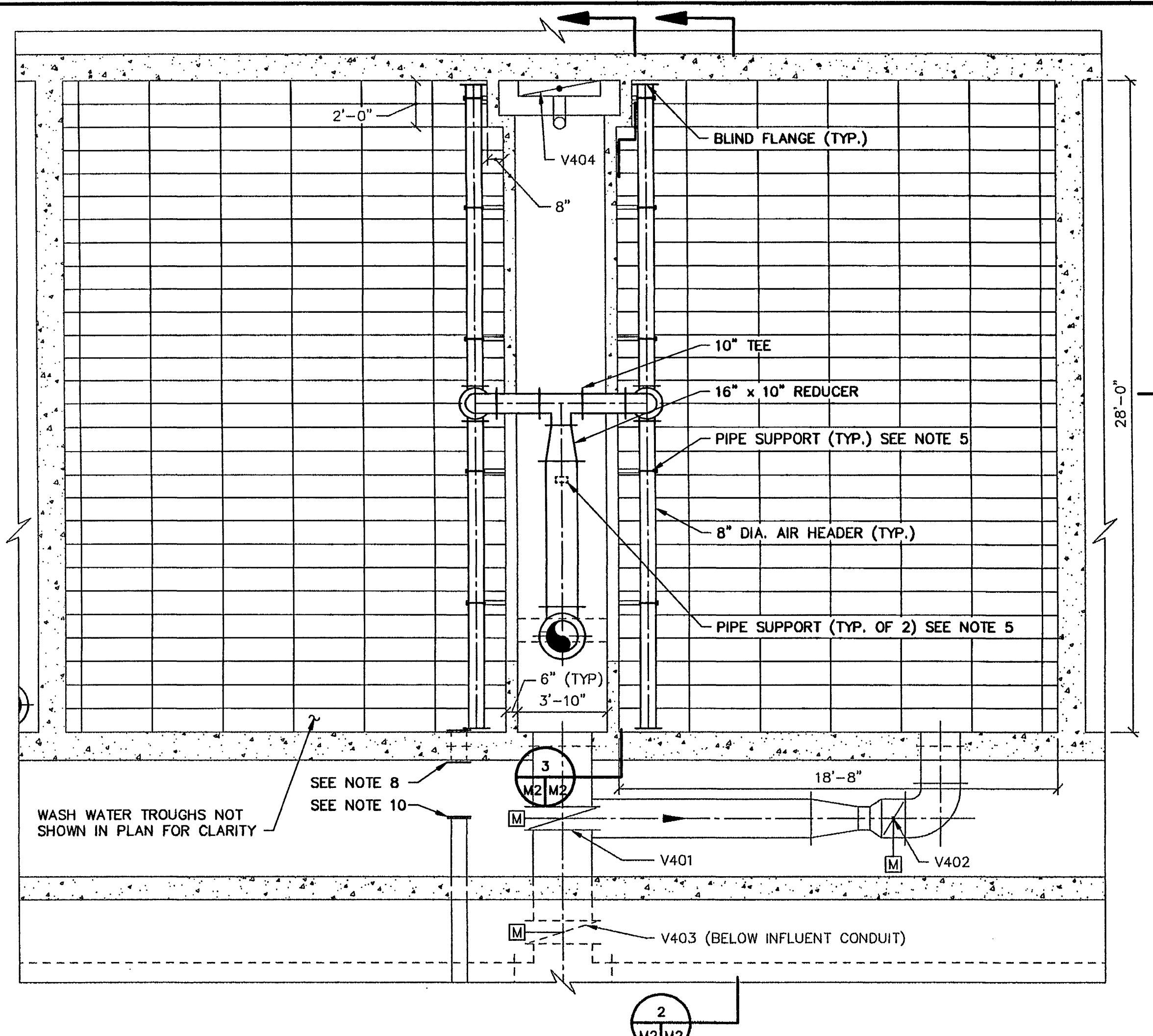
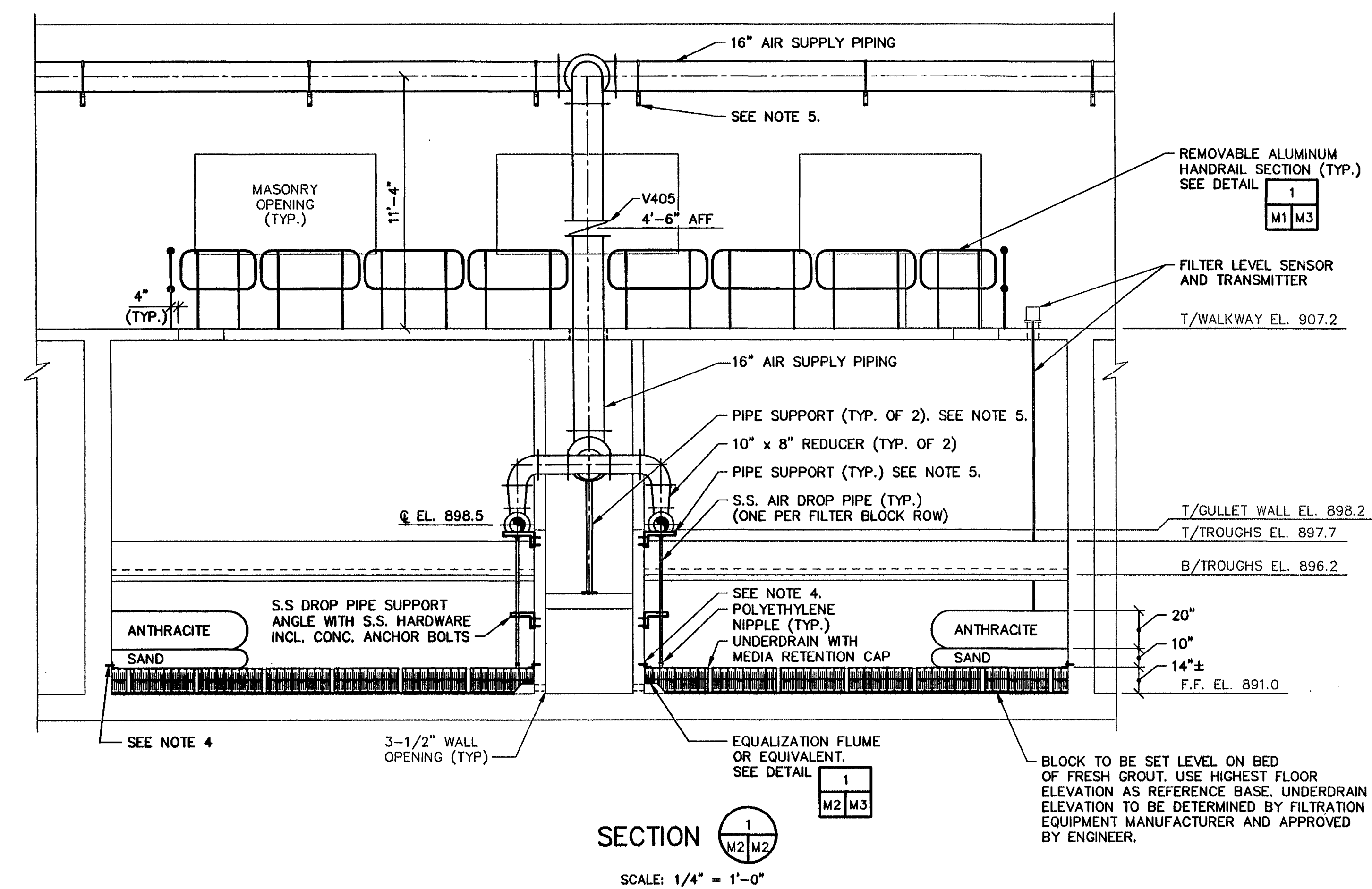
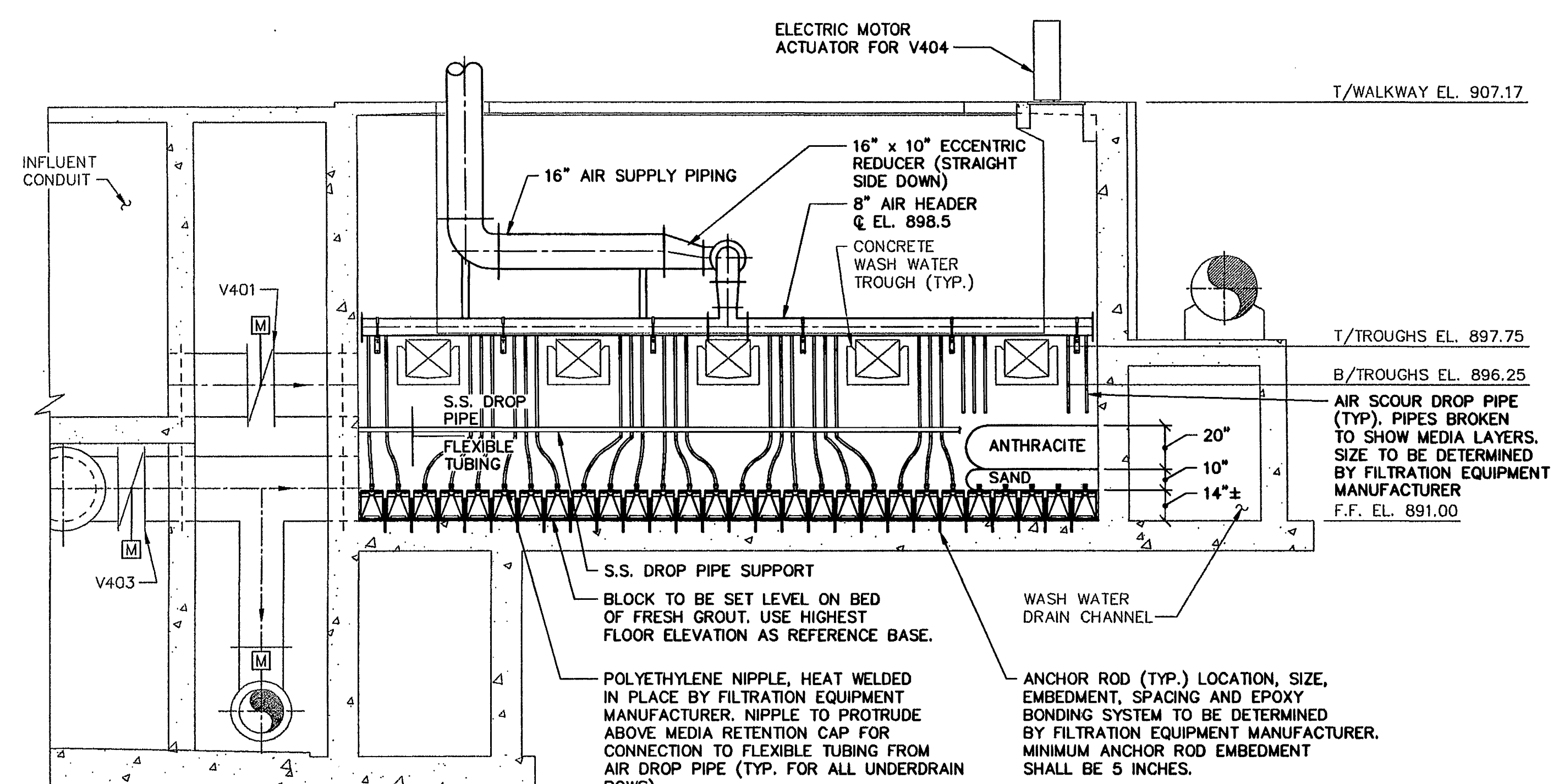




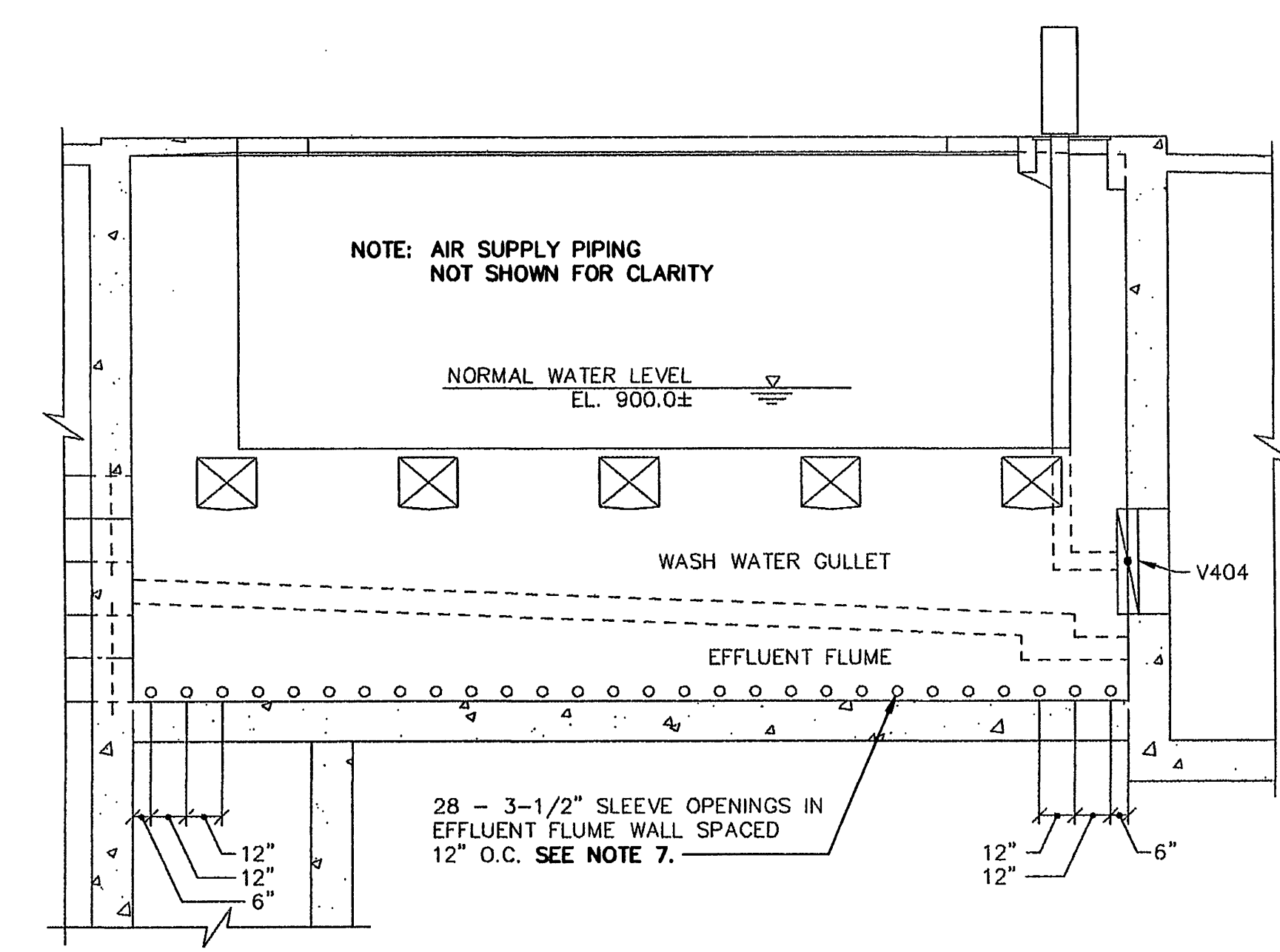
TYPICAL FILTER PLAN @ EL. 906 (FILTER NO. 4 SHOWN)
SCALE: 1/4" = 1'-0"



SECTION 1
SCALE: 1/4" = 1'-0"



SECTION 2
SCALE: 1/4" = 1'-0"

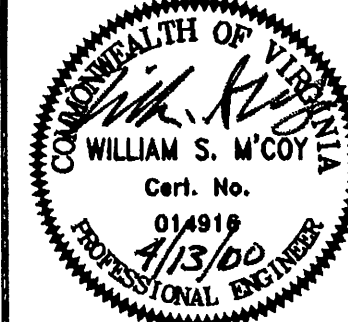


SECTION 3
SCALE: 1/4" = 1'-0"

- NOTES:
1. NEW WORK SHOWN ON THIS SHEET FOR FILTER NO. 4 IS TYPICAL FOR ALL FILTERS CONTRACTED TO BE REHABILITATED.
 2. FILL ALL VOIDS FROM REMOVAL OF EXISTING PIPING, BOLTS, AND ACCESSORIES, INCLUDING REMOVAL OF SURFACE WASH PIPING FROM CONCRETE TROUGHS, WITH NON-SHRINK, NON-METALLIC GROUT.
 3. INSTALL NEW UNDERDRAINS WITH MEDIA RETENTION CAP AND PIPE NIPPLES, SAND AND ANTHRACITE MEDIA, AND AIR PIPING IN FILTER AS SHOWN AND SPECIFIED.
 4. PROVIDE 304 S.S. ANGLE WITH S.S. CONCRETE ANCHORS FOR UNDERDRAIN ANCHORING AT WALLS. SIZE AS RECOMMENDED BY FILTRATION EQUIPMENT MANUFACTURER (TYP. ALL WALLS).
 5. ALL AIR PIPING SUPPORTS AND HARDWARE SHALL BE 304 S.S., AND SHALL BE DESIGNED BY THE FILTRATION EQUIPMENT MANUFACTURER.
 6. FLEXIBLE TUBING SHALL BE SECURED TO S.S. DROP PIPES AND UNDERDRAIN NIPPLES USING S.S. HOSE CLAMPS AS RECOMMENDED BY FILTRATION EQUIPMENT MANUFACTURER.
 7. UNDERDRAIN LATERAL CENTERLINES SHALL BE ALIGNED WITH EXISTING WALL SLEEVE CENTERLINES.
 8. PROVIDE BLIND FLANGES ON BOTH ENDS OF WALL PIPE.
 9. FIELD-VERIFY LOCATIONS OF ALL ITEMS AND STRUCTURES WHICH MAY EFFECT LAYOUT OF NEW EQUIPMENT.
 10. PROVIDE BLIND FLANGES ON BOTH ENDS OF 8" PIPE CAST INTO INFLUENT CONDUIT WALLS.

7954 ADMIN L:\0060 - CITY OF ROANOKE\WPCFCA\CADD\CONTRACT\0060M02 Scale: 1/4" = 1'-0" Date: 02/08/2000 Time: 09:02

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REVISIONS				
NO.	BY	DATE	REMARKS	

DES: B.J.L./P.B.B.
DWN: J.L.C.
CKD:



CITY OF ROANOKE, VIRGINIA
**WATER POLLUTION
CONTROL PLANT**
EFFLUENT FILTER REHABILITATION

**EFFLUENT FILTERS
TYPICAL FILTER PLAN
AND SECTIONS**
SCALE: 1/4" = 1'-0"

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DATE: APRIL 2000
M SHEET 2 OF 3
CAD REF. NO. 0060M002