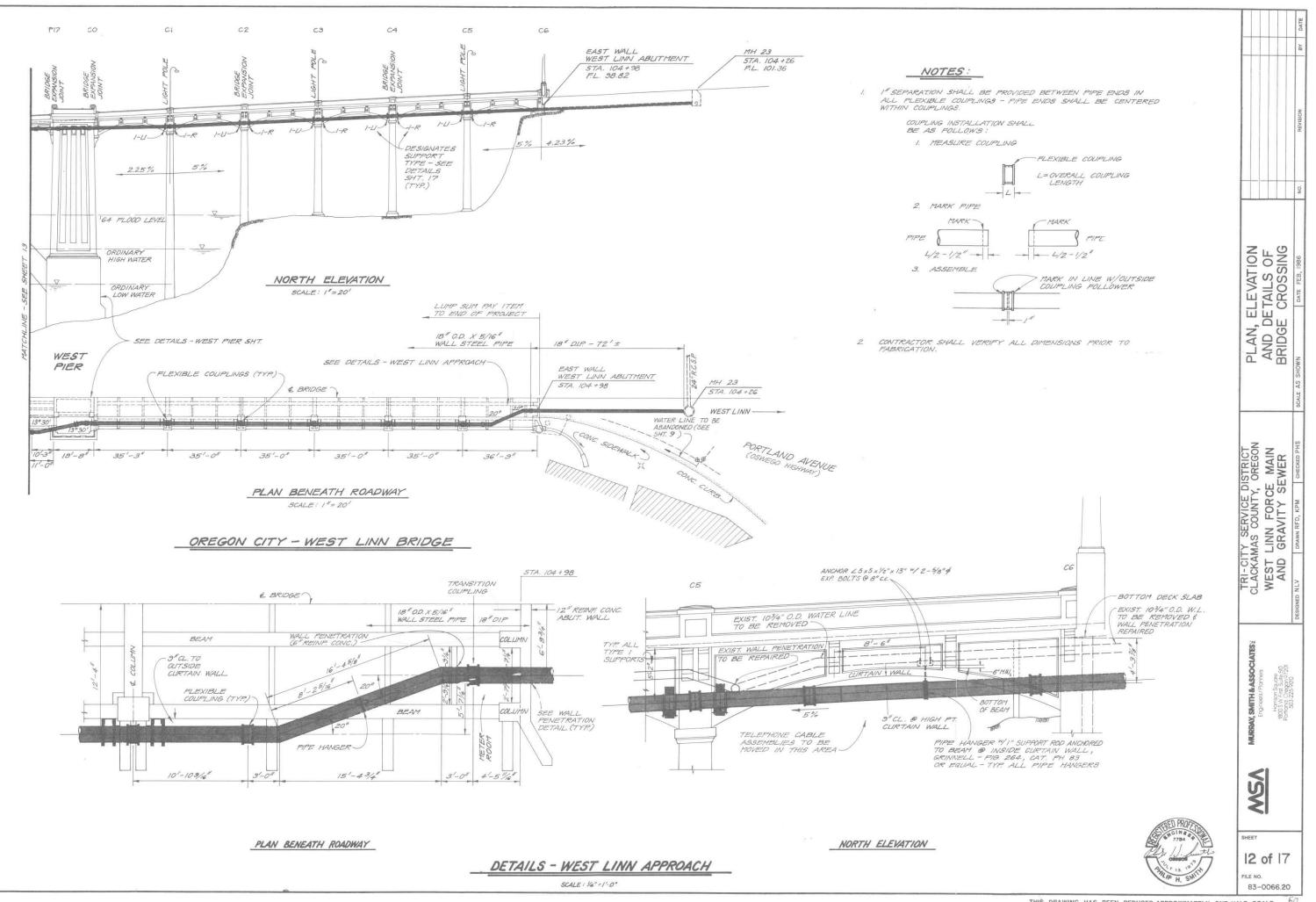


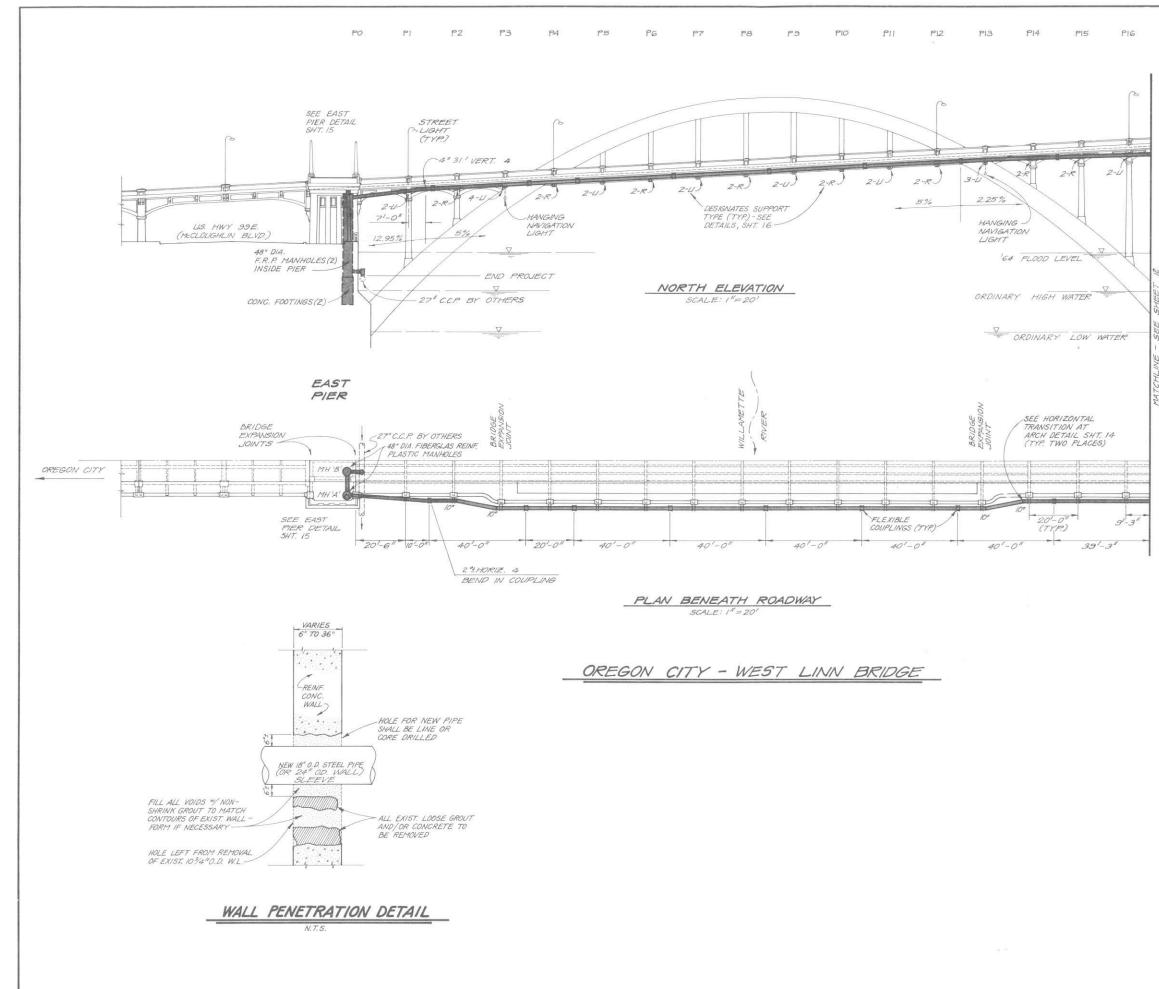
THIS DRAWING HAS BEEN REDUCED APPROXIMATELY ONE-HALF SCALE 56





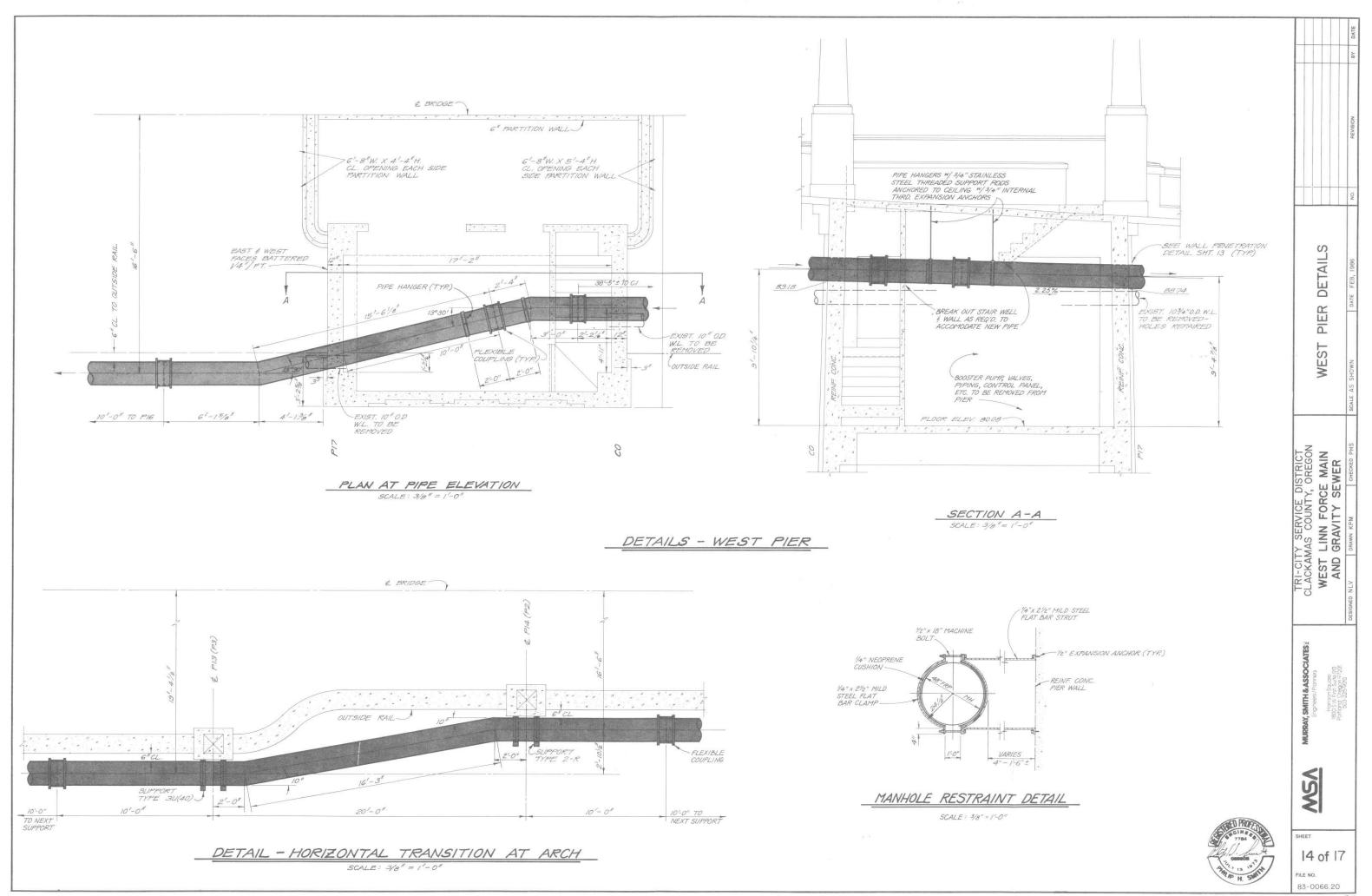


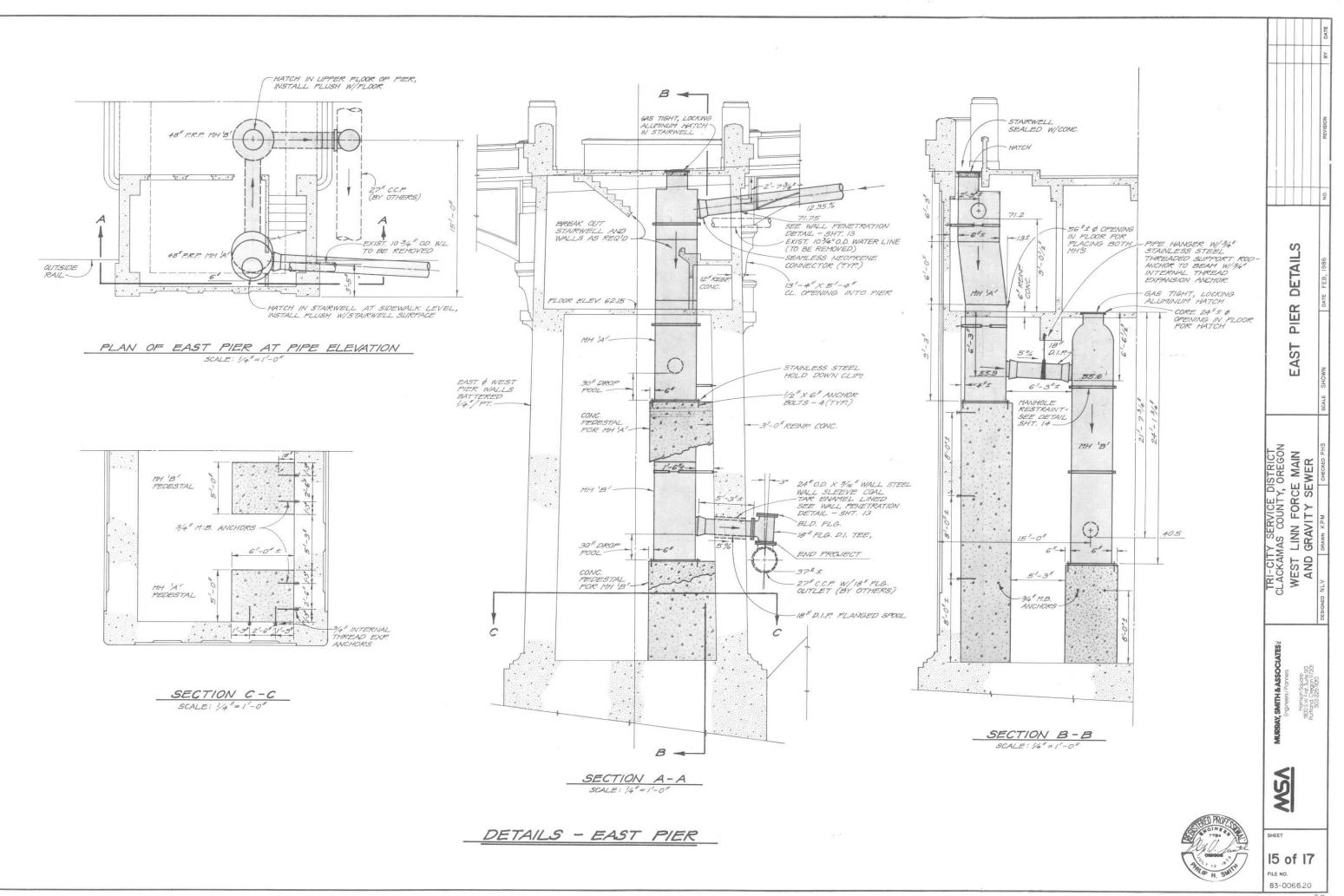


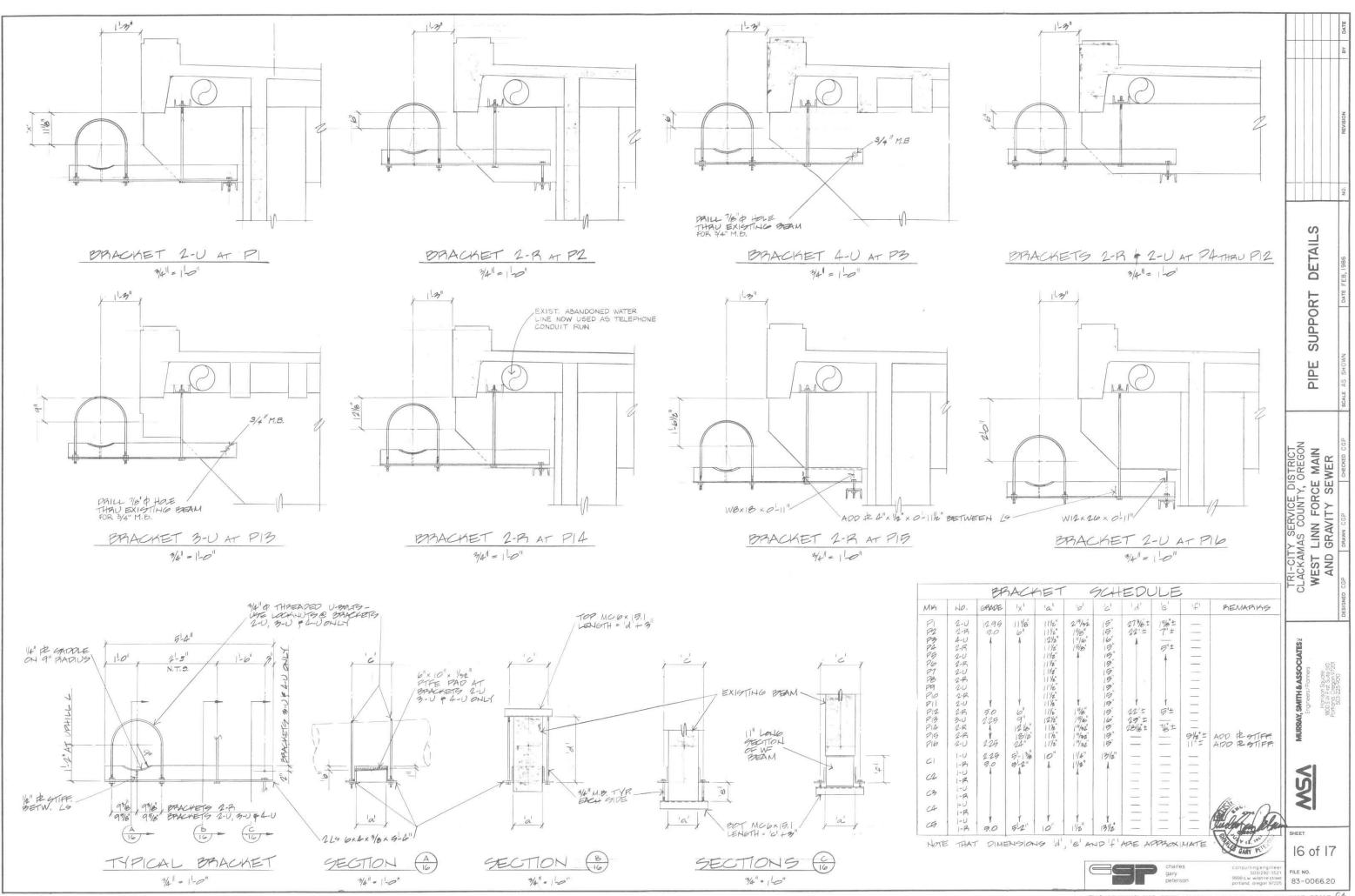


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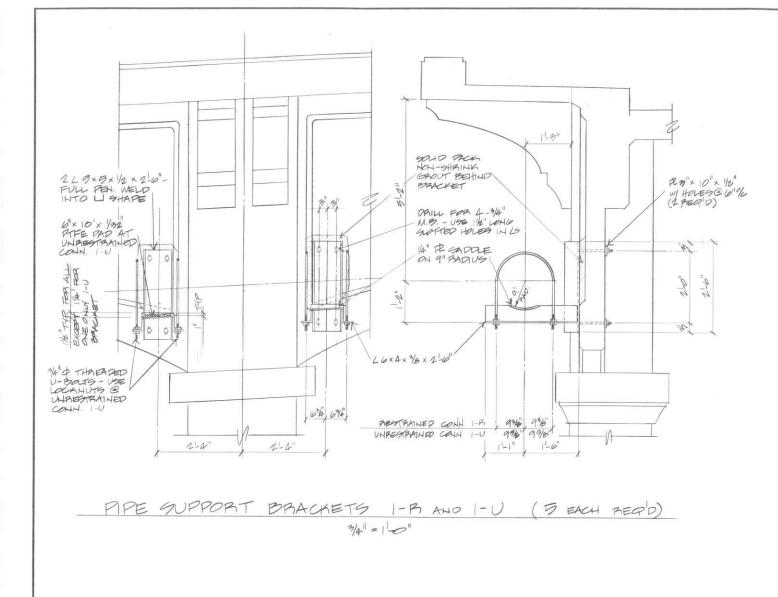
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GENERAL NOTES

 STRUCTURAL STEEL shall conform to ASTM A36. All joints are to be full penetration welded with E70XX electrodes.

 BOLTS AND THREADED PARTS shall conform to ASTM A36 or A307. Provide a minimum of 8" of thread on both ends of all U-bolts. On bracket connection bolts, provide 8" of thread or, for the shorter bolts, thread for the bolt length less 1".

3. UNRESTRAINED BRACKET SADDLES are to be installed with slide bearing pad seats. PTFE (polytrichloroflouroethylene) slide bearings conforming to ASTM D1457 are manufactured by Alert Manufacturing Co. of Norridge, Illinois. (Local representative is Dalton Associates, Inc. at 503/636-5643.) Install the 6" x 10" x 1/32" thick pad bearings with epoxy adhesive in accordance with the manufacturer's recommendations. Prior to the installation of the steel pipe, place a bearing sheet of 7" x 11" x 0.062" stainless steel on each PTFE pad. The sheets are to be preformed to a 9" radius and may be taped into position centered on the PTFE pad. Apply Alert #420 adhesive to the sheet back just prior to placing the pipe section into the bradket. U-bolts at unrestrained joints to be lock-nutted with 1/4-inch clear between pipe and bolts.

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			SMITH & ASSO Engineers / Planners Horrison Square	1800 S.W. First, Suite 510 Portland, Oregon 97201 503-225-9010
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−9P	charles gary peterson	consulting engineer 503/292-3521 9999 s.w. wilshire street portland, oregon 97225	FILE NO. 83-0066	.20