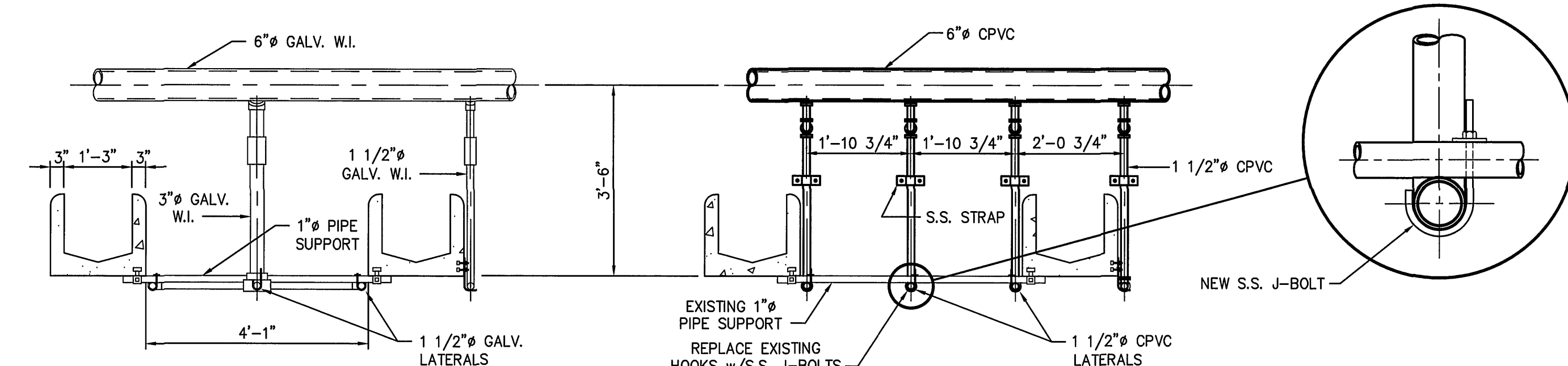
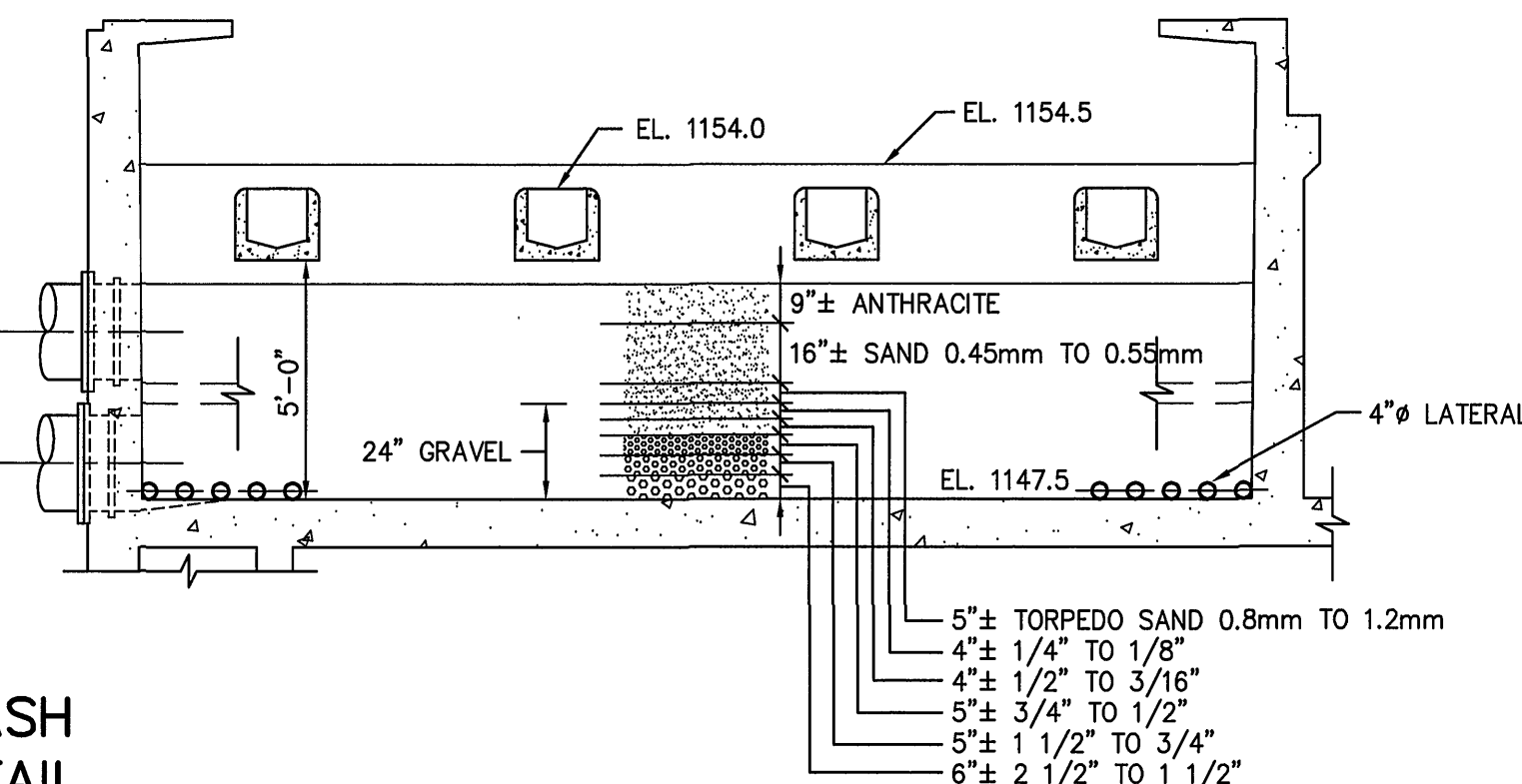
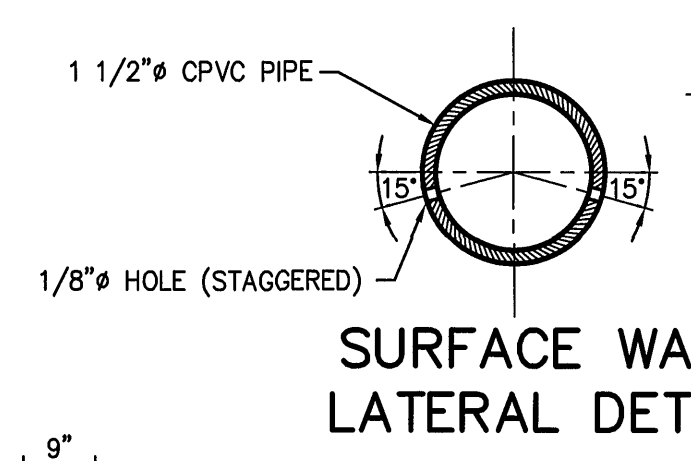


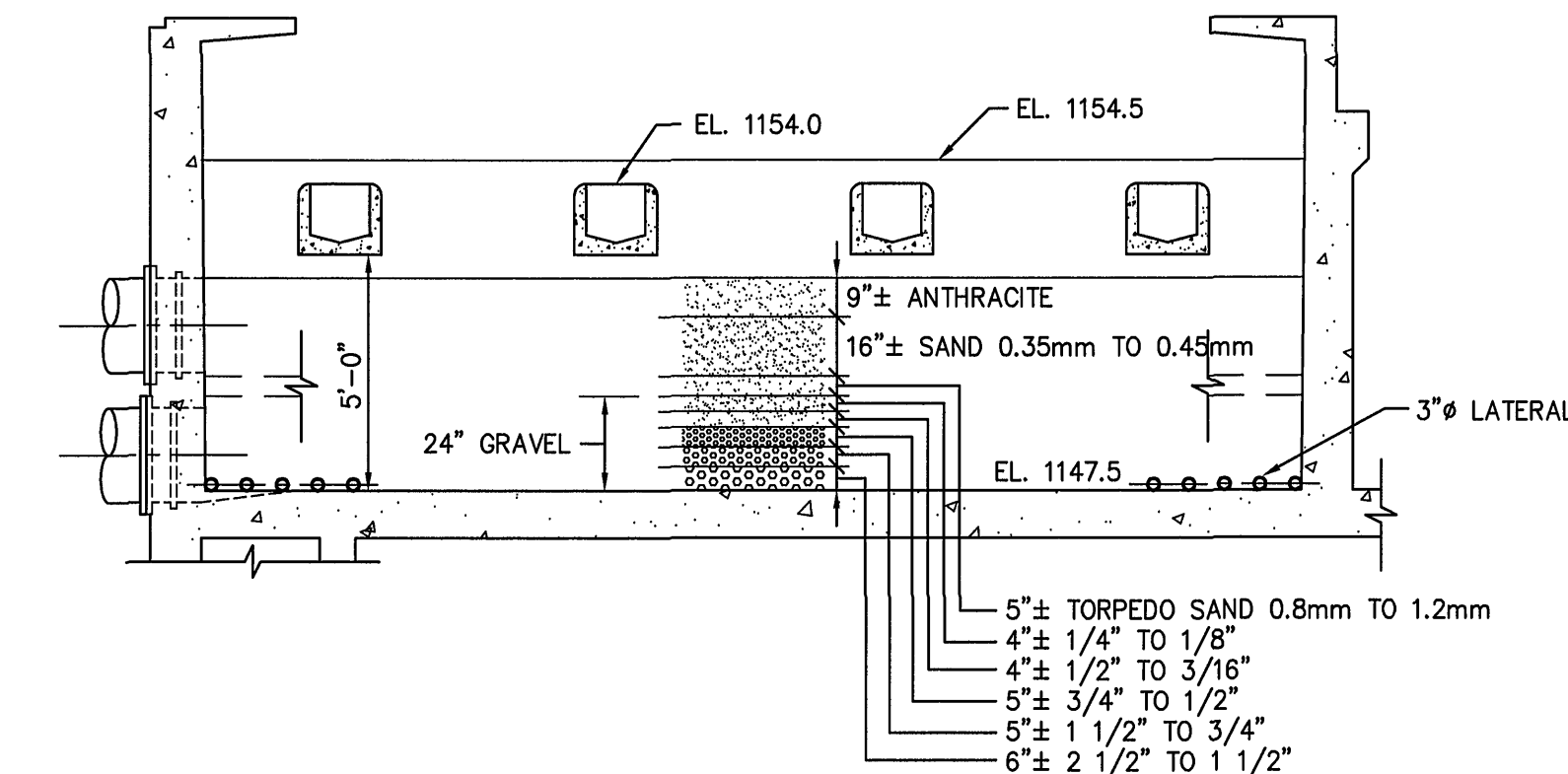


EXIST. SECTION (1954 FILTERS - #5 to #10)
SCALE: 1/2" = 1'-0"

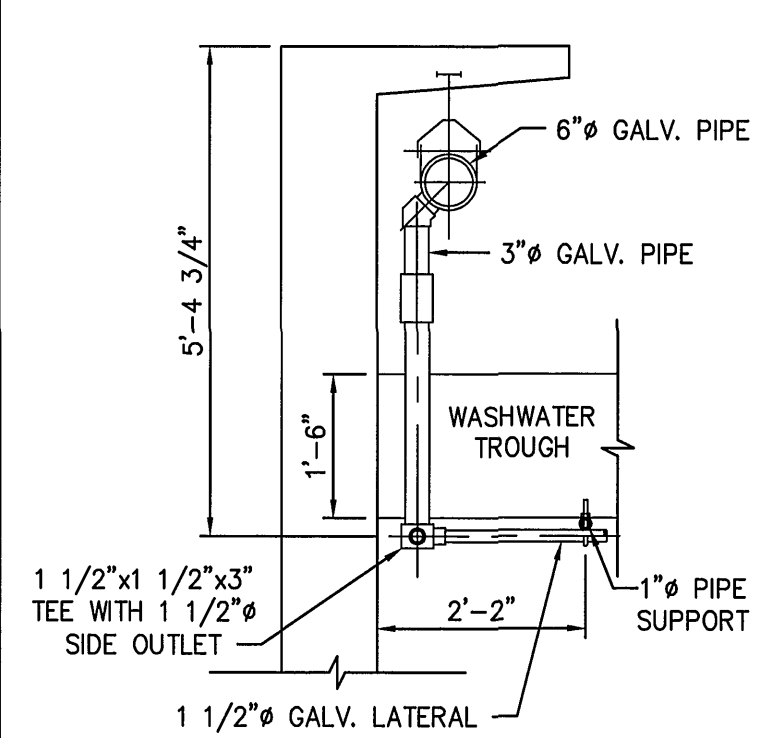
NEW SECTION (1954 FILTERS - #5 to #10)
SCALE: 1/2" = 1'-0"



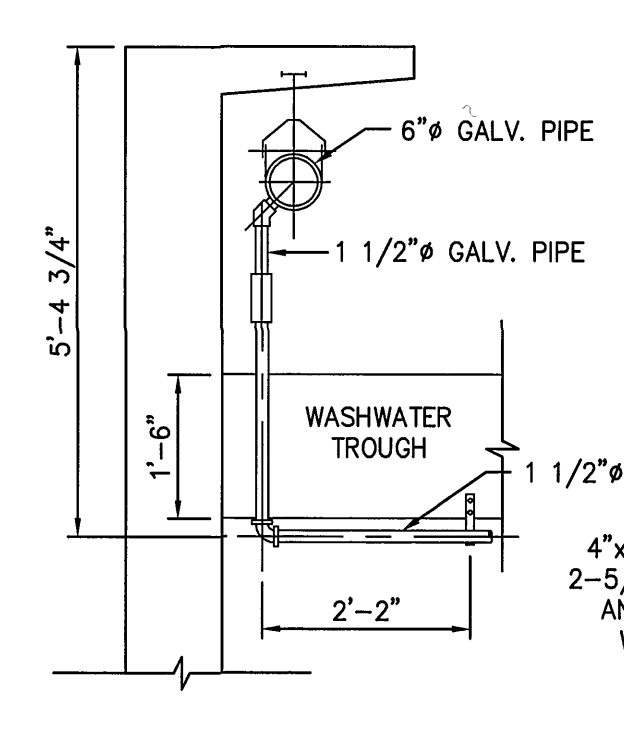
EXISTING FILTER MEDIA FOR 1954 FILTERS (#5 to #10)
SCALE: 1/4" = 1'-0"



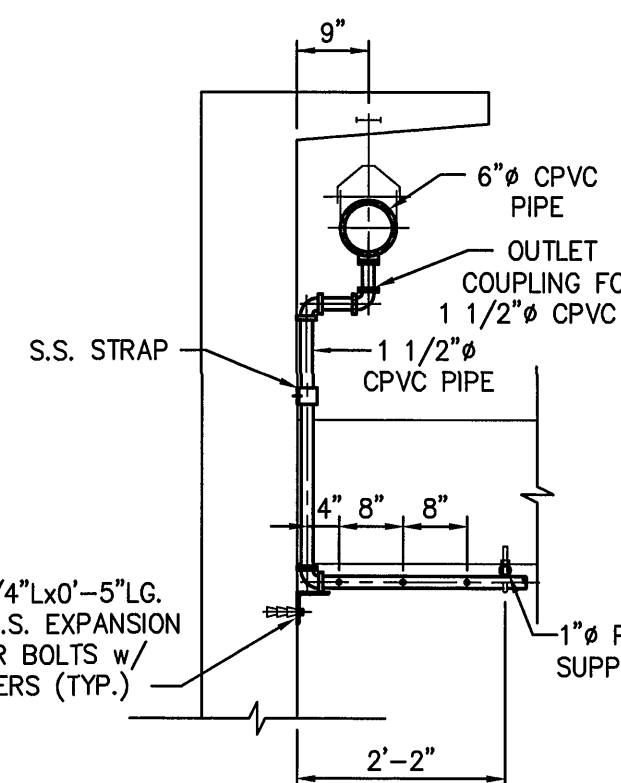
EXISTING FILTER MEDIA FOR 1944 FILTERS (#1 to #4)
SCALE: 1/4" = 1'-0"



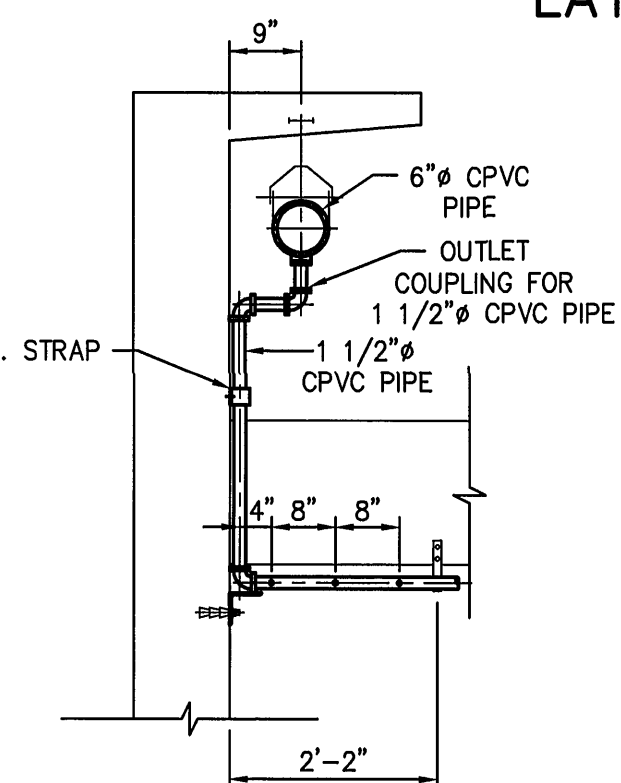
EXISTING SECTION (1954 FILTERS)
SCALE: 1/2" = 1'-0"



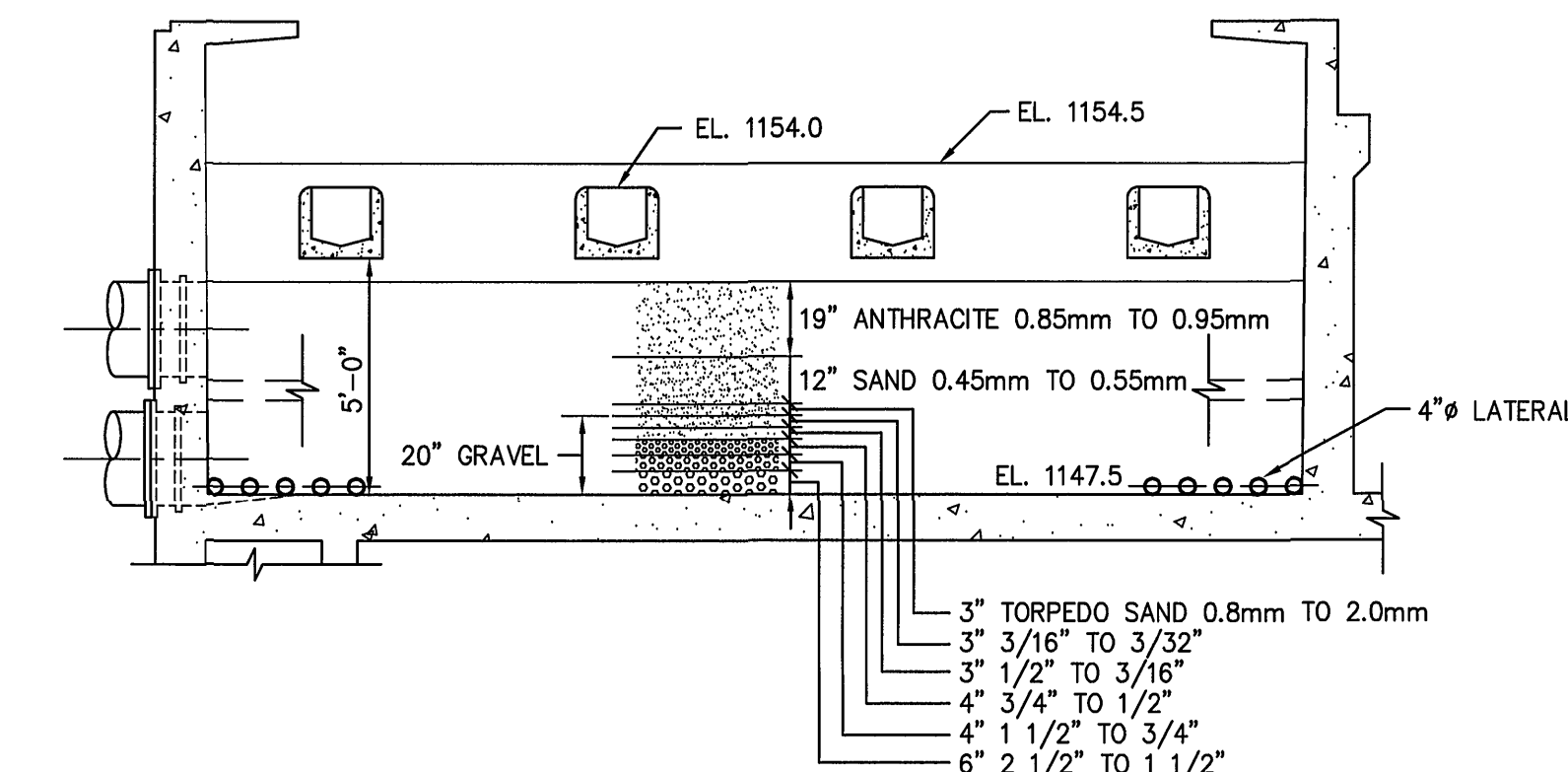
EXISTING SECTION (1954 FILTERS)
SCALE: 1/2" = 1'-0"



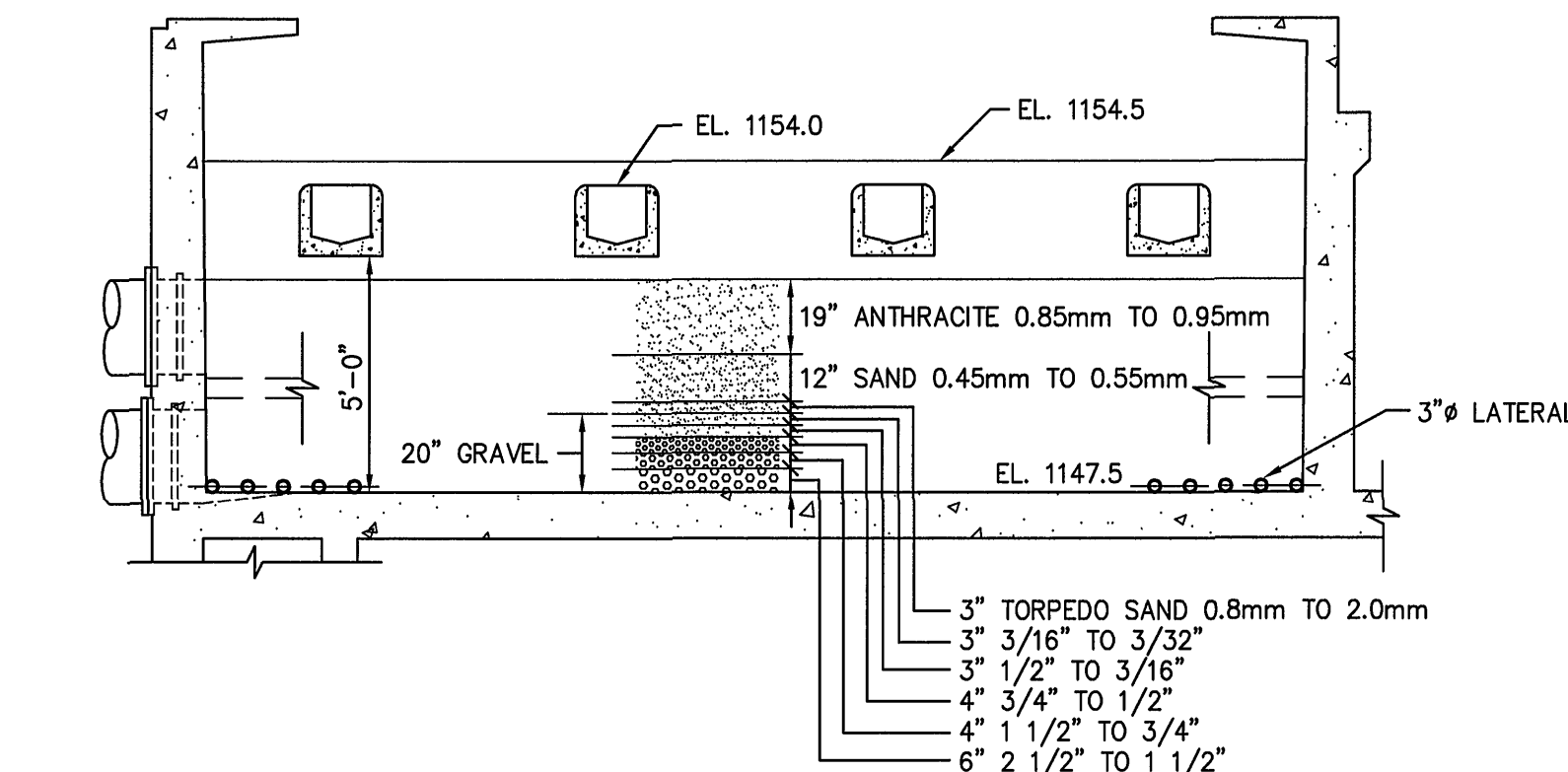
NEW SECTION (1954 FILTERS)
SCALE: 1/2" = 1'-0"



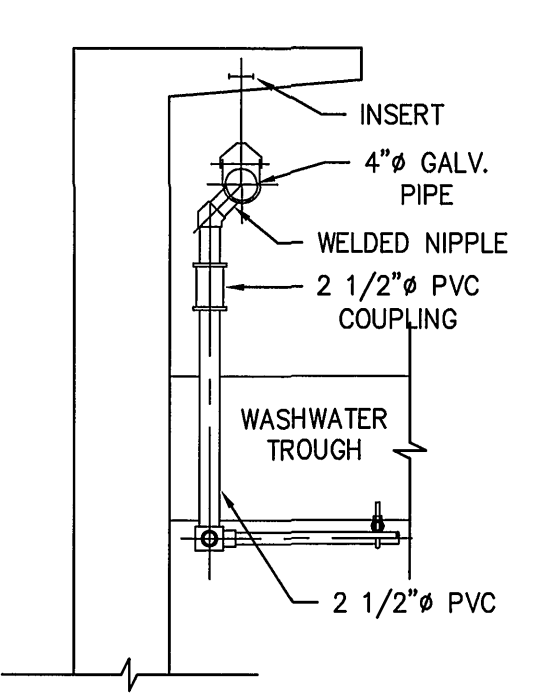
NEW SECTION (1954 FILTERS)
SCALE: 1/2" = 1'-0"



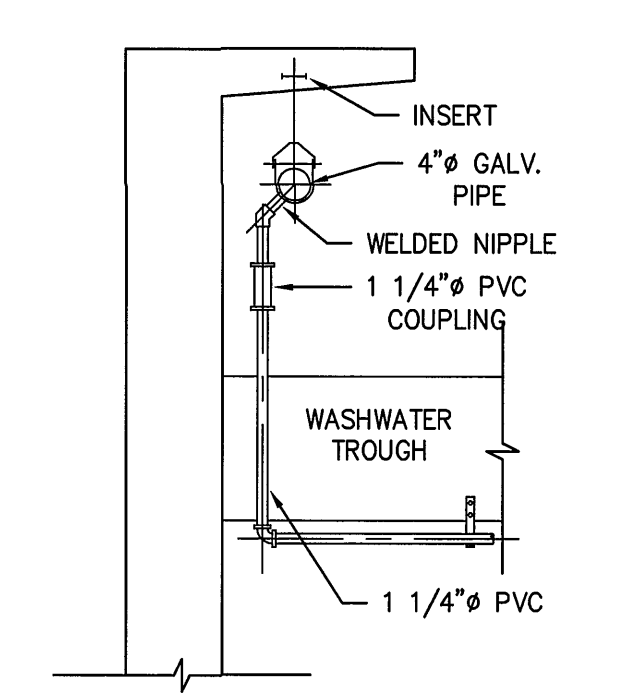
NEW FILTER MEDIA FOR 1954 FILTERS (#5 to #10)
SCALE: 1/4" = 1'-0"



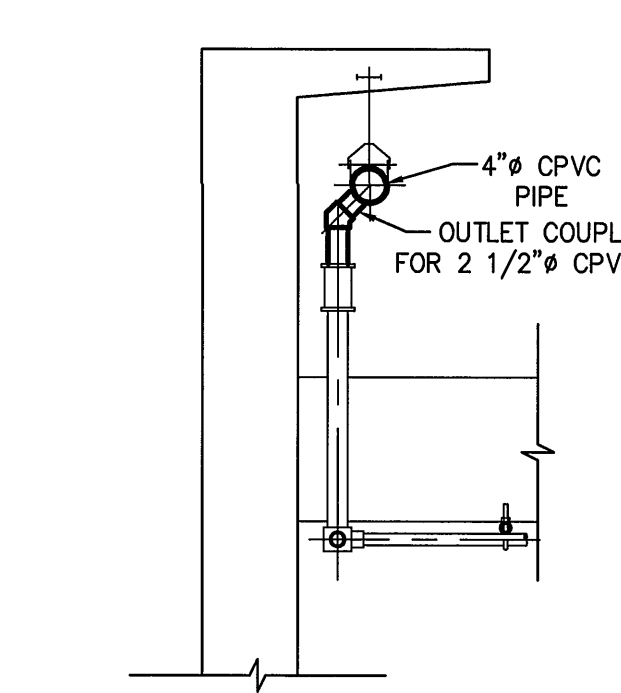
NEW FILTER MEDIA FOR 1944 FILTERS (#1 to #4)
SCALE: 1/4" = 1'-0"



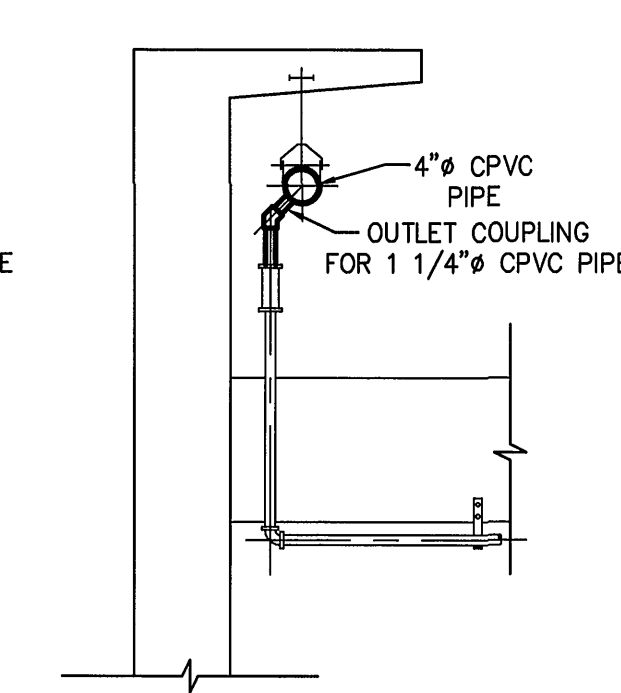
EXISTING SECTION (1944 FILTERS)
SCALE: 1/2" = 1'-0"



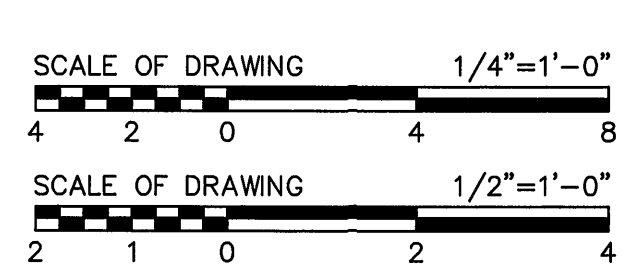
EXISTING SECTION (1944 FILTERS)
SCALE: 1/2" = 1'-0"



NEW SECTION (1944 FILTERS)
SCALE: 1/2" = 1'-0"



NEW SECTION (1944 FILTERS)
SCALE: 1/2" = 1'-0"



GENERAL NOTES FOR FILTER MEDIA REPLACEMENT

- CONTRACTOR SHALL PERFORM FILTER MEDIA REPLACEMENT WORK FOR ALL THE TEN (10) FILTER UNITS.
- CONTRACTOR MAY USE NEW FILTER MEDIA OR EXISTING FILTER MEDIA.
- IF EXISTING FILTER MEDIA IS REUSEABLE, IT SHALL BE THOROUGHLY CLEANED, RECLASSIFIED, TESTED AND REVIEWED BY ENGINEER AND PLACED AS SPECIFIED.
- CONTRACTOR SHALL PROVIDE ADDITIONAL FILTER MEDIA TO MAKE UP THE DIFFERENCE BETWEEN THE EXISTING FILTER MEDIA AND THE FILTER MEDIA SPECIFIED.
- CONTRACTOR SHALL VERIFY THE DEPTH AND SIZES OF THE EXISTING FILTER MEDIA IN THE FIELD.

NEW FILTER MEDIA	DEPTH		SIZE
	1944 FILTERS #1-#4	1954 FILTERS #5-#10	
ANTHRACITE	19"	19"	0.85mm TO 0.95mm
SAND	12"	12"	0.45mm TO 0.55mm
TORPEDO SAND	3"	3"	0.8mm TO 2.0mm
GRAVEL	3"	3"	3/16" TO 3/32"
	3"	3"	1/2" TO 3/16"
	4"	4"	3/4" TO 1/2"
	4"	4"	1 1/2" TO 3/4"
TOTAL DEPTH	54"	54"	

DRAWING OF RECORD
DATE: SEP 30 1997

MATTERN & CRAIG CONSULTING ENGINEERS • SURVEYORS ROANOKE VIRGINIA	DESIGNED: R.S.T.C. W.G.N.		REV.	DATE	DESCRIPTION	BY	APP.	CARVINS COVE FILTER PLANT IMPROVEMENTS - PHASE I ROANOKE, VIRGINIA	DATE APRIL 1992
	DRAWN: L.M.J.								COMM. NO. 9130
	CHECKED: Y.T.L.								SHEET FL6

ALVORD, BURDICK & HOWSON
ENGINEERS CHICAGO

FILTER MEDIA & SURFACE WASH PIPING

PLAN NO. 6199