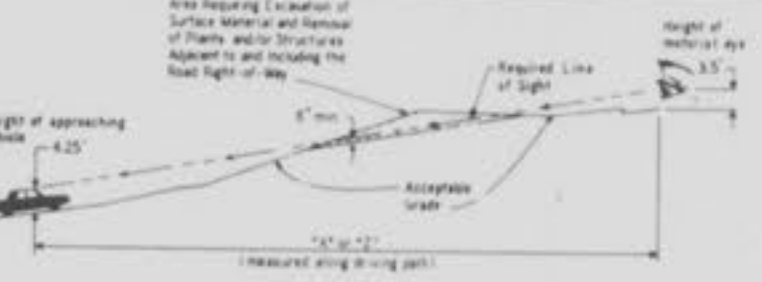
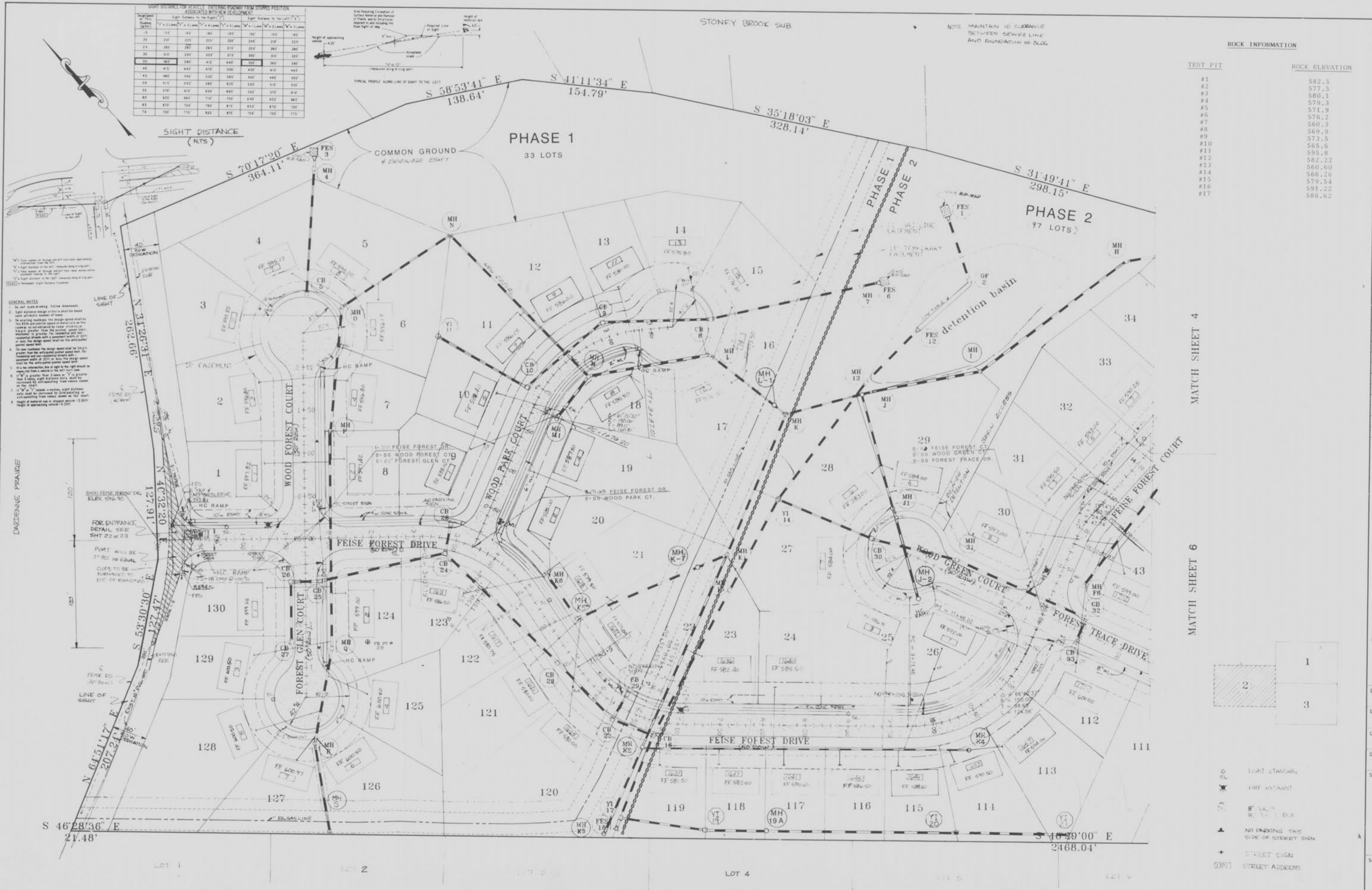


SHORT DISTANCE FOR VEHICLE ENTERING FROM SHOWN POSITION ASSOCIATED WITH NEW DEVELOPMENT

Height of Obstruction (feet)	Light Distance to the Right (feet)	Light Distance to the Left (feet)
10	130	130
20	230	230
30	330	330
40	430	430
50	530	530
60	630	630
70	730	730
80	830	830
90	930	930
100	1030	1030
110	1130	1130
120	1230	1230
130	1330	1330
140	1430	1430
150	1530	1530
160	1630	1630
170	1730	1730
180	1830	1830
190	1930	1930
200	2030	2030



SIGHT DISTANCE (NTS)



NOTE MAINTAIN 10' CLEARANCE BETWEEN SEWER LINE AND FOUNDATION OF BLDG.

ROCK INFORMATION

TEST PIT	ROCK ELEVATION
#1	582.5
#2	577.5
#3	580.1
#4	579.3
#5	571.9
#6	576.2
#7	560.3
#8	569.9
#9	573.5
#10	565.6
#11	595.8
#12	582.22
#13	560.60
#14	566.26
#15	579.54
#16	591.22
#17	586.62

- GENERAL NOTES
1. Do not scale drawing. All dimensions shall be taken from this drawing.
 2. Sight distance design criteria shall be based on the following table.
 3. On existing roadway the design speed shall be the same as the existing roadway. On new roadway the design speed shall be as established by state or local authority. In no case shall the design speed be less than 20 mph.
 4. On new roadway the design speed shall be as established by state or local authority. In no case shall the design speed be less than 20 mph.
 5. It is the responsibility of the engineer to determine the appropriate sight distance for the proposed roadway.
 6. If the sight distance is less than the required sight distance, the design speed shall be reduced to the appropriate design speed.
 7. If the sight distance is greater than the required sight distance, the design speed shall be increased to the appropriate design speed.
 8. If the sight distance is equal to the required sight distance, the design speed shall be as established by state or local authority.
 9. If the sight distance is less than the required sight distance, the design speed shall be reduced to the appropriate design speed.
 10. If the sight distance is greater than the required sight distance, the design speed shall be increased to the appropriate design speed.

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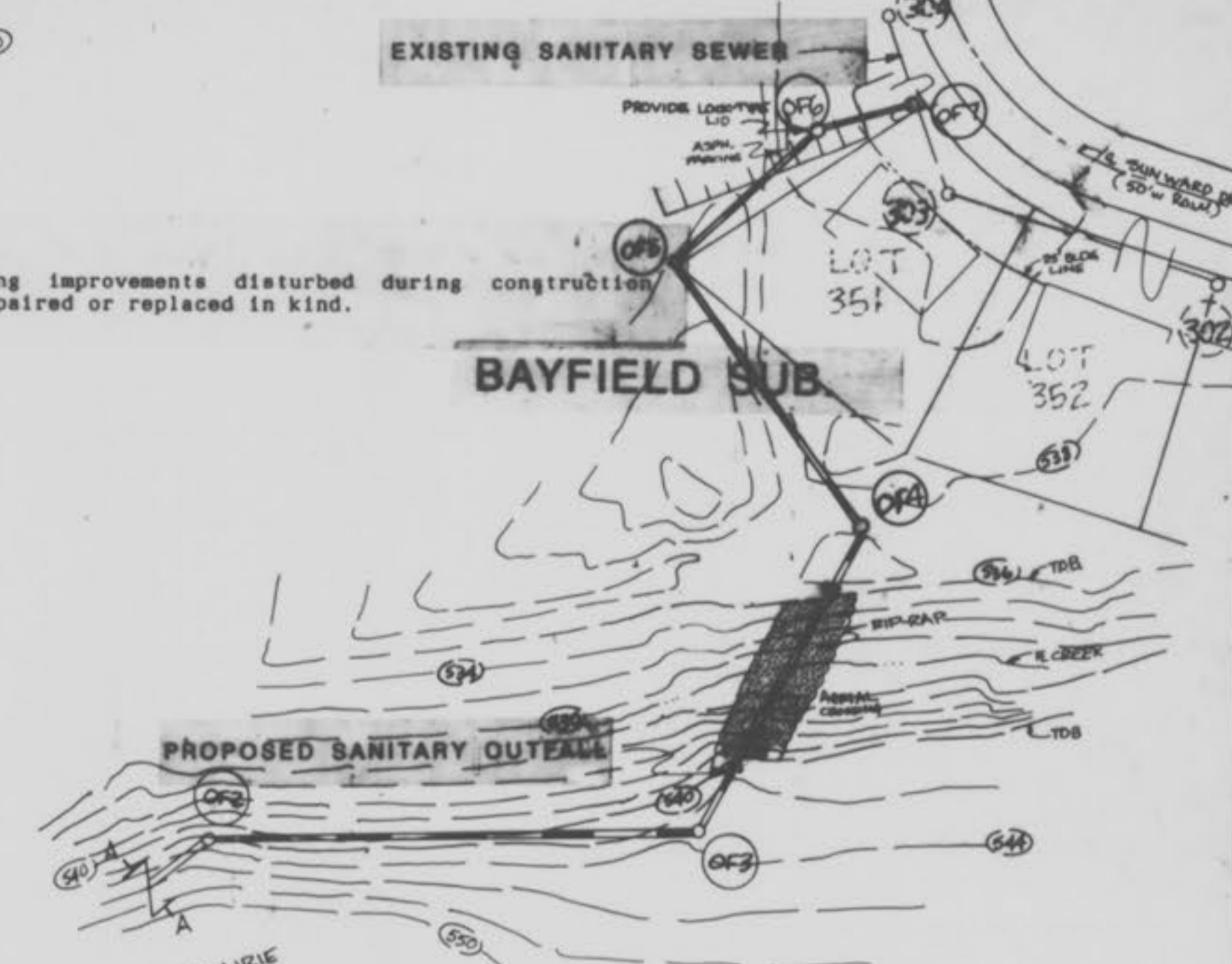
REVISIONS

DATE	BY	DESCRIPTION
12/14/93	T.G.	
1-7-93	S.B.	

FEISE FOREST ESTATES
A TRACT OF LAND
BEING PART OF FRACTIONAL SECTION 34,
T.47N.R.4E. O'FALLON, MO.

TITLE	DESIGNED	DRAWN	CHECKED	DATE	SCALE
FEISE FOREST ESTATES	J.Y.	O.G.	K.E.I.	9-25-92	1"=50'

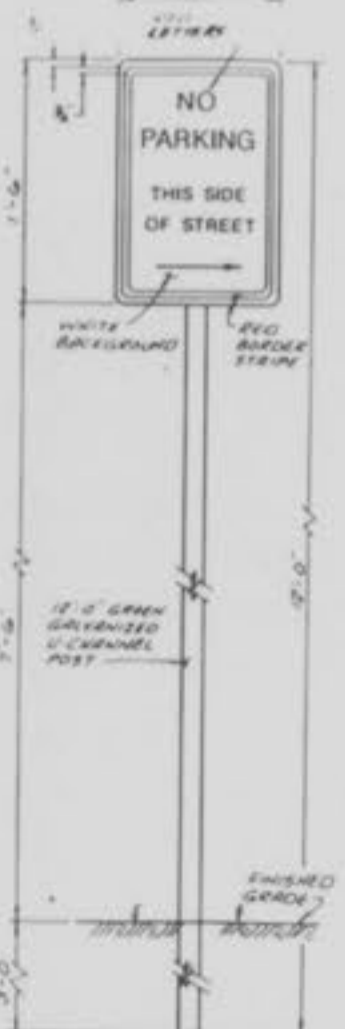
AS BUILT DEVELOPMENT PLAN



STORM STRUCTURES		SANITARY STRUCTURES	
N	E	N	E
FES1	6542.09 4435.07	MH A	6081.61 5378.58
OF2	6469.12 4401.95	MH B	6128.14 5322.62
FES3	7098.07 3938.85	MH C	6103.62 5124.35
MH4	7087.73 3927.98	MH D	6207.44 5018.38
CB5	6987.05 3822.22	MH E	6209.66 4888.41
FES6	6539.45 4322.23	MH F	6133.08 4821.31
MH7	6549.71 4305.06	MH G	6289.93 4797.82
CB8	6642.56 4149.69	MH H	6306.43 4631.82
CB9	6724.97 4062.78	MH I	6359.96 4551.80
Y10	6780.42 3977.05	MH J	6385.05 4391.12
Y11	6684.74 3901.04	MH K	6451.66 4251.51
FES12	6467.91 4322.28	MH L	6501.08 4138.27
MH13	6464.28 4232.35	MH M	6612.16 4120.65
Y14	6434.83 4094.53	MH N	6691.18 3998.75
MH15	6395.80 3950.81	MH O	6682.15 3938.65
CB16	6333.52 3769.36	MH P	6922.63 3992.37
Y17	6289.39 3676.01	MH Q	6947.50 3882.11
FES18	6282.88 3662.49	MH R	6850.68 3754.04
Y19	6210.71 3739.44	MH S	6663.85 3562.34
Y20	6007.88 3953.37	MH T	6596.58 3472.52
Y21	5916.39 4049.41	MH U	5930.83 5194.87
CB22	6379.88 3747.42	MH V	5708.26 4979.95
CB23	6472.05 3745.43	MH W	5580.49 5096.05
CB24	6655.01 3735.49	MH X	5367.84 5095.50
CB25	6730.98 3605.82	MH Y	5369.15 5005.50
CB26	6753.51 3580.34	MH Z	5232.01 5003.86
CB27	6701.72 3533.25	MH AA	5192.76 4957.72
CB28	6674.90 3763.07	MH AB	5582.38 4923.10
CB29	6389.61 3780.00	MH AC	5585.69 4821.09
CB30	6326.88 4113.32	MH AD	5487.49 4726.22
CB31	6240.12 4169.73	MH AE	5390.26 4828.62
CB32	6087.61 4234.35	MH AF	5532.60 4678.71
CB33	6074.02 4203.16	MH AG	6083.46 4961.33
FES34	6207.68 4849.08	MH AH	5868.36 4753.52
MH35	6191.53 4837.27	MH AI	5656.19 4548.55
MH36	6183.11 4801.85	MH AJ	5723.48 4477.68
Y37	6016.59 4655.09	MH AK	6165.96 4689.97
MH38	5920.66 4543.82	MH AL	6154.29 4475.95
CB39	5911.08 4475.85	MH AM	6013.94 4488.04
MH40	5806.45 4371.43	MH AN	5953.08 4484.70
CB41	5776.84 4402.61	MH AO	5861.65 4279.05
CB42	5752.18 4379.20	MH AP	6117.03 4257.65
CB43	6172.95 4682.68	MH AQ	6398.72 4156.91
FES44	6047.01 5106.71	MH AR	6427.98 3976.33
Y45	5974.45 5084.21	MH AS	6535.23 3780.59
Y46	5771.14 4861.97	MH AT	6280.84 3681.15
MH47	5654.53 4775.40	MH AU	6068.13 4029.78
MH48	5533.57 4658.91	MH AV	6494.20 3796.72
CB49	5501.60 4642.66	MH AW	6558.47 3607.07
MH50	5321.11 4874.98	MH AX	6309.70 4115.35
MH51	5201.06 4933.64	MH AY	5810.13 4155.11
MH52	5141.48 4869.78	MH AZ	5101.32 4898.38
MH53	5129.73 4840.33	MH BA	6029.73 5527.99
MH54	5764.72 4444.67	MH BB	6039.02 5817.53
CB55	6040.51 4221.34	MH BC	5947.07 5776.98
MH56	5974.11 4088.00	MH BD	6014.15 5883.60
MH57	5960.10 4080.22	MH BE	6118.13 5872.46
MH58	5112 4975.23	MH BF	6154.67 5953.78
MH59	4961.11 4741.74	MH BG	6145.00 5987.00
MH60	4871.76 4611.40		
MH61	4741.40 4511.40		
MH62	4611.40 4411.40		
MH63	4481.40 4311.40		
MH64	4351.40 4211.40		
MH65	4221.40 4111.40		
MH66	4091.40 4011.40		
MH67	3961.40 3911.40		
MH68	3831.40 3811.40		
MH69	3701.40 3711.40		
MH70	3571.40 3611.40		

MATCH SHEET 5

MATCH SHEET 6



- LIGHT HYD
- FIRE HYDRANT
- 8" VALVE
- W. VALVE BOX
- ▲ NO PARKING THIS SIDE OF STREET SIGN



INGRAM ENGINEERING INC.
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FAX (314) 644-8713

FEISE FOREST ESTATES
A TRACT OF LAND
BEING PART OF FRACTIONAL SECTION 34,
T.47N.R.4E. O'FALLON, MO.

REVISIONS	
10/1/92	BY
10/1/92	BY
12/14/93	T.G.

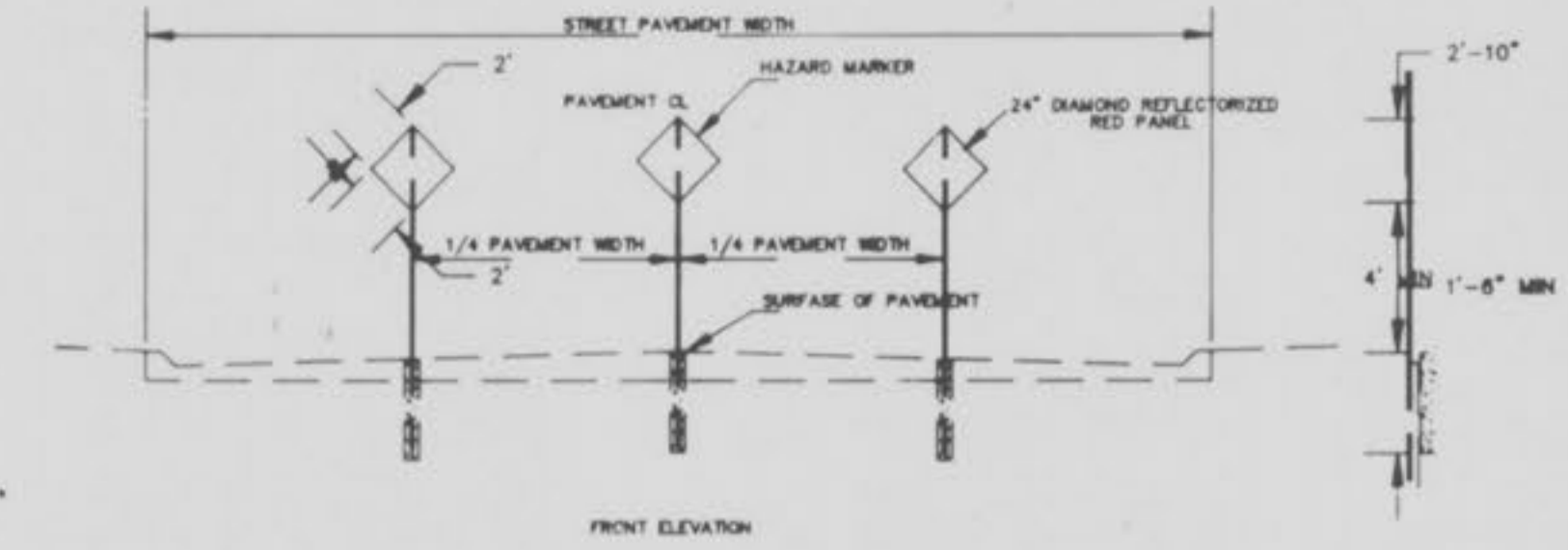
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AS BUILT DEVELOPMENT PLAN	G.G.	G.G.	K.E.J.	9-25-92	1"=50'

JOB	SHEET	OF
5346	2	11

FILE NAME: C:\4910\SITE_PLAN_22.DWG



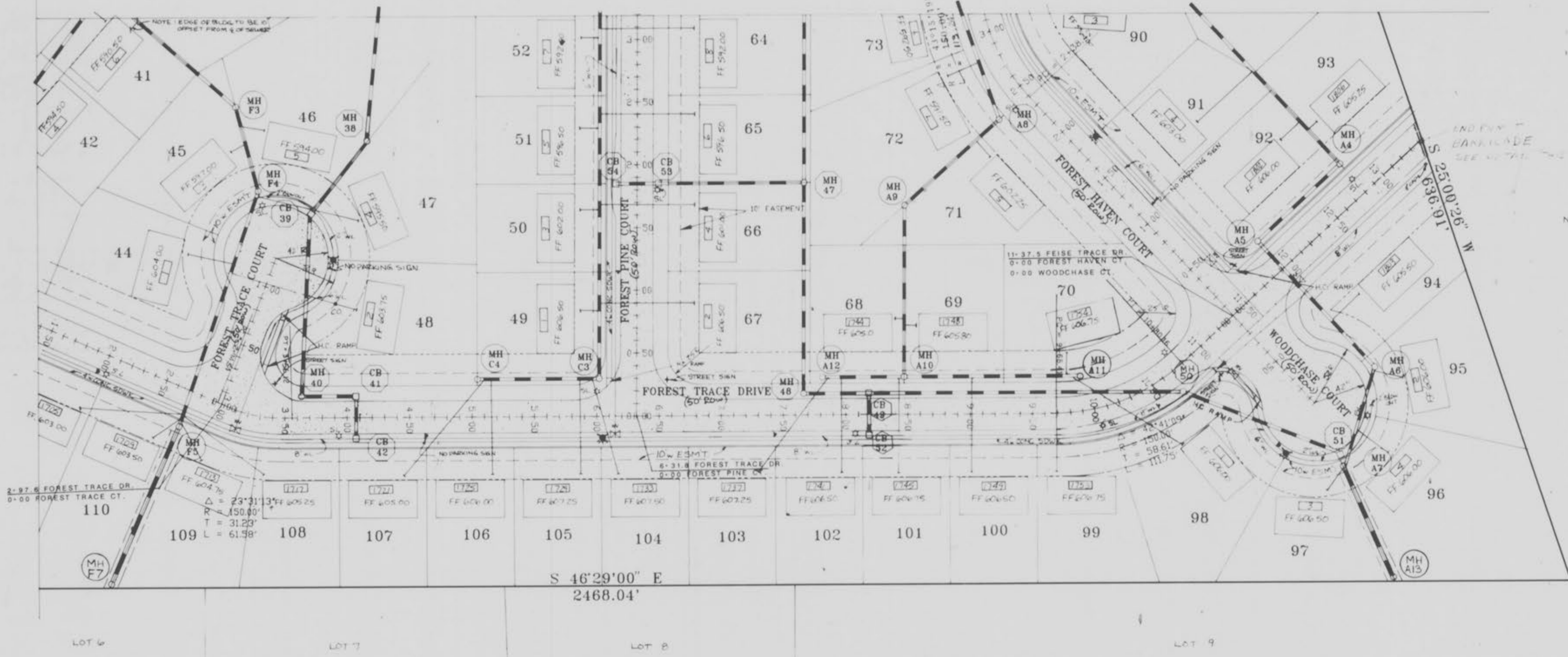
NOTE: MAINTAIN 10' CLEARANCE BETWEEN SEWER LINE AND FOUNDATION OF BUILDING



END OF PAVEMENT DETAIL

MATCH SHEET 5

MATCH SHEET 4



LOT 6

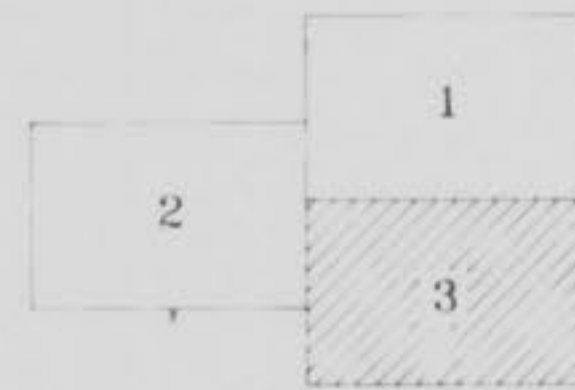
LOT 7

LOT 8

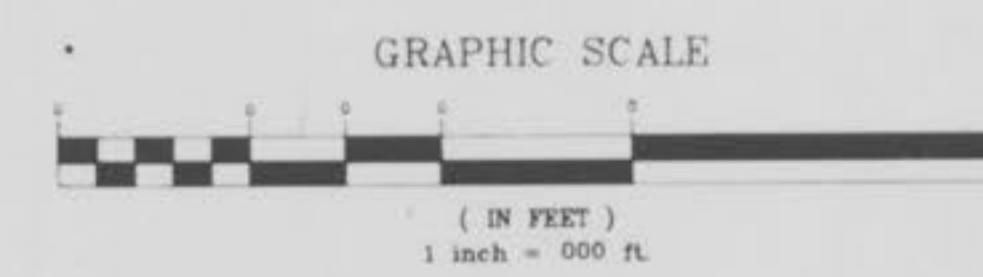
LOT 9

S 46°29'00" E
2468.04'

DARDENNE PEAIRIE



- ☆ LIGHT STD.
- SL 8" VALVE W/ VALVEBOX
- ★ FIRE HYDRANT
- ⬇ NO PARKING THIS SIDE OF STREET SIGN
- ⊕ STREET SIGN



AS BUILT DEVELOPMENT PLAN

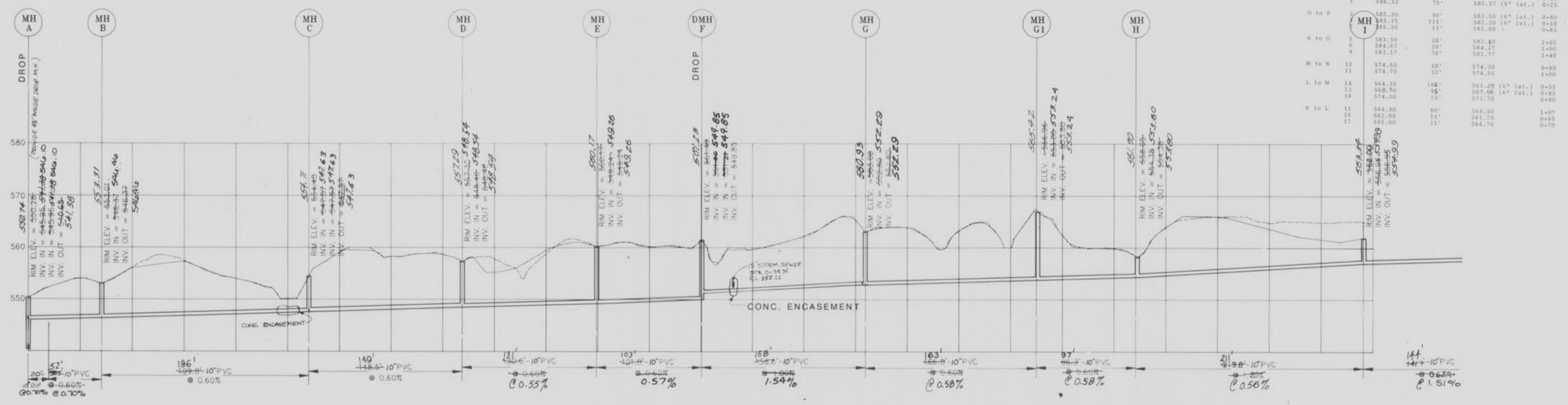
REVISIONS

10/21/92
12/14/93 T.G.

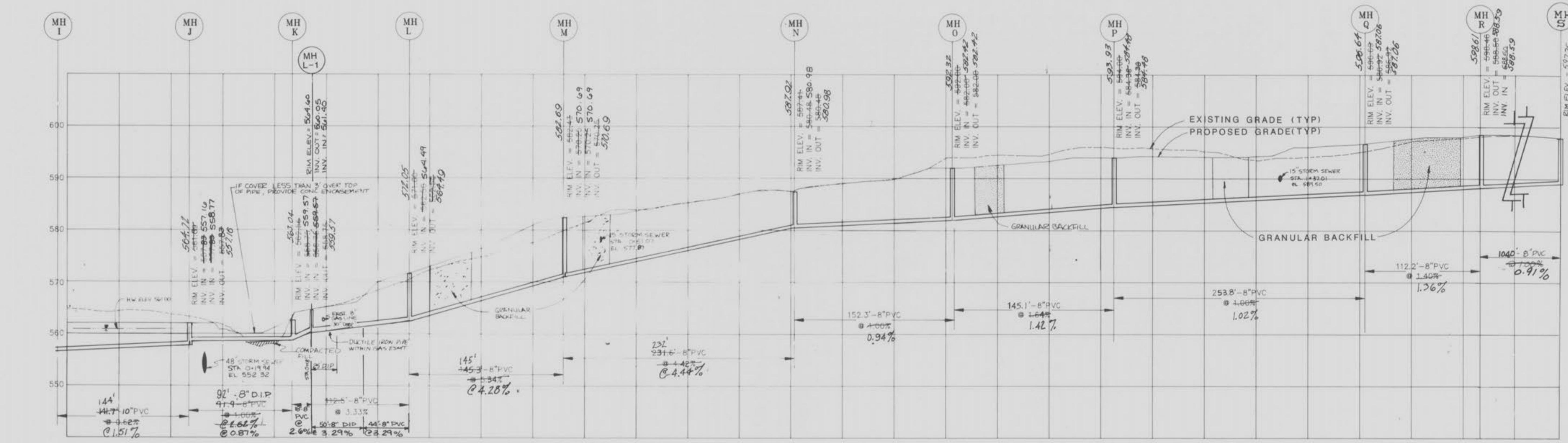
FEISE FOREST ESTATES

A TRACT OF LAND
BEING PART OF FRACTIONAL SECTION 34,
T.47N.R.4E. O'FALLON, MO.

TITLE	FEISE FOREST ESTATES		
DESIGNED	J.Y.		
DRAWN	G.G.		
CHECKED	K.E.I.		
DATE	9-25-92		
SCALE	1"=50'		
JOB	5346	SHEET	3
OF			11
FILE NAME	C:\4910\SITE_PLAN\33.DWG		



ROW	LINE	LOT	ELEVATION	LATERAL	WYE	STATION
			TAIL STAKE	LENGTH	ELEVATION	
Q	to R	127	589.47	33'	588.81	1+07
		128	589.00	15'	588.50	1+07
		125	589.00	45'	588.10	0+28
		128	589.00	75'	587.50	0+75
P	to Q	129	588.25	80'	586.45	2+35
		130	587.50	15'	587.20	1+75
		127	587.75	75'	588.25	1+70
		8	585.92	15'	585.02	0+25
		1	586.32	75'	585.57 (6' Int.)	0+25
O	to P	130	585.30	80'	583.50 (6' Int.)	0+80
		131	585.35	115'	582.20 (6' Int.)	0+30
		130	585.30	15'	585.00	0+85
N	to O	7	583.50	20'	583.10	1+05
		6	584.07	20'	584.37	1+05
		5	583.17	70'	581.77	1+49
M	to N	12	574.50	10'	574.30	0+90
		11	574.75	10'	574.55	1+00
L	to M	14	564.30	105'	563.25 (6' Int.)	0+05
		13	565.50	95'	567.56 (6' Int.)	0+83
		10	574.00	15'	573.70	0+90
K	to L	15	564.00	80'	563.50	1+07
		16	562.00	15'	561.70	0+65
		17	565.00	15'	564.70	0+70



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 FAX (314) 948-0713

IEI

KENNETH E. INGRAM, P.E.

REVISIONS

12-2-93	CALCULATIONS
12/14/93	T.G.
1-17-94	S.B.

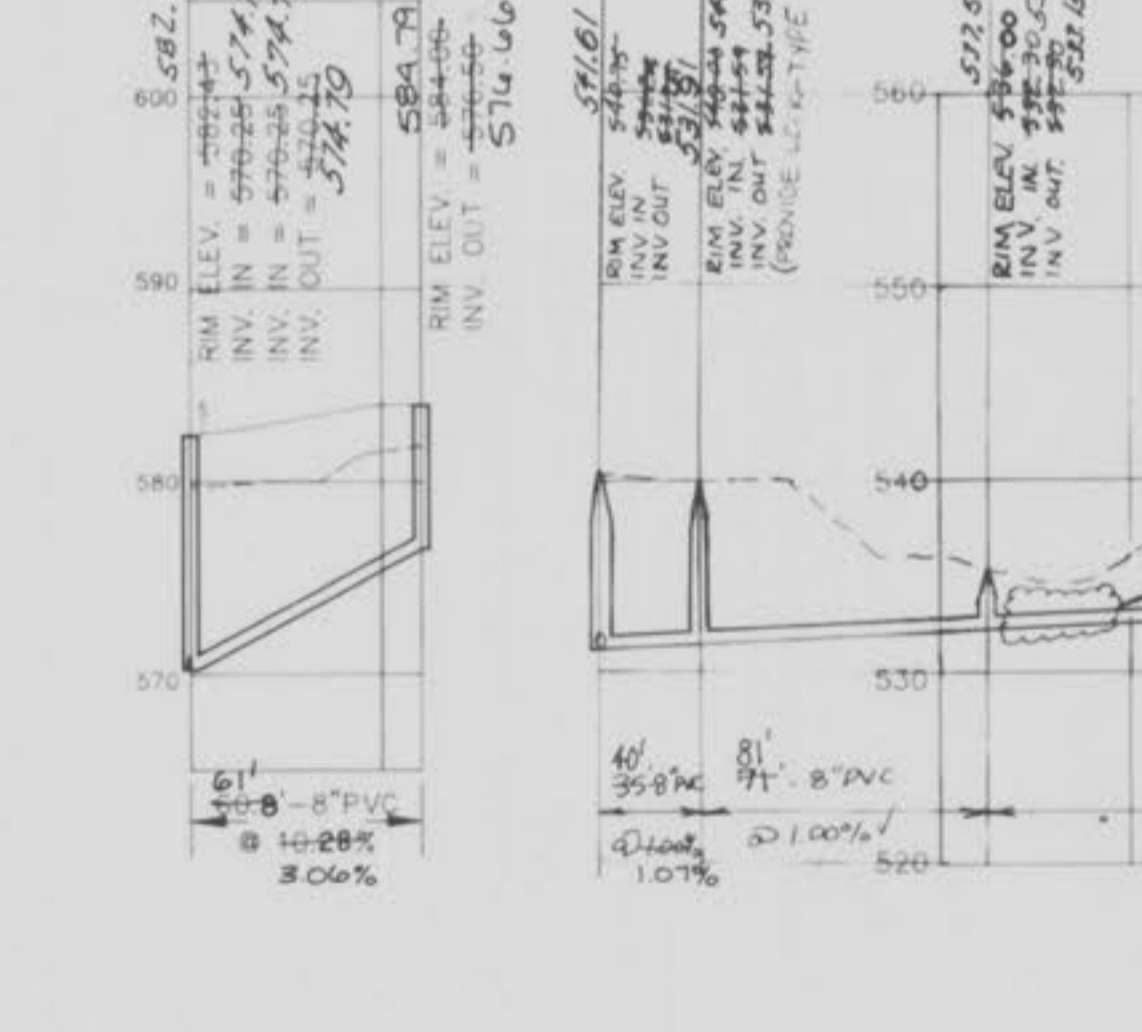
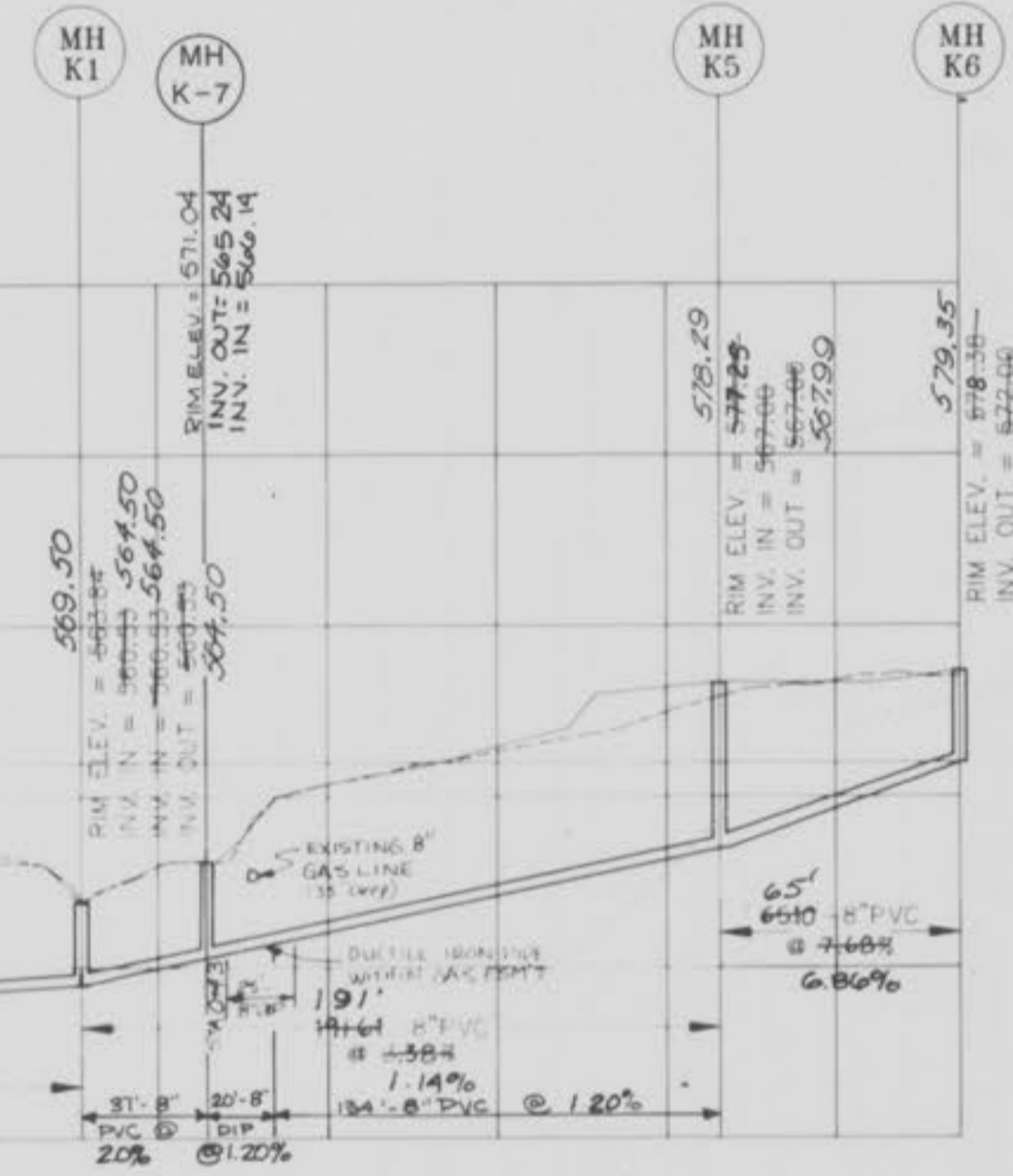
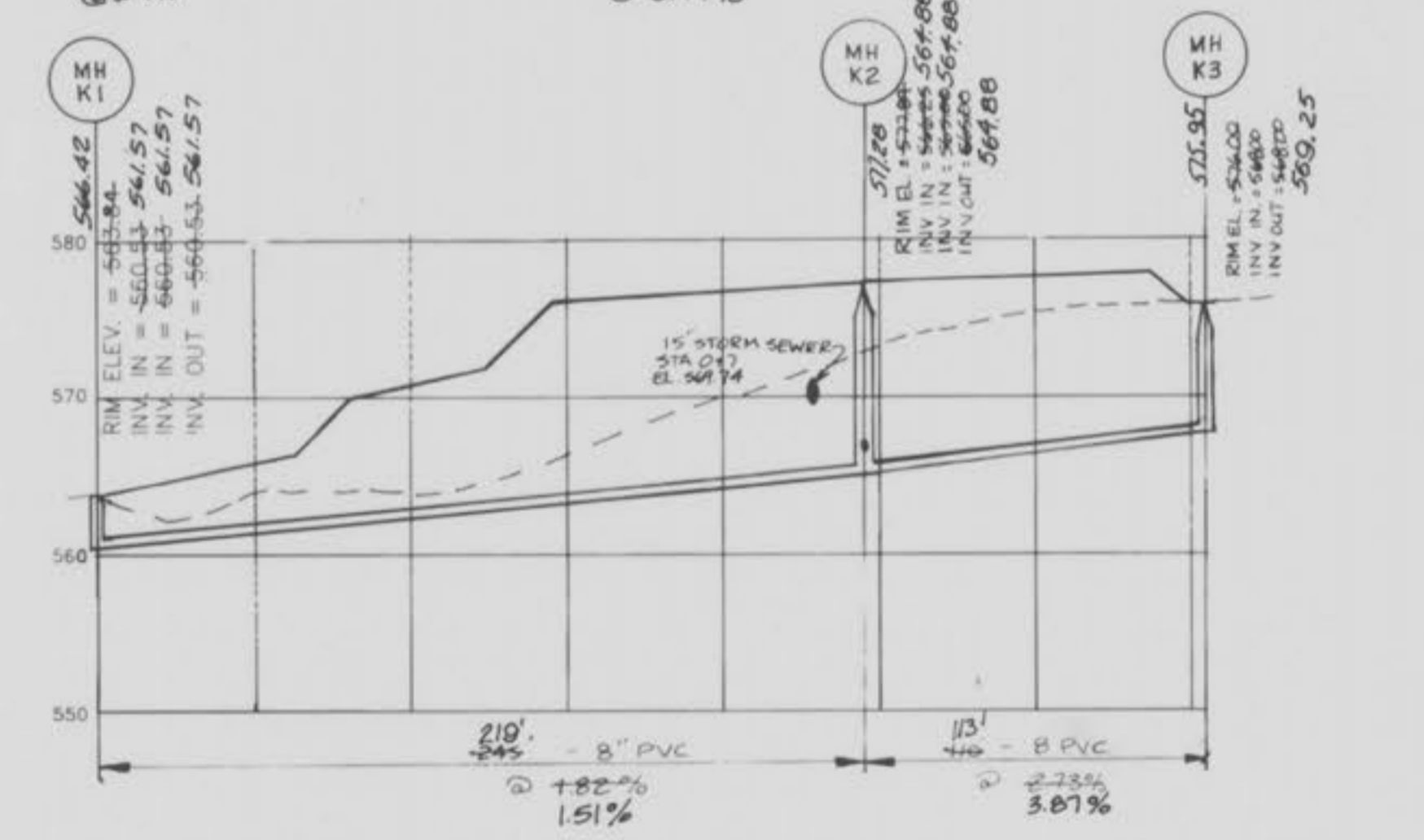
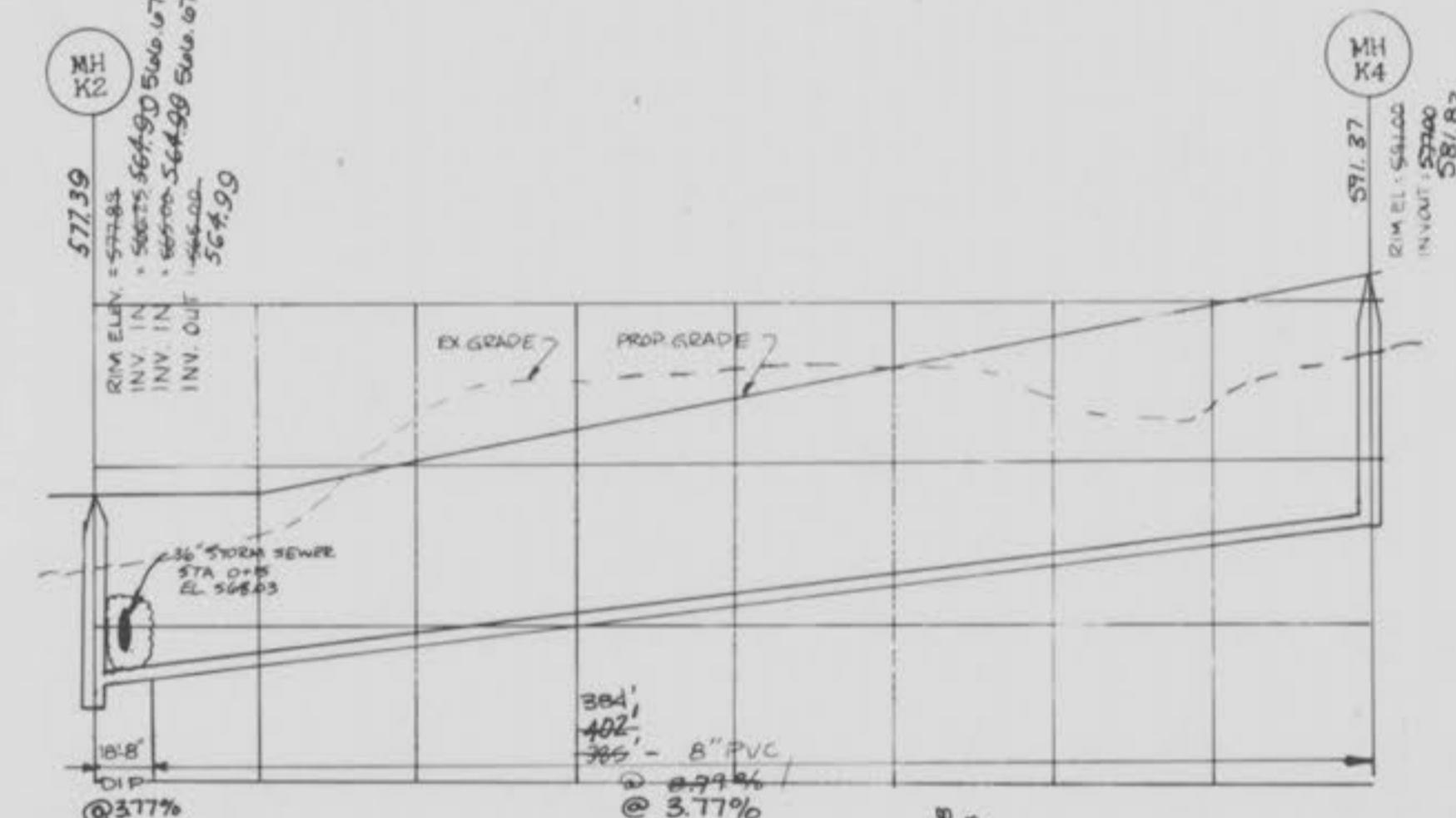
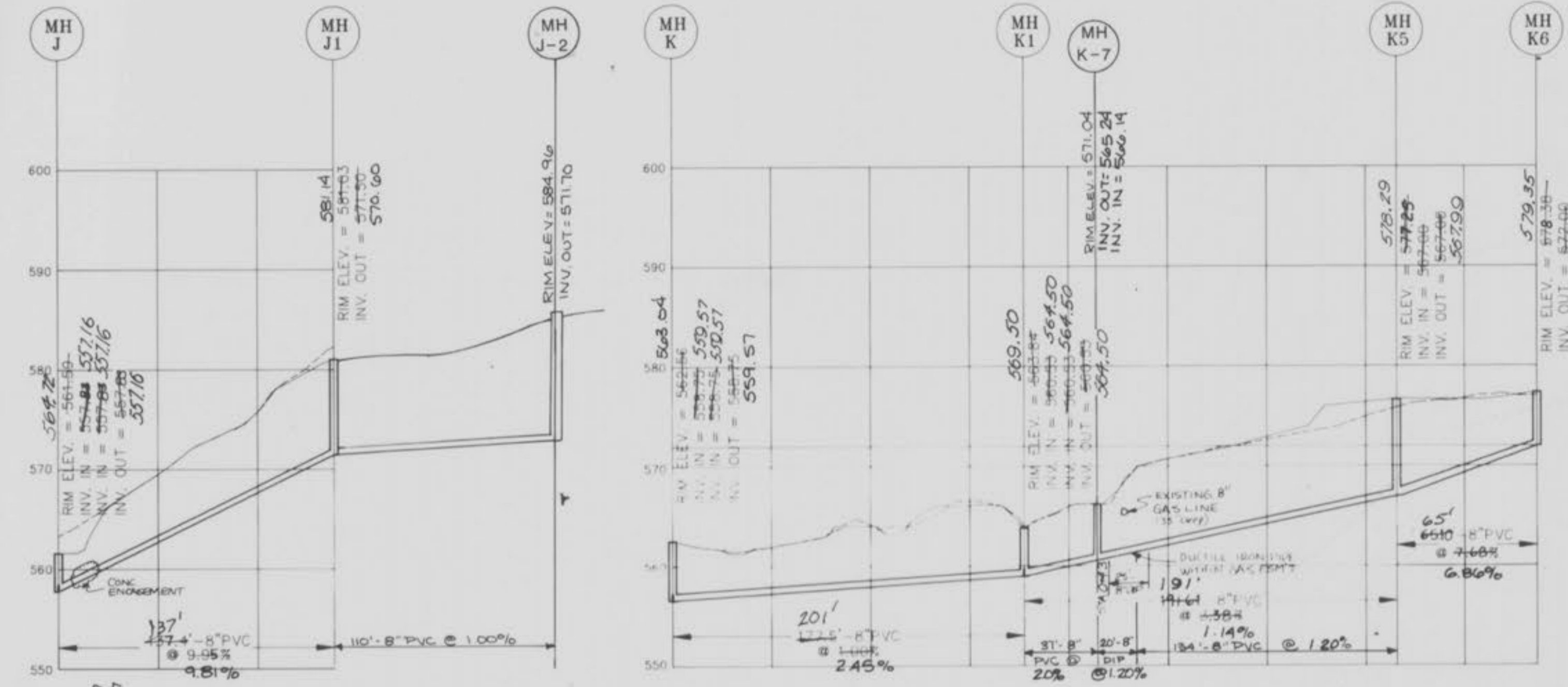
FEISE FOREST ESTATES
 A TRACT OF LAND
 BEING PART OF FRACTIONAL SECTION 34,
 T.47N R.0E. O'FALLON, MO.

TITLE	1
DESIGNED	
DRAWN	
CHECKED	
DATE	
SEAL	

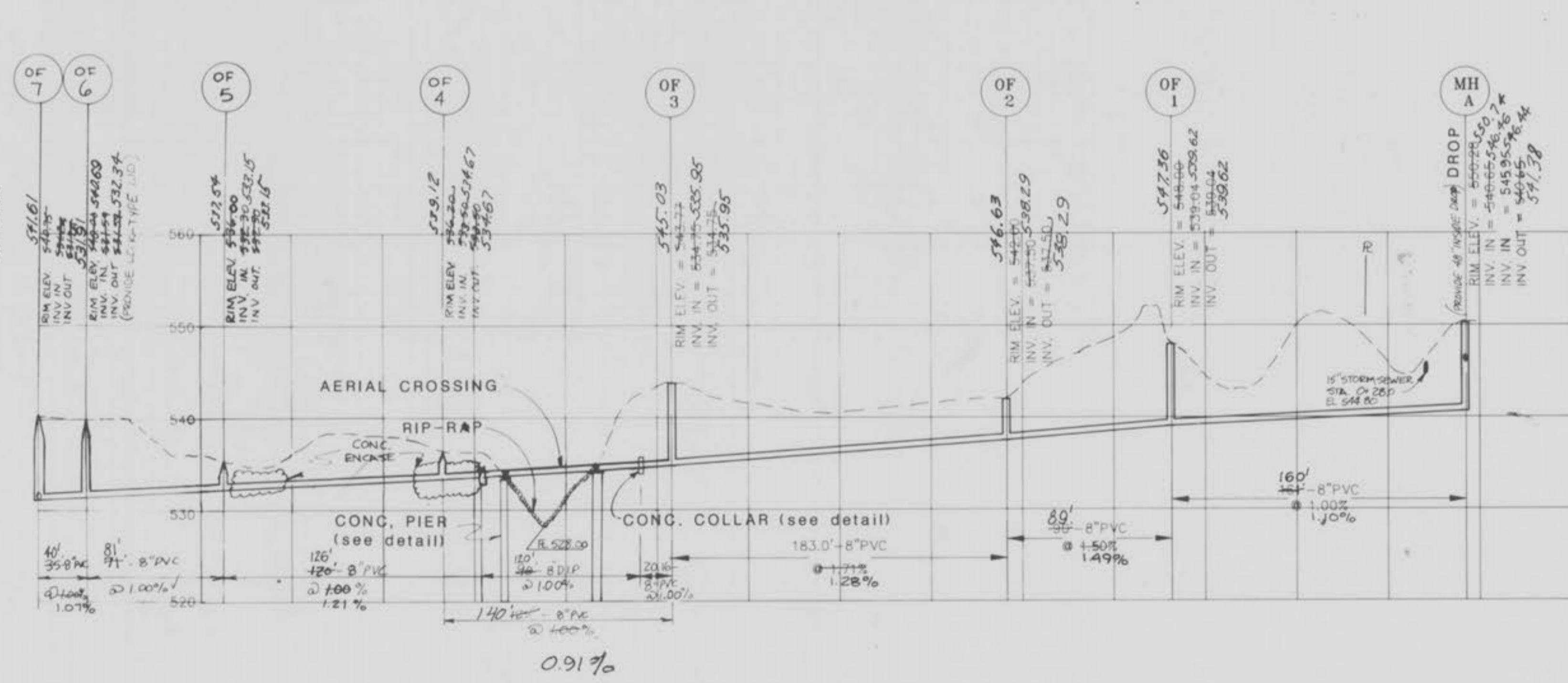
SCALE
 HORIZ. 1"=50'
 VERT. 1"=10'

JOB 5346 SHEET 4 OF 11

AS-BUILT
SANITARY SEWER PROFILES



"BAYFIELD AS-BUILTS"



NOTE: ALL INV. TO CENTER OF MANHOLE

SEWER LINE	LOT	ELEVATION	LATERAL LENGTH	WYE ELEVATION	STATION
M 76 MI	18	576.00	26'	575.50	0+45
	8	577.50	110'	575.50 (6" lat.)	0+58
	10	576.90	80'	576.30	0+50
K7 to K4	118	571.00	20'	568.57	0+56
	117	574.00	20'	573.41	0+56
	116	575.00	20'	574.44	0+56
	113	577.00	20'	578.13	0+56
	114	579.00	15'	579.81	0+56
	113	582.50	15'	581.40	0+56
	28	585.50	20'	584.10	0+56
	22	575.00	20'	573.58 (4" lat.)	0+50
	14	574.00	20'	572.58	0+50
	23	570.00	20'	568.57	0+50
K1 to K2	21	570.00	20'	568.57	0+50
J to J1	27	572.50	70'	571.80 (6" lat.)	1+23.40
	28	572.50	25'	572.00	0+85
	29	572.50	10'	572.30	0+85
K5 to K6	20	573.00	35'	573.15 (6" lat.)	0+88
	100	573.00	100'	573.00	0+88
	122	569.25	75'	568.50 (6" lat.)	0+88
K1 to K5	123	588.50	80'	586.90	1+88
	122	588.50	115'	588.80	1+88
	121	587.50	5'	587.40	1+50
	120	588.00	10'	587.80	1+45

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KENNETH E. INGRAM, P.E.

REVISIONS

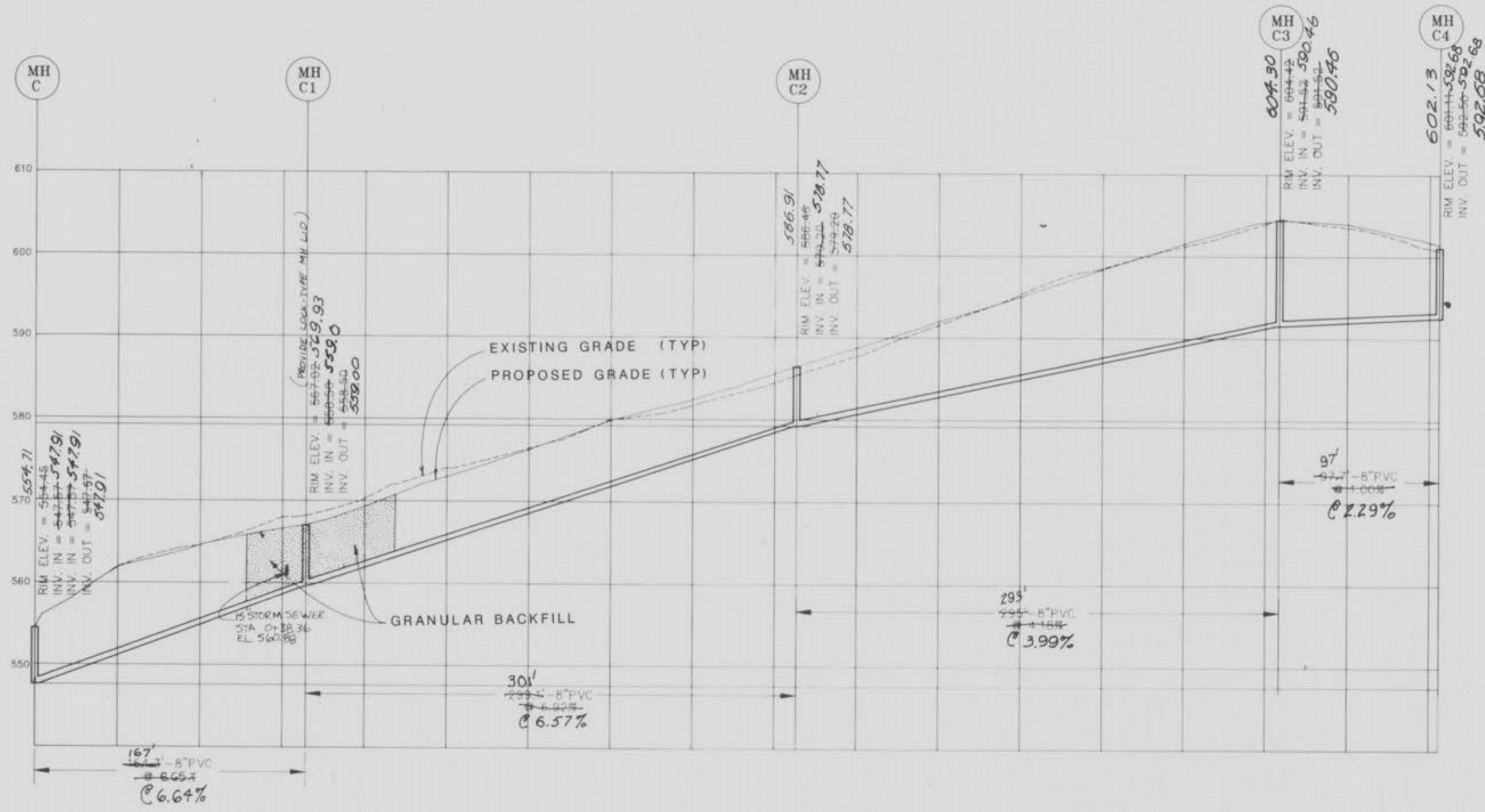
12/14/93 T.G.
1-17-94 S.B.

FEISE FOREST ESTATES
 A TRACT OF LAND
 BEING PART OF FRACTIONAL SECTION 34,
 T.47N R4E. O'FALLON, MO.

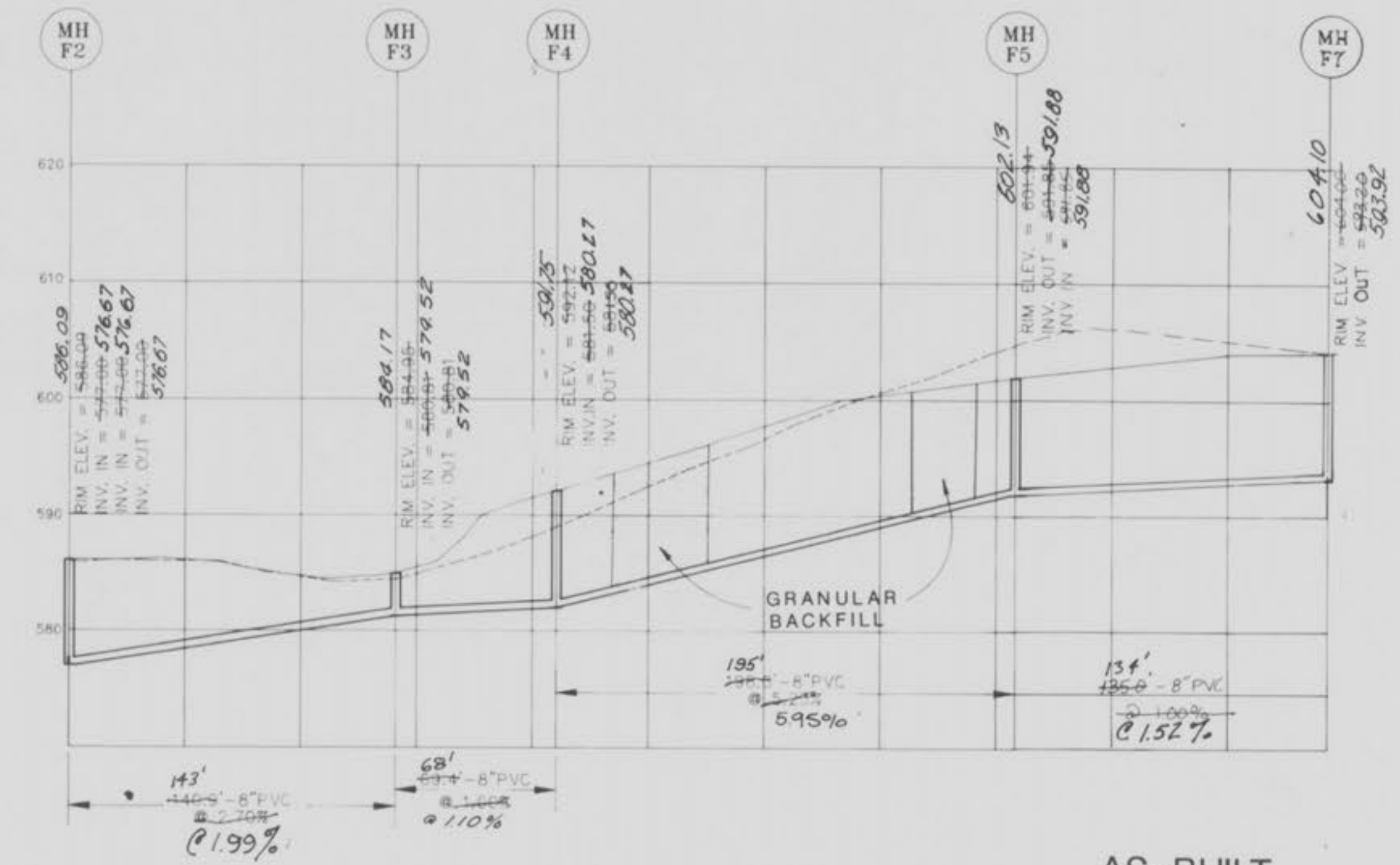
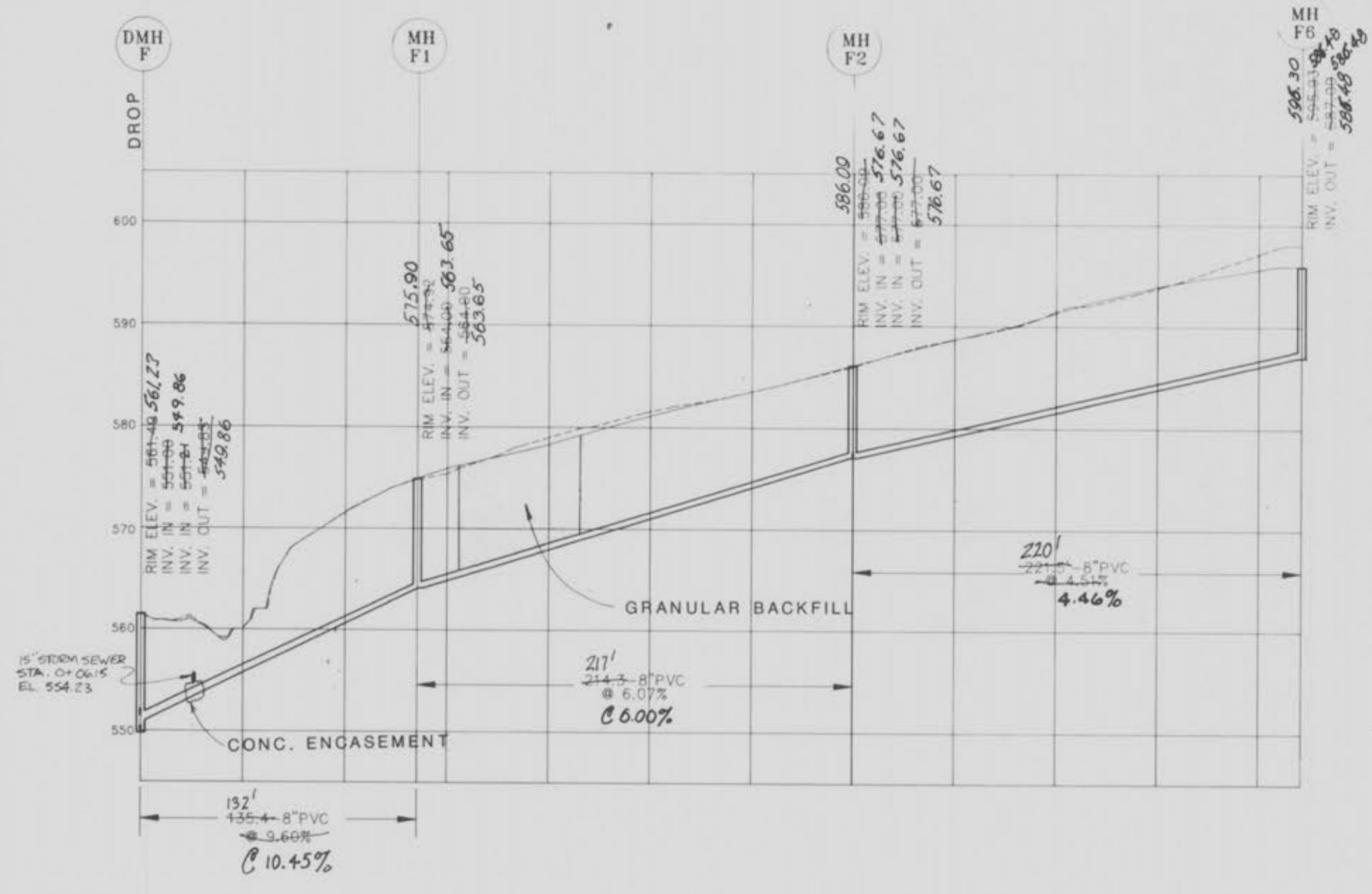
TITLE _____
 DESIGNED _____
 DRAWN _____
 CHECKED _____
 DATE _____
 SEAL _____
 SCALE _____
 HORIZ. 1"=50'
 VERT. 1"=10'

JOB 5346 SHEET 5 OF 11

AS-BUILT
SANITARY SEWER PROFILES



SEWER LINE	LOT	ELEVATION	LATERAL	R/W	STATION
F to F1	37	565.50	20'	565.10	0+85
	38	568.00	10'	565.80	0+95
C3 to C4	107	593.50	100'	592.50 (6" Int.)	0+92.5
	108	594.50	75'	593.75 (6" Int.)	0+87.7
	109	595.75	75'	594.25	0+15
	104	596.00	80'	594.40	0+05
C2 to C3	49	595.00	15'	594.70	2+40
	50	590.50	15'	590.20	1+80
	51	585.00	15'	584.70	0+95
	52	580.50	15'	580.20	0+20
	53	585.50	75'	583.50	2+35
	54	585.00	75'	588.00	1+55
	55	580.50	75'	581.30	0+85
	54	580.50	75'	579.75 (6" Int.)	0+15
C1 to C2	53	576.50	15'	576.20	2+80
	54	572.50	15'	572.20	1+80
	55	567.00	30'	566.40	0+70
	56	566.50	75'	559.75 (6" Int.)	0+05
	57	564.00	75'	562.50	0+35
	58	572.50	75'	571.75 (6" Int.)	1+00
	51	574.50	75'	573.75 (6" Int.)	1+75
E to C1	58	557.75	20'	557.35	0+75
	59	559.50	15'	559.20	0+80
	57	557.75	20'	557.05 (6" Int.)	1+45
F4 to F5	108	592.75	85'	592.15	2+88
	109	595.25	25'	592.75	1+93
	110	592.00	25'	591.75 (6" Int.)	1+97
	44	591.50	80'	590.45 (6" Int.)	1+88
	48	592.25	75'	591.80	1+88
	47	584.00	80'	580.25	0+60
F3 to F4	45	585.50	15'	585.20	0+30
	46	582.50	20'	582.10	0+15
F2 to F6	112	588.50	100'	587.50 (6" Int.)	2+15.5
	111	584.00	100'	584.50 (6" Int.)	1+62
	32	581.50	80'	582.20	1+15
	43	582.50	40'	579.80	0+50
	42	583.00	100'	586.70	1+60
	41	579.00	15'	582.80	0+80
F1 to F2	36	585.00	80'	578.70	0+15
	35	571.75	80'	564.20 (6" Int.)	0+10
	34	569.95	80'	572.90	0+50
	33	578.75	80'	572.90	1+40
	38	576.25	50'	577.25	2+00
	40	575.00	15'	574.70	1+25



AS-BUILT
SANTARY SEWER PROFILES

INGRAM ENGINEERING INC.
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IEI

REVISIONS

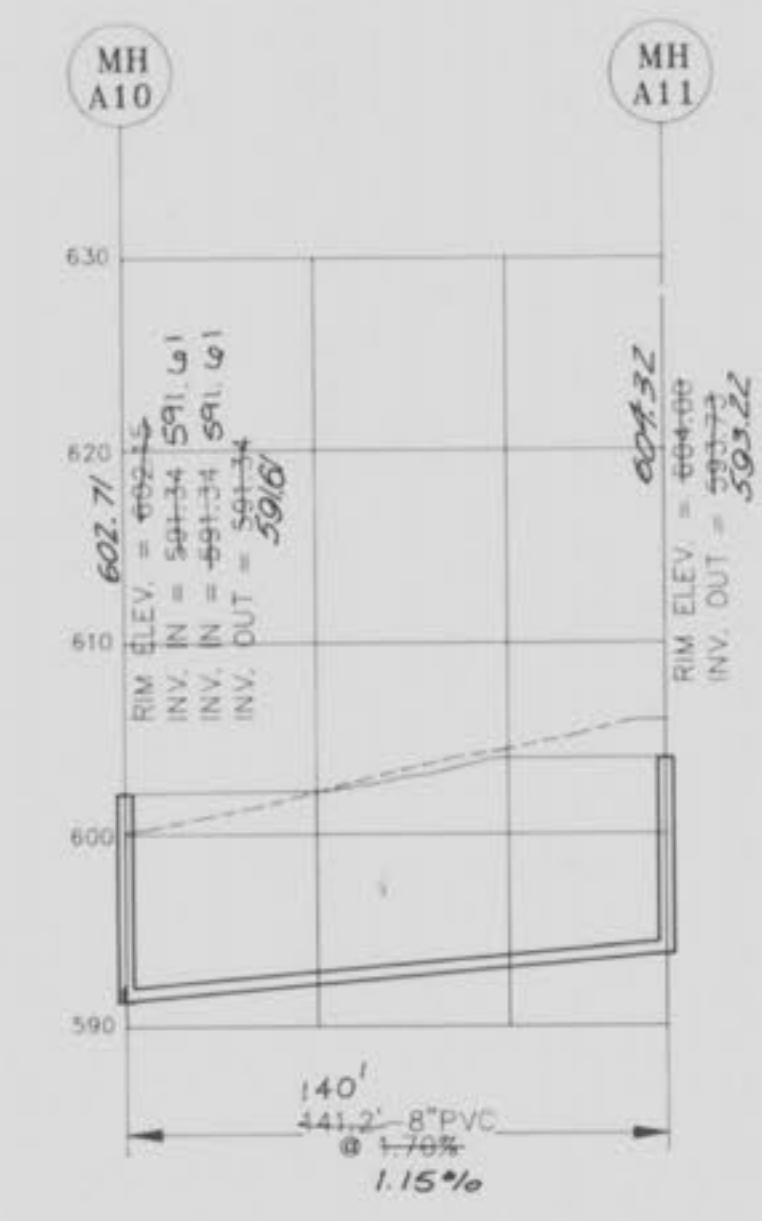
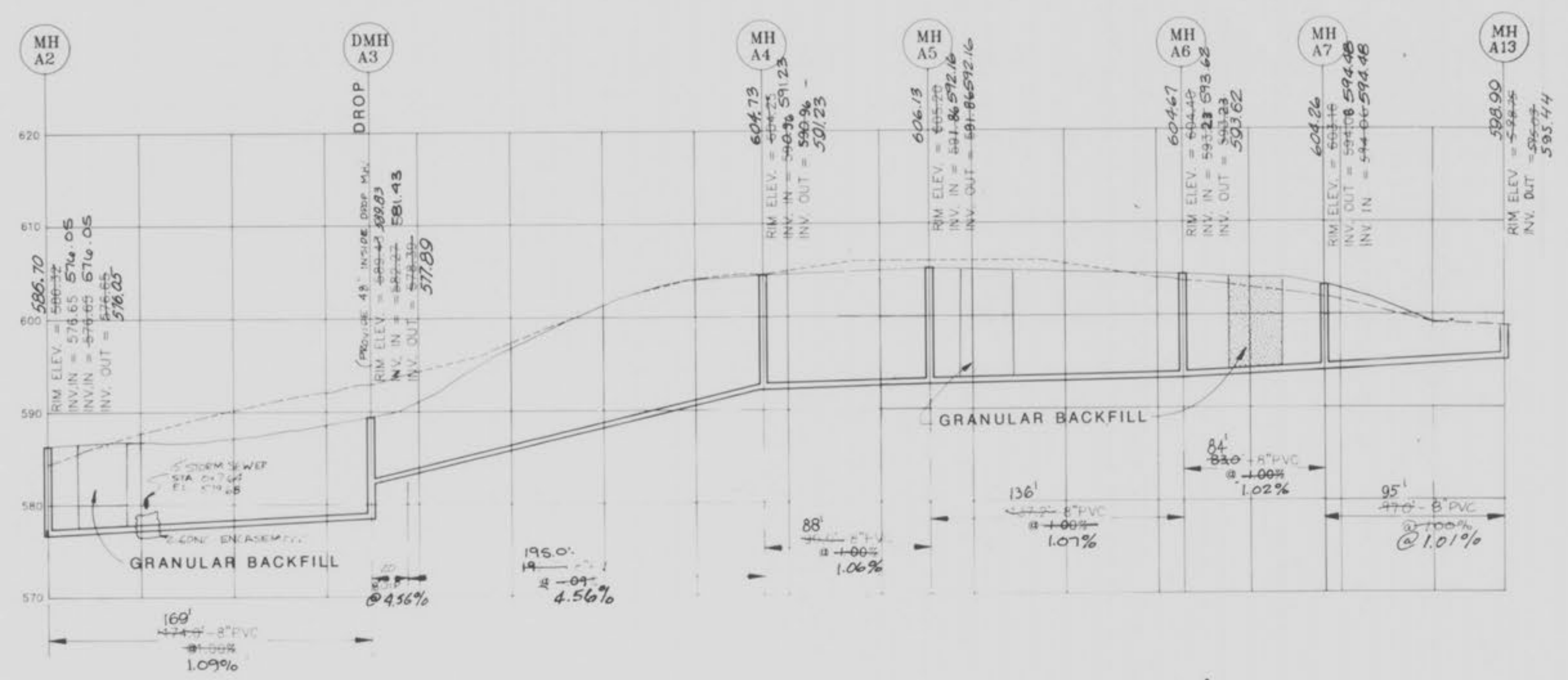
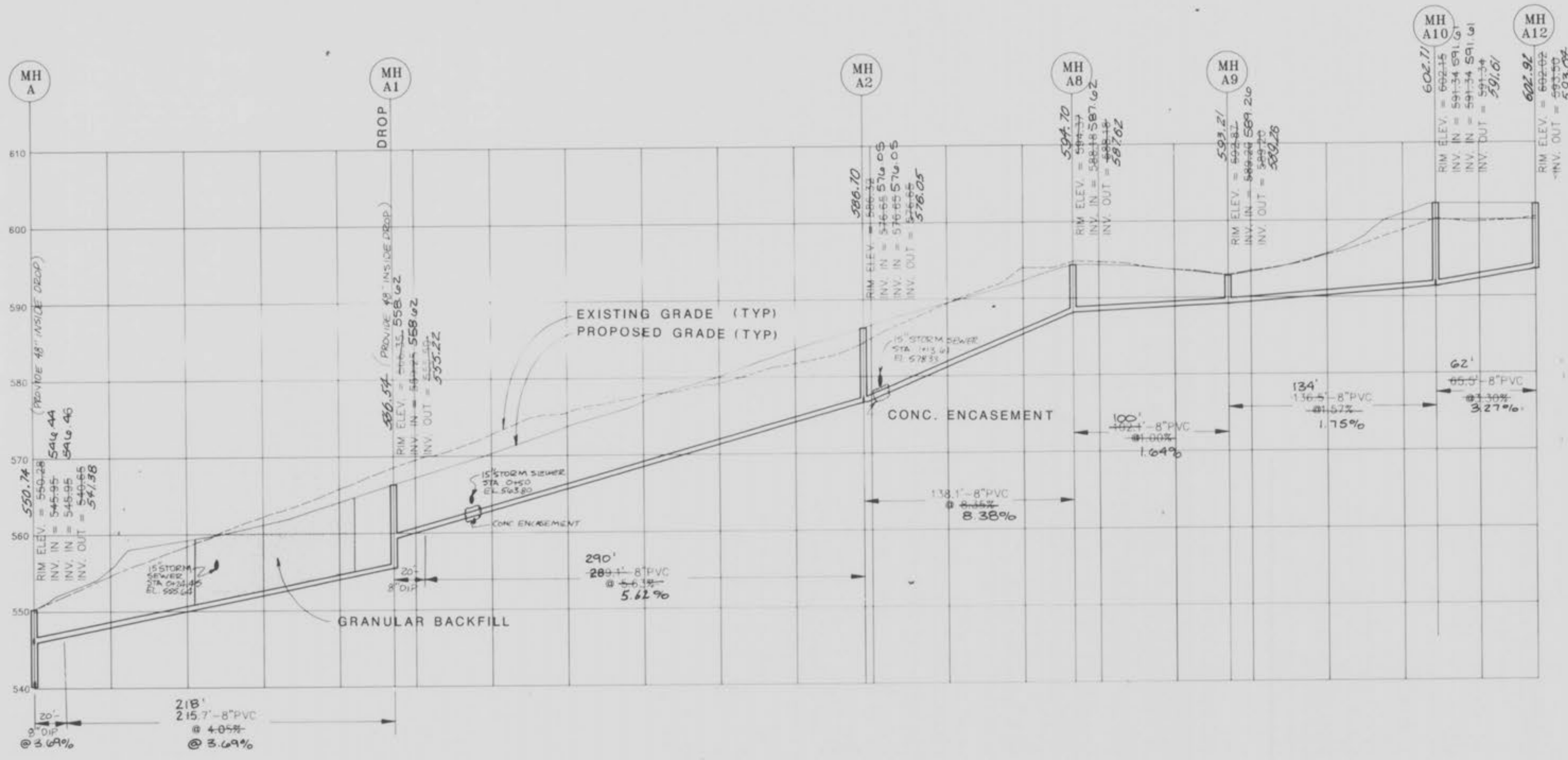
12-2-93 CALCULATIONS
12/14/93 T.G.

FEISE FOREST ESTATES
A TRACT OF LAND
BEING PART OF FRACTIONAL SECTION 34,
T.47N R4E, O'FALLON, MO.

TITLE _____
DESIGNED _____
DRAWN _____
CHECKED _____
DATE _____
SEAL _____

SCALE
HORIZ. 1"=50'
VERT. 1"=10'

JOB 5346 SHEET 6 OF 11



SEWER LINE	LOT	ELEVATION TAIL STAKE	LATERAL LENGTH	WYE ELEVATION	STATION	
A1 to A2	74	576.00	15'	576.10	2+75	
	75	572.00	15'	571.60	2+85	
	76	568.00	15'	567.60	2+95	
	77	564.00	15'	564.60	3+05	
	78	559.50	15'	559.20	3+15	
	86	574.50	80'	572.90	1+90	
	85	568.50	75'	565.00	0+85	
	84	561.50	75'	560.75 (6" Int.)	0+10	
A10 A1	79	552.00	65'	551.35 (6" Int.)	1+35	
	80	552.00	25'	551.50	0+40	
	81	549.00	25'	548.50	0+45	
	82	552.00	90'	550.20	0+90	
	83	555.50	100'	554.50 (6" Int.)	1+75	
A10	100	595.00	75'	593.50	0+55	
	99	595.25	75'	593.75	1+20	
	70	595.25	15'	594.50 (6" Int.)	1+30	
A6 to A7	97	595.00	28'	594.44	0+71.8	
	98	594.50	28'	593.94	0+55	
	95	594.50	20'	594.10	0+05	
A5 to A6	94	594.00	30	593.40	0+90	
A1 to A4	91	593.75	15'	593.45	1+75	
	92	594.50	40'	593.70	1+65	
	93	592.50	85'	590.20	1+10	
	89	583.00	25'	582.50	0+05	
A2 to A3	88	580.50	80'	579.70 (6" Int.)	1+69	
	87	579.50	108'	578.42 (6" Int.)	1+84	
A10	90	584.50	20'	584.10	1+00	
A10 A12	103	595.75	95'	593.85	0+61	
	102	595.00	75'	593.30	0+50	
	101	595.25	75'	593.75	0+05	
A9	10 A10	60	592.50	15'	593.20	0+90
	89	594.30	15'	594.00	0+85	
A8 to A9	71	590.75	20'	590.25	0+25	
A2 to A8	73	581.00	23'	580.50	0+30	
	72	585.00	10'	584.40	0+90	

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 ENGINEERS - SURVEYORS - PLANNERS
 6 WESTBURY DRIVE
 ST. CHARLES, MISSOURI 63301
 (314) 946-5566
 FAX (314) 946-6713

KENNETH E. INGRAM, P.E.

REVISIONS

12-2-93	CALCULATIONS
12/14/93	T.G.

FEISE FOREST ESTATES
 A TRACT OF LAND
 BEING PART OF FRACTIONAL SECTION 34,
 T.47N R.4E, O'FALLON, MO.

TITLE

DESIGNED

DRAWN

CHECKED

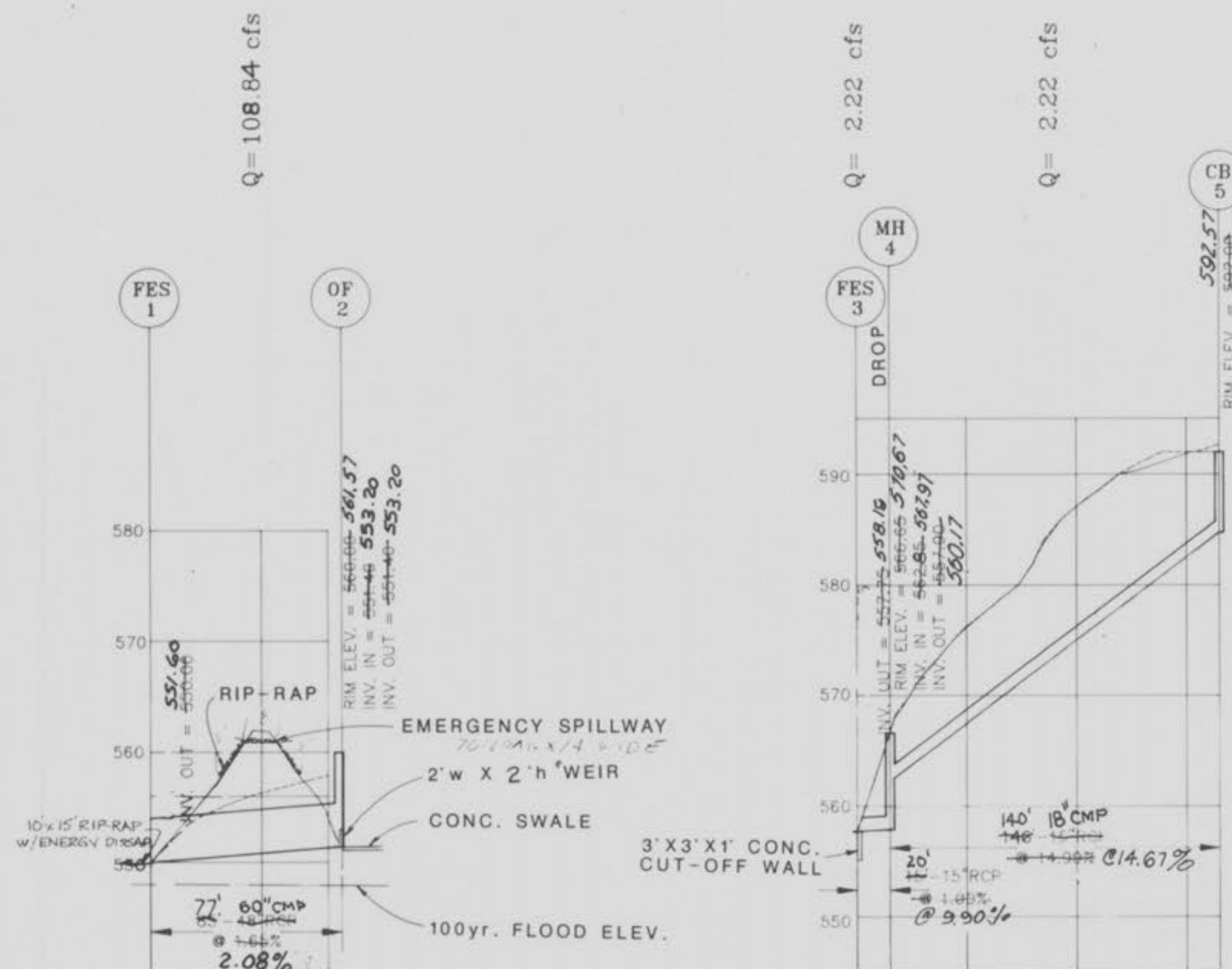
DATE

SEAL

SCALE
 HORIZ. 1"=50'
 VERT. 1"=10'

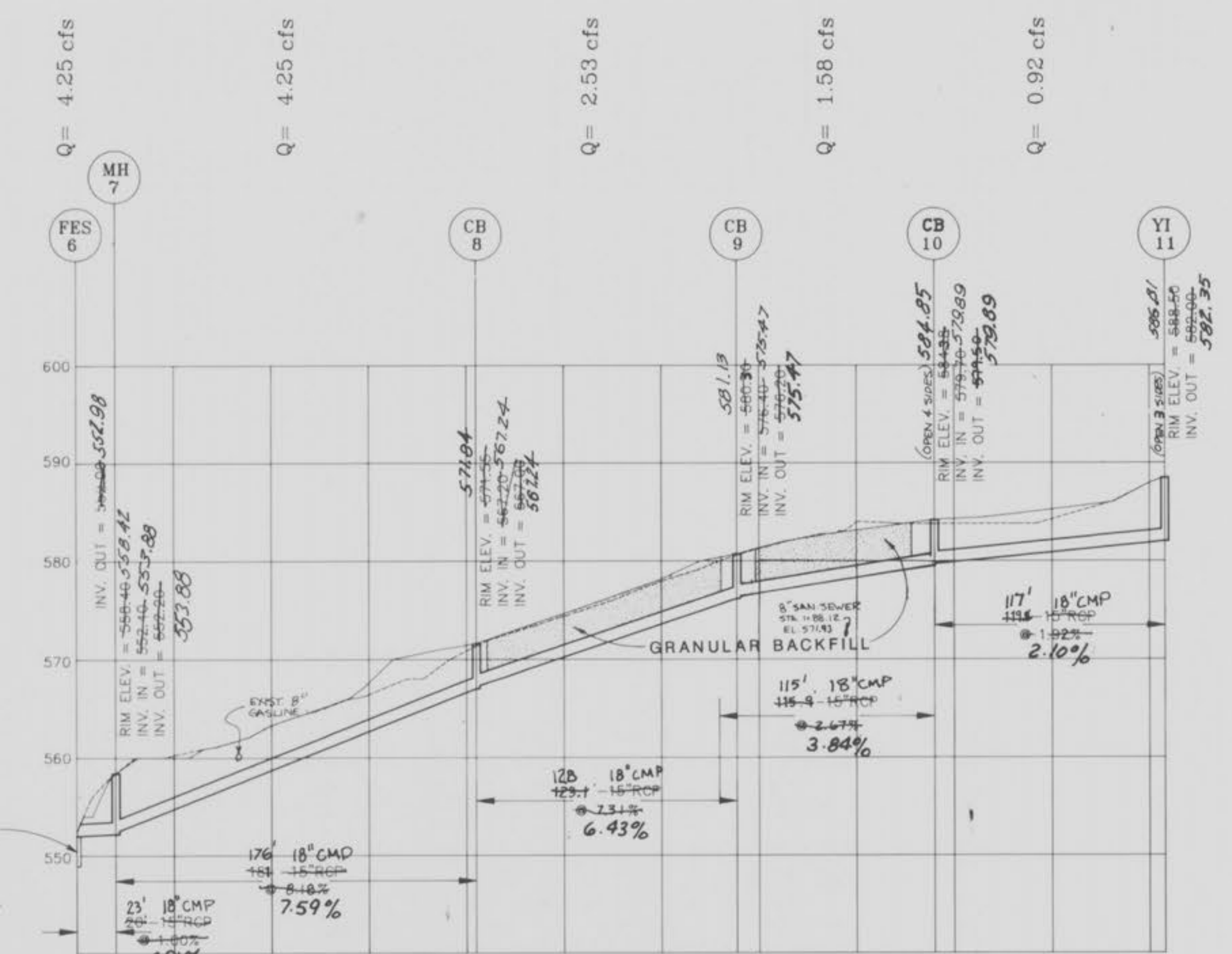
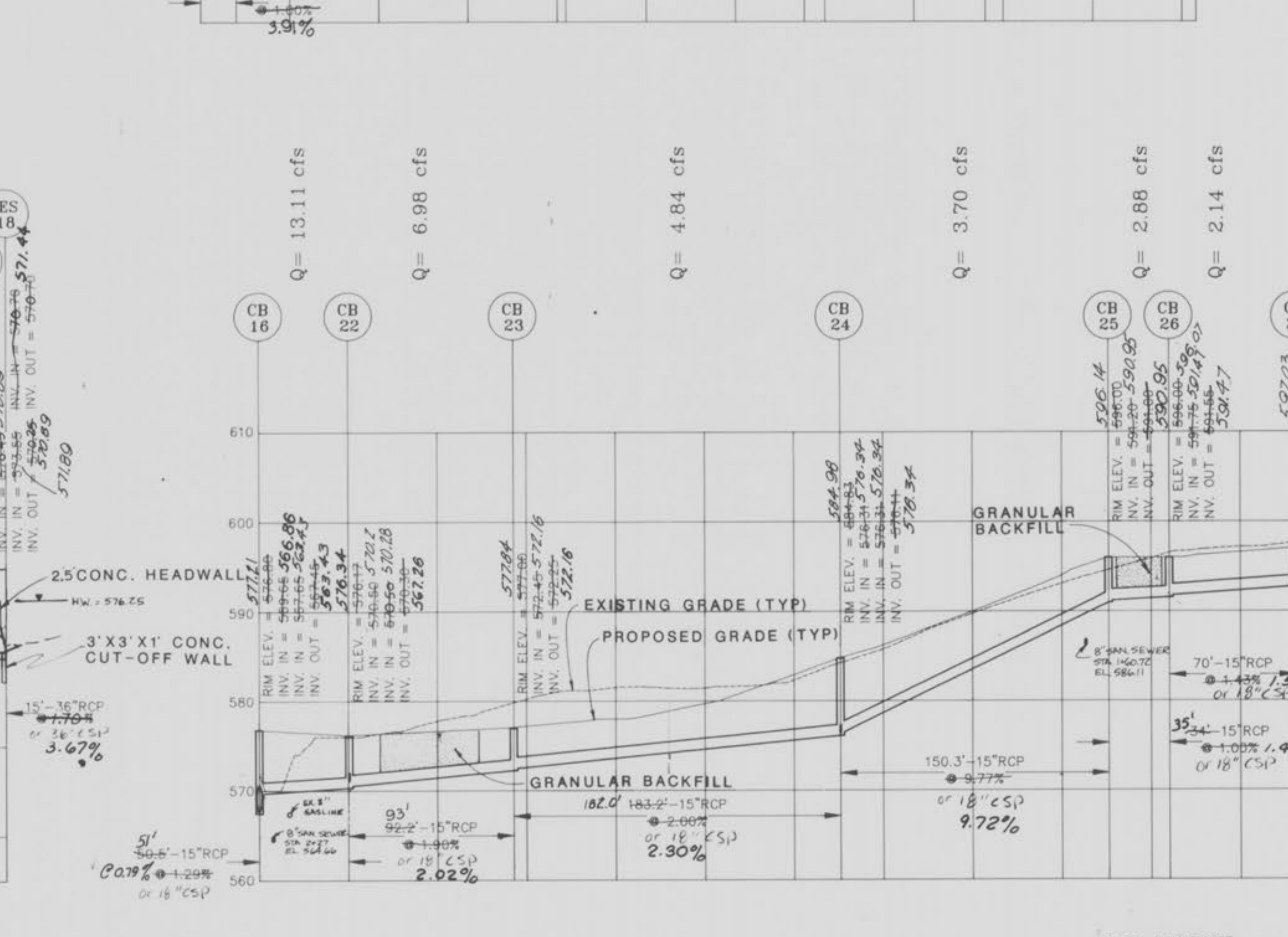
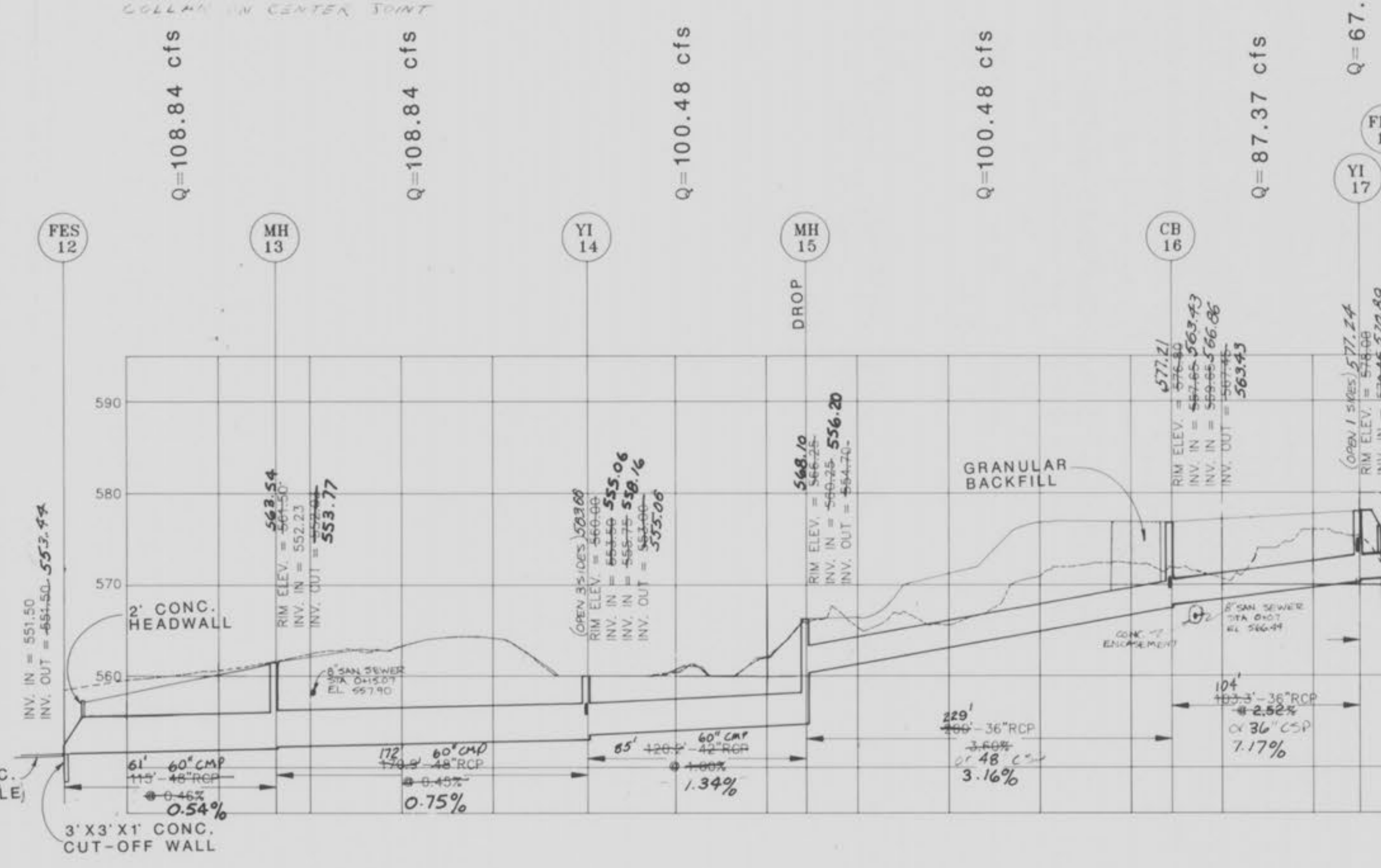
AS-BUILT
 SANITARY SEWER PROFILES

JOB	SHEET	OF
5346	7	11



INLET 18 ENTRANCE CONTROL

P.I. for 50 Yr. Storm =
 [(15 Yr. storm) X 1.28] X [1.2 (SA)] = 2.92
 22.95 Ac. X 2.92 = 67.10
 Q = 67.10 cfs
 D = 36 inches = 3 ft.
 From nomograph $\frac{H_w}{D} = 1.85$
 $H_w = 5.55'$
 $H_w \text{ Elev. } (E.H.W.) = 570.70 + 5.55 = 576.25$
 FREEBOARD = 578.25 - 576.25 = 2.0'



**AS-BUILT
STORM SEWER PROFILES**

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IEI

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 FAX (314) 946-0713

KENNETH E. INGRAM, P.E.

REVISIONS

12/14/93 T.G.
1/31/94 ET

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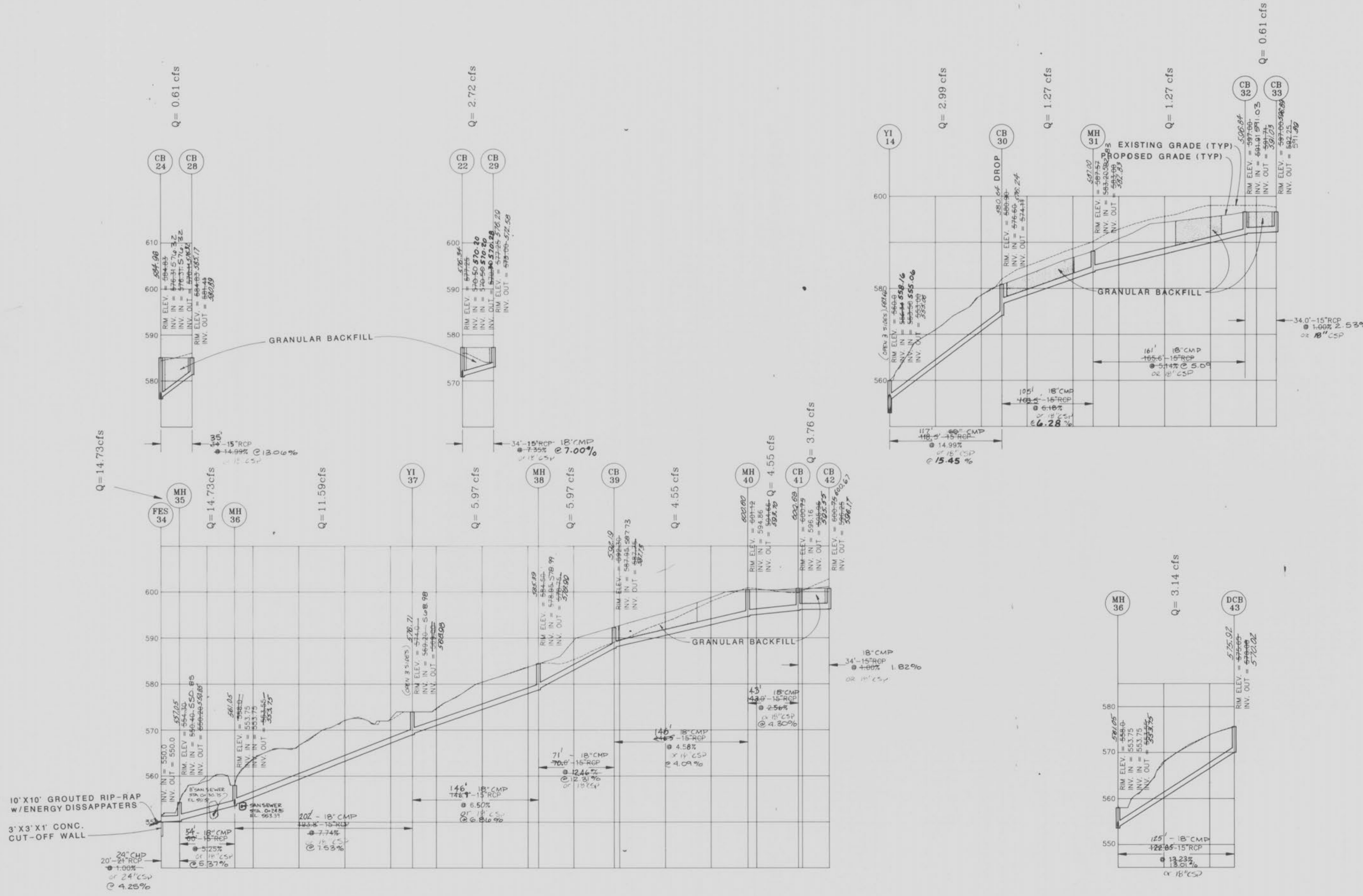
DATE

SCALE

VERT. 1"=10'
 HORIZ. 1"=50'

JOB 5346 SHEET 8 OF 11

FILE NAME C:\4910\STORM\STORM.DWG



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STORM SEWER PROFILES

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FAX (314) 946-8715

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REVISIONS

1/14/93	T.G.
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TITLE

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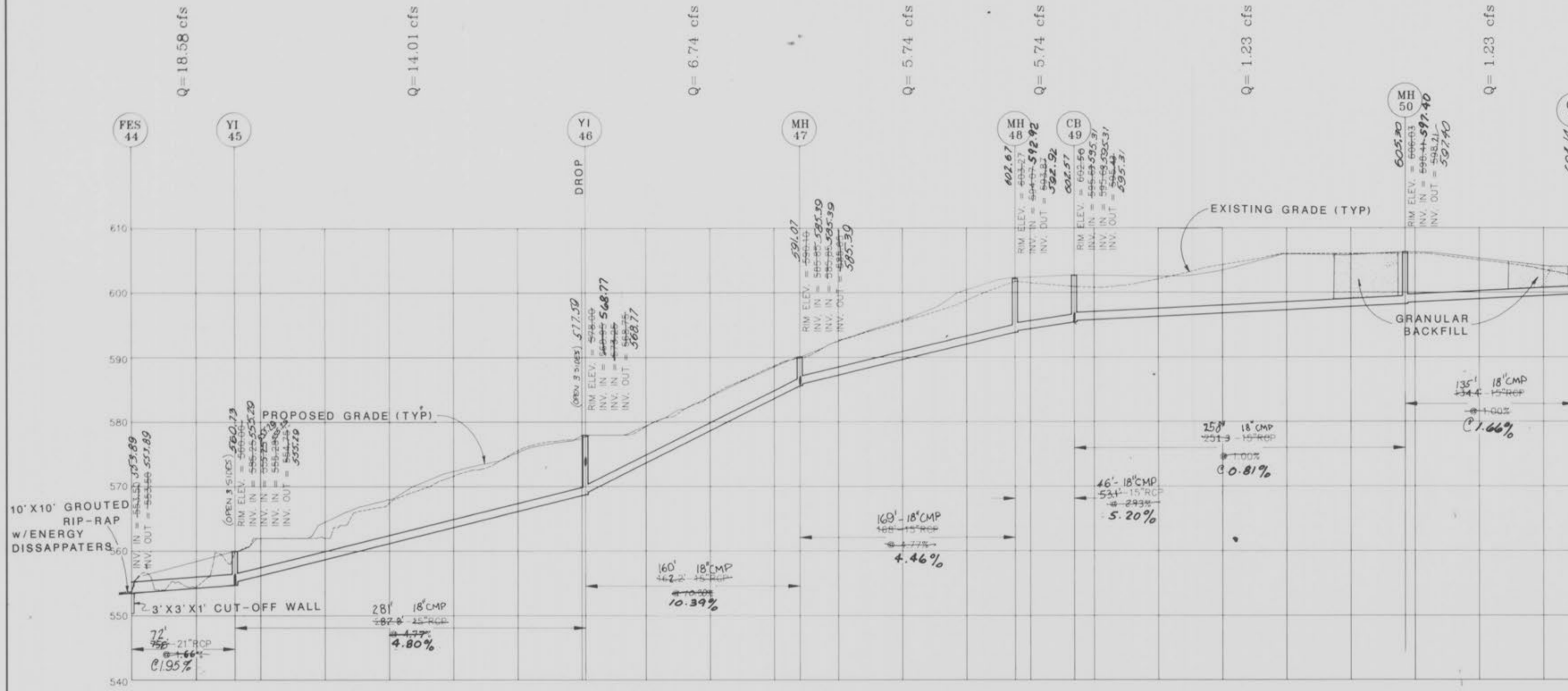
DATE

SEAL

STATE OF MISSOURI
KENNETH E. INGRAM
E-10234
ENGINEER

SCALE
1" = 50'

JOB	5346	SHEET	9	OF	10
FILE NAME	C:\4910\STORM\STORM.DWG				



Q = 18.58 cfs

Q = 14.01 cfs

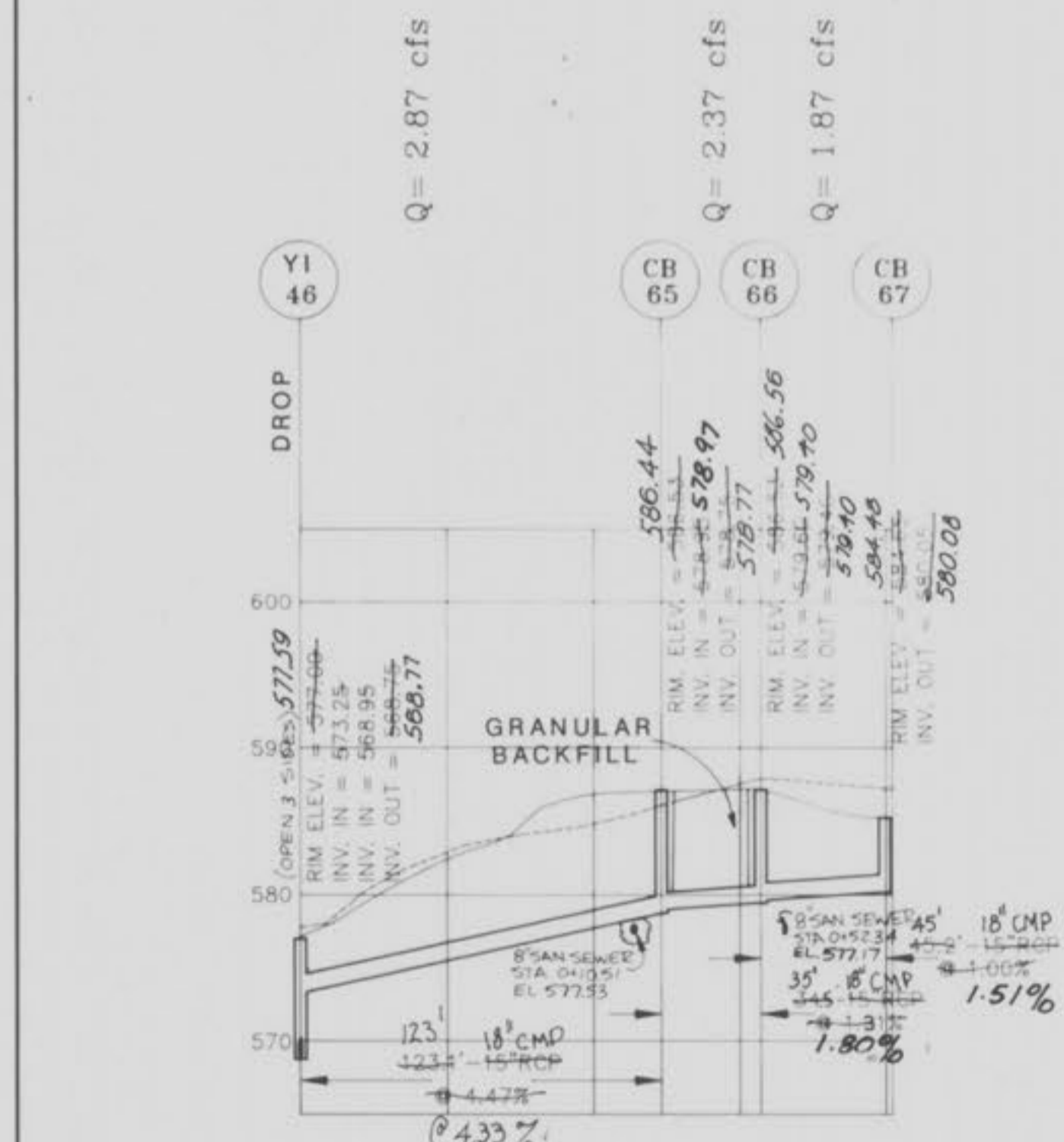
Q = 6.74 cfs

Q = 5.74 cfs

Q = 5.74 cfs

Q = 1.23 cfs

Q = 1.23 cfs



Q = 2.87 cfs

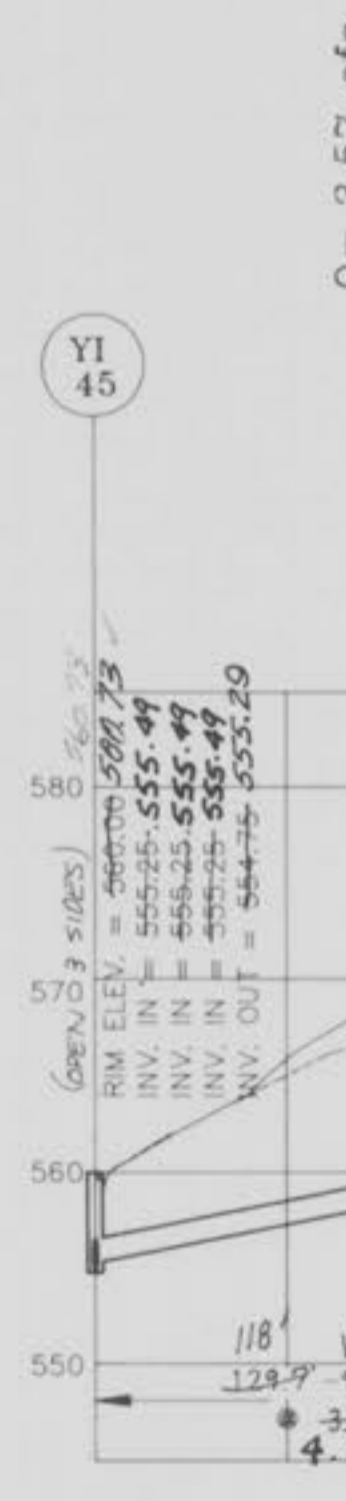
Q = 2.37 cfs

Q = 1.87 cfs



Q = 1.00 cfs

Q = 0.50 cfs



Q = 3.57 cfs

Q = 1.00 cfs

Q = 0.50 cfs

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REVISIONS

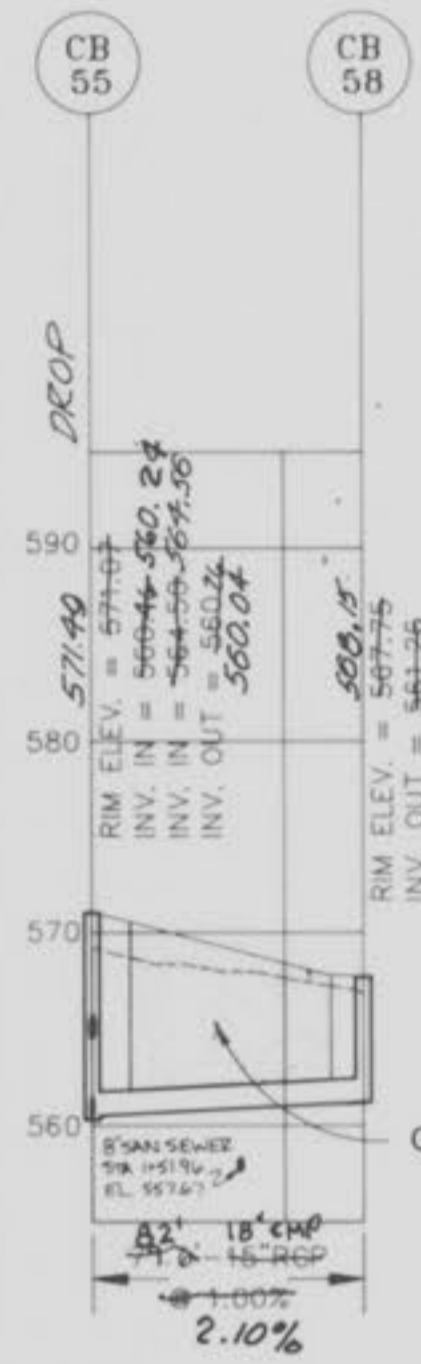
12/14/93	T.G.
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TITLE
DESIGNED
DRAWN
CHECKED
DATE
SEAL
SCALE 1"=50'

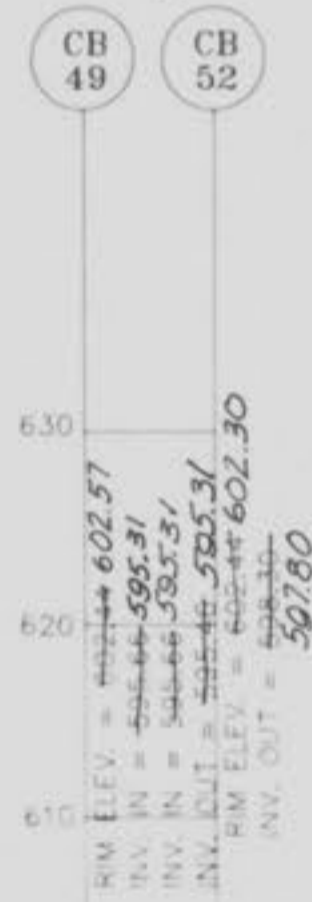
JOB	SHEET	OF
5346	10	11
FILE NAME	C:\4910\STORM\STORM.DWG	

Q = 2.06 cfs



GRANULAR BACKFILL

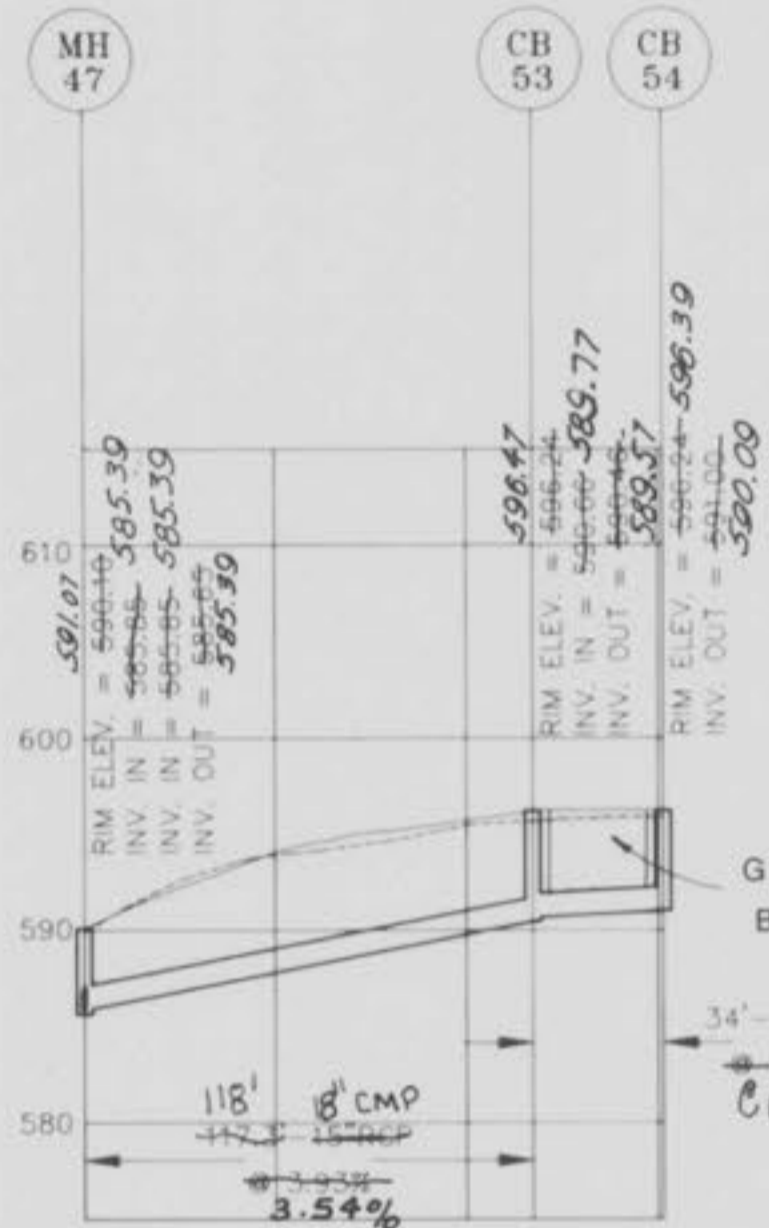
Q = 3.24 cfs



GRANULAR BACKFILL

18" CMP @ 7.32%

Q = 1.0 cfs



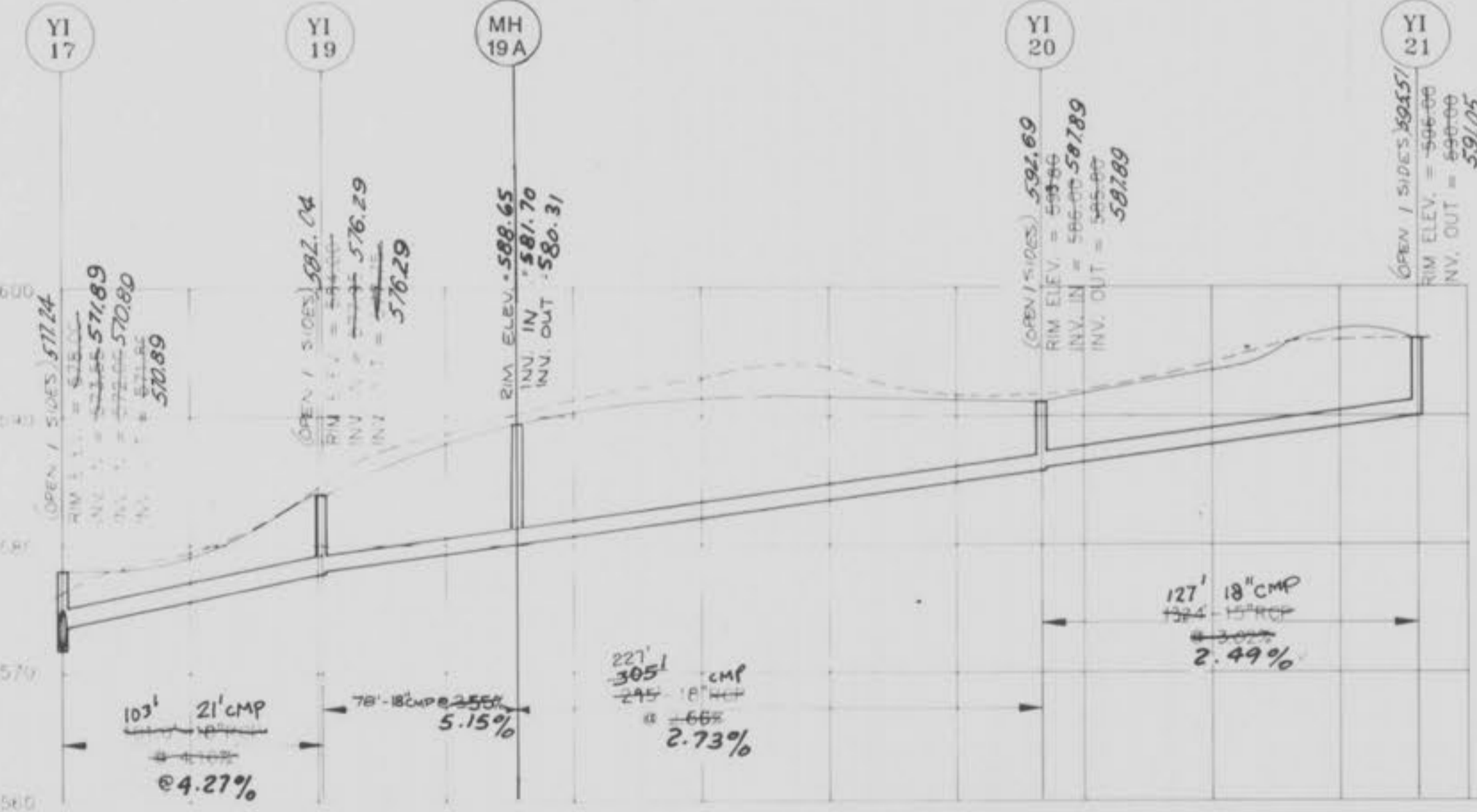
10' X 10' GROUTED RIP-RAP W/ ENERGY DISSIPATORS

GRANULAR BACKFILL

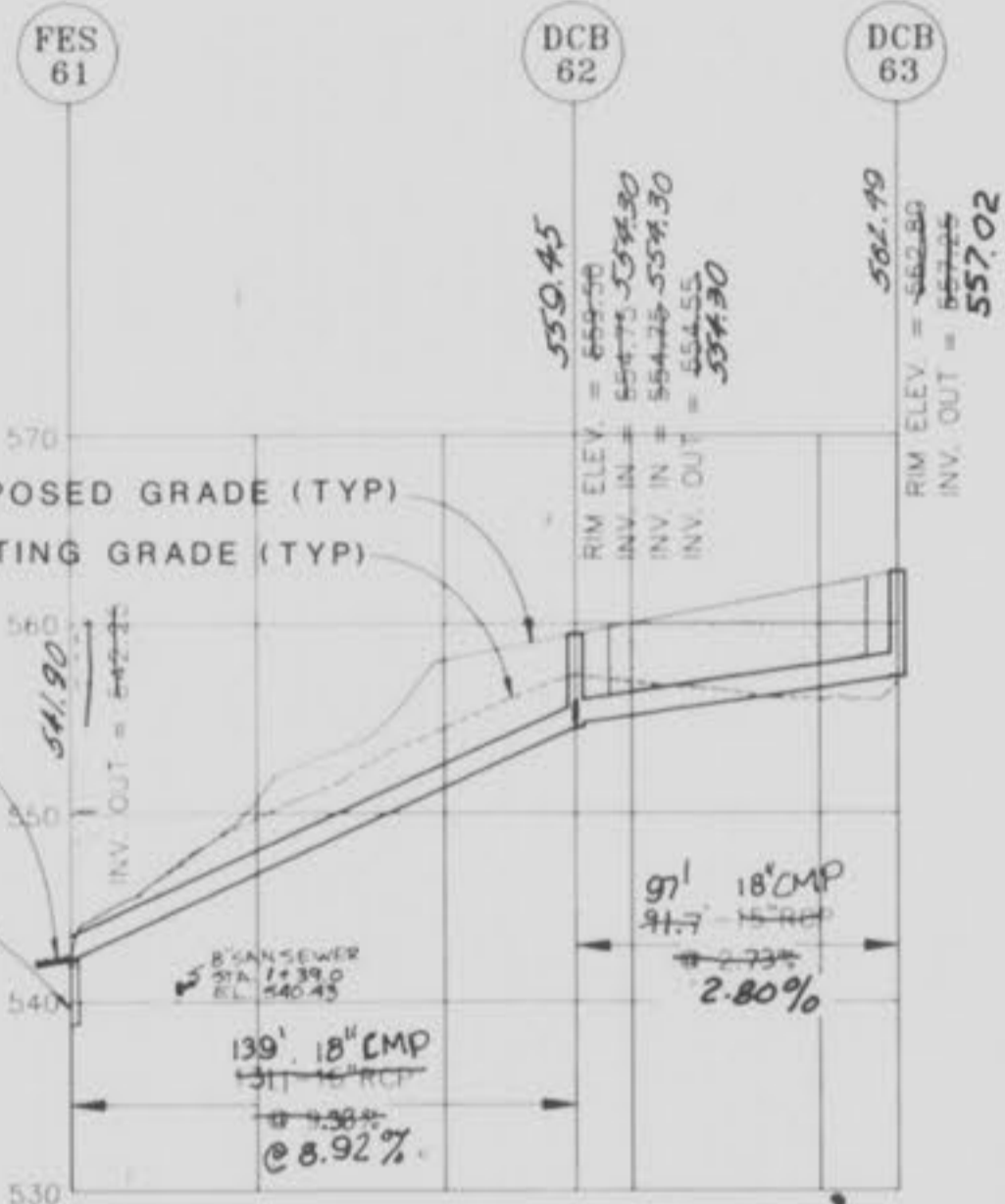
18" CMP

@ 0.94%

Q = 12.12 cfs



Q = 6.53 cfs



Q = 3.00 cfs

GRANULAR BACKFILL

Q = 0.50 cfs



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JOB	SHEET	OF			
5346	11	11			
FILE NAME	C:\4910\STORM\STORM.DWG				