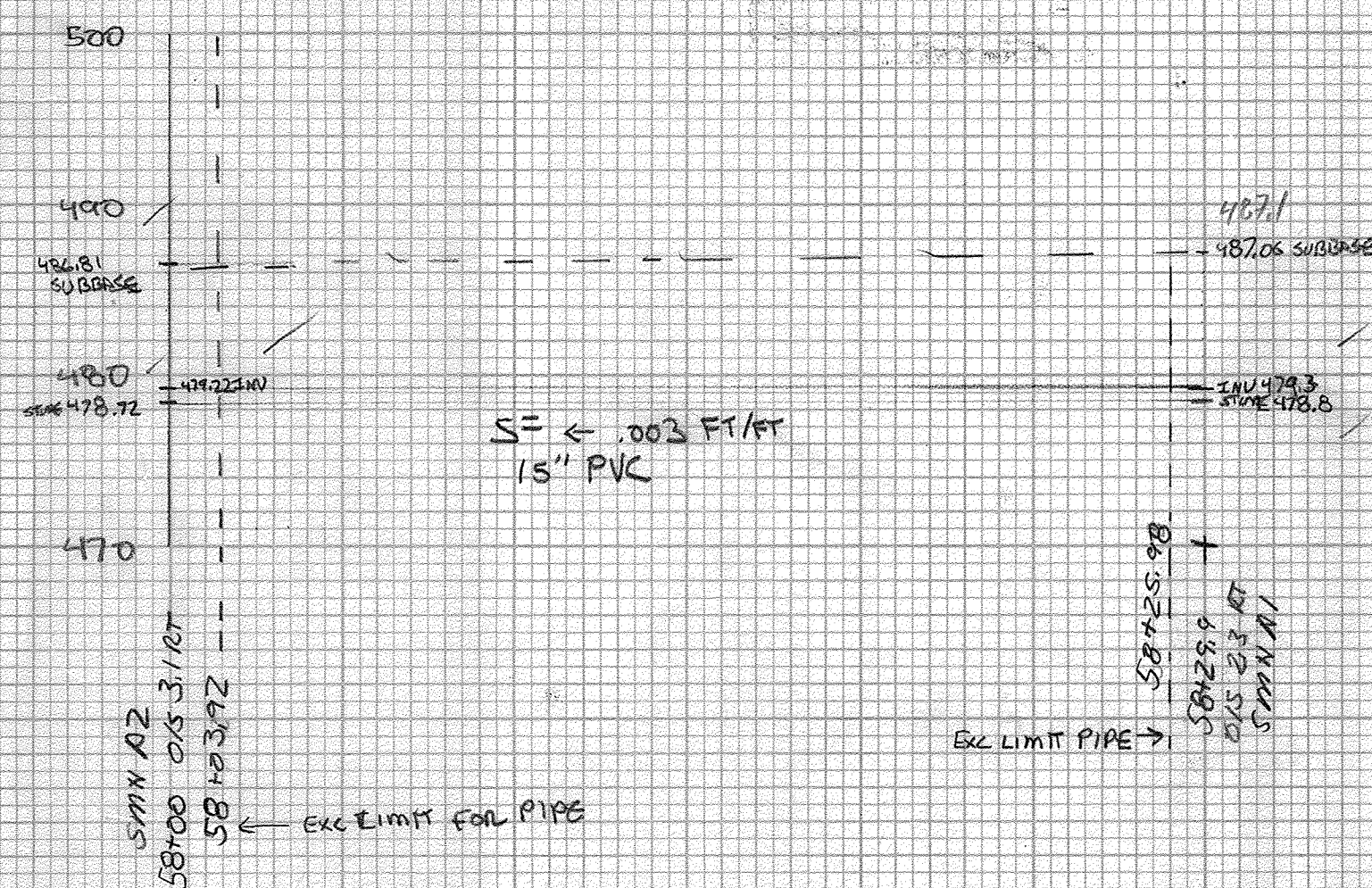


49 58+00 RT O/S 3.1 RT TO 58+29.9 RT O/S 2.3 RT (30 L.F.)
 SMH A2 SMH A1



ITEM 204.20 TRENCH EXCAVATION OF EARTH

STATION	HEIGHT	AVG RT	± 5'	WIDTH	LENGTH	C.Y.	150%
58+03.92	8.09	8.18	5	3.28	22.06	13.40	17.78
58+25.98	8.26	8.18	5	3.28	22.06	13.40	17.78
						26.18	39.56

BL 5/16/07 PD 10/23/07

EXCAVATION OF MNS A1 TO BE BASED ON SHOP DWG.

ITEM 204.30 GRANULAR BACK FILL FOR STRUCTURE
 $(22.06 + 5 + 5 + 1) \times 3.28 \times 1.13 \times 1.27 = 3.44$ C.Y.
 UNDER MNS A1 = 1.20 C.Y.
 4.64 C.Y.

SEWER MNS A1

HEIGHT $(487.06 - 179.3) + 1.2$ INVERT TO BOTTOM OF DUMP + 1.5' SLIDE = 9.96'
 5' DIA STRUCTURE F.M. DIM. 8.42' STYKE + 5' + 5' + 1.8' = 7.6' R.O.S. 2' 9.6' DIA
 $5 \times (4.8)^2 \pi \times 1.27 = 13.4$ C.Y.
 $4.96 \times (4.8)^2 \pi \times 1.27 \times 1.50 = 11.75$ C.Y.
 4.46
 21.33 C.Y. CP# 1/3/08

2.12 C.Y. FOR MNS A2 SEE SHEET 5 FOR CALC.
 SUBTOTAL = 47.38 C.Y. - 1.73 = 45.64 C.Y. 05/12/10
 1.73 C.Y. TRENCH ROCK REMOVAL EXISTING STRUCTURES 10/23/07
 2.31 C.Y. SOCIO ROCK MNS A2 10/23/07
 48.34 C.Y. 3/1/08
 NOT INCLUDED IN TRENCH EARTH AREA

50 STATION 58+29.9 RT O/S 2.3 RT TO 58+47.8 LT (MNS A1) (MNS B98) (34 L.F.) USE 26.16 L.F.*



STATION	HEIGHT	AVG RT	± 5'	WIDTH	LENGTH	C.Y.	150%
58+33.82	8.16	7.97	5	3.28	26.16	15.89	23.84
58+43.88	7.78	7.97	5	3.28	26.16	15.89	23.84
						30.05	45.07

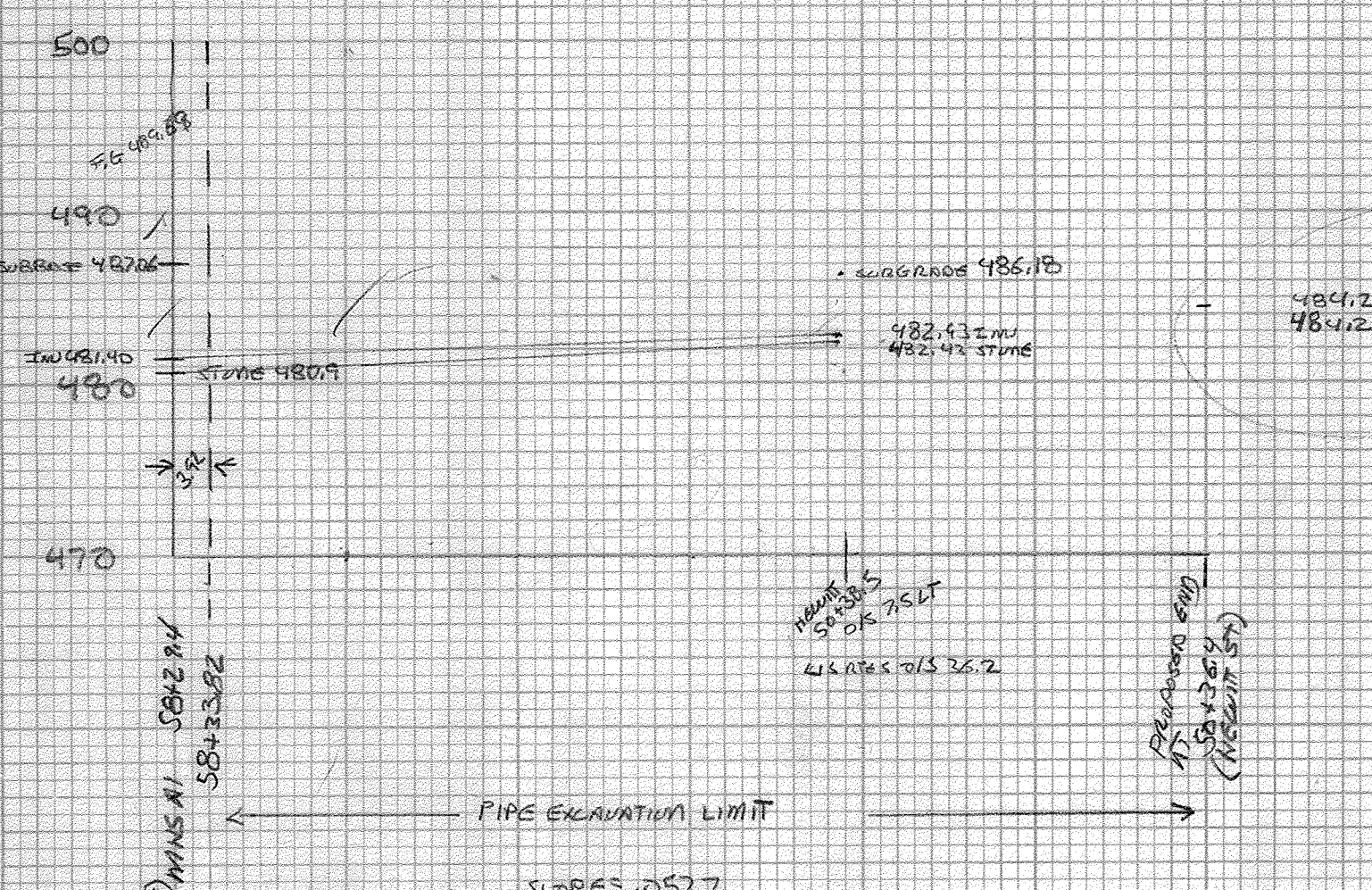
BL 5/16/07 PD 10/26/07

MNS B98 - EXISTING - NO EXCAVATION.

ITEM 204.30 GRANULAR BACK FILL FOR STRUCTURE
 $(26.16 + 5 + 1 + 5 + 1) \times 1.13 \times 3.28 \times 1.27 = 4.00$ C.Y.

30.05 TRENCH MARKING EXC.
 3.13 C.Y. 3/1/08
 61.38 C.Y. 3/1/08
 1.72
 57.75
 59.06 C.Y. 05/12/10
 1/3/11
 REMOVAL OF A-1 ROCK 10/23/07
 TRENCH 10/23/07
 SOLID ROCK NOT INCL IN TRENCH EARTH AREA

56 (MNS A1) STATION 58+29.4 RT TO 58+36.4 LT (NEW LITH ST) 40 L.F.
 CONNECT TO EXISTING 10" V.C. PIPE



58+29.4 487.06 - 480.9 = 6.16
 58+36.4 486.18 - 482.43 = 3.75
 $4.76 \times (38.5 - 1.92 + 1) \times 3.28 \times 1.27 = 22.64$ C.Y.
 73.12/10/07

1.92' FROM EXCAVATION OF STRUCTURE 1.42' WALL, 1.5' SLIP 1' INTERIOR LIMIT = 1.92'

CP# 2/01/08