



PLAN

SCALE: 1" = 50'

PLAN NOTES:

- (A) PROVIDE JOINT HARNESSING.
- (B) ABANDON EXISTING SANITARY SEWER LATERAL (NOT SHOWN). PROVIDE NEW 6" DIP. CONNECT TO EXISTING MH AND AT THE BLOWER BUILDING AT THE EXISTING INVERT ELEVATIONS. INSTALL PIPE AT A UNIFORM SLOPE. CONNECT TO EXISTING PIPE AT THE BLOWER BUILDING WITH A FLEXIBLE CONNECTION. COORDINATE OUTAGE WITH THE CITY OF ROANOKE.

NOTES

1. UNDERGROUND UTILITIES ARE SHOWN BASED ON AVAILABLE RECORDS, AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL CALL MISS UTILITY AT 800-552-7001 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE U.S. ARMY CORPS OF ENGINEERS' "FLOOD REDUCTION PROJECT - SEWAGE TREATMENT PLANT FLOOD-PROOFING."
3. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATIONS AND MATERIALS OF THE EXISTING WATER MAINS AT THE CONNECTION POINTS AND SHALL STAKE OUT ALL CONNECTION POINTS AND FITTING LOCATIONS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL SCHEDULE ALL WATER OUTAGES (POTABLE AND NON-POTABLE) WITH THE CITY OF ROANOKE A MINIMUM OF 72 HOURS PRIOR TO THE OUTAGE. WATER OUTAGES SHALL BE MINIMIZED AND WILL BE ALLOWED ONLY FROM 11:00 P.M. TO 6:00 A.M. ONLY CITY OF ROANOKE PERSONNEL SHALL OPERATE WATER VALVES.
5. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL WATER MAINS.
6. ALL FIRE HYDRANTS, YARD HYDRANTS, AND WATER VALVES INDICATED TO BE REMOVED SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE CITY OF ROANOKE AT THE SEWAGE TREATMENT PLANT.
7. EXISTING CONDITIONS ARE BASED ON U.S. ARMY CORPS OF ENGINEERS FLOOD REDUCTION PROJECT PLANS DATED 23 APRIL 1991, A REVIEW OF RECORDS AND FIELD OBSERVATIONS. NO FIELD SURVEY WAS PERFORMED BY HSMM, INC.
8. EXISTING 12" WATER MAIN AND 10" NPW MAIN ARE BELIEVED TO BE GRAY CAST IRON. FIELD VERIFY.
9. THE CONTRACTOR SHALL SUPPLY THE CITY OF ROANOKE WITH A CORRECT SET OF AS-BUILT PLANS.
10. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE CITY OF ROANOKE.
11. FIELD CHANGES SHALL BE APPROVED BY THE CITY OF ROANOKE PRIOR TO SUCH CONSTRUCTION.

{FOR REVIEW ONLY}

OCT 17 1991

NOT FOR CONSTRUCTION

LEGEND

NEW	EXISTING	
●	○	MH
○	○	WV
○	○	GV
○	○	M
○	○	PP
○	○	EMH
○	○	MW
○	○	FH
○	○	YH
○	○	DI
○	○	LP
SS	SS	MANHOLE
W	W	WATER VALVE
	G	GAS VALVE
	SD	METER
	NPW	POWER POLE
		ELEC MANHOLE
		MONITORING WELL
		FIRE HYDRANT
		YARD HYDRANT
		STORM DRAIN INLET
		LIGHT POLE
		SANITARY SEWER LINE
		WATER LINE
		GAS LINE
		STORM DRAIN
		NON POTABLE WATER
		EXTENT OF FILL
		LINE TO BE ABANDONED
		BY CONTRACTOR
		CONCRETE THRUST BLOCK

POTABLE WATER MAIN SEQUENCE OF CONSTRUCTION

1. FIELD LOCATE AND EXCAVATE ALL CONNECTION POINTS.
2. INSTALL NEW WATER MAIN AND APPURTENANCES. MAKE WATER TAPS. PARTIALLY BACKFILL WATER MAINS TO PREVENT MOVEMENT OF PIPE.
3. FLUSH, DISINFECT AND PRESSURE TEST WATER MAINS. OBTAIN SATISFACTORY BACTERIOLOGICAL SAMPLES.
4. ISOLATE AND TAKE EXISTING WATER MAIN FROM SERVICE.
5. REMOVE EXISTING WATER MAIN AT NEAREST JOINT TO CONNECTION. INSTALL PLUG AND COMPLETE JOINT HARNESSING AT EACH CONNECTION.
6. PLACE NEW WATER MAIN INTO SERVICE.
7. INSTALL CONCRETE THRUST BLOCKS AT PLUGGED WATER MAINS AND COMPLETE BACKFILLING.

NON-POTABLE WATER MAIN SEQUENCE OF CONSTRUCTION

1. FIELD LOCATE 10" NPW MAIN. AVAILABLE PLANS INDICATE PIPE HAS APPROXIMATELY 10 FT. OF COVER. (FIELD VERIFY).
2. INSTALL A PORTION OF THE SHEET PILING FOR THE TRAINING WALL (NOT IN CONTRACT).
3. INSTALL STEEL CASING PIPE WHERE INDICATED AND RELOCATE NPW MAIN.
4. COMPLETE SHEET PILING FOR TRAINING WALL (NOT IN CONTRACT).

ABBREVIATIONS

AGGR	AGGREGATE
BLDG	BUILDING
CONC	CONCRETE
CONJ	CONNECTION
DIP	DUCTILE IRON PIPE
EXST	EXISTING
FIN GR	FINISHED GRADE
GALV	GALVANIZED
HYD	HYDRANT
MIN	MINIMUM
N.I.C.	NOT IN CONTRACT
STL	STEEL
TRANS.	TRANSFORMER
TYP	TYPICAL
U/G	UNDERGROUND
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
MAX	MAXIMUM
W/	WITH
ELEC	ELECTRIC

DESIGNED	DMH	WATER AND SEWER RELOCATION SEWAGE TREATMENT PLANT CITY OF ROANOKE, VIRGINIA PLAN AND NOTES	
DRAWN	MHL		
CHECKED	MBD		
APPROVED	JAP		
SUBMITTED			
HAYES, SEAY, MATTERN & MATTERN ARCHITECTS - ENGINEERS - PLANNERS ROANOKE, VIRGINIA		SCALE 1" = 50'	COMM. NO. 4673
		DATE OCT. 1, 1991	SHEET 1 OF 2