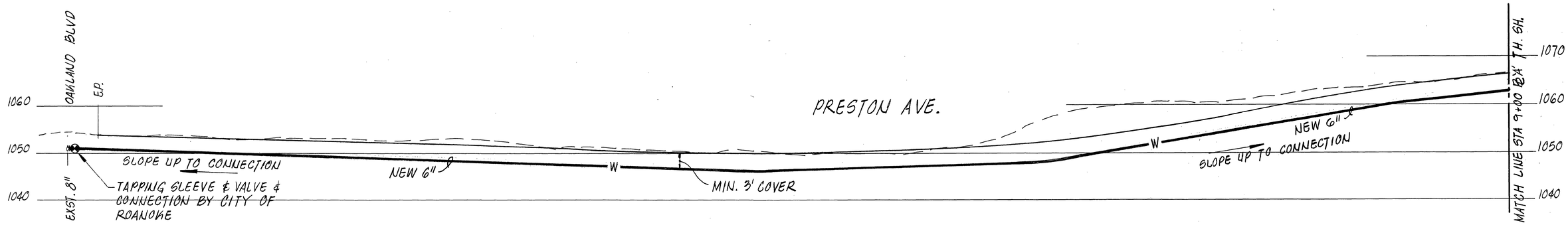
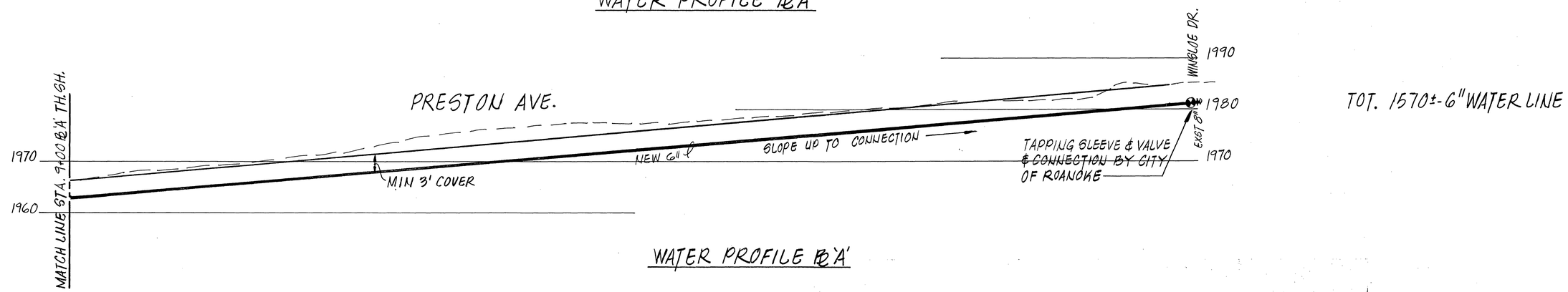
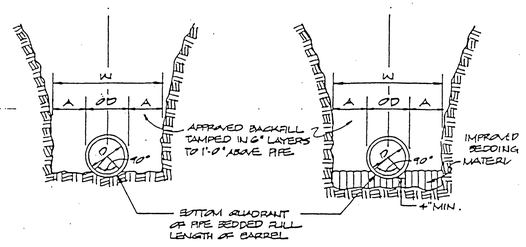


WATER PROFILE ℄ 'A'



WATER PROFILE ℄ 'A'



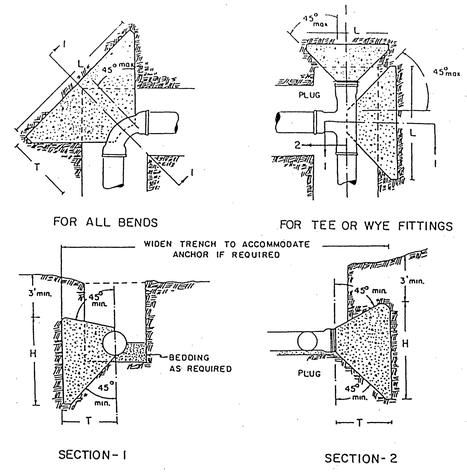
TRENCH IN EARTH

TRENCH IN ROCK & IMPROVED BEDDING

PIPE DIA. "O"	MAXIMUM "A"
6" to 15"	8"
18" to 21"	10"
24" to 30"	12"
33" to 42"	15"
48" & larger	18"

MAXIMUM TRENCH WIDTH "W" TAKEN AT TOP OF PIPE.

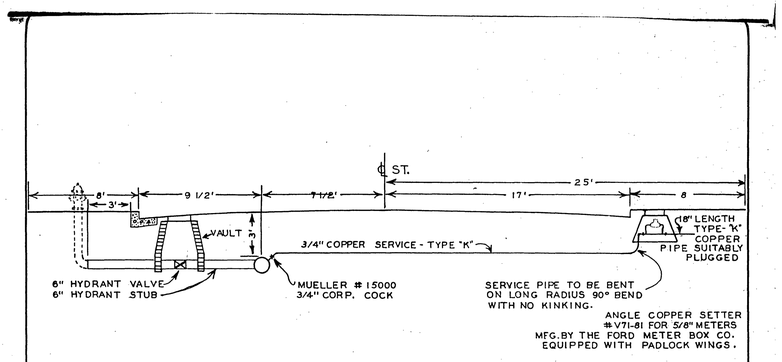
PIPE TRENCH CROSS-SECTION



PIPE SIZE	DEGREE OF BEND	BEND DIMENSIONS (FEET) L	H	T	VOL. CU. YD.	TEE AND PLUGS (FEET) L	H	T	VOL. CU. YD.
4" & 6"	90	2.50	2.50	3.01	0.24	2.00	2.25	2.50	0.15
	45	2.00	2.33	2.60	0.15				
	22 1/2	1.50	2.00	2.20	0.10				
	11 1/4	1.50	2.00	2.20	0.10				
8"	90	3.65	3.15	3.21	0.49	3.16	2.91	2.66	0.32
	45	2.66	2.66	2.77	0.25				
	22 1/2	1.66	2.16	2.49	0.13				
	11 1/4	1.66	2.16	2.47	0.13				
10" & 12"	90	4.83	3.83	3.42	0.82	3.83	4.00	2.83	0.52
	45	3.33	3.58	2.93	0.43				
	22 1/2	2.33	2.58	2.86	0.24				
	11 1/4	1.83	2.33	2.84	0.18				

1. THRUST BLOCKS ARE REQUIRED WHENEVER THE PIPELINE: CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS AND AT VALVES
2. USE 3000 P.S.I CONCRETE
3. NO CONCRETE SHALL BE POURED ON ANY PART OF THE JOINT

Mattern & Craig CONSULTING ENGINEERS | THRUST BLOCK DETAIL | DETAIL NUMBER W-7



WATER DEPARTMENT
CITY OF ROANOKE, VA.
DETAIL
STANDARD WATER SERVICE & HYDRANT STUB
SCALE-1"=5'
DRAWN BY E.L.A. AUGUST, 29 1951

24

SCALE: HORIZ. 1"=30'
VERT. 1"=10'

REVISION	DATE	DESCRIPTION	BY	APP.

DESIGNED	FLEMING OAKS
DRAWN	SECTION 12 A
CHECKED	WATER PROFILE & DETAILS
APPROVED	
SUBMITTED	

Mattern & Craig CONSULTING ENGINEERS | SCALE: NOTED | COMM 521 | DATE: MAR. 85 | SHEET 8

OFFICE OF CITY ENGINEER ROANOKE, VIRGINIA
APPROVED BY | Pipe Trench Bedding | DE SU

C & S BLUEPRINT 742-5811