

CURVE 'A' & ROAD
 $\Delta = 56^{\circ}10'35''$ LT
 $R = 286.479'$
 $L = 280.88'$
 $T = 152.89'$
 $C = 269.77'$
 $PC = 0+72.15$
 $PI = 2+30.07$
 $PT = 3+53.03$



LOCATION SCHEDULE (# "A")

ITEM	STATION	OFFSET
SMH 80	1+91	37 L
SMH 81	4+66	107 L
SMH 82	3+02	18 R
SMH 83	4+42	47 R
SMH 99	1+78	96 R

SIGHT DISTANCE

ENTR. #	DISTANCE
1	250' 350' (1)
2	350' 350' (1)
3	350' 350'
4	350' 350'

NOTES: (1) MUST LOOK OVERLAND TO DECEL LANE

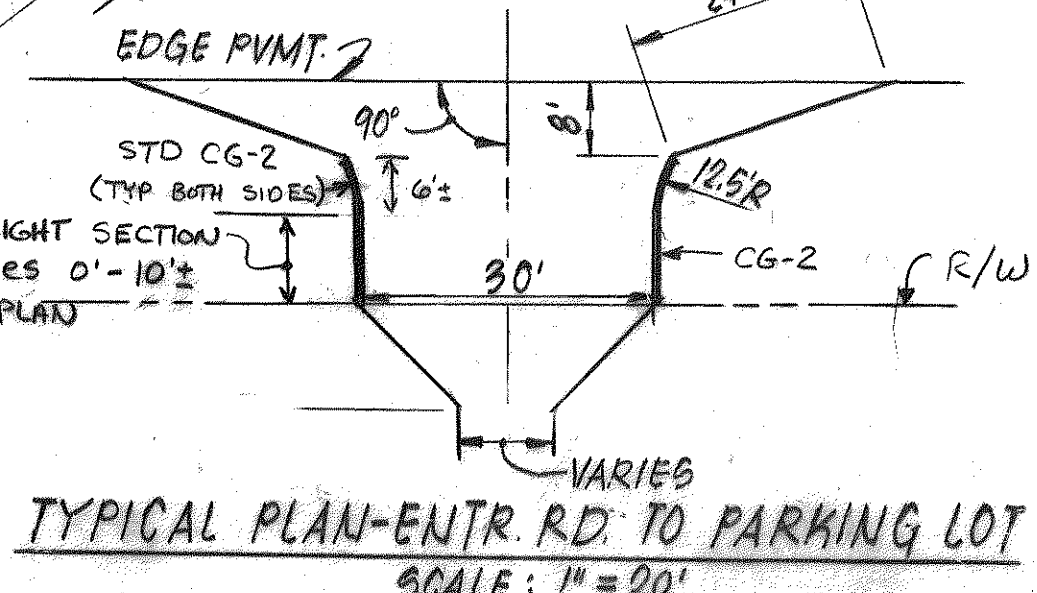
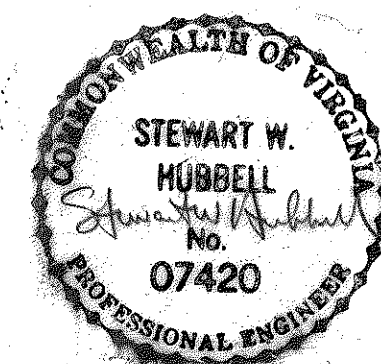
REVISION	DATE	DESCRIPTION	BY	APP
1	8/10/84	AS BUILT WITHIN RIGHT-OF-WAY	SWH	
2	6/16/84	REV AS BUILT SEWER LINE	SWH	
3	9/10/88	REV ROAD LOCATION	SWH	
4	11/2/84	REV PER VDHT COMMENTS	SWH	
5	9/11/84	REV PER VDHT COMMENTS	SWH	
6	9/11/84	REV PER VDHT COMMENTS	SWH	
7	8/16/84	REV PER VDHT COMMENTS	SWH	

DESIGNED: AB
DRAWN: SEM
CHECKED: SWH
APPROVED:
SUBMITTED:

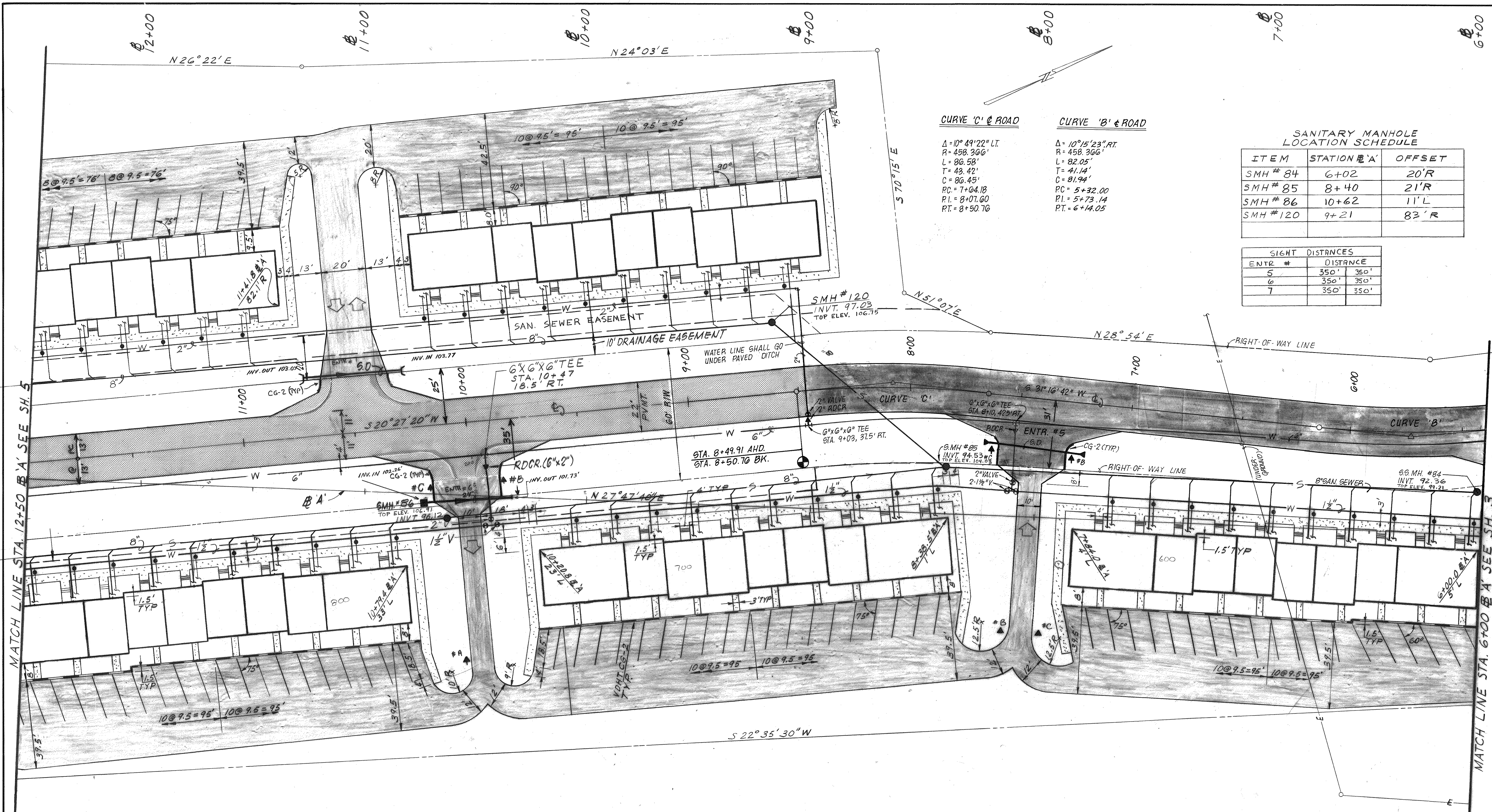
TINKERVIEW TOWNHOUSES
DIMENSIONAL LAYOUT & UTILITIES

Mattern and Craig
 CONSULTING ENGINEERS
 ROANOKE, VIRGINIA

SCALE: 1"=20'
DATE: JUNE 84
COMMITTEE NO.: 485-A
SHEET: 3



RTE 654 CURVE
 $R = 210'$
 $\Delta = 64^{\circ}$
 $PC \text{ TO } \epsilon \text{ OF DEV. ROAD} = 212'$



CURVE 'C' @ ROAD

Δ = 10° 49' 22" LT
 R = 458.306'
 L = 86.58'
 T = 43.42'
 C = 86.45'
 PC = 7+04.18
 PI = 8+07.60
 PT = 8+50.76

CURVE 'B' @ ROAD

Δ = 10° 15' 23" RT
 R = 458.306'
 L = 82.05'
 T = 41.14'
 C = 81.94'
 PC = 5+32.00
 PI = 5+73.14
 PT = 6+14.05

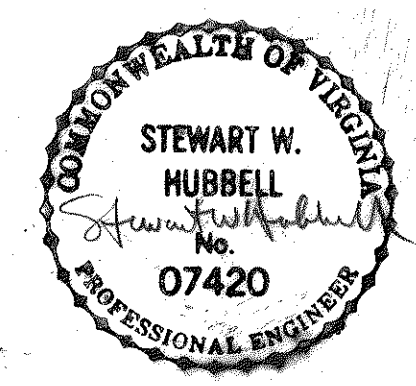
SANITARY MANHOLE LOCATION SCHEDULE

ITEM	STATION @ A'	OFFSET
SMH # 84	6+02	20' R
SMH # 85	8+40	21' R
SMH # 86	10+62	11' L
SMH # 120	9+21	83' R

SIGHT DISTANCES		
ENTR #	DISTANCE	
5	350'	350'
6	350'	350'
7	350'	350'

MATCH LINE STA. 12+50 @ A' SEE SH. 5

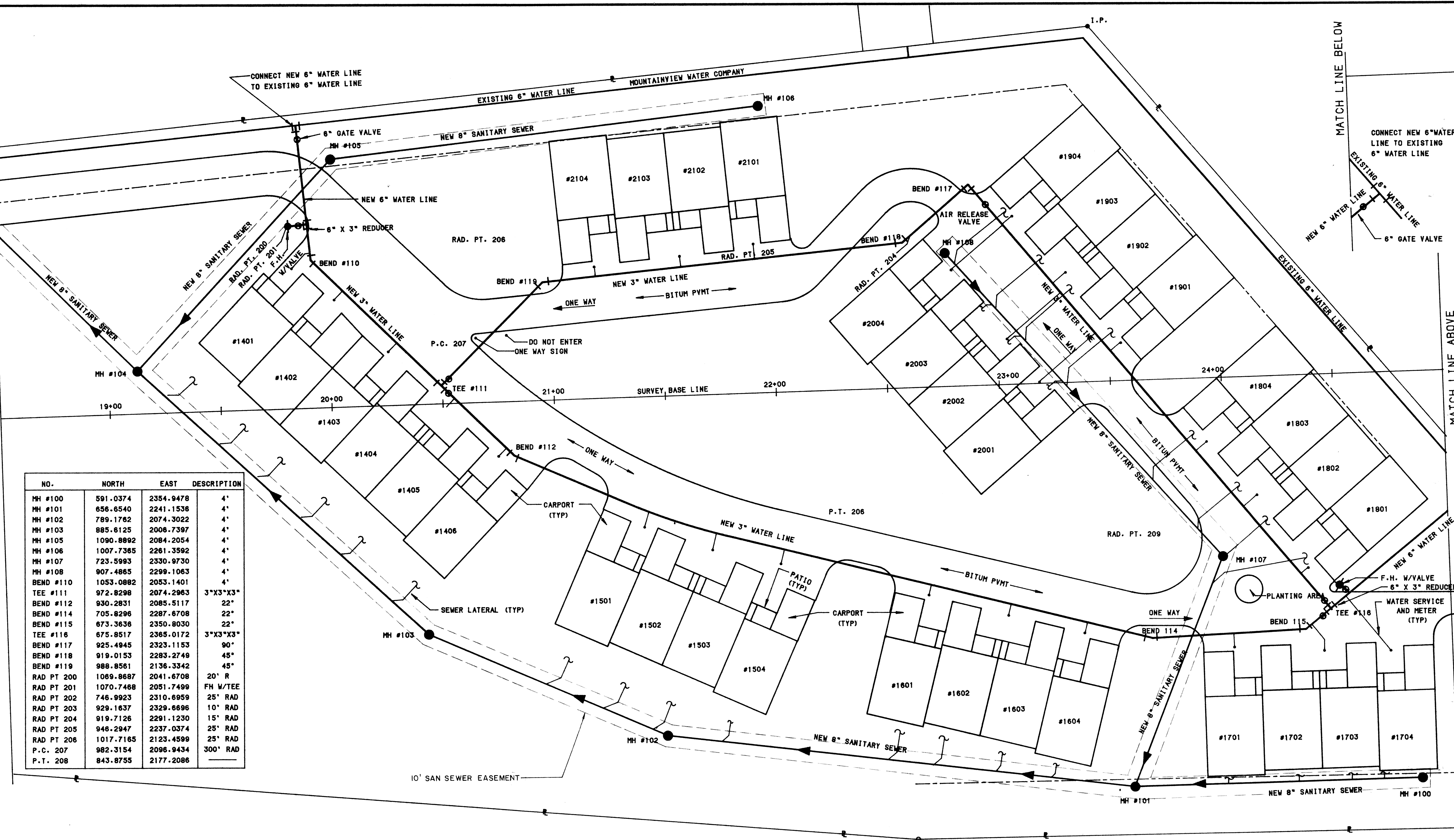
MATCH LINE STA. 6+00 @ A' SEE SH. 3



DESIGNED	6/10/89 As Built Within Right-of-Way	MSA	SWH										
DRAWN	6/16/89 REV. AS BUILT SEWER LINE												
CHECKED	6/20/88 REV TO SHOW 3 BEDROOM UNITS		SWH										
APPROVED	9/11/84 REV PER VDHT COMMENTS		SWH										
SUBMITTED	9/11/84 REV PER VDHT COMMENTS		SWH										
	8/16/84 REV PER VDHT COMMENTS		SWH										
<table border="1"> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP</th> </tr> <tr> <td colspan="5"> TINKERVIEW TOWNHOUSES DIMENSIONAL LAYOUT & UTILITIES </td> </tr> </table>				REVISION	DATE	DESCRIPTION	BY	APP	TINKERVIEW TOWNHOUSES DIMENSIONAL LAYOUT & UTILITIES				
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TINKERVIEW TOWNHOUSES DIMENSIONAL LAYOUT & UTILITIES													
Mattern and Craig CONSULTING ENGINEERS ROANOKE, VIRGINIA		SCALE: 1"=20' DATE: JUNE 84	COMM. NO. 485-A SHEET 4										

SHEET 5
MATCH LINE 18+50

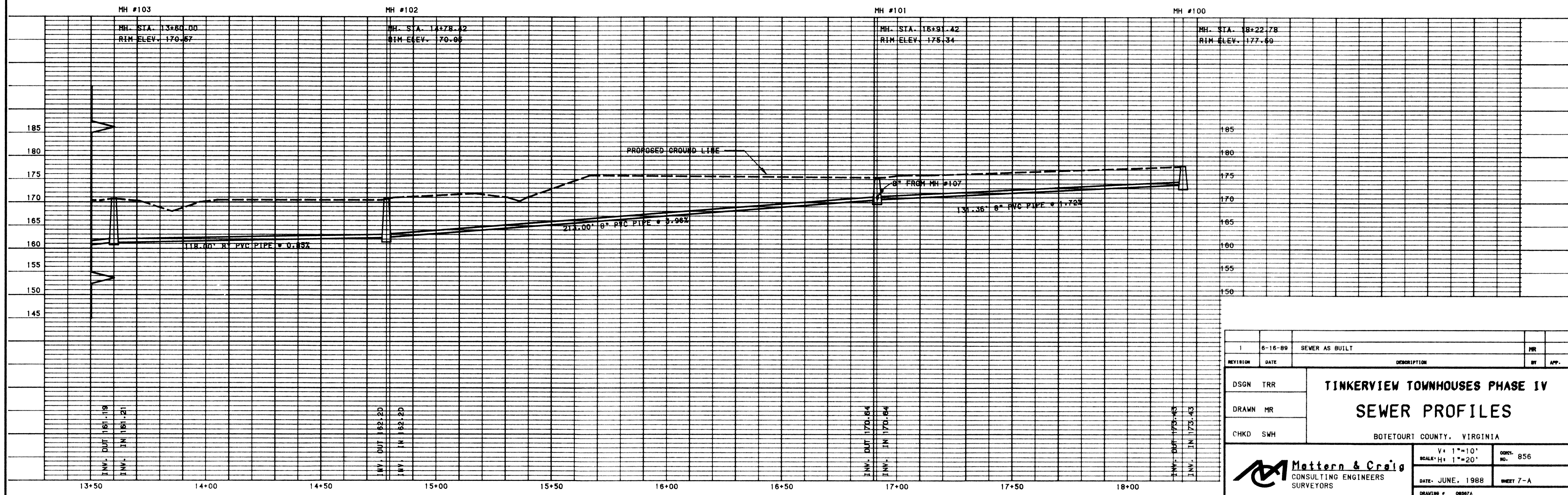
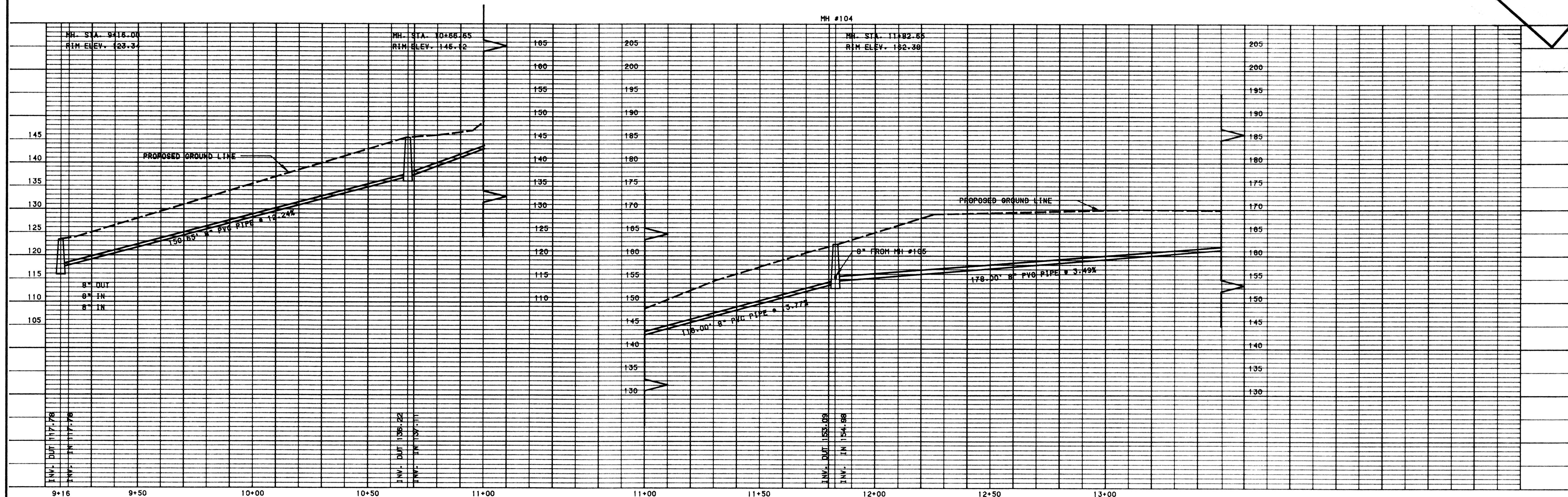
NO.	NORTH	EAST	DESCRIPTION
MH #100	591.0374	2354.9478	4'
MH #101	656.6540	2241.1536	4'
MH #102	789.1762	2074.3022	4'
MH #103	885.6125	2008.7397	4'
MH #105	1090.8892	2084.2054	4'
MH #106	1007.7365	2261.3592	4'
MH #107	723.5993	2330.9730	4'
MH #108	907.4865	2299.1063	4'
BEND #110	1053.0882	2053.1401	4'
TEE #111	972.8298	2074.2963	3"X3"X3"
BEND #112	930.2831	2085.5117	22"
BEND #114	705.8296	2287.6708	22"
BEND #115	673.3636	2350.8030	22"
TEE #116	675.8517	2365.0172	3"X3"X3"
BEND #117	925.4945	2323.1153	90°
BEND #118	919.0153	2283.2749	45°
BEND #119	988.8561	2136.3342	45°
RAD PT 200	1069.8687	2041.6708	20' R
RAD PT 201	1070.7468	2051.7499	FH W/TEE
RAD PT 202	746.9923	2310.6959	25' RAD
RAD PT 203	929.1637	2329.6696	10' RAD
RAD PT 204	919.7126	2291.1230	15' RAD
RAD PT 205	946.2947	2237.0374	25' RAD
RAD PT 206	1017.7165	2123.4599	25' RAD
P.C. 207	982.3154	2096.9434	300' RAD
P.T. 208	843.8755	2177.2086	



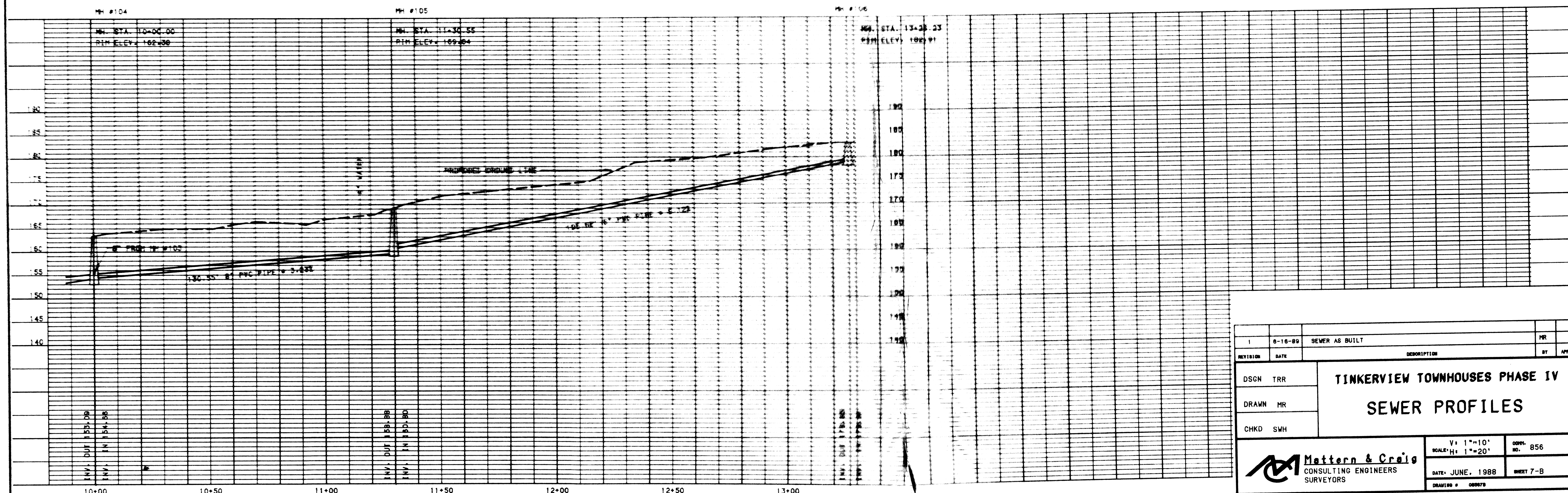
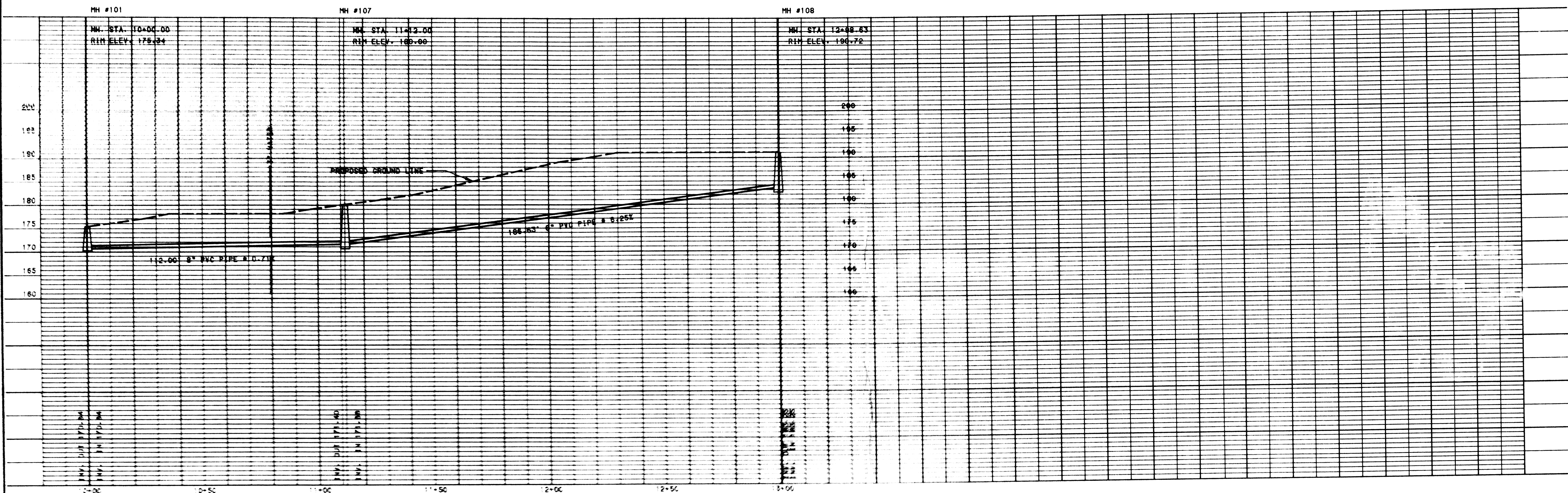
NOTES:

1. EACH UNIT IS A SINGLE LEVEL, TWO BEDROOM UNIT. PATIO AND CARPORT ARE OPTIONAL. PHASE IV CONSISTS OF 34 UNITS.
2. EACH UNIT HAS TWO PARKING SPACES. IF THE CARPORT OPTION IS SELECTED, ONE OF THESE SPACES BECOMES THE CARPORT.

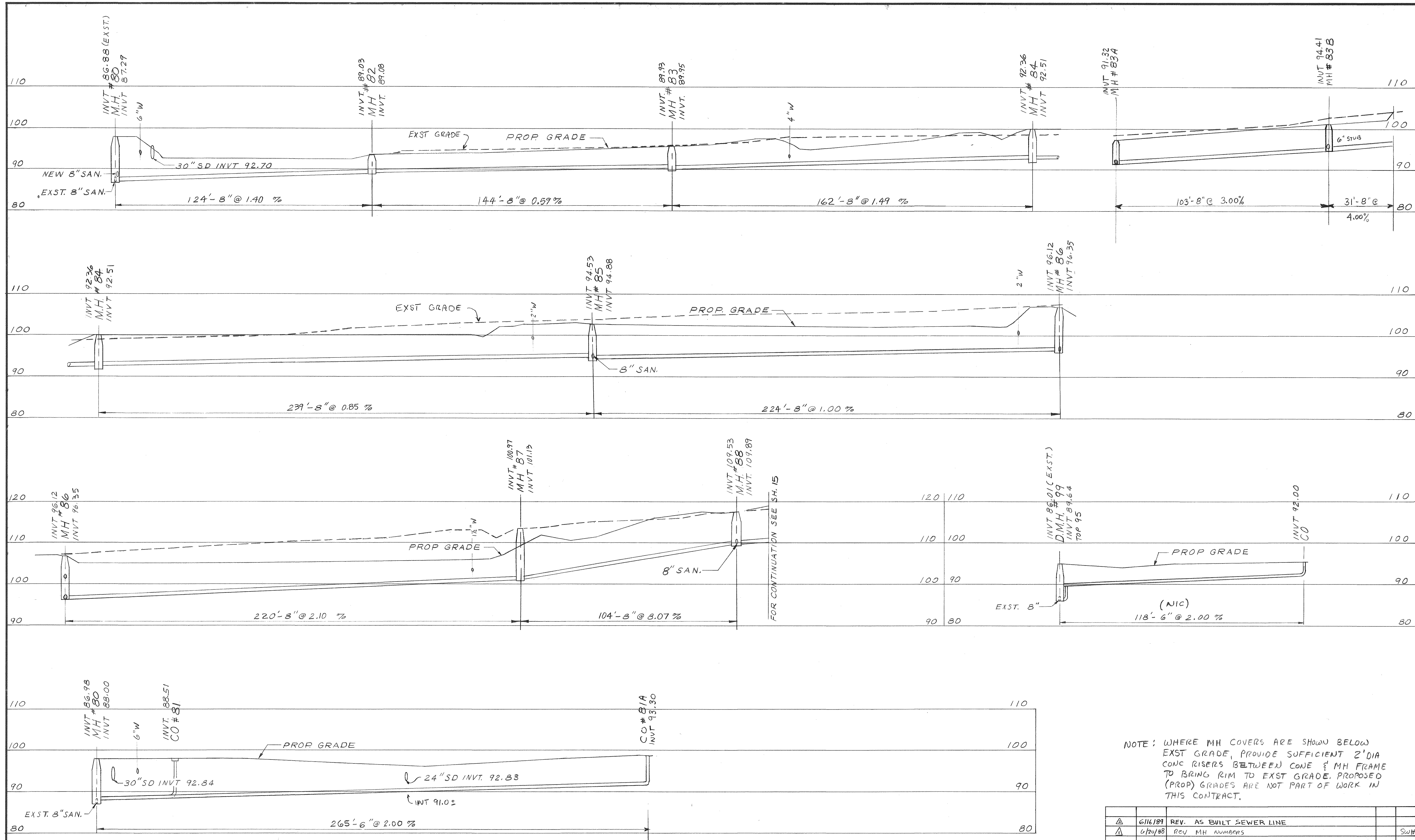
2	8-16-88	SEWER AS BUILT	MR	
1	8-14-88	REPLACES OLD SHEET 6	TNR	SWH
REVISION	DATE	DESCRIPTION	BY	APP.
DSGN	SWH	TINKERVIEW TOWNHOUSES PHASE IV DIMENSIONAL LAYOUT BOTETOURT COUNTY, VIRGINIA		
DRAWN	SWH			
CHKD	JWC			
Mattern & Craig CONSULTING ENGINEERS SURVEYORS			SCALE: 1"=20' DATE: JUNE, 1988 SHEET 6	CORR. NO.: 0856 APP.



1	6-16-89	SEWER AS BUILT	NR
REVISION	DATE	DESCRIPTION	BY APP.
DSGN	TRR	TINKERVIEW TOWNHOUSES PHASE IV	
DRAWN	MR	SEWER PROFILES	
CHKD	SWH	BOTETOURT COUNTY, VIRGINIA	
Mettern & Craig CONSULTING ENGINEERS SURVEYORS		V. 1"=10' H. 1"=20' DATE: JUNE, 1988 DRAWING # 08087A	CONC. NO. 856 SHEET 7-A

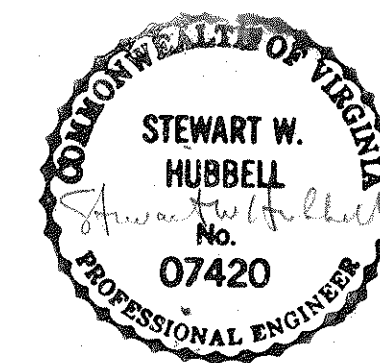


1	8-18-89	SEWER AS BUILT	PR
REVISION	DATE	DESCRIPTION	BY
DSGN	TRR	TINKERVIEW TOWNHOUSES PHASE IV	
DRAWN	MR	SEWER PROFILES	
CHKD	SWH		
Mattern & Craig CONSULTING ENGINEERS SURVEYORS		V: 1"=10' H: 1"=20' DATE: JUNE, 1988 DRAWING # 000078	CORR. NO. 856 SHEET 7-B



BRUNING 44-132 62672

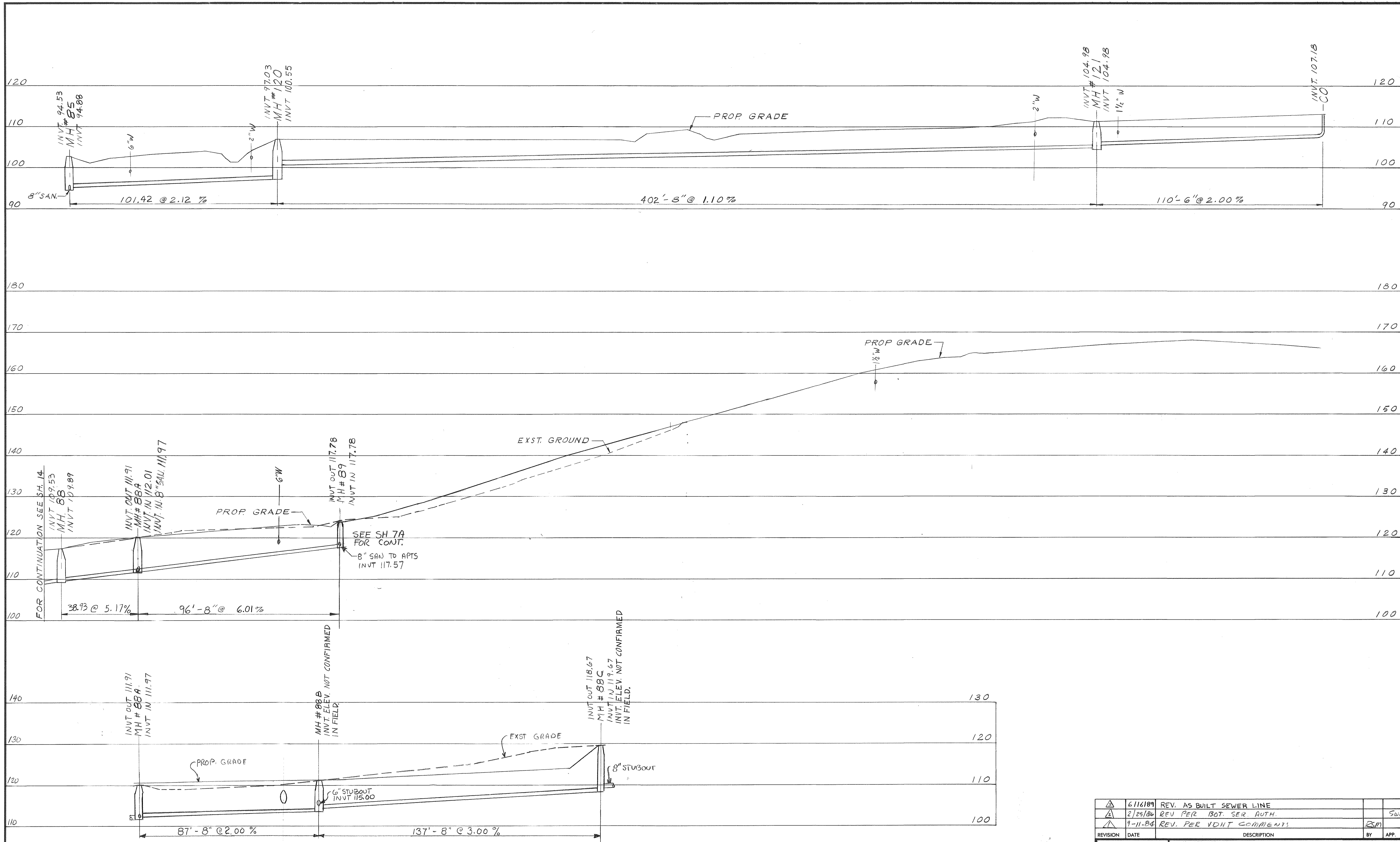
SANITARY SEWER PROFILES
 SCALES: HORIZ. 1"=20'
 VERT 1"=10'



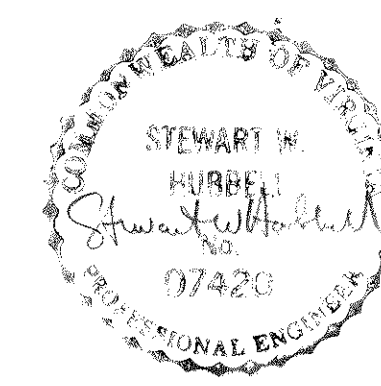
NOTE: WHERE MH COVERS ARE SHOWN BELOW EXST GRADE, PROVIDE SUFFICIENT 2'DIA CONC RISERS BETWEEN CONC & MH FRAME TO BRING RIM TO EXST GRADE. PROPOSED (PROP) GRADES ARE NOT PART OF WORK IN THIS CONTRACT.

REVISION	DATE	DESCRIPTION	BY	APP.
1	6/16/89	REV. AS BUILT SEWER LINE		
2	6/20/88	REV MH NUMBERS		SWH
DESIGNED SEM				
DRAWN SEM				
CHECKED SWH				
APPROVED				
SUBMITTED				
TINKERVIEW SEWER				
SANITARY SEWER PROFILES				
SCALE AS NOTED			485-A	
DATE: 3/86			SHEET 14	





SANITARY SEWER PROFILES
 SCALES: HORIZ. 1" = 20'
 VERT. 1" = 10'



REVISION	DATE	DESCRIPTION	BY	APP.
△	6/16/89	REV. AS BUILT SEWER LINE		
△	2/25/86	REV PER BOT. SER. AUTH.		SWH
△	9-11-84	REV. PER VDH COMMENTS	ESM	
DESIGNED SEM				
DRAWN SEM				
CHECKED SWH				
APPROVED				
SUBMITTED				
TINKERVIEW SEWER				
SANITARY SEWER PROFILES				
SCALE AS NOTED			485-A	
DATE 3/86			SHEET 15	

Mattern & Craig
 CONSULTING ENGINEERS