

STATEMENT OF ESTIMATED QUANTITIES					
CHART NO.	ITEM NO.	ITEM	UNIT	ANDKA COUNTY C. P. 94-03-07	
				ESTIMATED	FINAL
	0013.601	CELLULAR MOBILE TELEPHONE	LUMP SUM	1	
	0015.601	COMPUTER EQUIPMENT	LUMP SUM	1	
	2021.501	MOBILIZATION	LUMP SUM	1	
	2031.501	FIELD OFFICE TYPE D	EACH	1	
A	2101.501	CLEARING	ACRE	11.05	
A	2101.502	CLEARING	TREE	214	
A	2101.506	GRUBBING	ACRE	11.05	
A	2101.507	GRUBBING	TREE	188	
①	H 2104.501	REMOVE FENCE	LIN FT	1413	
②	O 2104.501	REMOVE CULVERT PIPE	LIN FT	496	
③	D 2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	51411	
④	K 2104.505	REMOVE CONCRETE PAVEMENT	SQ YD	83	
⑤	F 2104.505	REMOVE GROUDED RIPRAP	SQ YD	20	
⑥	B 2104.511	SAWING CONCRETE PAVEMENT	LIN FT	23	
⑦	E 2104.513	SAWING BITUMINOUS PAVEMENT	LIN FT	600	
⑧	H 2104.521	SALVAGE FENCE	LIN FT	8421	
⑨	I 2104.521	SALVAGE TWISTED END TREATMENT	EACH	4	
⑩	2104.523	SALVAGE SIGN TYPE C	EACH	133	
⑪	2104.523	SALVAGE SIGN TYPE SPECIAL	EACH	14	
⑫	0104.602	SALVAGE STONE FOUNDATION	CU YD	100	
	U 2105.501	COMMON EXCAVATION	CU YD	115144 (P)	
	U 2105.507	SUBGRADE EXCAVATION	CU YD	5979	
	U 2105.525	TOPSOIL BORROW (LV)	CU YD	4312	
⑬	2123.509	DOZER	HOURL	80	
⑭	2130.501	WATER	M-GALLON	350	
⑮	V.K 2211.503	AGGREGATE BASE (CV) CLASS-5A	CU YD	16379 (P)	
⑯	C 2232.501	MILL BITUMINOUS SURFACE	SQ YD	1882	
⑰	K 0331.601	2" THICK BITUMINOUS WEARING COURSE	SQ YD	2082	
⑱	0331.601	SAWED/SEALED JOINT	LIN FT	15845	
⑲	V 2340.508	TYPE 41 WEARING COURSE MIXTURE	TON	8017	
⑳	V 2340.510	TYPE 31 BINDER COURSE MIXTURE	TON	6150	
㉑	V 2340.514	TYPE 31 BASE COURSE MIXTURE	TON	8145	
	V 2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	6134	
	0412.602	MAIL BOX SUPPORT	EACH	58	
O.R	2501.511	15" CS PIPE CULVERT	LIN FT	1646	
O	2501.511	18" CS PIPE CULVERT	LIN FT	1494	
O	2501.515	24" RC PIPE APRON	EACH	12	
R	2501.515	18" RC SAFETY APRON & GRATE, DES 3128F	EACH	2	
R	2501.515	36" RC PIPE APRON	EACH	2	
O	2501.561	24" RC PIPE CULVERT, DES 3006	LIN FT	304	
O	2501.567	15" CS SAFETY APRON & GRATE, DES 3128F	EACH	86	
O.R	2501.567	18" CS SAFETY APRON & GRATE, DES 3128F	EACH	28	
R	2503.501	18" RC PIPE SEWER DESIGN 3006	LIN FT	628	
R	2503.501	36" RC PIPE SEWER DESIGN 3006	LIN FT	460	
Q	0504.602	ADJUST VALVE BOX- WATER	EACH	4	
P	0504.602	RELOCATE HYDRANT AND VALVE	EACH	1	
R	2506.501	CONSTRUCTION DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	9.2	
R	2506.501	CONSTRUCTION DRAINAGE STRUCTURE DESIGN H	LIN FT	11.7	
R	2506.501	CONSTRUCTION DRAINAGE STRUCTURE DESIGN SPECIAL 1	LIN FT	3.8	
R	2506.501	CONSTRUCTION DRAINAGE STRUCTURE DESIGN SPECIAL 2	LIN FT	3.6	
T	2506.516	CASTING ASSEMBLY	EACH	6	
S	0506.602	ADJUST FRAME AND RING CASTING (SANITARY)	EACH	4	

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				ESTIMATED	FINAL
	O.R 2511.507	GROUDED RIPRAP	CU YD	58	
	K 2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	70	
⑧	J 2535.501	BITUMINOUS CURB	LIN FT	3453	
	M 0554.602	ECCENTRIC LOADER BCT	EACH	4	
①	H 0557.603	INSTALL FENCE	LIN FT	7879	
	H 0557.603	TEMPORARY FENCING	LIN FT	546	
	0563.601	DETOUR SIGNING	LUMP SUM	1	
③	0564.602	INSTALL SIGN TYPE SPECIAL	EACH	14	
④	2573.501	BALE CHECK	EACH	320	
⑤	G 2573.503	SILT FENCE, PREASSEMBLED	LIN FT	2238	
⑥	L 2573.508	BITUMINOUS LINED FLUME	SQ YD	195	
	N 2575.501	SEEDING	ACRE	35.3 (P)	
	N 2575.503	SEED, MIXTURE 900	POUND	1498	
	N 2575.505	SODDING, TYPE LAWN AND BOULEVARD	SQ YD	26337	
	N 2575.511	MULCH MATERIAL TYPE-1	TON	70.6	
	2575.519	DISK ANCHORING	ACRE	35.3 (P)	
⑫	N.O 2575.524	TURF ESTABLISHMENT BLANKET, TYPE STRAW	SQ YD	8776	
	N 2575.531	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	17630	
	2580.501	TEMPORARY LANE MARKING	RD STA	636	

STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY.	
PLATE NO.	DESCRIPTION
3000 L	REINFORCED CONCRETE PIPE
3006 G	GASKET JOINT FOR R. C. PIPE
3040 F	CORRUGATED METAL PIPE CULVERT
3100 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3128 F	SAFETY APRON
3133 B	RIPRAP AT RCP OUTLETS
3145 E	CONCRETE PIPE TIES
3221 C	CORRUGATED STEEL PIPE COUPLING BAND
4010 H	CONCRETE SHORT CONE AND ADJUSTING RING
4101 C	RING CASTING FOR MANHOLE OR CATCH BASIN
4110 E	COVER CASTING FOR MANHOLE
4180 H	MANHOLE OR CATCH BASIN STEP
4006 L	MANHOLE OR CATCH BASIN
4220 G	MANHOLE OR CATCH BASIN COVER
8000 I	STANDARD BARRICADES
9307 P	STEEL PLATE BEAM GUARDRAIL
9329 F	ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL (FLT)
9102 D	TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)
9322 J	CHAIN LINK FENCE

SEE TRAFFIC SIGNAL PLAN SHEETS FOR ADDITIONAL STANDARD PLATES

INDEX OF TABULATION CHARTS		
CHART	SHEET No.	DESCRIPTION
A	3 - 4	CLEARING AND GRUBBING
B	4	SAWING CONCRETE PAVEMENT
C	4	MILL BITUMINOUS SURFACE
D	4	BITUMINOUS REMOVAL
E	4	SAWING BITUMINOUS PAVEMENT
F	4	CONCRETE RIPRAP REMOVAL
G	4	SILT FENCE
H	4	FENCE CONSTRUCTION AND REMOVALS
I	4	SALVAGE TWISTED END TREATMENT
J	4	BITUMINOUS CURB CONSTRUCTION
K	5	ENTRANCES REMOVAL AND CONSTRUCTION
L	5	BITUMINOUS FLUME CONSTRUCTION
M	5	GUARDRAIL CONSTRUCTION
N	5	TURF ESTABLISHMENT
O	6	CULVERT TABULATION
P	6	RELOCATE HYDRANT
Q	6	ADJUST VALVE BOX-WATER
R	7	STORM SEWER TABULATION
S	7	SANITARY MANHOLES TABULATION
T	7	DRAINAGE CASTING SCHEDULE
U	8	EARTHWORK SUMMARY
V	8	BASE AND BITUMINOUS QUANTITIES CHART
W	11	RIGHT TURN LANE AND BYPASS LOCATION
X	12	BERM CONSTRUCTION LOCATIONS

- NOTES
- ① INCLUDES ALL TYPES AND SIZES.
 - ② INCLUDES ALL BITUMINOUS PAVEMENTS IRREGARDLESS OF DEPTH AND WIDTH.
 - ③ MUNICIPAL STREET SIGNS.
 - ④ FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
 - ⑤ INCLUDES QUANTITY FOR AGGREGATE APPROACHES AND ENTRANCES.
 - ⑥ INCLUDES QUANTITY FOR ADDITIONAL 1/4" TO DESIGN PAVEMENT THICKNESS.
 - ⑦ FOR DRIVEWAY CONSTRUCTION, SEE CHART K.
 - ⑧ SEE SHEET 11 AND SPECIAL PROVISIONS FOR ALTERNATE CONCRETE CURB AND GUTTER.
 - ⑨ FOR EROSION CONTROL AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - ⑩ JOINTS TO BE PLACED AT 40 FT. SPACING ACROSS LANES OF TRAFFIC AND EXTEND 1FT.
 - ⑪ OLD BARN FOUNDATION ON PARCEL 5.
 - ⑫ FOR USE AT CULVERT ENDS AND AS DIRECTED BY THE ENGINEER. SEE STD. PLATE 9102 D.
 - ⑬ FOR SPREADING EXCESS MATERIAL FOR THE NEW ANDKA COUNTY FACILITY LOCATED WEST OF STA. 694+37 TO 701+52.
 - ⑭ SALVAGE TO ANDKA COUNTY HIGHWAY MAINTENANCE.

BASIS OF PLANNED QUANTITIES	
2340	TYPE 31 PLANT MIXED WEARING COURSE AND BINDER COURSE BITUMINOUS MIXTURE 110 LBS./SQ. YD. PER 1" THICKNESS
2340	TYPE 31 PLANT MIXED BASE BITUMINOUS MIXTURE 110 LBS./SQ. YD. PER 1" THICKNESS
2357	BITUMINOUS MATERIAL FOR TACK 0.05 GALLONS PER SQ. YD. PER LIFT APPLIED
2575	MULCH MATERIAL TYPE 1, 2 TONS PER ACRE
2575	COMMERCIAL FERTILIZER, ANALYSIS 10-10-10 (OR EQUIVALENT) 500 LBS./ACRE ON ALL SEED AREAS
2575	ROADSIDE SEEDING BASED ON HORIZONTAL MEASUREMENT +10% SEED MIXTURE NO. 900, 45 LBS. PER ACRE

REVISIONS	DATE	BY
3-4-97	D.W.F.	

FILE NAME: 1940307.DWG\07TAB-CH.DWG MN. (02-18-97)

CLEARING AND GRUBBING (A)					
STATION - STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
499+43	59' RT.	1		1	
502+61	48' RT.			1	
504+01 - 506+08	19'-60'		0.30		0.30
506+36	53' RT.	2		1	
506+78	38' RT.	3		1	
507+10	48' RT.	1		1	
507+70	53' LT.	1		1	
507+83	51' LT.	1		1	
507+88	51' LT.	1		1	
507+94	50' LT.	1		1	
507+99	50' LT.	1		1	
508+56	50' LT.	1		1	
508+74	57' LT.	1		1	
508+81	54' LT.	1		1	
508+89	55' LT.	1		1	
508+95	45' LT.	1		1	
509+10	56' LT.	1		1	
510+11 - 513+36	41'-60'		0.30		0.30
513+61	42' RT.	1		1	
513+64	51' RT.	1		1	
513+67	59' RT.	1		1	
513+70	51' RT.	1		1	
514+16 - 515+48	23'-60'		0.20		0.20
515+40 - 516+35	41'-60'		0.15		0.15
515+65	52' LT.	1		1	
515+73	36' LT.	1		1	
516+14	50' LT.	1		1	
516+36	43' LT.	1		1	
516+70	44' LT.	4		1	
516+74	51' RT.	4		1	
516+86	40' LT.	1		1	
517+00 - 520+09	30'-60'		0.35		0.35
520+35 - 522+21	46'-60'		0.15		0.15
521+96 - 527+63	3'-60'		0.80		0.80
534+93 - 535+50	57'-60'		0.05		0.05
535+68 - 536+88	57'-60'	23		23	
535+94	56' RT.	1		1	
536+13	44' RT.	1		1	
539+60 - 540+90	49'-60'		0.10		0.10
541+11	58' LT.	1		1	
541+19	47' LT.	1		1	
541+40	49' LT.	1		1	
541+54	57' LT.	1		1	
541+71	46' LT.	1		1	
541+94	45' LT.	1		1	
541+96	45' LT.	1		1	
541+97	43' LT.	1		1	
542+14	49' LT.	1		1	
542+24	45' LT.	1		1	
542+46	55' LT.	1		1	
542+59	52' LT.	1		1	
542+78	53' LT.	1		1	
542+85	52' LT.	1		1	
542+89	49' LT.	1		1	
542+96	54' LT.	1		1	
543+39	53' LT.	1		1	
543+45	52' LT.	1		1	
543+49	51' LT.	1		1	
543+49	56' LT.	1		1	
543+52	51' LT.	1		1	
543+54	55' LT.	2		1	
543+54	47' LT.	1		1	
543+56	53' LT.	1		1	
543+56	50' LT.	1		1	
543+61	55' LT.	1		1	
543+62	53' LT.	2		1	
543+67	54' LT.	2		1	
543+71	57' LT.	1		1	
543+89	56' LT.	1		1	
544+10	53' LT.	1		1	
544+25	55' LT.	1		1	
544+32	55' LT.	1		1	
544+50	54' LT.	1		1	
544+62	54' LT.	1		1	
544+69	54' LT.	1		1	
544+86	54' LT.	1		1	
545+11	55' LT.	1		1	
545+20	55' LT.	1		1	
545+36	54' LT.	1		1	
545+48	52' LT.	1		1	
545+54	52' LT.	1		1	
545+86	30' LT.	1		1	
545+69 - 546+30	47'-60'		0.05		0.05
547+34 - 548+00	36'-73'		0.10		0.10
549+01	60' RT.	1		1	
551+53	50' LT.	1		1	
552+36	17' LT.	1		1	
553+00	17' LT.	1		1	
553+21 - 560+11	19'-60'		0.75		0.75
554+05	48' RT.	4		1	

CLEARING AND GRUBBING (A)					
STATION - STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
554+07	48' RT.	1		1	
554+13	40' RT.	2		1	
554+14	40' RT.	1		1	
554+57	40' RT.	1		1	
554+76	46' RT.	2		1	
554+91	48' RT.	1		1	
555+07	55' RT.	1		1	
555+18	52' RT.	1		1	
555+36	54' RT.	1		1	
555+76 - 558+28	34'-70'		0.30		0.30
558+19	59' RT.	1		1	
558+20	51' RT.	1		1	
558+52 - 562+28	39'-60'		0.45		0.45
562+40	38' RT.	1		1	
569+30 - 571+60	29'-60'		0.30		0.30
569+62	35'-60'	10		10	
569+75	46' LT.	1		1	
570+41	19' LT.	1		1	
570+94	38' LT.	2		1	
571+85	40' LT.	1		1	
572+04	16' LT.	1		1	
572+34	53' LT.	1		1	
572+34	31' LT.	1		1	
572+35	24' LT.	1		1	
572+37	30' LT.	1		1	
572+69 - 573+09	25'-53'				
573+09	54' LT.	1		1	
573+11	37' LT.	1		1	
573+22	45' LT.	2		1	
573+23	40' LT.	1		1	
580+53	49' LT.	1		1	
580+62	45' LT.	1		1	
580+73	44' LT.	1		1	
580+85	46' LT.	1		1	
581+03	51' LT.	3		1	
581+18	48' LT.	1		1	
581+30	55' LT.	1		1	
582+00 - 583+11	39'-60'		0.10		0.10
587+24	35' RT.	1		1	
587+27	27' RT.	1		1	
587+30	35' RT.	1		1	
587+31	33' RT.	1		1	
587+31	36' RT.	1		1	
587+32	35' RT.	1		1	
588+40 - 588+71	23'-50'		0.05		0.05
589+20 - 593+85	21'-56'		0.45		0.45
589+65	41' LT.	1		1	
589+44	41' LT.	1		1	
589+51	54' LT.	1		1	
595+33	49' LT.	1		1	
595+34	49' LT.	2		1	
595+41	49' LT.	1		1	
592+45 - 594+62	28'-60'		0.15		0.15
594+15	44' RT.	2		1	
594+50	35' RT.	2		1	
594+59	35' RT.	1		1	
594+61	36' RT.	1		1	
594+63	35' RT.	1		1	
594+69	25' RT.	1		1	
594+71	36' RT.	1		1	
594+72	38' RT.	1		1	
594+73	33' RT.	1		1	
594+74	36' RT.	1		1	
594+75	36' RT.	1		1	
601+52	22' RT.	1		1	
601+96	35' RT.	5		1	
605+21	59.4' LT.	1		1	
605+23	59.9' LT.	1		1	
605+25	59.5' LT.	1		1	
605+30	59.8' LT.	1		1	
607+82	19' RT.	4		1	
608+10	20' RT.	1		1	
608+11	6' RT.	1		1	
608+83	8' RT.	1		1	
608+99	7' RT.	1		1	
609+48	17' RT.	1		1	
614+34 - 614+97	55'-119'		0.05		0.05
615+55 - 617+17	50'-60'		0.10		0.10
617+30 - 619+05	32'-60'		0.20		0.20
614+92	32' RT.	1		1	
615+22	26' RT.	1		1	
615+29	35' RT.	1		1	
615+42	33' RT.	1		1	
615+48	56' RT.	1		1	
615+57	57' RT.	1		1	
615+67	26' RT.	1		1	
615+78	56' RT.	1		1	
615+88	30' RT.	1		1	
615+89	49' RT.	1		1	
616+00	30' RT.	1		1	

CLEARING AND GRUBBING (A)					
STATION - STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
616+06	44' RT.	1		1	
616+11	23' RT.	1		1	
616+13	50' RT.	1		1	
616+24	26'-49'	5		5	
616+49	15' RT.	1		1	
616+58	25' RT.	1		1	
616+61	48' RT.	1		1	
616+71	21' RT.	1		1	
616+85	40' RT.	1		1	
617+26	33' RT.	1		1	
617+43	56' RT.	1		1	
617+51	56' RT.	1		1	
617+53	56' RT.	1		1	
617+62	25' RT.	1		1	
617+63	46' RT.	1		1	
617+75 - 621+82	22'-60'		0.40		0.40
621+16	53' LT.	1		1	
621+32	53' LT.	1		1	
621+32	51' LT.	1		1	
622+04	48' RT.	1		1	
622+17	50' RT.	1		1	
622+66	57' LT.	1		1	
622+77	60' LT.	1		1	
623+18	56' LT.	1		1	
623+40	52' LT.	1		1	
623+64	34' LT.	2		1	
624+09	25' LT.	1		1	
624+23	24' LT.	1		1	
624+32	39' LT.	1		1	
624+39	23' LT.	1		1	
624+56	26' LT.	1		1	
624+92	15' LT.	1		1	
625+06	46' LT.	1		1	
625+18	21' LT.	1		1	
625+18	45' LT.	1		1	
625+35	20' LT.	1		1	
625+42	35' LT.	1		1	
625+51	22' LT.	1		1	
625+52	31' LT.	1		1	
625+58	23' LT.	1		1	
627+84	29' LT.	4		1	
628+06	27' LT.	3		1	
628+90	16' LT.	5		1	
628+46 - 629+31	46'-60'		0.05		0.05
629+46	56' RT.	1		1	
629+56	21' LT.	1		1	
629+80	56' RT.	1		1	
629+95	57' RT.	1		1	
630+10	56' RT.	1		1	
630+26	57' RT.	1		1	
630+61 - 632+34	19'-58'		0.15		0.15
632+52	50' LT.	2		1	
632+52	48' LT.	2		1	
632+52	48' LT.	3		1	
632+68	36' LT.	2		1	
632+87	32' LT.	1		1	
633+30	51' LT.	4		1	
633+35	54' LT.	1		1	
633+42	35' RT.	2		1	
633+53	34' RT.	2		1	
633+60	55' RT.	1		1	
633+85	28' RT.	1		1	
633+88	26' RT.	2		1	
633+94	28' RT.	2		1	
634+06	20' RT.	1		1	
634+16	20' RT.	1		1	
634+28	20' RT.	1		1	
635+19	29' RT.	1		1	
635+28	43' RT.	1		1	
635+28	37' RT.	2		1	
635+29	45' RT.	1		1	
635+31	29' RT.	1		1	
635+39	42' RT.	2		1	
635+41	25' RT.	2		1	
635+6					

CLEARING AND GRUBBING (CONT.)

STATION - STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
682+96	40' RT.	1		1	
682+96	44' RT.	2		1	
682+96	42' RT.	1		1	
682+00 - 683+02	26'-60' LT.		0.15		0.15
688+29	52' LT.			1	
688+44	59' LT.	1		1	
688+46	49' LT.	1		1	
688+47	50' LT.			1	
688+52	34' RT.	1		1	
688+72	34' LT.			1	
688+73	28' RT.	1		1	
688+73	28' RT.	1		1	
688+74	40' RT.	1		1	
688+76	49' RT.	1		1	
688+97	63' RT.	1		1	
689+04	46' RT.	1		1	
689+04	52' RT.	1		1	
689+07	61' RT.	1		1	
689+37	32' RT.	1		1	
689+08 - 690+73	33'-60' RT.		0.10		0.10
694+24 - 695+04	49'-60' RT.		0.10		0.10
693+94 - 698+34	26'-60' LT.		0.40		0.40
695+12	56' RT.	1		1	
695+36	57' RT.	1		1	
695+39	59' RT.	1		1	
695+45	39' RT.	1		1	
695+47	52' RT.	1		1	
695+49	49' RT.	1		1	
695+60	39' RT.	1		1	
695+78	36' RT.	1		1	
695+78	36' RT.	1		1	
695+84	47' RT.	5		1	
695+85	33' RT.	5		1	
695+91	35' RT.	5		1	
696+27	50' RT.	5		1	
696+39	49' RT.	1		1	
696+42	57' RT.	1		1	
696+47	52' RT.	2		1	
696+51	49' RT.	5		1	
696+56	47' RT.	1		1	
696+65	42' RT.	1		1	
696+67	37' RT.	1		1	
696+68	47' RT.	1		1	
696+69	48' RT.	1		1	
696+74	40' RT.	5		1	
696+79	47' RT.	1		1	
696+86	47' RT.	1		1	
696+88	43' RT.	1		1	
696+89	34' RT.	1		1	
696+92	35' RT.	1		1	
696+96	37' RT.	1		1	
697+85	57' RT.	1		1	
697+86	52' RT.	1		1	
699+39	32' RT.	1		1	
699+39	33' RT.	1		1	
699+85	57' RT.	1		1	
699+86	52' RT.	1		1	
699+52 - 702+90	41'-60' LT.		0.25		0.25
703+66 - 707+83	31'-60' LT.		0.35		0.35
708+96	40' RT.	1		1	
708+97	39' RT.	1		1	
694+34 - 701+52	LT		2.30		2.30
TOTAL		214	11.05	188	11.05

SAWING CONCRETE PAVEMENT (B)

STATION	LOCATION	REMARKS	LTN. FT.
620+00	ENT. LT.		12
513+50	ENT. RT.		11
TOTAL			23

MILL BITUMINOUS SURFACE (C)

STATION	LOCATION	REMARKS	SQ. YD.
648+41 - 649+01	20' LT. & RT.	BRIDGE	267
708+73	20' - 100' LT.	C.S.A.H 24	386
708+20 - 711+33	20' LT. & RT.	MAINLINE	1229
TOTAL			1882

BITUMINOUS REMOVAL (D)

STATION-STATION	LOCATION	DESCRIPTION	SQ. YD.
499+50 - 511+00	21' LT. & RT.	MAINLINE	2976
511+00 - 516+70	21' LT. & RT.	MAINLINE	1322
516+70 - 522+52	21' LT. & RT.	MAINLINE	1335
522+52 - 537+27	21' LT. & RT.	MAINLINE	3466
537+27 - 543+97	21' LT. & RT.	MAINLINE	1564
543+97 - 575+97	21' LT. & RT.	MAINLINE	1651
575+97 - 590+48	21' LT. & RT.	MAINLINE	3468
590+48 - 596+38	21' LT. & RT.	MAINLINE	1473
596+38 - 616+02	21' LT. & RT.	MAINLINE	4734
616+02 - 618+31	21' LT. & RT.	MAINLINE	545
618+31 - 623+90	22' LT. & RT.	MAINLINE	1515
623+90 - 626+90	23' LT. & RT.	MAINLINE	792
626+90 - 632+41	21' LT. & RT.	MAINLINE	1294
632+41 - 637+76	21' LT. & RT.	MAINLINE	1515
637+76 - 641+70	21' LT. & RT.	MAINLINE	968
641+70 - 645+16	22' LT. & RT.	MAINLINE	868
645+16 - 648+41	44' LT. & RT.	MAINLINE	1469
648+41 - 649+01	42' LT. & RT.	BRIDGE (MILLING)	
649+01 - 653+31	42' LT. & RT.	MAINLINE	1990
653+31 - 660+04	24' LT. & RT.	MAINLINE	1920
660+04 - 671+80	22' LT. & RT.	MAINLINE	2865
671+80 - 688+17	22' LT. & RT.	MAINLINE	4313
688+17 - 695+20	22' LT. & RT.	MAINLINE	1738
695+20 - 708+20	40' LT. & RT.	MAINLINE	5675
708+20 - 711+33	12' RT.	RT. TU. LANE	145
521+84	60' LT.	200 TH LANE	129
550+95	77' RT.	204 TH LANE	276
574+38	60' RT.	208 TH AVE NW	207
609+66	90' RT.	SUNSHINE DR NW	412
619+16	112' LT.	214 TH AVE NW	260
697+55	60' LT.	225 TH LANE	179
705+23	60' RT.	227 TH AVE NW	164
* 499+50 - 709+43		ENTRANCES	383
TOTAL			51411

* SEE DRIVEWAY TABULATION CHART K

SAWING BITUMINOUS PAVEMENT (E)

STATION	LOCATION	REMARKS	LTN. FT.
499+50	LT. & RT.	MAINLINE	165
507+84	60' RT.	ENT.	12
520+67	59' RT.	ENT.	15
520+84	59' LT.	200 TH. LN.	28
550+95	70' RT.	204 TH. LN.	24
558+40	59' RT.	ENT.	20
574+38	60' RT.	208 TH. AVE. N.W.	24
609+66	89' RT.	SUNSHINE DR N.W.	24
615+16	112' LT.	214 TH. AVE. N.W.	24
697+55	60' RT.	225 TH. LN.	35
705+23	60' RT.	227 TH. AVE. N.W.	29
708+20	LT. & RT.	MAINLINE	32
708+20 - 711+33	12' RT.	MAINLINE	168
TOTAL			600

CONCRETE RIPRAP REMOVAL (F)

STATION	LOCATION	REMARKS	SQ. YD.
420+05	38' LT.		20
TOTAL			20

SILT FENCE (G)

STATION	LOCATION	REMARKS	LTN. FT.
501+03	503+05	56' RT.	202
582+00	585+50	55' RT.	350
583+43	586+40	56' LT.	297
607+20	608+80	50' LT.	160
637+00	638+46	56' RT.	146
643+87	645+55	56' RT.	168
648+00	648+45	56' RT.	80
648+18	648+50	56' LT.	80
648+99	649+43	56' RT.	80
649+00	649+49	38' LT.	80
702+80	704+65	60' RT.	185
702+20	706+30	60' LT.	410
TOTAL			2238

FENCE CONSTRUCTION AND REMOVAL (H)

STATION-STATION	LOCATION	SALVAGE	REMOVE	INSTALL	TEMPORARY	REMARKS
502+76 - 506+88	54'-52' RT.		412			
516+78 - 521+62	60'-44' LT.	484				
521+81 - 522+39	43'-41' LT.	58				
537+12 - 537+88	55'-60' RT.	76				
537+88 - 538+87	60'-64' RT.	99			76	
538+87 - 539+57	64'-60' RT.	70			99	
539+57 - 540+62	60'-51' RT.	105			70	
542+62 - OUT	51'-60' RT.		9		105	
542+39 - 543+36	46' RT.	97				
543+36 - 545+75	50'-53' RT.	239			97	
554+24 - 558+31	36'-40' LT.	407			239	
558+31 - OUT	40'-60' LT.		20		407	
562+35 - 567+33	45'-40' RT.	498				
567+30 - 569+29	45'-45' RT.	199			498	
569+46 - OUT	33'-60' LT.		27		199	
569+46 - 569+86	33'-29' LT.	40				
569+86 - OUT	29'-60' LT.		31		40	
571+62 - 573+87	47'-41' RT.	225				
573+87 - OUT	47'-41' RT.			225		
574+82 - OUT	41'-60' RT.		19			
574+82 - 579+97	38'-60' RT.		22			
579+97 - OUT	28'-60' RT.	515			22	
573+35 - OUT	28'-60' LT.		32		515	
573+35 - 580+39	28'-30' LT.	704			32	
580+39 - OUT	30'-60' LT.		30		704	
603+16 - 607+55	11' RT. - 7' LT.	439				
607+55 - 609+13	7' LT. - 25' RT.	158			439	
609+13 - OUT	25' RT.		35		158	
617+77 - OUT	26'-60' RT.		34			
617+77 - 621+66	26'-12' RT.	389			34	
621+66 - OUT	12'-60' RT.		48		389	
621+64 - OUT	51'-60' LT.		9			
621+64 - 632+95	51'-30' LT.	1131			9	
633+19 - OUT	32'-60' LT.		28		1131	
633+19 - 634+43	32'-54' LT.	124			28	
634+43 - OUT	54'-60' LT.		6		124	
628+15 - OUT	38'-60' RT.				6	
628+15 - 632+72	38'-39' RT.					
635+50 - 645+97	14'-37' RT.	1047				
645+97 - OUT	37'-60' RT.		23		1047	
649+33 - OUT	37'-60' RT.		23			
649+33 - 653+17	37'-34' RT.	384			23	
653+17 - OUT	34'-60' RT.		26		384	
654+04 - OUT	38'-60' RT.		22		26	
654+04 - 655+46	46' RT.	142			22	
655+46 - OUT	46'-60' RT.		14		142	
682+27 - OUT	25'-60' LT.		35			
682+59 - OUT	20'-60' LT.		40			
682+59 - 688+05	20'-24' LT.	546			40	
685+67 - 688+12	23'-24' LT.	245			546	546
688+12 - OUT	24'-60' LT.		36		245	
683+87 - 887+74	46'-47' RT.		387			
687+74 - OUT	47'-60' RT.		13		387	
TOTAL		8421	1413	7879	546	

SALVAGE TWISTED END TREATMENT (I)

STATION	LOCATION	REMARKS	EACH
647+32	24' - 28' RT.		1
647+46	24' - 28' LT.		1
650+08	24' - 28' RT.		1
650+12	24' - 28' LT.		1
TOTAL			4

BITUMINOUS CURB CONSTRUCTION (J)

STATION	LOCATION	REMARKS	LTN. FT.
499+50	501+70	26' LT.	298
508+75	510+50	20' LT.	276
562+30	569+40	20' RT.	708
580+50	583+00	20' LT.	249
590+57	592+50	20' LT.	192
600+00	602+00	20' RT.	189
604+00	606+76	20' RT.	278
614+86	617+19	20' LT.	241
632+50	635+25	20' RT.	271
653+00	658+53	20' RT.	575
657+00	658+76	20' RT.	176
TOTAL			3453

TABULATION CHARTS

- CLEARING AND GRUBBING
- SAWING CONCRETE PAVEMENT
- MILL BITUMINOUS SURFACE
- BITUMINOUS REMOVAL
- SAWING BITUMINOUS PAVEMENT
- BITUMINOUS FLUME REMOVAL
- SILT FENCE
- FENCE CONSTRUCTION
- SALVAGE TWISTED END TREATMENT
- BITUMINOUS CURB CONSTRUCTION

REVISIONS	DATE	BY

FILE NAME: 194007JUNG07TAB-CHUDWG MK. (02-18-97)

ENTRANCES REMOVAL AND CONSTRUCTION CHART (K)														
STATION	ADDRESS	LOCATION	DESCRIPTION	REMOVAL		REPLACEMENT		REMOVAL		REPLACEMENT				
				LENGTH	WIDTH	LENGTH	WIDTH	CONC. SQ. YD.	BIT. SQ. YD.	AGREGATE SQ. YD.	CONC. SQ. YD.	BIT. SQ. YD.	6" AGREGATE SQ. YD.	
501+43	PARCEL 1	LT.	BIT.	40	17	36	14			99	65			
503+42	19761	RT.	AGG.	67	9	40	12			108	31			
507+84	19615	RT.	BIT.			40	12		82		64			
508+21	19820	LT.	AGG.			43	12			75	31			
513+50	19881	RT.	CONC.	46	11	40	12	72		59	32			
515+90	PARCEL 3	LT.	AGG.	52	10	43	12			71	36			
521+60	PARCEL 7	RT.	BIT.	68	15	40	15		128		77			
533+68	PARCEL 5	RT.	AGG.	76	10	40	12			98	31			
535+80	20231-1	LT.	AGG.	24	14	40	14			38	38			
536+98	20231-2	LT.	AGG.	25	16	40	16			53	47			
542+36	20316	LT.	AGG.	40	10	40	12			50	31			
542+43	PARCEL 9	RT.	AGG.	40	15	40	15			96	36			
543+22	PARCEL 6	LT.	AGG.	40	23	40	23			107	49			
545+02	20379	RT.	AGG.	57	12	40	12			89	31			
553+88	PARCEL 6	LT.	AGG.	57	12	40	12			84	31			
558+40	20575	RT.	BIT.	50	12	50	12			95	87			
563+01	CEM.-1	RT.	AGG.	19	14	23	14			30	34			
564+12	CEM.-2	RT.	AGG.	19	14	23	14			30	34			
565+59	CEM.-3	RT.	AGG.	19	14	23	14			30	34			
566+47	CEM.-4	RT.	AGG.	19	14	23	14			30	34			
568+50	CEM.-5	RT.	AGG.	24	16	24	16			37	37			
568+59	PARCEL 12-1	LT.	AGG.	61	12	40	12			81	31			
569+30	PARCEL 12-2	LT.	AGG.	64	12	40	12			109	31			
572+08	20746	LT.	AGG.	58	14	40	14		92	84	34			
572+56	PARCEL 13	LT.	AGG.	58	10	40	12			66	31			
581+81	20912	LT.	AGG.	49	15	40	15			109	36			
587+05	PARCEL 15-1	LT.	AGG.	43	12	40	12			69	31			
587+05	PARCEL 19	RT.	AGG.	54	12	40	12			74	31			
590+84	PARCEL 15-2	LT.	AGG.	40	12	40	12			93	31			
601+07	PARCEL 20	RT.	AGG.	63	47	40	25			414	52			
601+29	PARCEL 17	LT.	AGG.	34	15	40	15			59	36			
604+56	21230	LT.	AGG.	26	16	40	15			72	34			
606+50	PARCEL 18	LT.	AGG.	21	12	40	12			41	31			
615+12	PARCEL 34	RT.	AGG.	57	10	40	12			99	31			
616+94	21417	RT.	AGG.	54	10	40	12			84	31			
617+24	21430	LT.	AGG.	44	10	40	12			77	31			
619+00	NEW ENT.	LT.	AGG.			40	12				30			
620+00	21470	LT.	CONC. & BIT.	37	10	27	12	11	47	11	47			
621+45	REMOVE	LT.	AGG.	40	11					53				
623+69	21517	RT.	AGG.	43	12	40	12			36	31			
623+94	PARCEL 24	LT.	AGG.	50	11	40	12		34	36	31			
627+49	PARCEL 36	RT.	AGG.	43	12	40	12			65	33			
630+66	PARCEL 37	RT.	AGG.	43	12	40	12			66	31			
633+00	21658	LT.	AGG.	53	11	40	12			95	31			
634+78	21621	RT.	AGG.	85	10	40	12			146	32			
646+16	21815	RT.	AGG.	39	12	55	12			76	32			
653+87	21913-1	RT.	AGG.	44	9	40	12			42	31			
654+95	21913-2	RT.	AGG.	46	8	40	12			54	31			
655+85	21944	LT.	AGG.	48	9	40	12			65	31			
660+27	22008	LT.	AGG.	50	12	40	12			92	32			
665+49	PARCEL 32	LT.	AGG.	98	9	40	12			89	31			
666+83	PARCEL 32A	RT.	AGG.	20	9	40	12			55	31			
667+60	22020	LT.	AGG.	120	11	40	12			186	31			
670+90	PARCEL 52	RT.	AGG.	20	18	40	18			44	41			
673+56	22208	LT.	AGG.	72	14	40	14			125	32			
677+06	22231	RT.	AGG.	31	13	40	13			85	31			
681+43	22313	RT.	AGG.	35	12	40	12			59	31			
681+74	22310	LT.	AGG.	63	12	40	12			115	31			
682+48	22340	LT.	AGG.	62	12	40	12			96	31			
688+18	22390	LT.	AGG.	56	8	40	12			70	31			
689+40	22430	LT.	AGG.	47	9	40	12			63	31			
692+08	22470	LT.	AGG.	43	10	40	12			68	31			
								83	383	4493	70	2082	2010	335.0

TURF ESTABLISHMENT (N)									
STA. TO STA.	LOCATION	SOD SQ. YD.	FIBER SQ. YD.	SEEDING ACRES	SEED POUND	MULCH TONS	FERTILIZER POUND		
499+70	502+00	LT							
499+60	521+70	RT		2.03	91	4.1	1015		
499+90	500+39	RT	44						
502+00	508+00	LT		0.55	25	1.1	275		
503+21	503+64	RT			119				
507+43	508+22	RT			281				
508+00	509+92	LT			608				
509+52	515+66	LT		0.55	25	1.1	275		
510+00	510+95	LT	327						
513+29	513+69	RT			116				
515+66	516+97	LT			350				
514+68	524+50	LT	842						
516+97	535+49	LT		1.74	78	3.5	872		
521+79	550+83	RT		2.73	123	5.5	1367		
535+49	537+49	LT			468				
536+00	545+25	LT	822						
537+49	541+00	LT		0.32	15	0.6	161		
541+00	542+65	LT	733						
543+65	571+00	LT		2.45	110	4.9	1224		
551+07	562+35	RT		1.04	47	2.1	518		
558+16	562+62	RT	1784						
562+35	569+30	RT	1853						
569+09	569+82	LT	324						
569+30	574+23	RT		0.43	19	0.9	215		
569+42	569+67	RT		22					
571+00	573+00	LT	733						
573+00	580+41	LT		0.68	31	1.4	340		
574+53	600+69	RT		2.40	108	4.8	1201		
580+41	582+09	LT	653						
582+09	590+29	LT		0.75	34	1.5	376		
583+18	583+43	LT	22						
588+65	599+20	LT	938						
590+29	591+96	LT	520						
591+96	615+00	LT		2.12	95	4.2	1058		
600+69	601+59	RT	300						
601+59	614+63	RT		1.22	55	2.4	608		
604+28	604+83	LT	228						
606+18	606+84	LT	264						
606+94	607+19	LT		22					
614+83	616+36	RT	680						
615+24	619+30	LT		0.37	17	0.7	186		
616+57	625+69	RT		811					
617+05	617+52	LT	157						
617+36	621+74	RT		0.40	18	0.8	201		
619+30	625+29	LT	2740						
621+74	635+64	RT	5458						
625+79	632+72	LT		0.64	29	1.3	318		
630+49	639+68	RT		817					
632+72	634+50	LT	455						
634+90	654+82	LT		1.83	82	3.7	915		
635+64	654+66	RT		1.75	79	3.5	873		
655+43	681+09	RT		2.36	106	4.7	1178		
645+96	646+39	RT	182						
652+30	652+55	RT		18					
652+84	653+09	LT	22						
646+39	652+98	RT		0.53	24	1.1	265		
654+82	657+06	LT	946						
657+06	681+09	LT		1.96		3.9	981		
659-98	673+34	LT		1188					
681+09	682+97	LT	773						
652+98	658+43	RT	2301						
658+86	676+17	RT		1.59	72	3.2	795		
682+97	688+05	LT		0.17	8	0.3	86		
676+17	678+80	RT	1110						
688+05	711+33	LT		2.14	96	4.3	1069		
678+80	681+09	RT		0.21	9	0.4	105		
681+09	684+43	RT	1484						
684+43	711+33	RT		2.31	104	4.6	1153		
686+38	695+34	RT		796					
695+14	133' LT			33					
697+79	698+04	RT		22					
705+47	705+72	RT		22					
* 499+70	502+00	LT & RT		2008					
TOTAL			26337	8776	35.3	1498	70.6	17630	

*SEE CULVERT TABULATION CHART (O)

BITUMINOUS FLUME CONSTRUCTION (L)			
STATION	LOCATION	REMARKS	SQ. YD.
501+72	26' LT.		16
510+52	20' LT.		16
569+42	20' RT.		15
583+02	20' LT.		15
590+55	20' LT.		15
599+98	20' RT.		15
602+02	20' RT.		15
606+78	20' LT.		15
614+84	20' RT.		14
632+48	20' RT.		15
635+27	20' RT.		14
652+98	20' RT.		15
656+98	20' LT.		15
TOTAL			195

ECCENTRIC LOADER BCT CONSTRUCTION (M)				
STATION	LOCATION	REMARKS	LIN. FT.	EACH
647+53 - 647+91	24' LT & RT.	BREAKAWAY CABLE TERMINAL		2
649+51 - 649+88	24' LT & RT.	BREAKAWAY CABLE TERMINAL		2
TOTAL			300	4

TABULATION CHARTS

ENTRANCES REMOVAL AND CONSTRUCTION
 BITUMINOUS FLUME CONSTRUCTION
 ECCENTRIC LOADER BCT CONSTRUCTION
 TURF ESTABLISHMENT

CULVERT TABULATION

①

STATION	LOC	INPLACE	REMARKS	REMOVE CULV. PIPE LIN. FT. APRON	FURNISH AND INSTALL			FIBER BLANKET SQ. YD.	RIPRAP OUTLETS CU. YD.			
					15' CMP LIN. FT. APRON	18' CMP LIN. FT. APRON	24' RCP LIN. FT. APRON					
501+43	LT.	15" X 33' CMP	ENTRANCE - NO CULV. REQ'D	33								
503+42	RT.	15" X 32' CMP	ENTRANCE - NO CULV. REQ'D	32								
508+21	LT.		SEE STORM SEWER CHART									
507+84	RT.	15" X 32' CMP	ENTRANCE	32	38	2						
513+50	RT.		ENTRANCE		32	2						
514+44	C/L	15" X 36' CMP	C/L PIPE CROSSING	36			50	2	28			
515+90	LT.		ENTRANCE		42	2						
520+08	LT.	15" X 37' CMP	OUTLET FROM POND									
521+71	RT.		ENTRANCE	27	40	2			2.2			
521+84	LT.	18" X 54' CSP	200 TH. LANE	54		48	2					
533+68	RT.		ENTRANCE - NO CULV. REQ'D					101				
535+80	LT.		ENTRANCE		38	2		42				
536+98	LT.		ENTRANCE		46	2						
542+36	LT.		ENTRANCE		36	2						
542+43	RT.		ENTRANCE		44	2						
543+22	LT.		ENTRANCE		50	2						
545+02	RT.		ENTRANCE		52	2						
550+95	RT.		204 LN. N.W.			56	2					
553+88	LT.		ENTRANCE - NO CULV. REQ'D					101				
558+40	RT.		ENTRANCE		38	2		42				
562+14	C/L		C/L PIPE CROSSING				48	2	28			
563+01	RT.		ENTRANCE - NO CULV. REQ'D		36	2						
564+12	RT.		ENTRANCE - NO CULV. REQ'D		38	2						
565+59	RT.		ENTRANCE - NO CULV. REQ'D		38	2						
566+47	RT.		ENTRANCE - NO CULV. REQ'D		38	2						
568+50	RT.	15" X 30' CMP	ENTRANCE - NO CULV. REQ'D	30	40	2						
568+59	LT.		ENTRANCE		38	2						
569+30	LT.		ENTRANCE		34	2						
572+08	LT.		ENTRANCE		38	2						
572+56	LT.		ENTRANCE		36	2						
574+38	RT.		208 T.H. AVE. N.W.			56	2					
581+81	LT.		SEE STORM SEWER CHART					101				
583+89	C/L	15" X 40' CMP	REMOVAL AT 584+95	40			50	2	28			
587+05	LT.		ENTRANCE		40	2		85				
587+05	RT.		ENTRANCE		40	2		127				
590+84	LT.		ENTRANCE - NO CULV. REQ'D									
597+79	RT.		211 LN.N.W.-NO CULV. REQ'D									
601+07	RT.		ENTRANCE - NO CULV. REQ'D									
601+29	LT.		ENTRANCE		28	2						
604+56	LT.		SEE STORM SEWER CHART									
606+50	LT.	15" X 31' CMP	SEE STORM SEWER CHART	31								
609+71	RT.		SUNSHINE DR. N.W.			52	2					
615+12	LT.	15" X 46' CMP	214 T.H. AVE. N.W.	46		46	2		172			
615+12	RT.		ENTRANCE - NO CULV. REQ'D						192			
616+94	RT.		ENTRANCE - NO CULV. REQ'D									
617+24	LT.		ENTRANCE - NO CULV. REQ'D									
619+00	LT.		ENTRANCE - NEW		22	2						
620+01	LT.	15" X 30' CMP	ENTRANCE	30	40	2						
621+45	LT.		ENTRANCE - REMOVE									
623+69	RT.		ENTRANCE		36	2						
623+94	LT.		ENTRANCE		50	2						
627+49	RT.		ENTRANCE		44	2						
628+45	C/L		C/L PIPE CROSSING				52	2	28			
630+66	RT.		ENTRANCE		44	2						
633+00	LT.		ENTRANCE		34	2						
634+78	LT.		217 T.H. - NO CULV. REQ'D						161			
634+78	RT.		ENTRANCE - NO CULV. REQ'D									
641+69	LT.		218 T.H. AVE. N.W.			52	2		220			
646+16	RT.		ENTRANCE - NO CULV. REQ'D									
653+30	LT.		219 T.H. AVE. N.W.			44	2					
653+87	RT.		ENT. - SEE STORM SEWER									
654+95	RT.		ENT. - SEE STORM SEWER									
655+85	LT.		ENTRANCE		42	2						
658+63	RT.		219 T.H. AVE. N.W.						61			
659+20	C/L		C/L PIPE CROSSING				48	2				
660+27	LT.		ENTRANCE		42	2						
665+49	LT.		ENTRANCE		38	2			61			
666+83	RT.		ENTRANCE		40	2						
667+60	LT.		ENTRANCE		28	2			61			
670+90	RT.	15" X 30' CMP	ENTRANCE	30	44	2						
673+56	LT.		ENTRANCE		38	2						
677+06	RT.		ENTRANCE		32	2						
681+43	RT.		ENTRANCE - NO CULV. REQ'D									
681+74	LT.		ENTRANCE		32	2						
682+48	LT.		ENTRANCE - NO CULV. REQ'D									
688+18	LT.		ENTRANCE		38	2						
688+10	RT.		224 T.H. AVE. N.W.			60	2		101			
689+40	LT.		ENTRANCE		40	2						
692+08	LT.		ENTRANCE		26	2						
697+55	LT.		NEW ENTRANCE			56	2		110			
697+55	RT.		225 T.H. AVE. N.W.			56	2		110			
705+23	RT.	18" X 48' CMP	227 T.H. AVE. N.W.	48		66	2		22			
706+52	C/L		C/L PIPE CROSSING				56	2	26			
708+64	LT.		ENTRANCE		36	2						
TOTALS				469	1646	86	592	22	304	12	2008	2.2

RELOCATE HYDRANT ②

STATION	LOCATION	REMARKS	EACH	PROP. STA.	PROP. LOC.
697+77	60.5' RT.	NO WORK REQUIRED	1	702+49	58' LT.
702+49	34' LT.		1		
TOTAL =			1		

ADJUST VALVE BOX-WATER ③

STATION	LOCATION	REMARKS	EACH
697+62	40.7' RT.		1
697+63	32.9' RT.		1
697+66	39.2' RT.		1
709+80.2	39.5' RT.		1
TOTAL =			4

TABULATION CHARTS

CULVERT TABULATION
ADJUST VALVE BOX - WATER
RELOCATE HYDRANT

REVISIONS
DATE BY

FILE NAME: V940307.DWG\07TAB-CH.DWG MK. (02-18-97)

STORM SEWER TABULATION

STRUCT.	STATION	LOC	REMARKS	MH/CB	DESIGN	PAY HT. LIN. FT.	TOP OF CASTING ELEVATION	OUTLET ELEVATION	RE-CONST. LIN. FT.	FURNISH AND INSTALL			APRONS			DRAINS TO	GRADE IN%	PIPE LOWER ELEVATION	RIP-RAP C. Y.
										CASTING ASSEMBLY	18" CMP LIN. FT.	18" RCP LIN. FT.	36" RCP LIN. FT.	18" CMP	18" RCP				
1	507+57	35.0' LT	APRON INLET		APRON			900.65											
2	509+12	35.0' LT		MH	H	3.7	904.14	899.85											
3	510+70	35.0' LT	APRON OUTLET		APRON			898.98			A	155							
4	580+32	35.0' LT	APRON INLET		APRON			894.19											
5	581+28	35.0' LT		MH	H	3.8	898.18	893.80			A	96							
6	583+18	35.0' LT	APRON OUTLET		APRON			893.03											
7	603+82	35.0' LT	APRON INLET		APRON			901.69											
8	605+38	35.0' LT		MH	H	4.2	905.75	900.99			A	156							
9	606+94	35.0' LT	APRON OUTLET		APRON			900.30											
10	652+63	39.0' RT	APRON OUTLET		APRON			893.12											
11	653+12	21.0' RT		CB	SPECIAL-2	3.6	898.67	894.67			SPECIAL-2								3.6
12	655+30	21.0' RT		CB	SPECIAL-1	3.8	907.49	903.32			SPECIAL-1								
13	658+94	39.0' RT	APRON INLET		APRON			912.75											
14	695+14	133.0' ± LT	AACHD SHOP SITE - C/L DIT.		APRON			901.50±											
15	697+10	255.0' ± LT	AACHD SHOP SITE - C/L DIT.	MH	60-4020	9.2	912.00±	902.19±			A								
16	698+97	388.0' ± LT	AACHD SHOP SITE - C/L DIT.		APRON			902.90±											
TOTALS=						28.3					6	902	628	460	6	2	2		3.6

H	11.7
SPECIAL-1	3.8
SPECIAL-2	3.6
54-4020	9.2

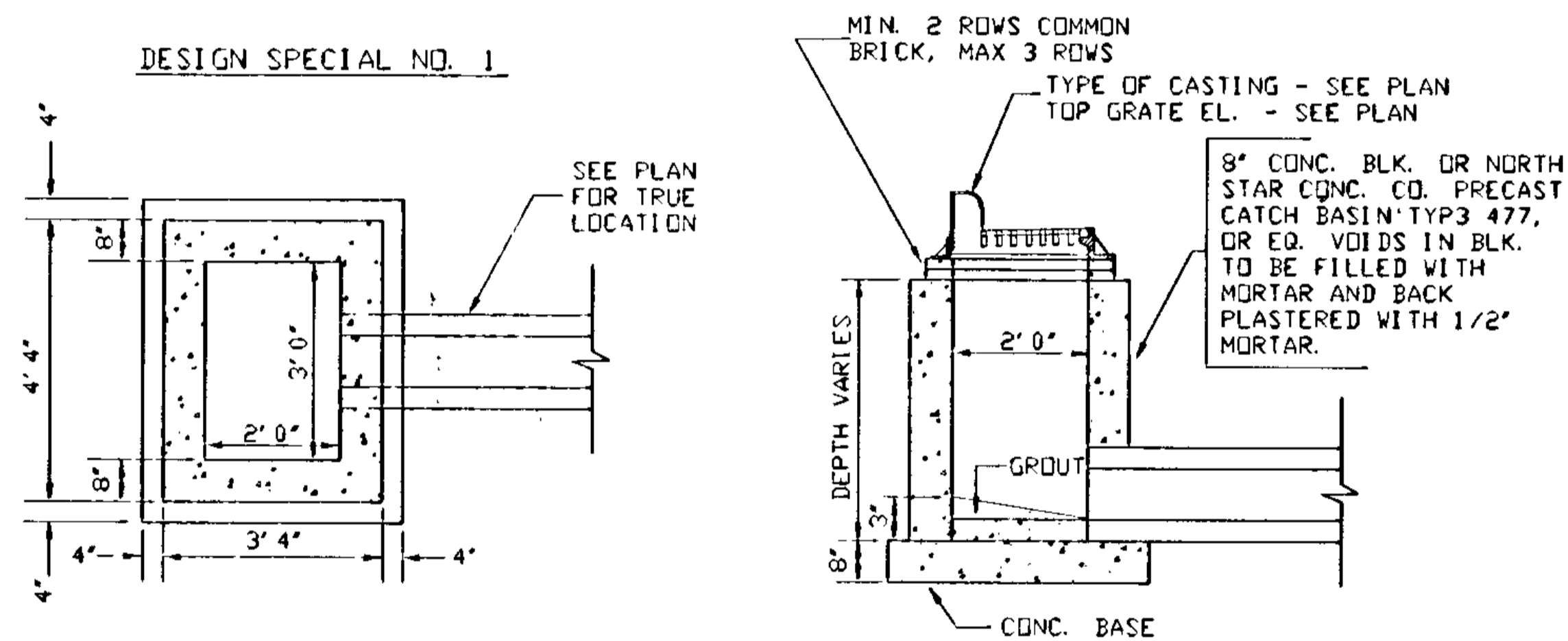
SANITARY MANHOLES TABULATION

STATION	LOC	OWNERSHIP	INPLACE ELEV.	PROPOSED ELEV.	ADJUST FT.	REMARKS
704+99.8	50.8' RT	ST. FRANCIS	910.58	912.40	+1.82	
709+00.4	49.6' RT	ST. FRANCIS	911.96	910.43	-1.53	
709+01.9	16.4' RT	ST. FRANCIS	912.20	912.17	-0.03	
709+03.2	26.1' LT	ST. FRANCIS	912.32	912.32	0.00	NO ADJUSTMENT REQUIRED
709+48.1	49.5' RT	ST. FRANCIS	911.20	910.51	-0.69	

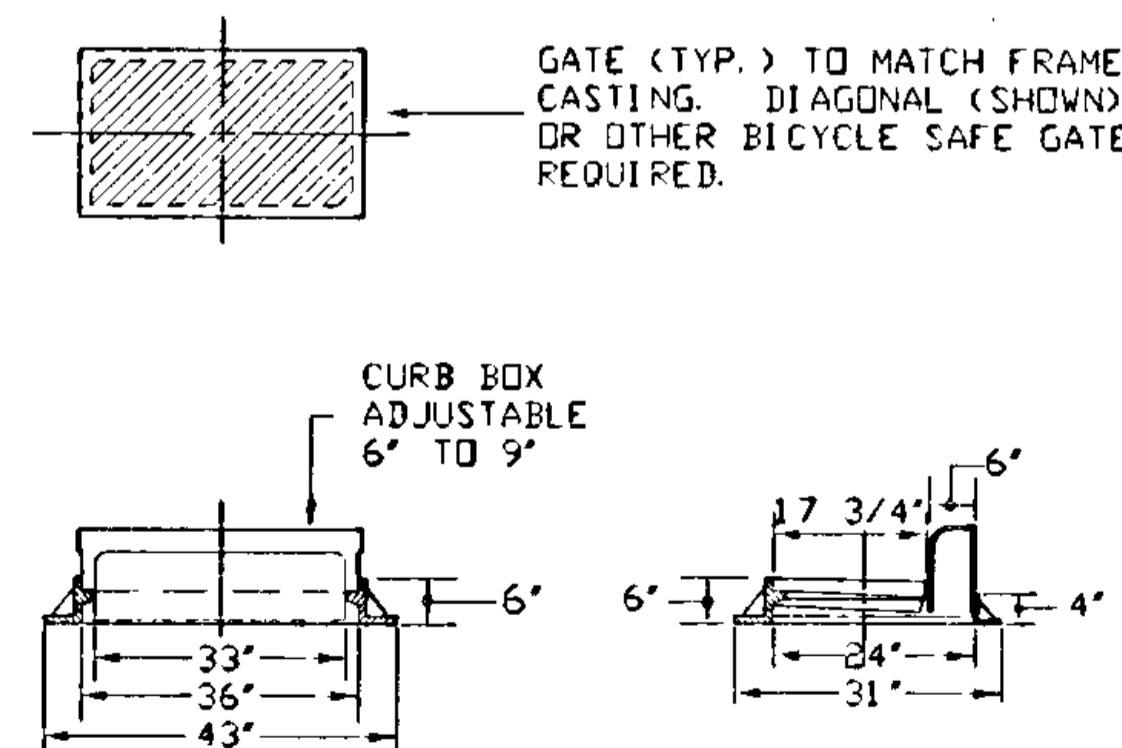
DRAINAGE CASTING SCHEDULE

ASS'Y TYPE	NO REQ'D	FRAME CASTING	GRATE CASTING	CURB BOX CASTING	RING CASTING	COVER CASTING
A	4				700-7	716
SPECIAL-1	1	DESIGN SPECIAL-1				
SPECIAL-2	1	DESIGN SPECIAL-2				
TOTAL	6					

TYPICAL BOX CATCH BASIN

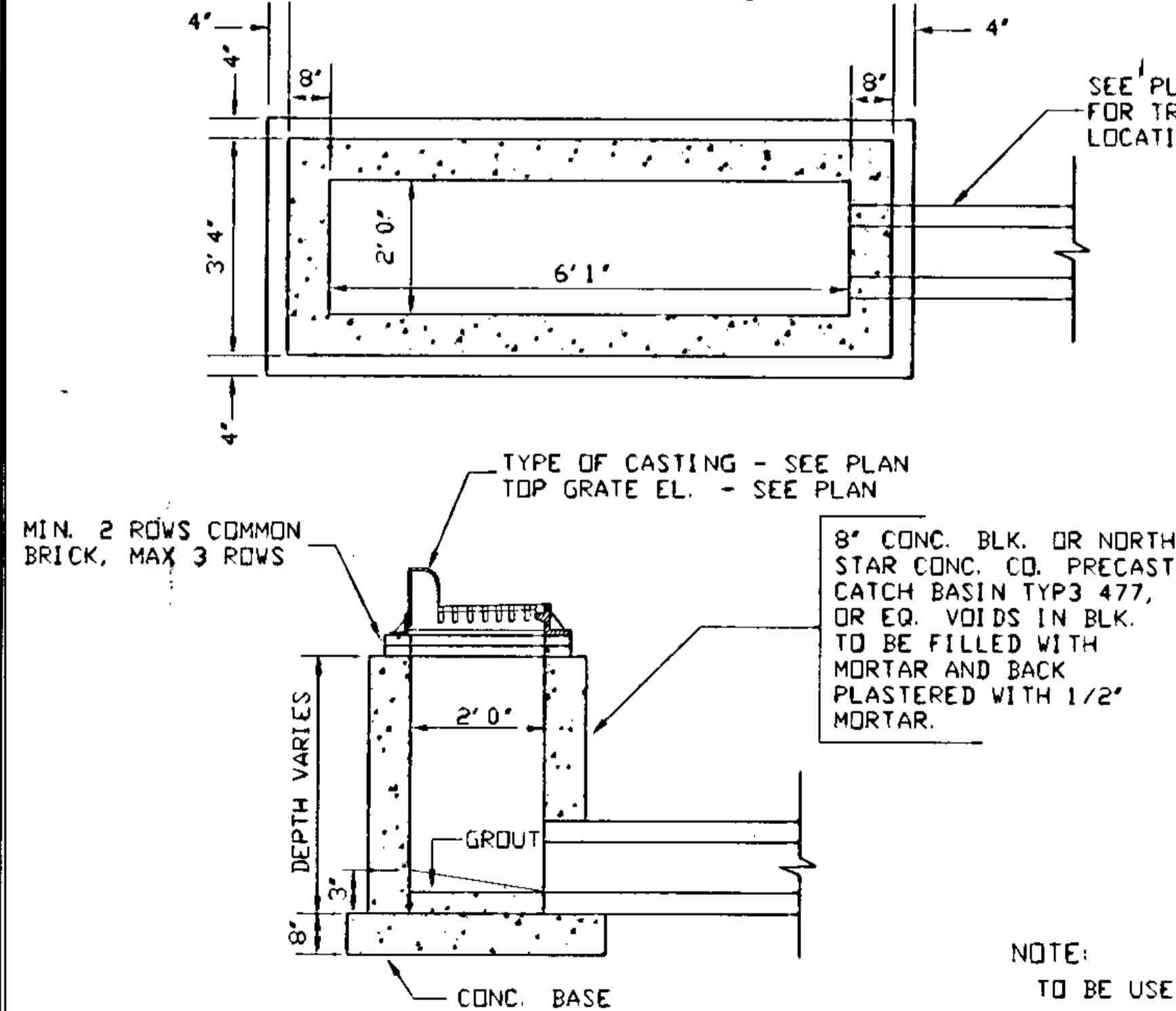


C. B. CASTING DETAIL DESIGN SPECIAL NO. 1

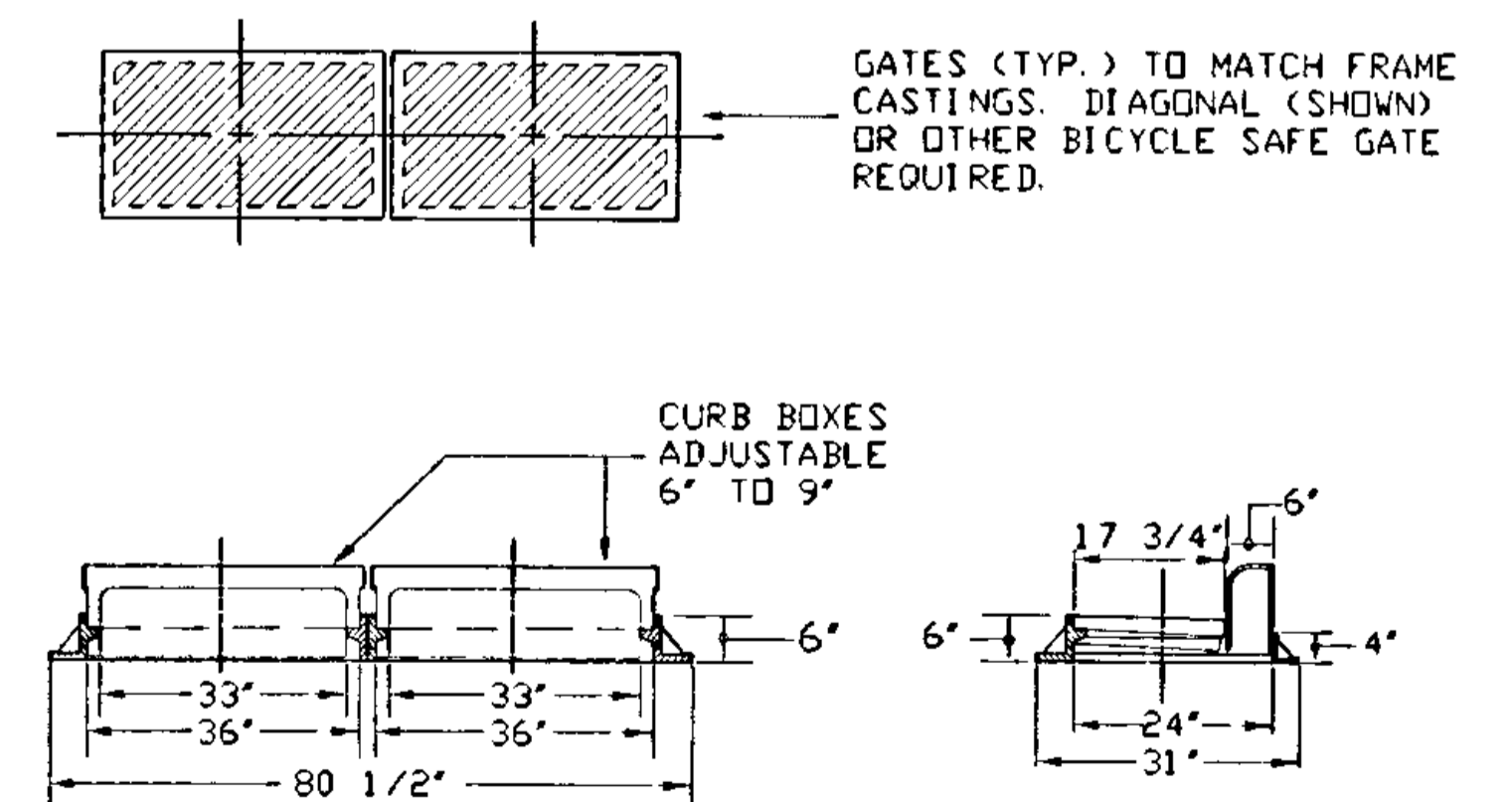


NOTE: TO BE USED WITH C. B. DESIGN SPECIAL NO. 1

DESIGN SPECIAL NO. 2



C. B. CASTING DETAIL DESIGN SPECIAL NO. 2



NOTE: TO BE USED WITH C. B. DESIGN SPECIAL NO. 2

TABULATION CHARTS

- STORM SEWER TABULATION
- DRAINAGE CASTING SCHEDULE
- ADJUST SANITARY MANHOLES
- STORM SEWER STRUCTURES

REVISIONS	BY	DATE

FILE NAME: P:\940307\TAB-CHDVG.MK (02-18-97)

CERTIFIED BY *[Signature]*

P. E. REG NO. 20235

19 97

S. P. S. A. P.

C. P. 94-03-07

Sheet No. 7 of 67 Sheets

EXCAVATION

COMMON EXCAVATION . . . 120,140 CU.YD. { REGULAR . . . 79,132 CU.YD. ①
 SUBCUT . . . 22,672 CU.YD.
 SUBGRADE EXCAVATION . . . 5,979 CU.YD. { TOPSOIL . . . 18,336 CU.YD.

EMBANKMENT (CV)

GRANULAR 35,328
 SUBCUT 22,672 CU.YD.
 SUBGRADE 5,979 CU.YD.
 TOPSOIL 18,903 CU.YD. { IMPORT 3,317 CU.YD. ②
 ONSITE 15,586 CU.YD.

- ① INCLUDES 4,996 CU.YD. CONCRETE AND BITUMINOUS REMOVAL. CONCRETE AND BITUMINOUS PAVEMENT REMOVALS WILL BE PAID UNDER ITEM 2104.
- ② TOPSOIL BORROW TO BE UTILIZED IN AREAS TO BE SODDED.

EARTHWORK SUMMARY (U)

BALANCE

TOPSOIL
 TOPSOIL DRESSING (CV) - [TOPSOIL STRIPPING (EV) x SHRINKAGE FACTOR] = EXCESS(-) OR SHORTAGE(+)
 18,903 - (18,336 x 0.85) = -3,317 CU.YD. SHORTAGE (SEE NOTE 22.)

TOPSOIL BORROW
 SHORTAGE x SWELL FACTOR = BORROW (LV)
 3,317 x 1.3 = 4,312 CU.YD. (LV)

GRANULAR MATERIAL
 GRANULAR (CV)+SUBCUT+SUBGRADE - [REGULAR EXCAVATION (EV) x SHRINKAGE FACTOR] - [SUBCUT+SUBGRADE EXCAVATION x SHRINKAGE FACTOR] = EXCESS(-) OR SHORTAGE(+)
 35,328+22,672+5,979 - [(79,132+4,996) x 0.80] - [(22,672+5,979) x 0.90] = -21,116 CU.YD. EXCESS
 EXCESS (LV) = EXCESS (CV) x SWELL FACTOR
 21,116 x 1.20 = 25,339 CU.YD. (LV) EXCESS (SEE NOTE 23.)

- SOIL FACTORS: (1) REGULAR GRADING AND TOPSOIL DRESSING (EV TO CV): 80% SHRINKAGE
 (2) SUBCUT COMPACTION AND SUBGRADE EXCAVATION (EV TO CV): 90% SHRINKAGE
 (3) SELECT GRANULAR BORROW (CV TO LV): 120% SWELL
 (4) TOPSOIL BORROW (CV TO LV): 130% SWELL

Fed. Project No. _____

SOILS AND CONSTRUCTION NOTES:

1. TOP OF GRADING GRADE IS DEFINED AS THE BOTTOM OF THE AGGREGATE BASE.
2. IN FILL AREAS, THE SUBGRADE SHALL BE CONSTRUCTED WITH SELECTED GRADING MATERIAL.
3. SELECTED GRADING MATERIALS SHALL CONSIST OF SELECT GRANULAR MATERIALS.
4. GRANULAR MATERIAL, REGARDLESS OF SOURCE, SHALL MEET THE REQUIREMENTS OF SPEC. 3149.2B.
5. COMPACTION OF THE GRADING PORTION OF THIS PROJECT SHALL BE BY THE "SPECIFIED DENSITY METHOD".
6. TEST ROLLING WILL NOT BE REQUIRED.
7. BITUMINOUS OR CONCRETE ITEMS REMOVED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE EITHER RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF 2104.3C3 WITH NO DIRECT COMPENSATION MADE THEREFORE.
8. DISPOSITION OF EXCESS EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 2105.3D WITH NO DIRECT COMPENSATION THEREFORE.
9. WHERE MATCHING INTO THE INPLACE ROADWAY AT THE ENDS OF CONSTRUCTION, CUT VERTICALLY TO THE TOP OF THE GRADING GRADE, AND THEN AT A 20:1 TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
10. WHERE CONNECTING NEW SURFACING TO AN INPLACE PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING THE INPLACE PAVEMENT.
11. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES PRIOR TO PLACING BITUMINOUS MIXTURES AND PRIOR TO PLACING ANY BITUMINOUS MIXTURES ON EXISTING CONCRETE OR BITUMINOUS SURFACES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT UNIFORM RATE OF 0.03 TO 0.05 GALLONS PER SQUARE YARD BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE FOR UNDILUTED EMULSION (AS SUPPLIED FROM THE REFINERY); ASPHALT EMULSION MAY BE FURTHER DILUTED IN THE FIELD IN ACCORDANCE WITH SPEC. 2357.
12. COMPACTION OF ALL OF THE BITUMINOUS COURSES SHALL BE BY THE "MODIFIED SPECIFIED DENSITY METHOD".
13. COMPACTION OF THE AGGREGATE BASE LAYERS SHALL BE BY THE "SPECIFIED DENSITY METHOD", UNLESS RECYCLED MATERIAL'S.
14. PLACE MINIMUM 4 INCHES TOPSOIL OR SLOPE DRESSING ON ALL AREAS DISTURBED BY CONSTRUCTION AND SCHEDULED FOR PERMANENT TURF ESTABLISHMENT. TOPSOIL BORROW TO BE UTILIZED IN AREAS TO BE SODDED. FERTILIZE WITH COMMERCIAL FERTILIZER, ANALYSIS 10-10-10 (OR EQUIVALENT), AT A RATE OF 500 POUND PER ACRE.
15. USE MIXTURE 900 SEED AND TYPE 1 MULCH IN AREAS TO BE SEEDED.
16. SOD ALL MAINTAINED LAWNS DISTURBED BY CONSTRUCTION.
17. ALL SOD UTILIZED WITHIN THE PROJECT LIMITS SHALL MEET THE REQUIREMENTS OF SPEC. 3878.2A (LAWN AND BOULEVARD SOD).
18. ORGANIC AND NONGRANULAR EXCAVATED MATERIAL MAY BE USED IN EMBANKMENT CONSTRUCTION IN AREAS OUTSIDE OF A 1 1/2:1 SLOPE FROM THE BACK OF CURB, OR GRADING P.I.
19. BITUMINOUS REMOVAL QUANTITY BASED ON SQUARE YARDS REMOVED. IN PLACE SURFACE ASSUMED TO BE 3-1/2 INCH IN DEPTH. CONTRACTOR SHALL INVESTIGATE AND MAKE OWN DETERMINATION OF ACTUAL PAVEMENT DEPTH.
20. ALL SILT FENCING AS SHOWN IN THE PLANS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS.
21. A DOUBLE ROW OF BALE CHECKS SHALL BE INSTALLED ALONG DITCH RUNS FOR EROSION CONTROL AS DIRECTED BY THE ENGINEER.
22. TOPSOIL STRIPPINGS TO BE SALVAGED AND UTILIZED TO ITS FULLEST EXTENT WITHIN THE PROJECT LIMITS.
23. ALL EXCESS MATERIAL TO BE USED FOR BACKFILL 0" DITCH TO COVER NEW CULVERT AND FOR GRADE FILL FOR NEW ANOKA COUNTY SHOP FACILITY (CATED WEST OF STA. 694+37 TO 701+52).

BASE AND BITUMINOUS QUANTITIES CHART (V)

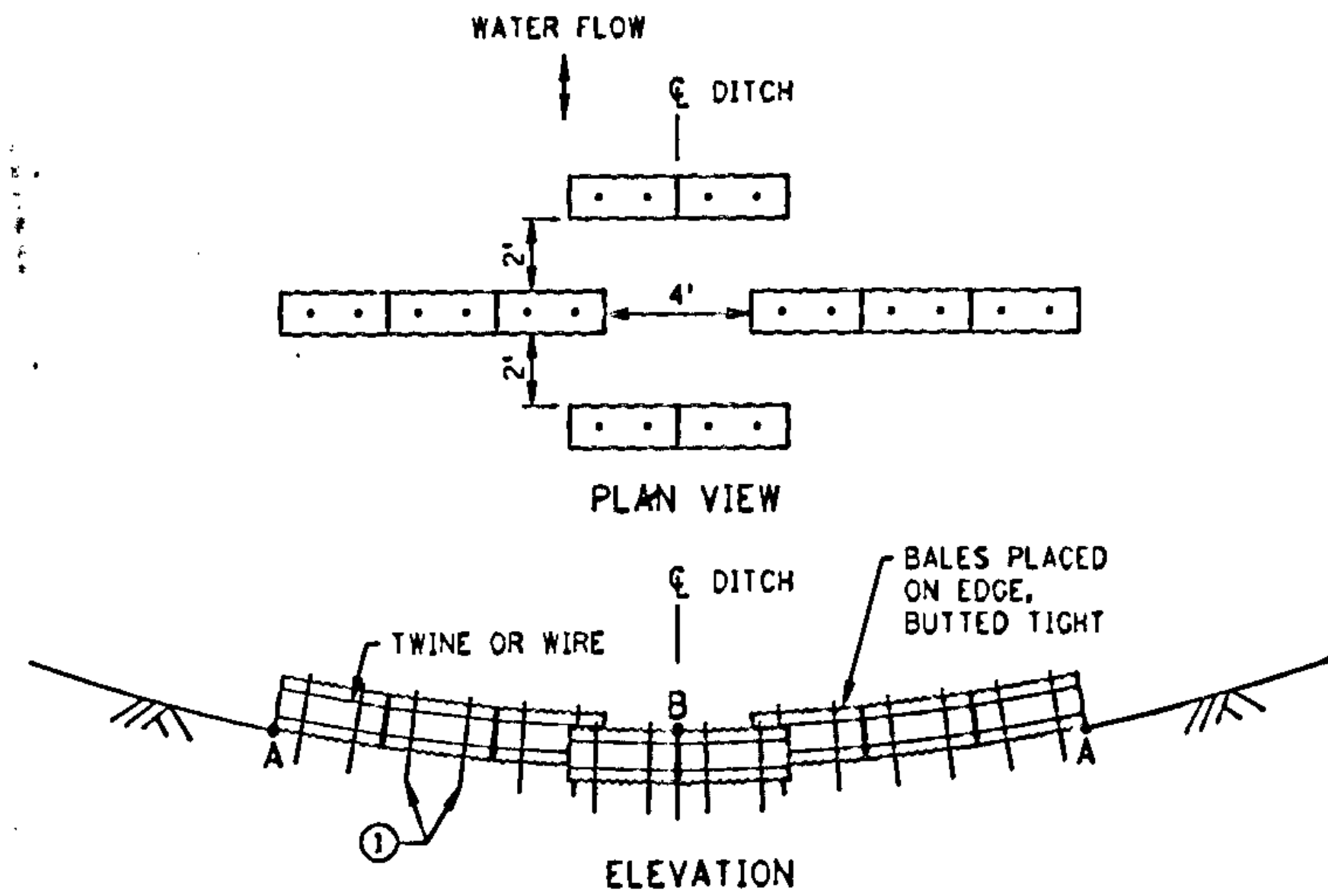
STATION - STATION	LOCATION	DESCRIPTION	BIT. SURFACE CONSTRUCTION		BITUMINOUS				AGGREGATE			
			SO. YD.	DEPTH	WEAR TON	BINDER (1) TON	BASE (1) TON	TACK COAT GALLON	BASE CL-5A AREA SQ. YD.	CU. YD.		
499+50 - 511+00	12' LT & RT	MAINLINE	6067	1.5"	253	1.5"	307	2"	411	313	3067	383
499+50 - 504+39	24' LT	RIGHT TURN LANE	746	1.5"	62	1.5"	69	2"	85	68	867	105
499+50 - 511+00	20' RT	SHOULDER	1220	1.5"	101						1409	225
504+39 - 511+00	20' LT	SHOULDER	588	1.5"	48						810	129
511+00 - 516+70	12' LT & RT	MAINLINE	1520	1.5"	125	1.5"	152	2"	204	155	1520	190
511+00 - 516+70	20' LT	SHOULDER	507	1.5"	42						699	112
511+00 - 516+70	20' RT	SHOULDER	507	1.5"	42						699	112
516+70 - 522+52	12' LT & RT	MAINLINE	1552	1.5"	128	1.5"	156	2"	208	158	1552	194
516+70 - 522+52	20' LT	SHOULDER	517	1.5"	43						713	114
516+70 - 522+52	20' RT	SHOULDER	517	1.5"	43						780	142
522+52 - 537+27	12' LT & RT	MAINLINE	3933	1.5"	325	1.5"	394	2"	527	402	3933	492
522+52 - 537+27	20' LT	SHOULDER	1311	1.5"	108						1808	289
522+52 - 537+27	20' RT	SHOULDER	1311	1.5"	108						1808	289
537+27 - 543+97	12' LT & RT	MAINLINE	1787	1.5"	147	1.5"	179	2"	240	182	1787	223
537+27 - 543+97	20' LT	SHOULDER	596	1.5"	49						821	131
537+27 - 543+97	20' RT	SHOULDER	596	1.5"	49						890	163
543+97 - 590+48	12' LT & RT	MAINLINE	12403	1.5"	1023	1.5"	1243	2"	1663	1266	12403	1550
543+97 - 590+48	20' LT	SHOULDER	4134	1.5"	341						5700	911
543+97 - 590+48	20' RT	SHOULDER	4134	1.5"	341						5700	911
590+48 - 596+38	12' LT & RT	MAINLINE	1573	1.5"	130	1.5"	158	2"	211	161	1573	197
590+48 - 596+38	20' LT	SHOULDER	524	1.5"	43						807	146
590+48 - 596+38	20' RT	SHOULDER	524	1.5"	43						773	143
596+38 - 648+41	12' LT & RT	MAINLINE	13875	1.5"	1145	1.5"	1391	2"	1860	1416	13875	1734
596+38 - 648+41	20' LT	SHOULDER	4625	1.5"	382						6377	1017
596+38 - 648+41	20' RT	SHOULDER	4625	1.5"	382						6377	1017
648+41 - 649+01	22' LT & RT	OVERLAY (BRIDGE)	293	1.5"	24					8		
649+01 - 661+51	12' LT & RT	MAINLINE	3333	1.5"	275	1.5"	334	2"	447	340	3333	417
649+01 - 661+51	20' LT	SHOULDER	1111	1.5"	92						1532	244
649+01 - 661+51	20' RT	SHOULDER	1111	1.5"	92						1532	244
661+51 - 671+80	12' LT & RT	MAINLINE	2744	1.5"	226	1.5"	275	2"	368	280	2744	343
661+51 - 671+80	20' LT	SHOULDER	915	1.5"	75						1391	253
661+51 - 671+80	20' RT	SHOULDER	915	1.5"	75						1357	250
671+80 - 688+17	12' LT & RT	MAINLINE	4365	1.5"	360	1.5"	438	2"	585	446	4365	246
671+80 - 688+17	20' LT	SHOULDER	1455	1.5"	120						2006	320
671+80 - 688+17	20' RT	SHOULDER	1455	1.5"	120						2006	320
688+17 - 693+55	12' LT & RT	MAINLINE	1435	1.5"	118	1.5"	144	2"	192	146	1435	179
688+17 - 693+55	20' LT	SHOULDER	779	1.5"	64						1144	217
688+17 - 693+55	20' RT	SHOULDER	390	1.5"	32						602	106
693+55 - 702+01	12' LT & RT	MAINLINE	1723	1.5"	142	1.5"	173	2"	231	176	1723	215
693+55 - 702+01	24' LT	RIGHT TURN LINE	744	1.5"	61	1.5"	75	2"	92	78	986	120
693+55 - 702+01	24' RT	RIGHT TURN LINE	743	1.5"	61	1.5"	74	2"	92	77	984	120
700+01 - 708+20	12' LT & RT	MAINLINE	2184	1.5"	180	1.5"	219	2"	293	223	2184	273
698+13 - 705+00	20' RT	SHOULDER	611	1.5"	50						842	134
702+51 - 708+20	20' LT	SHOULDER	506	1.5"	42						697	111
705+00 - 711+33	24' RT	BYPASS LANE	844	1.5"	70	1.5"	85	2"	104	88	1118	136
521+84	80' LT	200 TH LANE	237	1.5"	20	1.5"	23	2"	27	12	385	48
550+95	77' RT	204 TH LANE	199	1.5"	16	1.5"	20	2"	23	10	338	42
574+38	60' RT	208 TH AVE NW	153	1.5"	13	1.5"	15	2"	18	8	277	35
597+79	80' RT	211 TH LANE	207	1.5"	17	1.5"	20	2"	24	11	349	44
609+66	90' RT	SUNSHINE DR NW	229	1.5"	19	1.5"	23	2"	26	12	349	47
615+16	112' LT	214 TH AVE NW	254	1.5"	21	1.5"	25	2"	29	13	423	53
634+73	95' LT	217 TH AVE NW	241	1.5"	20	1.5"	24	2"	28	13	387	48
641+70	118' LT	218 TH AVE NW	243	1.5"	28	1.5"	34	2"	39	18	523	65
653+31	75' LT	219 TH AVE NW	185	1.5"	12	1.5"	18	2"	22	10	324	41
658+67	30' RT	219 TH AVE NW	121	1.5"	10	1.5"	12	2"	14	7	217	27
688+05	66' RT	224 TH AVE NW	163	1.5"	13	1.5"	16	2"	19	9	288	36
697+55	60' RT	225 TH LANE	195	1.5"	16	1.5"	19	2"	23	10	245	31
697+55	60' LT	NEW ENTRANCE	171	1.5"	14	1.5"	17	2"	20	9	221	28
705+23	60' RT	227 TH AVE NW	177	1.5"	15	1.5"	18	2"	21	9	227	28
			97220		8017		6150		8145	6134	113308	16044

① INCLUDES AN ADDITIONAL 1/4" THICKNESS TO THE PLANNED QUANTITY.

TABULATION CHARTS, EARTHWORK SUMMARY, CONSTRUCTION NOTES

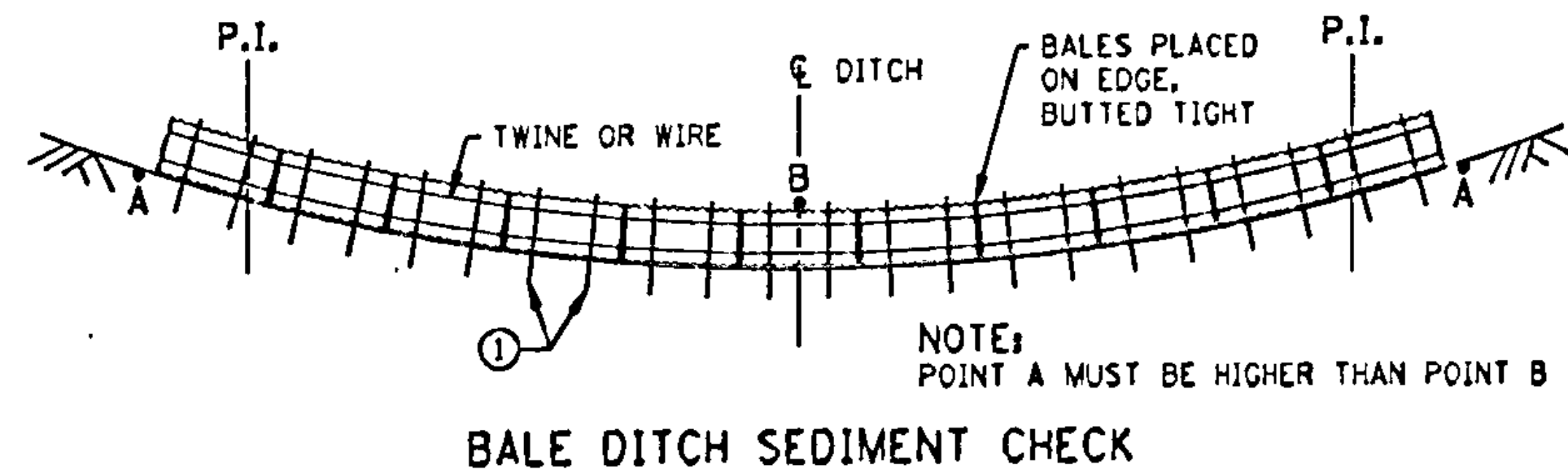
REVISIONS	BY	DATE

FILE NAME: \940307\JWG\07TAB-CH.DWG R.N. 02-18-97



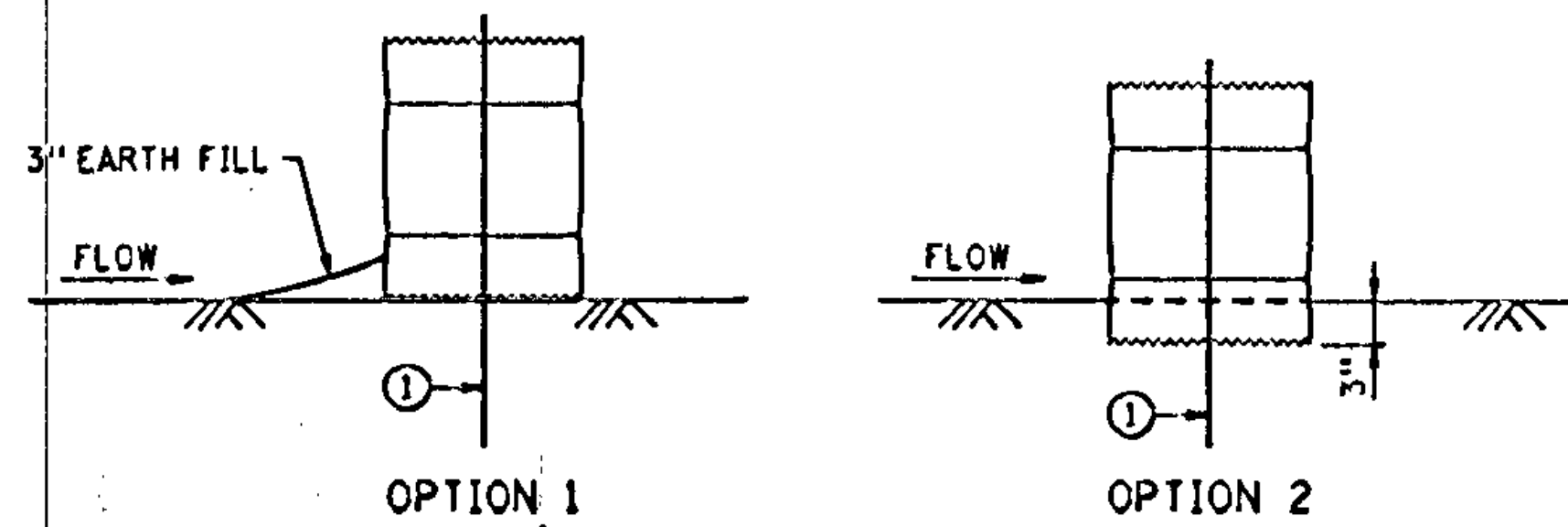
NOTE:
POINT A MUST BE HIGHER THAN POINT B

BALE DITCH VELOCITY CHECKS
(WILL REQUIRE A MINIMUM OF 10 BALES PER SITE)

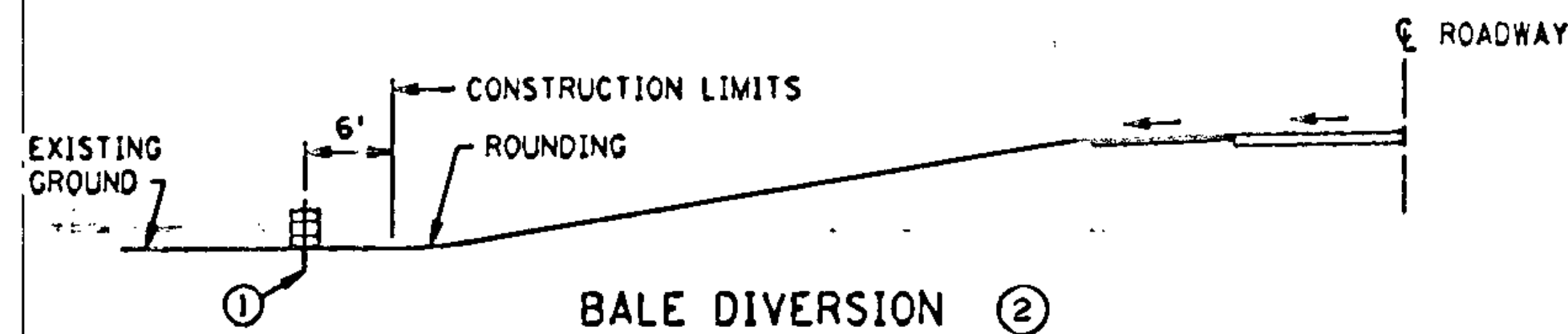


NOTE:
POINT A MUST BE HIGHER THAN POINT B

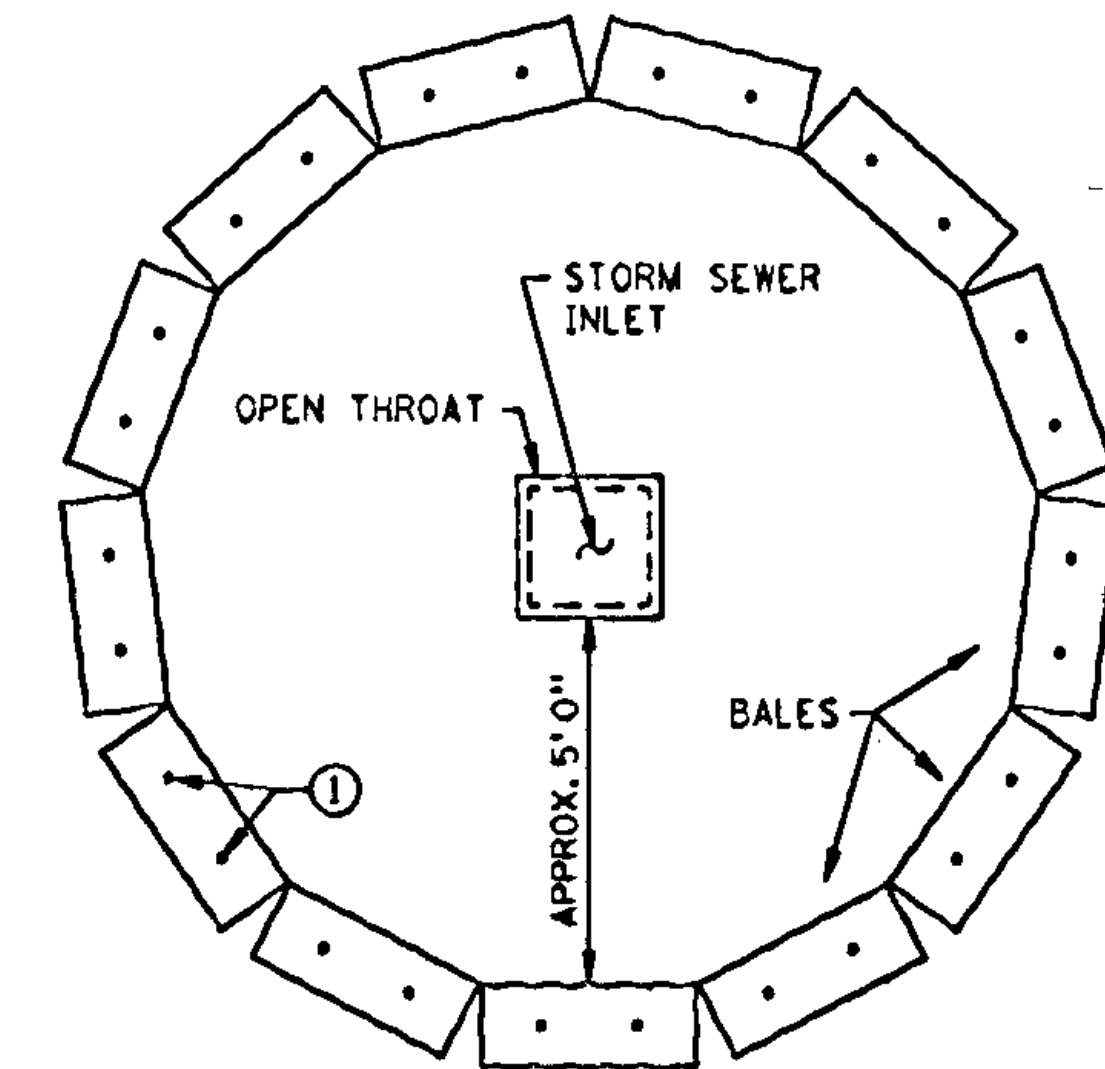
BALE DITCH SEDIMENT CHECK



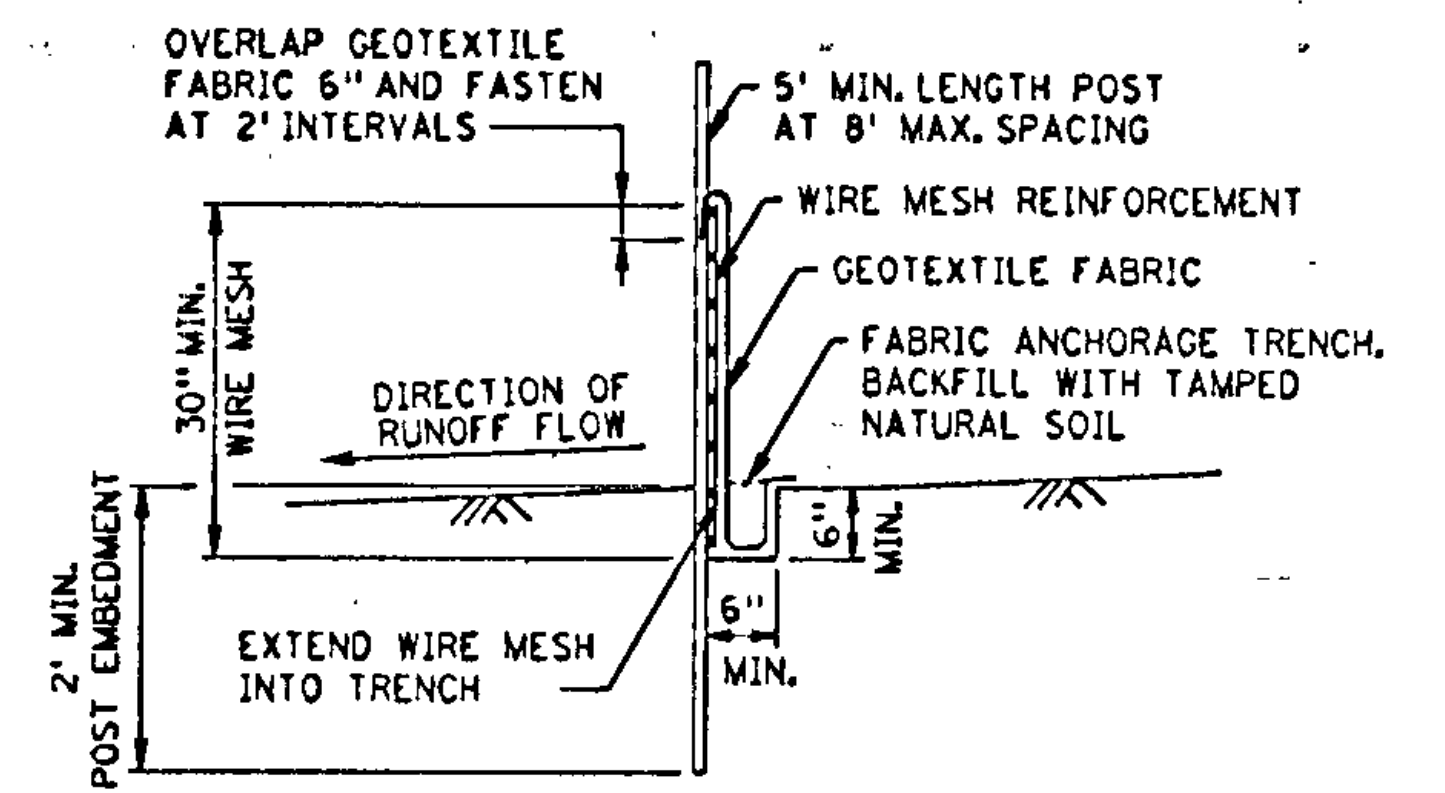
BALE CHECK DETAILS



RECOMMENDED SPACING BETWEEN BALE DITCH CHECKS	
DITCH GRADE (%)	SPACING (FT.)
2	100
4	75
6	50
8	40
10	25



BALE CHECK TO PROTECT STORM SEWER INLETS



SILT FENCE DETAIL

NOTE:
① TWO 2" X 2" WOOD STAKES OR REINFORCING BARS IN EACH BALE AND EMBEDDED IN THE GROUND 10" MINIMUM.
② SILT FENCE MAY ALSO BE USED AS A DIVERSION DEVICE.

SERVER CAG451:JUSR/STANDARDS FILE NAME S4052H93.SPN

CERTIFIED BY *Douglas M. Finch* P.E. REG NO. 20235 2/21 19 97

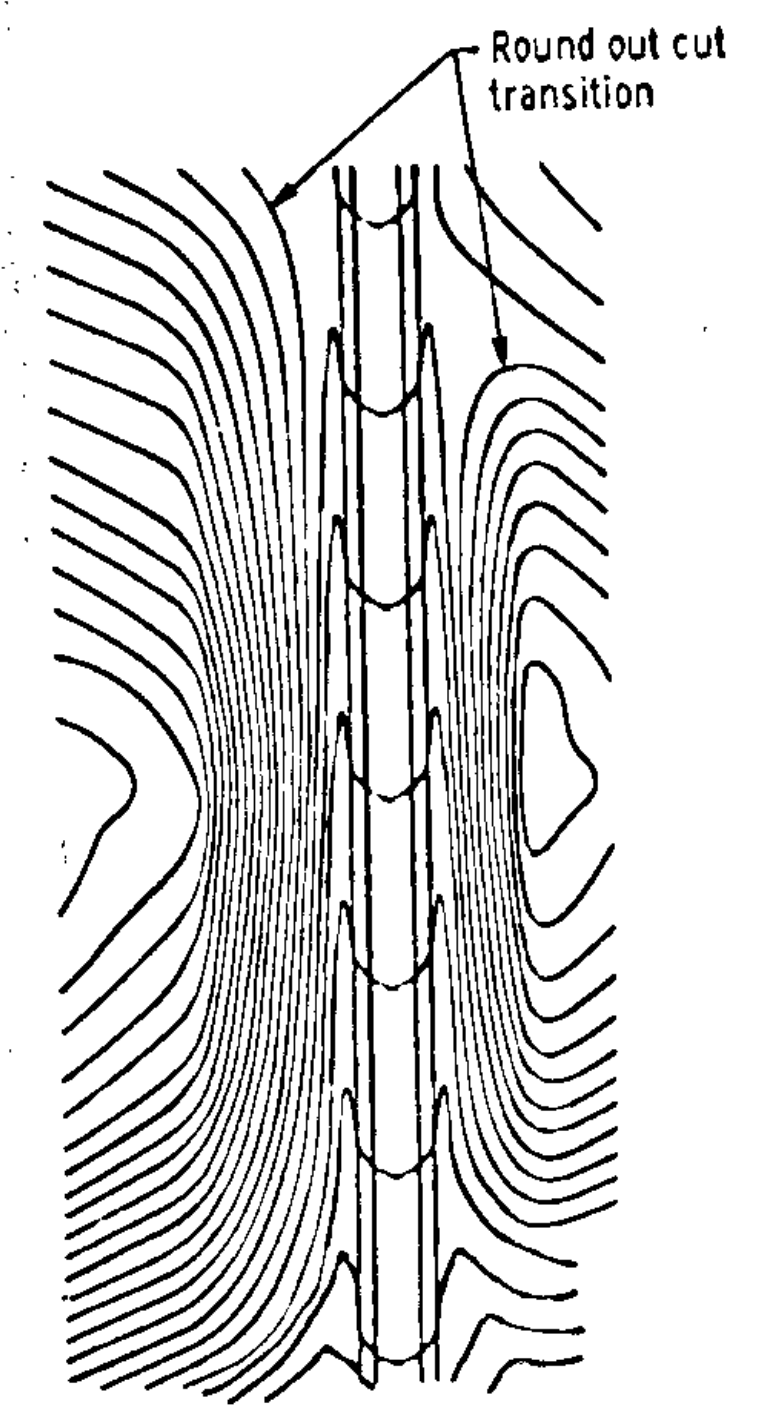
STANDARD SHEET NO.
5-297.405 (MODIFIED)
STANDARD APPROVED:
AUGUST 2, 1993

TITLE:

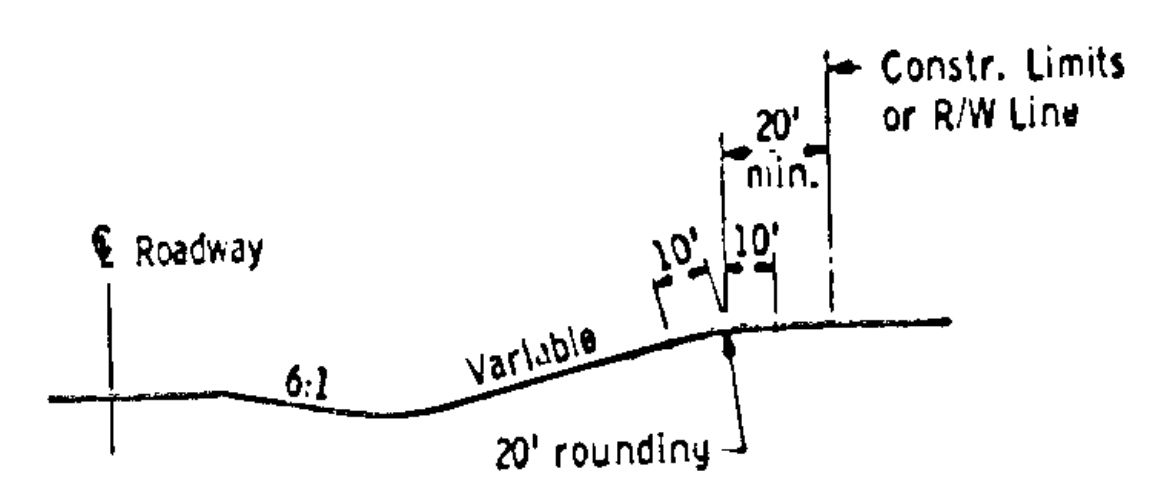
TEMPORARY EROSION CONTROL

CO. PROJ. NO. 94-03-07

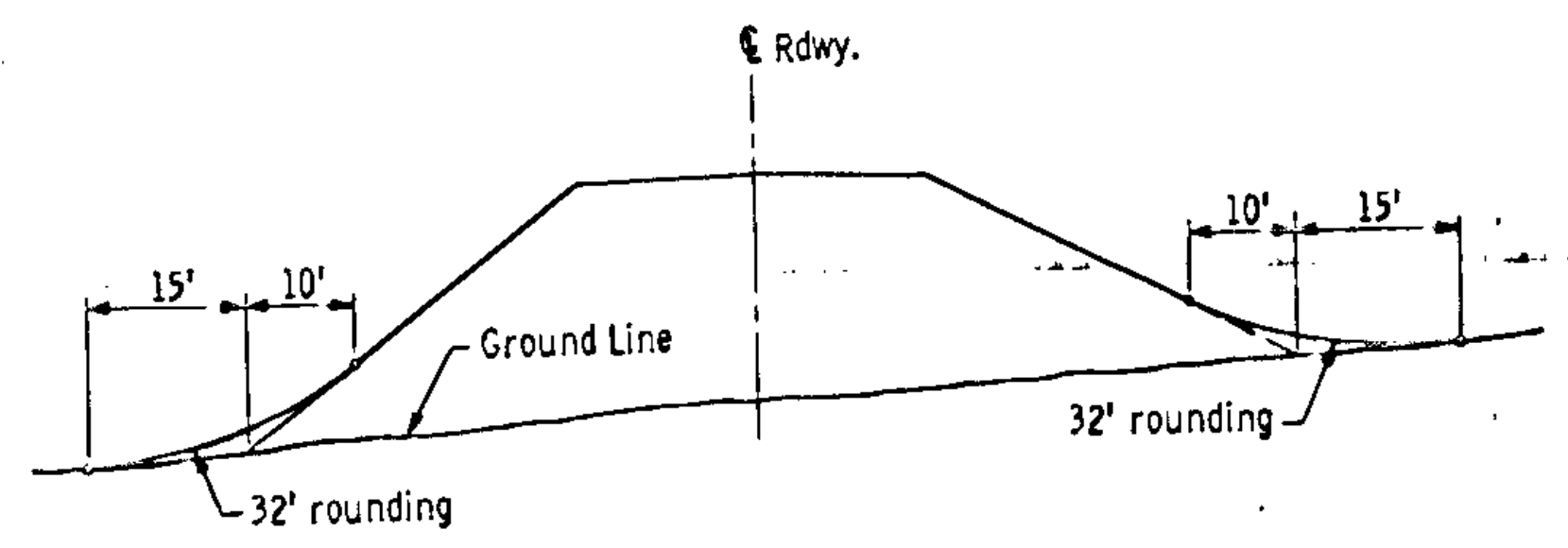
SHEET NO. 39 OF 62 SHEETS



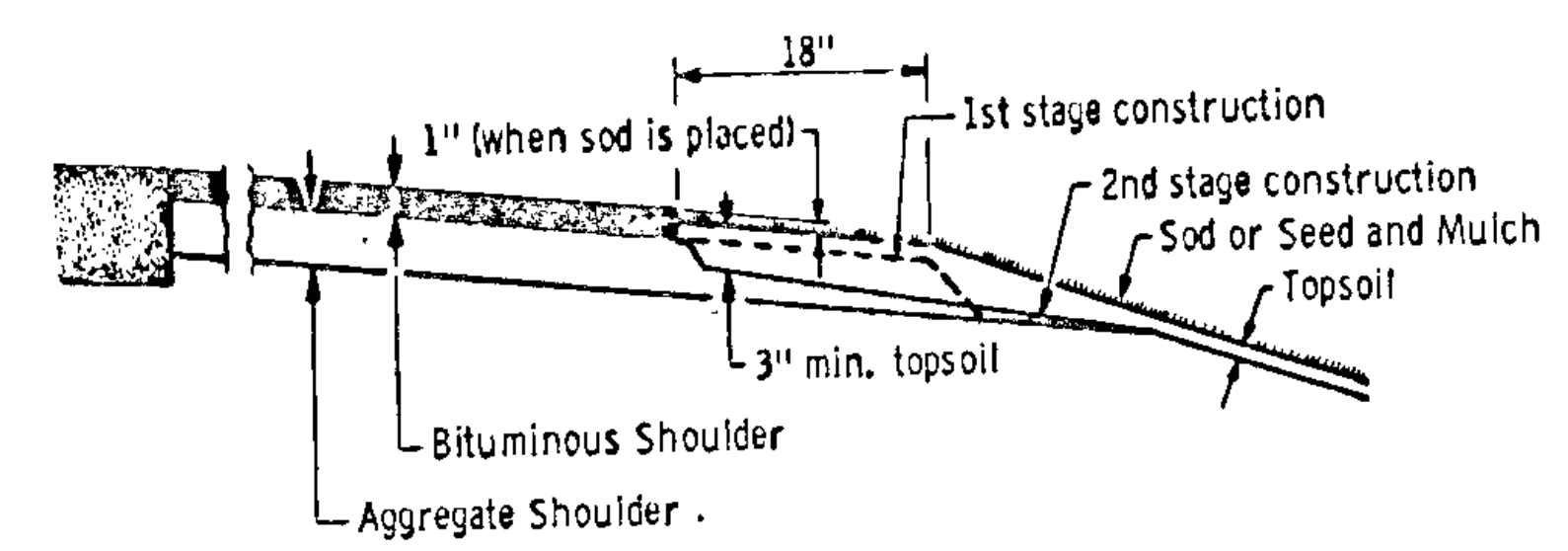
CONTOURING ROAD CUTS



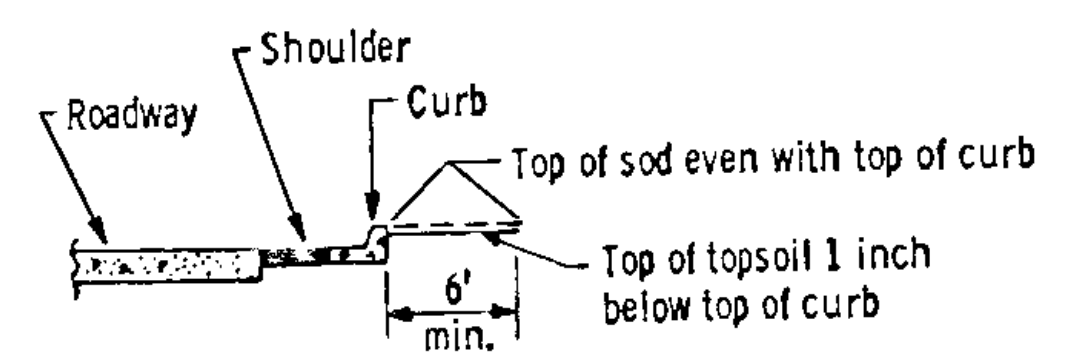
ROUNDING BACK SLOPES



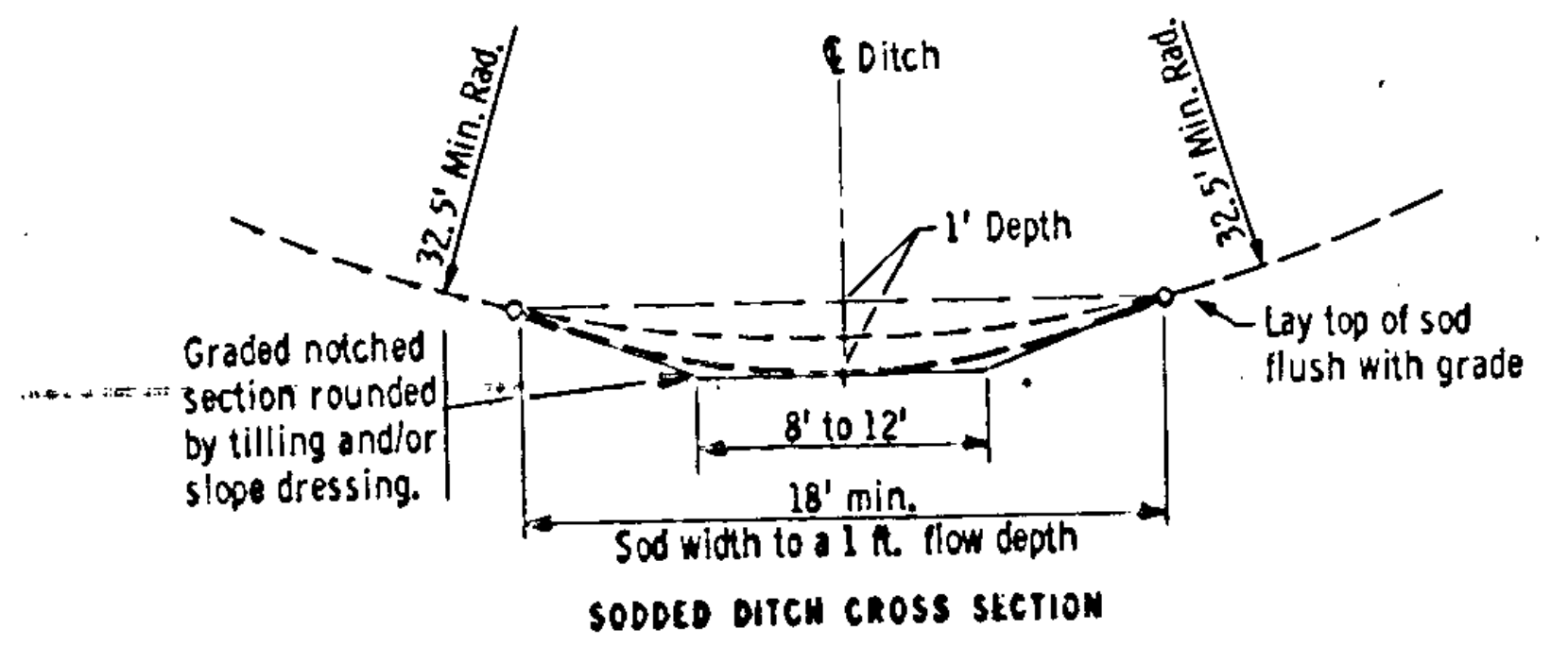
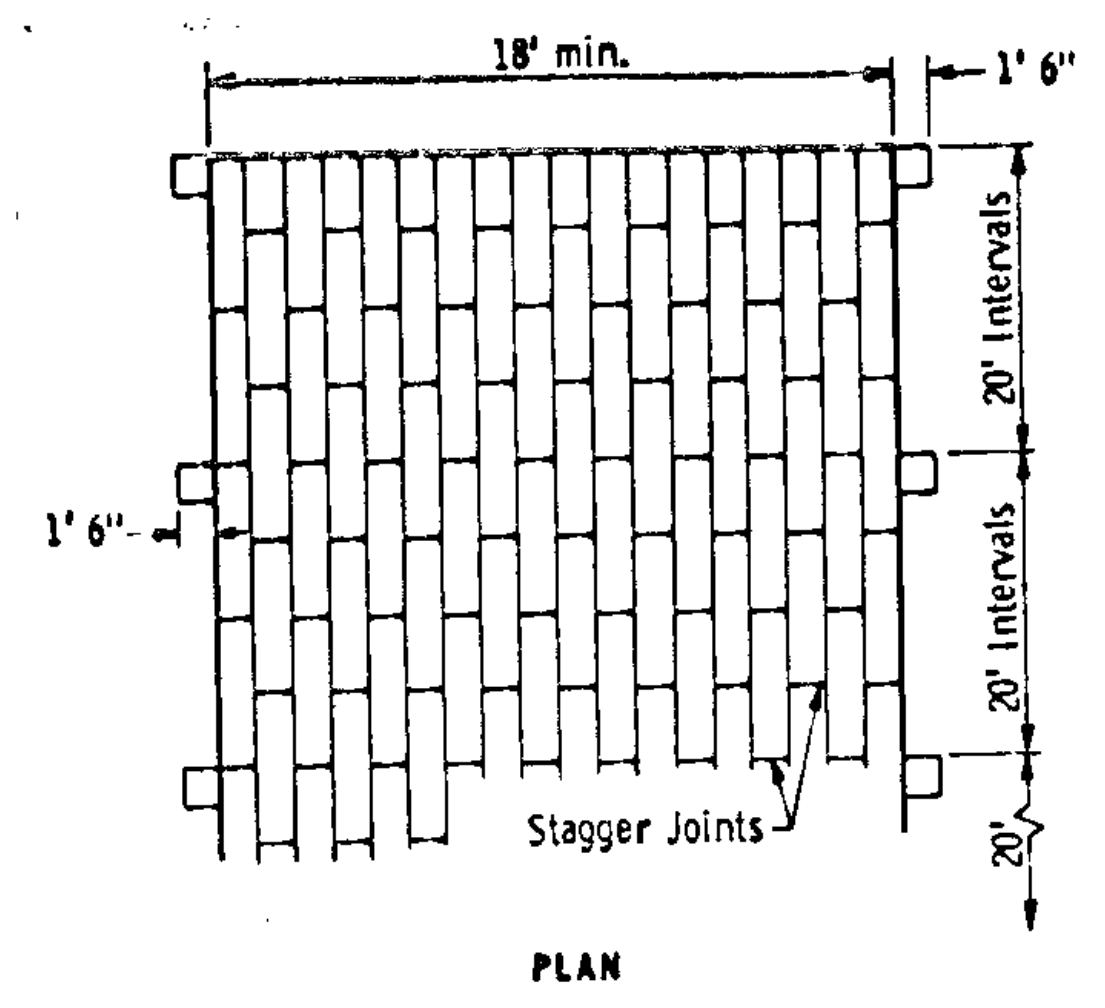
SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



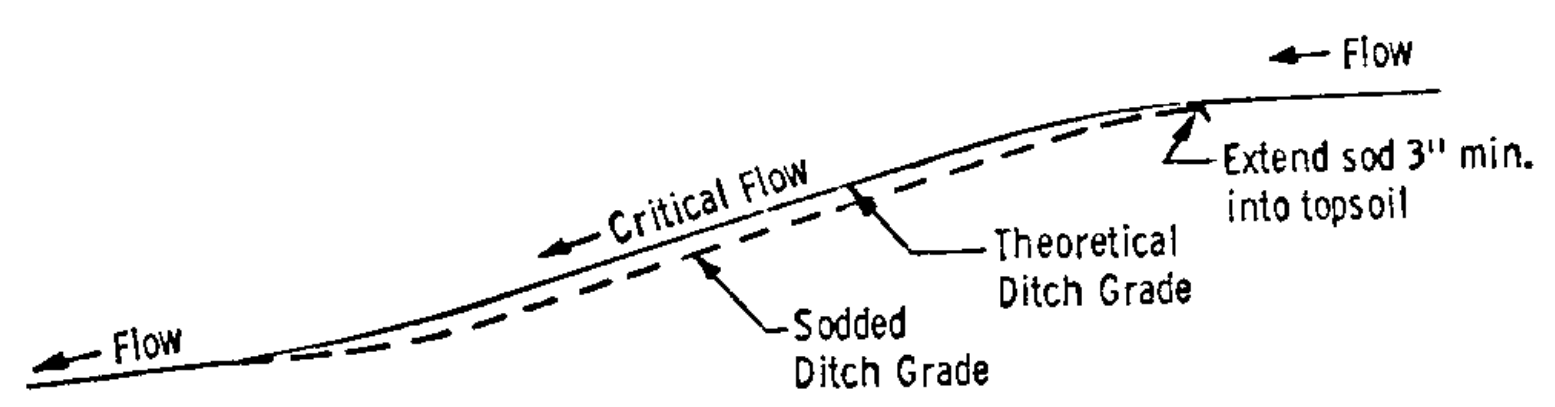
SHAPING AND TOPSOILING INSLOPES



SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED

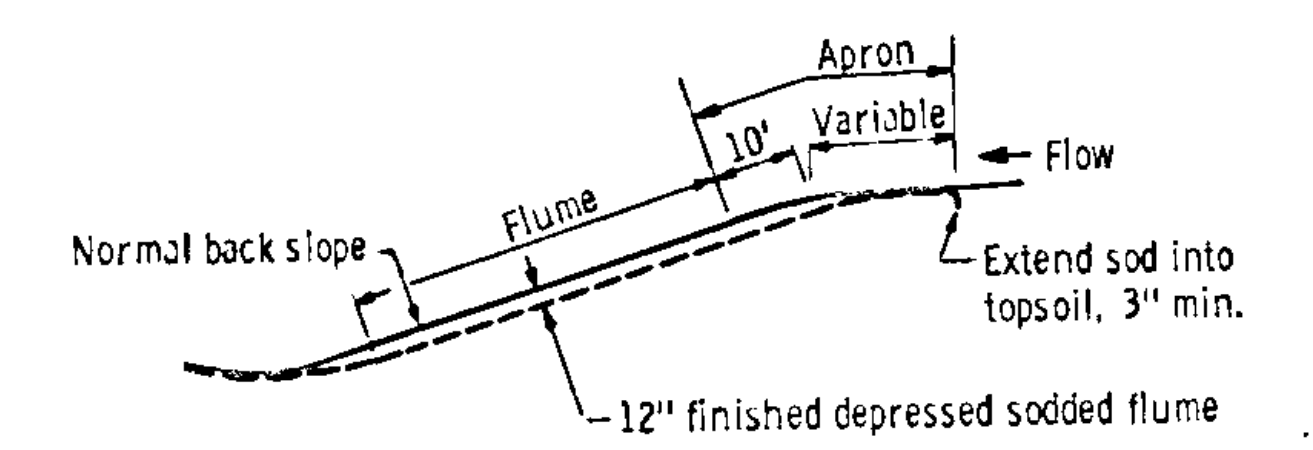
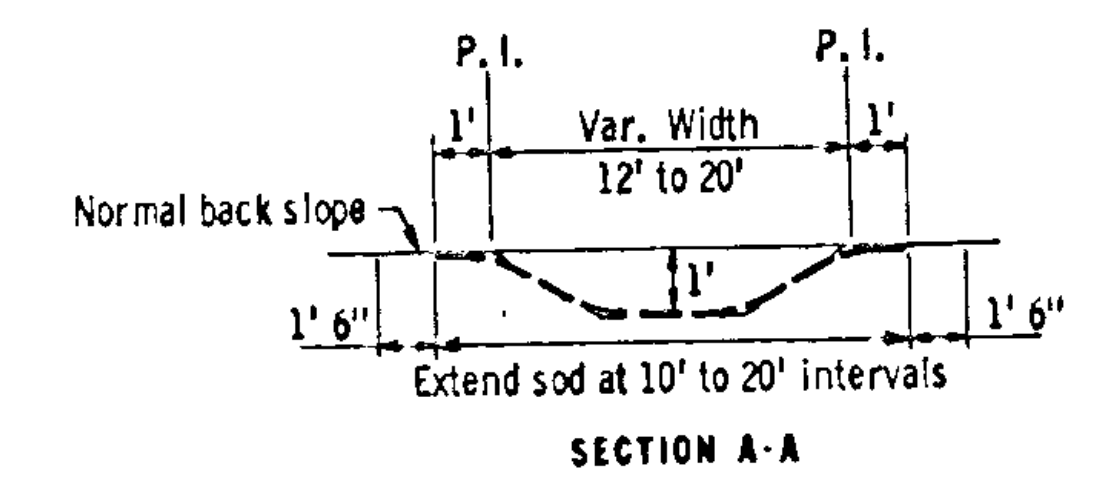
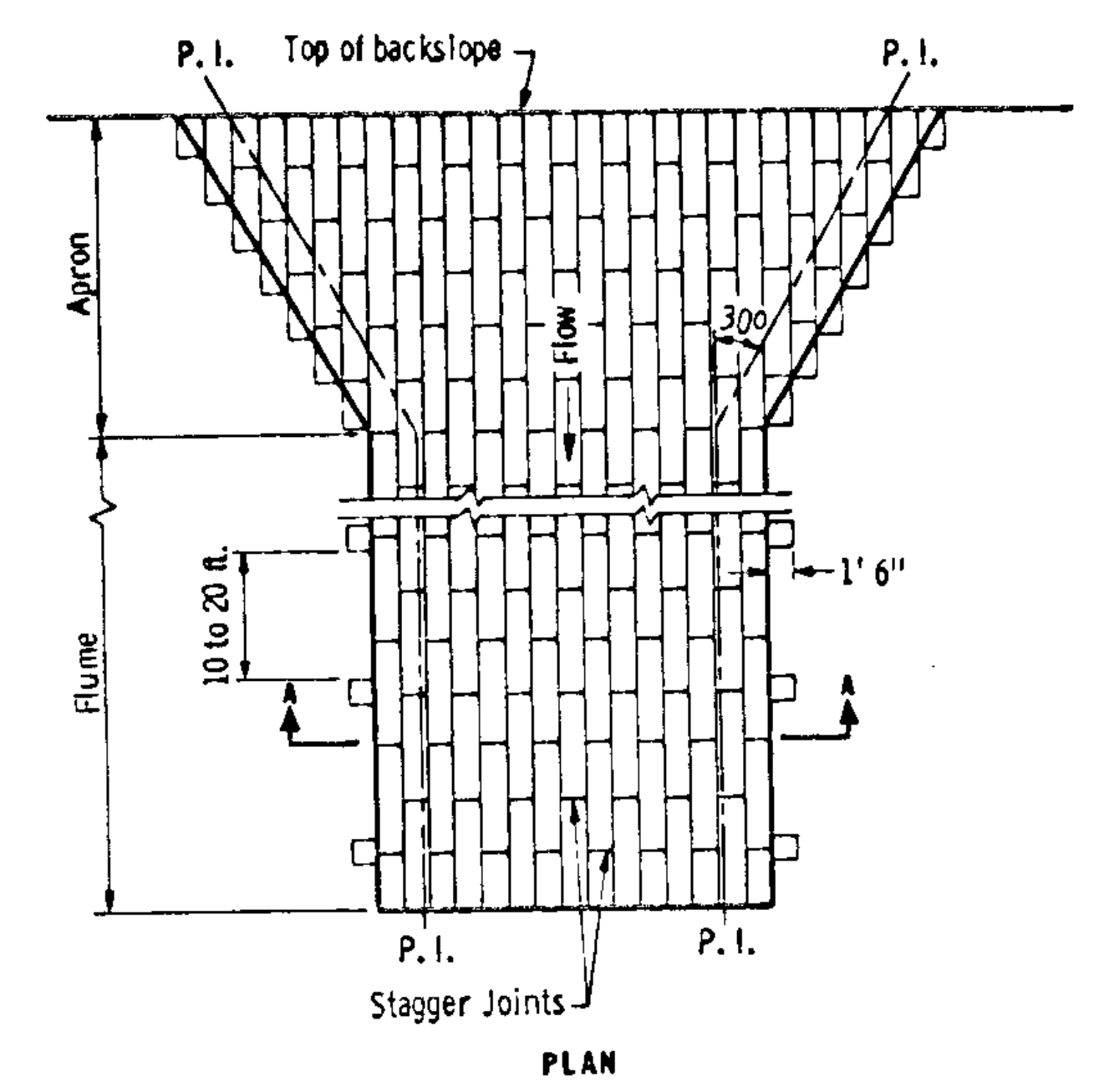


SODDED DITCH CROSS SECTION
Ditches having a minimum radius of 32.5 feet and requiring sod shall be constructed according to the above details. Where ditch radius is less than 32.5 feet, notching is not required. Sod a minimum of 18 feet in width.



NOTE: APPLIES TO DITCH GRADES 20% OR GREATER. DITCH PROFILE

SODDED DITCH DETAILS



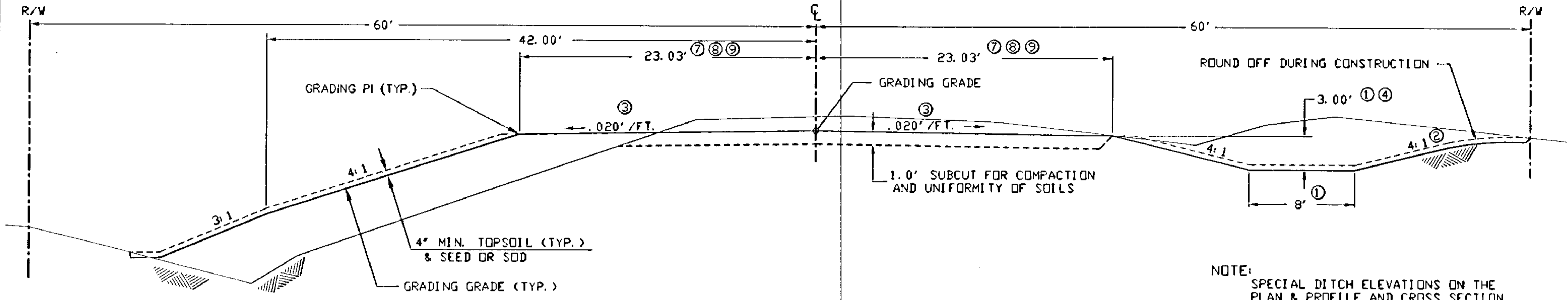
LONGITUDINAL CROSS SECTION

SODDED FLUME DETAILS

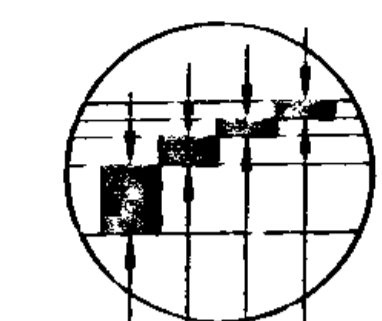
APPROVED Dec. 17, 1974
Leonard E. Fitts
Engineering Standards Engineer
MATERIALS RESEARCH AND STANDARDS DIVISION

GRADING SECTION

STA. 499+34.69 TO STA. 709+43



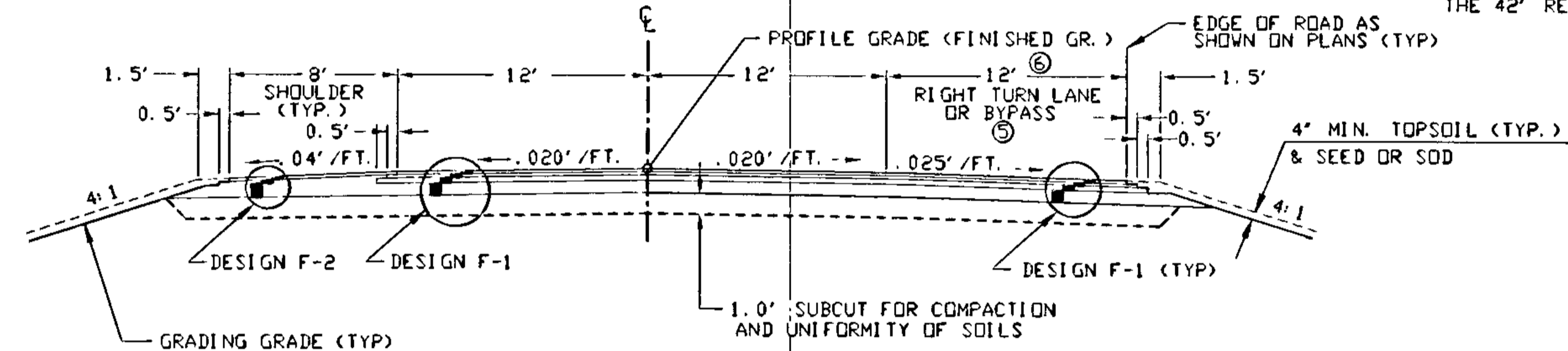
DESIGN F-1
(CALL TRAVEL LANES)



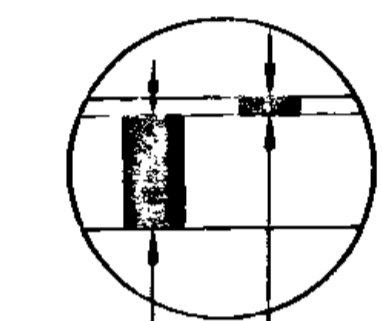
- 1 1/2" TYPE 41 WEARING COURSE-SPEC. 2340 BITUMINOUS MIXTURE DESIGNATION: 41WEA50055Y
- 1 1/2" TYPE 31 BINDER COURSE-SPEC. 2340 BITUMINOUS MIXTURE DESIGNATION: 31BIB50000Y
- 2" TYPE 31 BASE COURSE-SPEC. 2340 BITUMINOUS MIXTURE DESIGNATION: 31BBB50000Y
- 4 1/2" AGGREGATE BASE CLASS 5A-SPEC. 2211 TACK COAT-SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

BASE AND BITUMINOUS SECTION

STA. 499+34.69 TO STA. 709+43



DESIGN F-2
(CALL SHOULDERS)

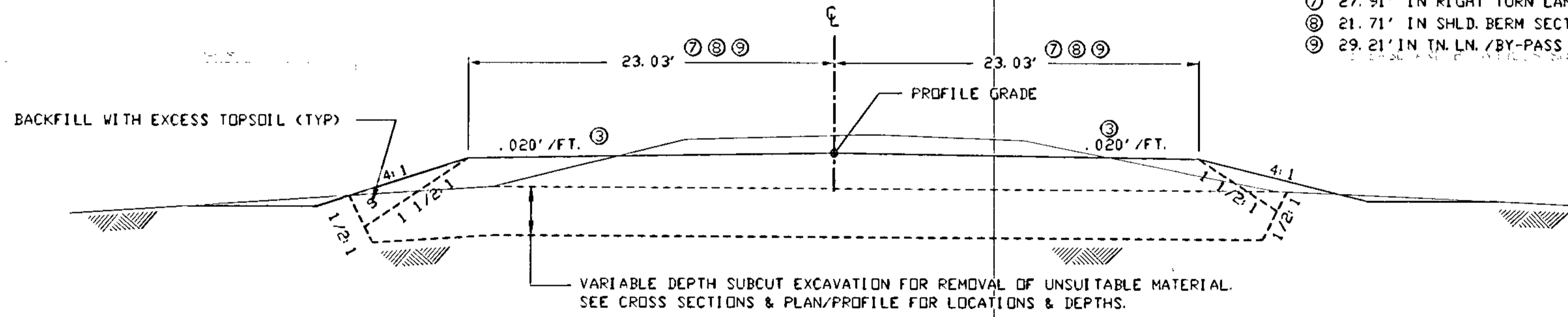


- 1 1/2" TYPE 41 WEARING COURSE-SPEC. 2340 BITUMINOUS MIXTURE DESIGNATION: 41WEA50055Y
- VARIABLE DEPTH AGGREGATE BASE CLASS 5A SPEC. 2211

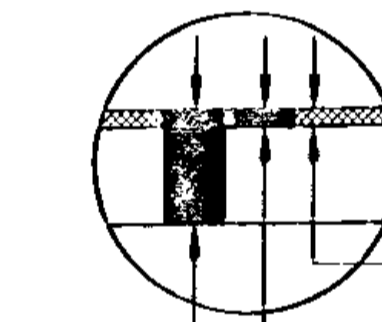
SUBGRADE EXCAVATION

STA. 499+75 TO STA. 503+50 RT.
STA. 583+25 TO STA. 586+50 RT.
STA. 605+00 TO STA. 607+50 RT.
STA. 607+00 TO STA. 609+00 LT.
STA. 643+25 TO STA. 645+50 RT.
STA. 701+55 TO STA. 705+30 RT.
STA. 701+55 TO STA. 707+00 LT.

- ① FOR SPECIAL DITCHES SEE PROFILE SHEETS & CROSS SECTIONS.
- ② SEE CROSS SECTIONS FOR MODIFIED BACKSLOPES.
- ③ GR. SLOPE IN RT. TN. / BY-PASS LN. TO MATCH FIN. LN. SLOPE.
- ④ 2.40' IN RT. TN. / BY-PASS LN. CONSTRUCTION.
- ⑤ SEE CHART W FOR LOCATIONS.
- ⑥ 14' IN BERM CONST. AREAS.
- ⑦ 27.91' IN RIGHT TURN LANES OR BYPASS
- ⑧ 21.71' IN SHLD. BERM SECTION
- ⑨ 29.21' IN TN. LN. / BY-PASS BERM SECTION



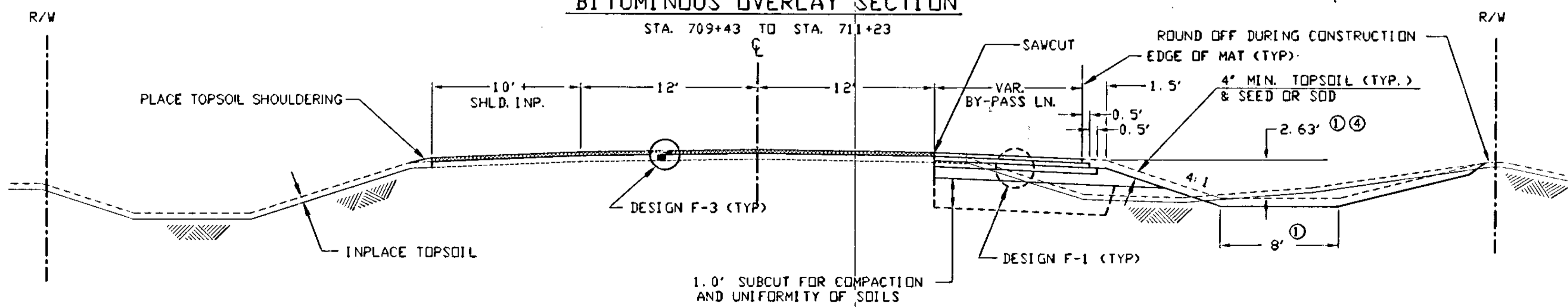
DESIGN F-3
(BITUMINOUS OVERLAY)



- MILL 1 1/2" DEEP PRIOR TO 1 1/2" OVERLAY
- 1 1/2" TYPE 31 WEARING COURSE-SPEC. 2340 BITUMINOUS MIXTURE DESIGNATION: 41WEA50055Y
- INPLACE BASE AND BITUMINOUS SURFACE
- TACK COAT-SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

BITUMINOUS OVERLAY SECTION

STA. 709+43 TO STA. 711+23



RIGHT TURN LANE AND BYPASS LOCATION (W)

STA. TO	STA.	LOCATION	REMARKS
499+30	504+39	LT.	RIGHT TURN LANE
631+04	637+14	RT	BY-PASS LANE
692+56	698+13	RT	RIGHT TURN LANE
696+99	702+51	LT	RIGHT TURN LANE
705+68	711+33	RT	BY-PASS LANE

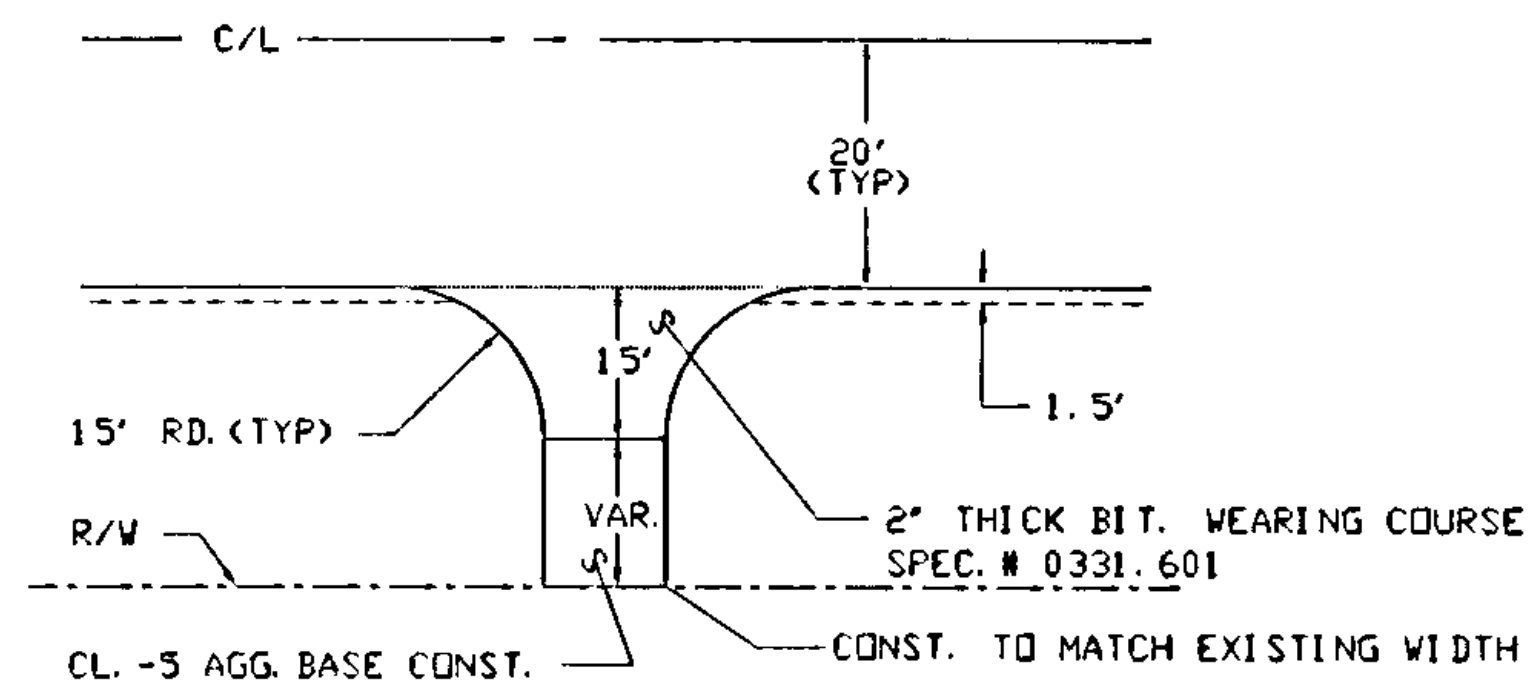
NOTE: NOT TO SCALE

TYPICAL SECTIONS

REVISIONS	DATE	BY

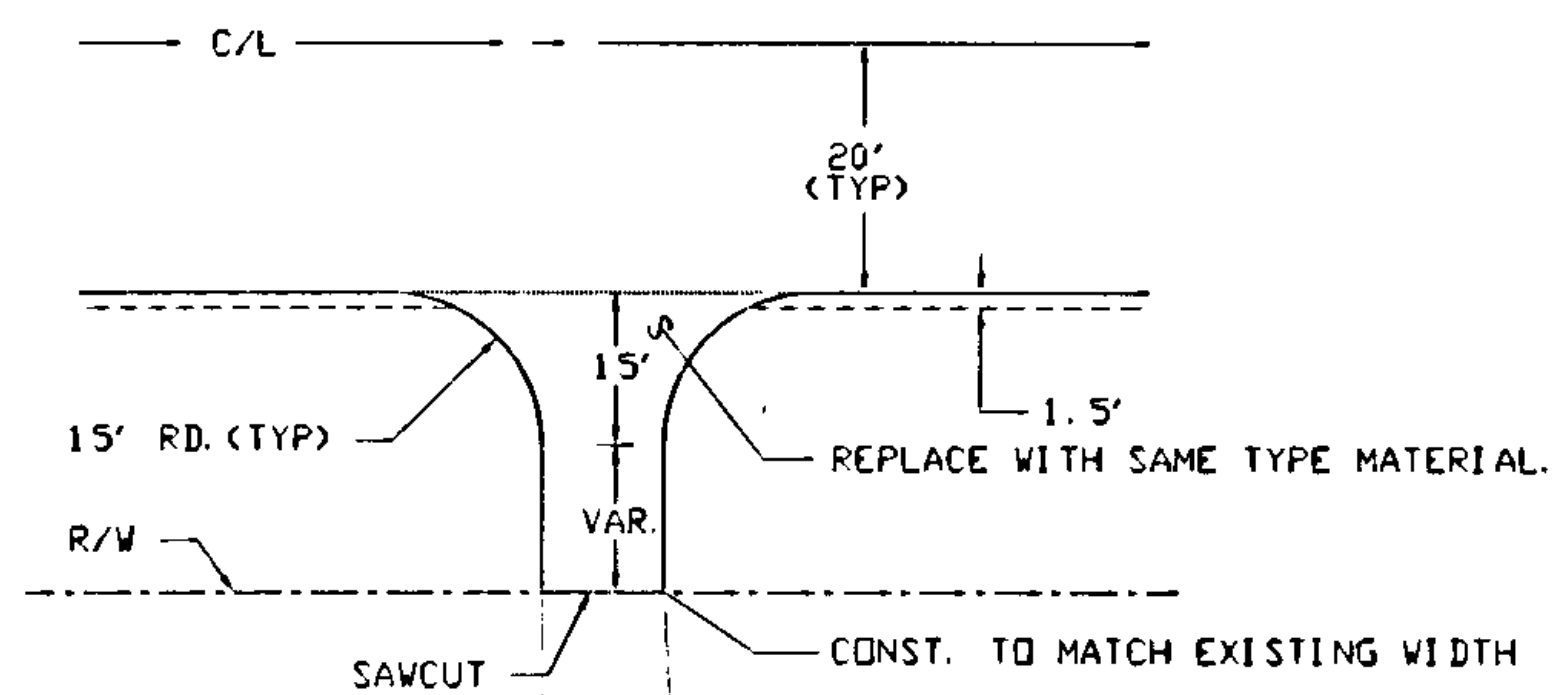
FILE NAME: S:\SDSKPROJ\940307\DWG\07TYP.DWG MN. (02-18-97)

TYPICAL UNPAVED ENTRANCE



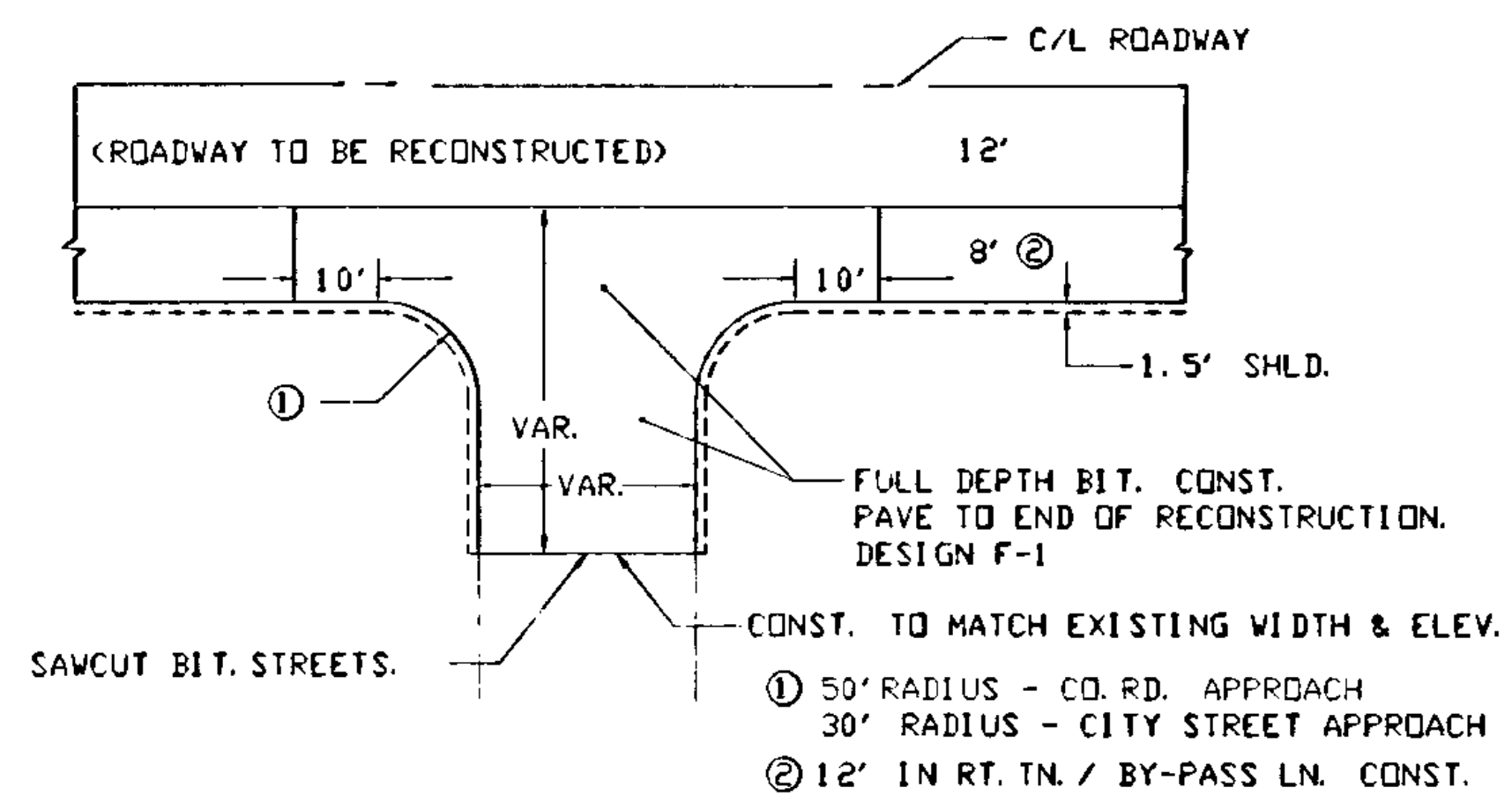
NOTE: ENTRANCE INSLOPE SHALL BE 6:1.

TYPICAL PAVED ENTRANCE



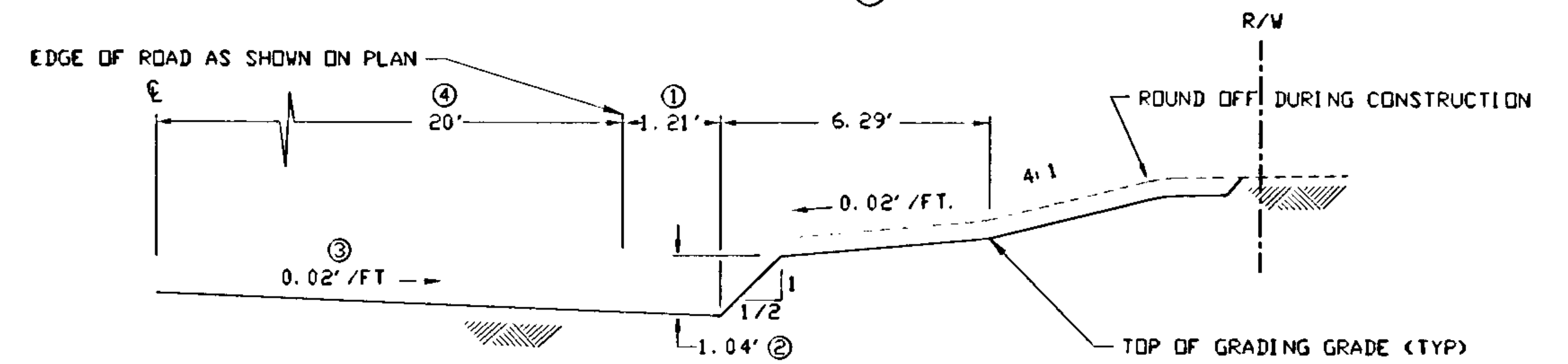
NOTE: ENTRANCE INSLOPE SHALL BE 6:1.

STREET APPROACHES



NOTE:
NOT TO SCALE

GRADING BERM
FOR LOCATIONS SEE CHART ⑤

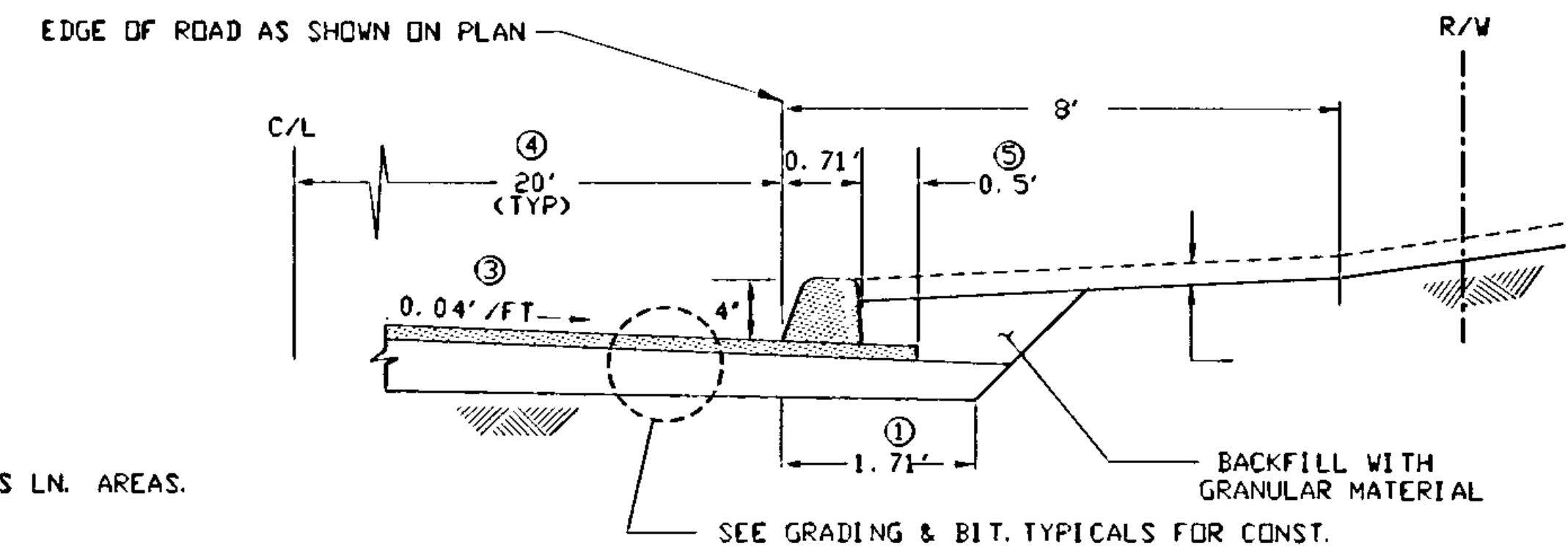


BERM DETAIL

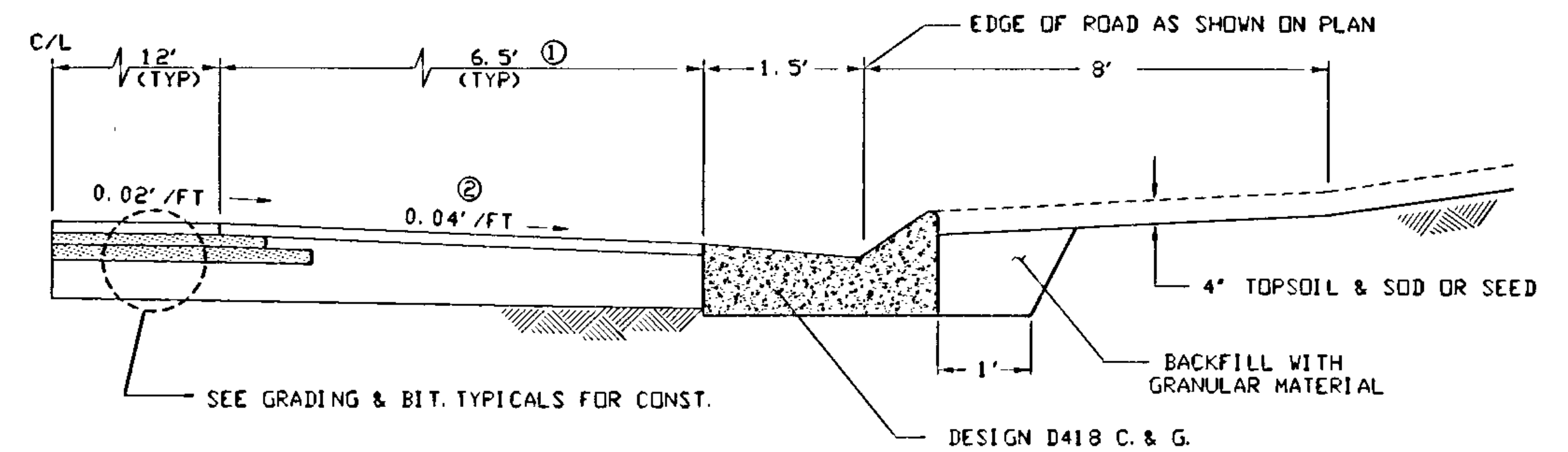
- ① 1.71' IN RT. TN. / BY-PASS LN. AREAS.
- ② 1.25' IN RT. TN. / BY-PASS LN. AREAS.
- ③ SEE GRADING TYP. FOR SLOPE RT. TN. / BY-PASS LN. AREAS.
- ④ 26' IN RT. TN. / BY-PASS LN. AREAS.
- ⑤ 1.5' IN RT. TN. / BY-PASS LN. AREAS.

BITUMINOUS CURB DETAIL

STANDARD PLATE NO. 7065 C
(USE IN BERM LOCATIONS)



CONCRETE CURB & GUTTER DETAIL
ALTERNATE CONCRETE CURB & GUTTER



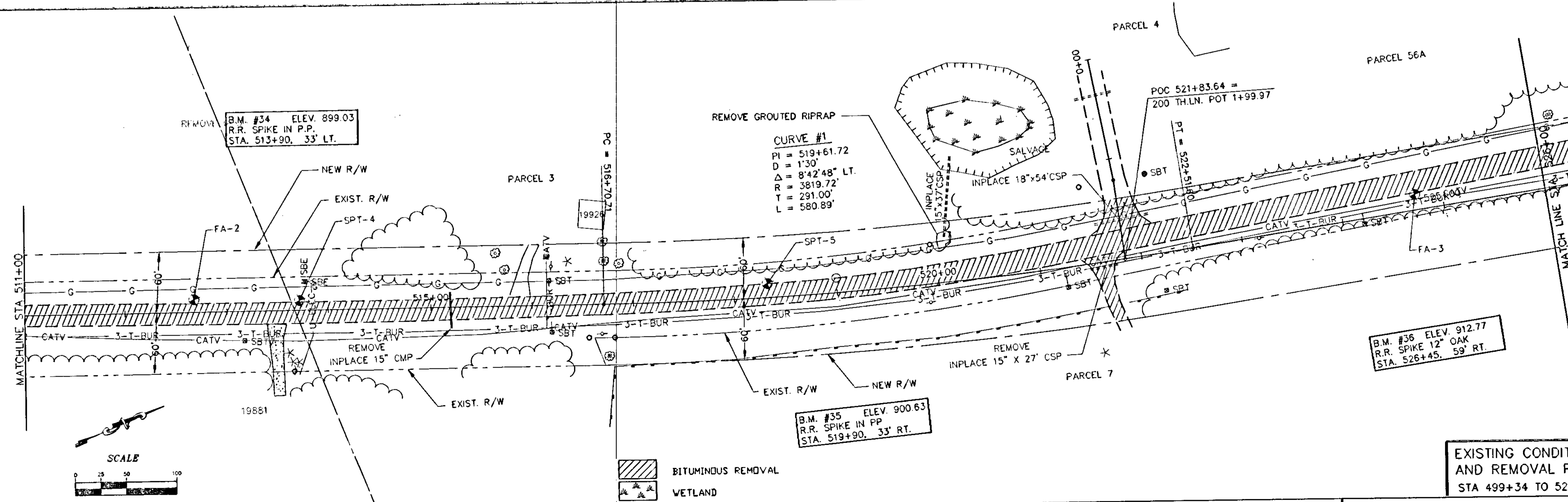
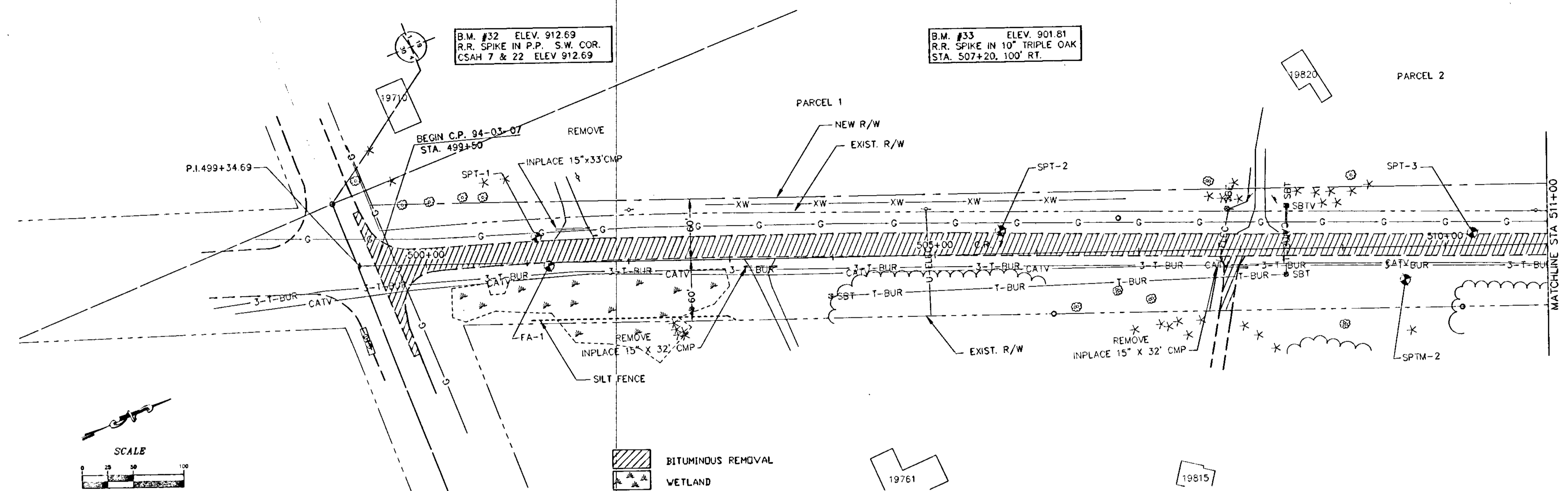
- ① 12.50' IN RT. TN. LN.
- ② 2.5% SLOPE IN RT. TR. LN.

BERM CONSTRUCTION LOCATION (X)			
STATION - STATION	LOCATION	REMARKS	LIN. FT.
499+50 - 501+70	26' LT		200
508+75 - 510+50	20' LT		175
562+30 - 569+40	20' RT		710
580+50 - 583+00	20' LT		250
590+57 - 592+50	20' LT		198
600+00 - 602+00	20' RT		200
604+00 - 606+76	20' RT		237
614+86 - 617+19	20' LT		233
632+50 - 635+25	20' RT		100
653+00 - 658+53	20' RT		553
657+00 - 658+76	20' RT		176
TOTAL			3716

TYPICAL SECTIONS

FILE NAME: S:\SDSKPROJ\940307\DWG\07TYP.DWG MN. (02-18-97)

REVISIONS	DATE	BY

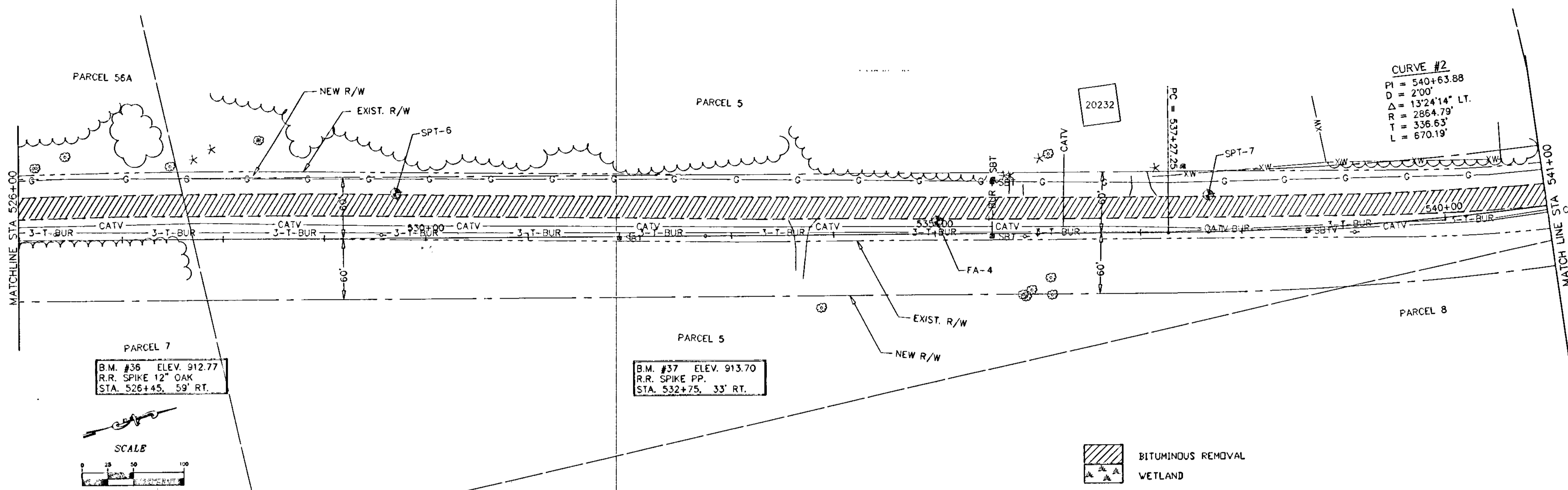


FILE NAME: S:\SDS\PROJECTS\940307\UNCL\SHT-REMO.DWG.MN (02-18-97)

REVISIONS	DATE	BY

EXISTING CONDITION AND REMOVAL PLAN
STA 499+34 TO 526+00

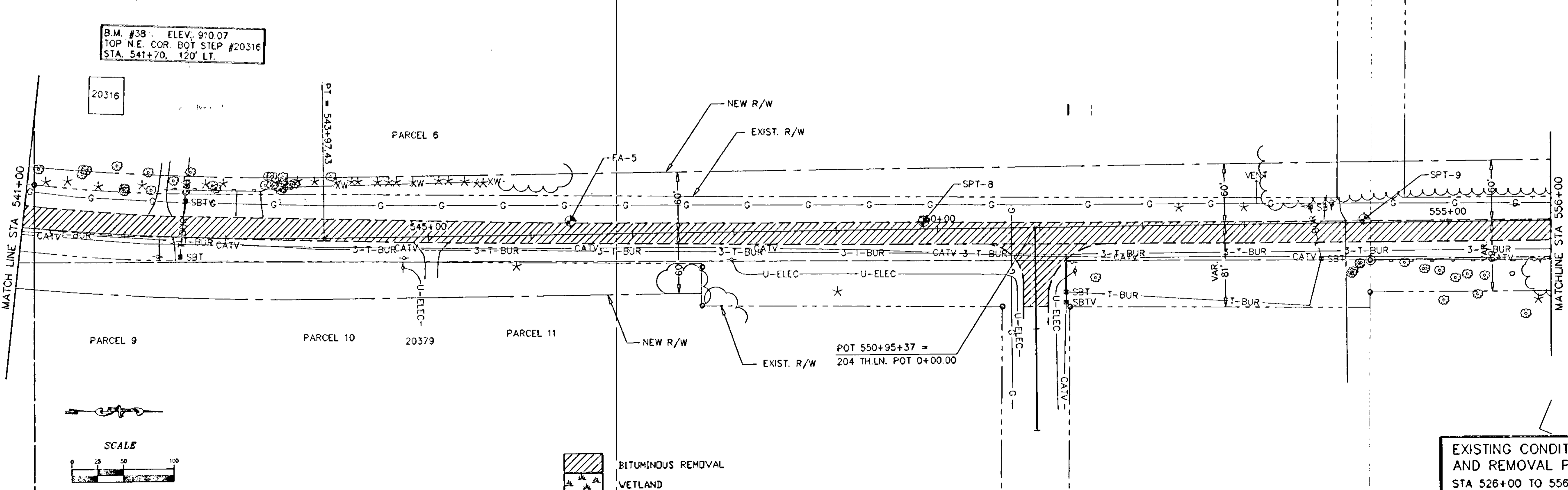
CURVE #2
 PI = 540+63.88
 D = 2'00"
 Δ = 13°24'14" LT.
 R = 2864.79'
 T = 336.63'
 L = 670.19'



PARCEL 7
 B.M. #36 ELEV. 912.77
 R.R. SPIKE 12" OAK
 STA. 526+45. 59' RT.

PARCEL 5
 B.M. #37 ELEV. 913.70
 R.R. SPIKE PP.
 STA. 532+75. 33' RT.

B.M. #38 ELEV. 910.07
 TOP N.E. COR. BOT STEP #20316
 STA. 541+70. 120' LT.



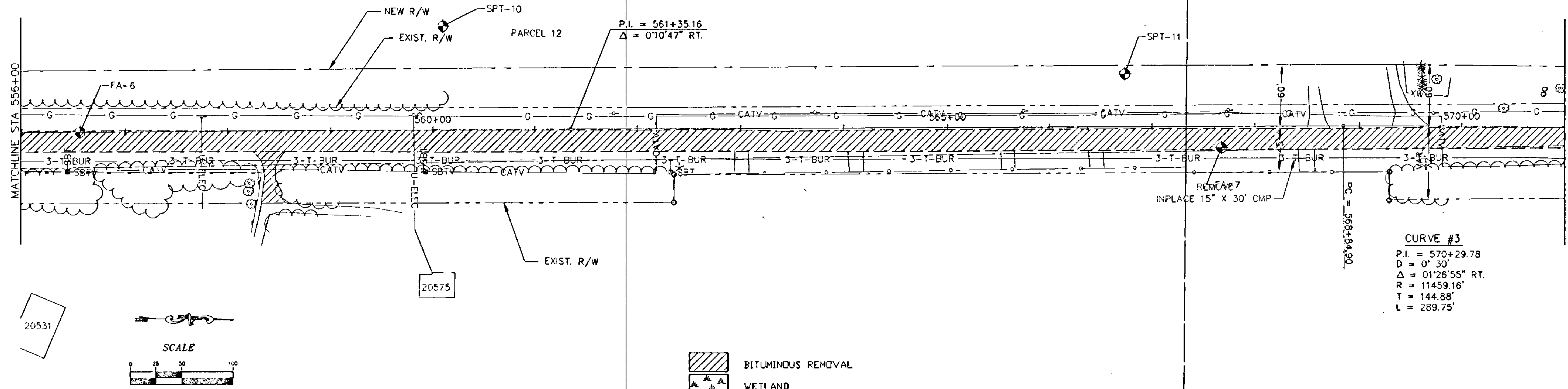
POT 550+95+37 =
 204 TH.LN. POT 0+00.00

EXISTING CONDITION
 AND REMOVAL PLAN
 STA 526+00 TO 556+00.

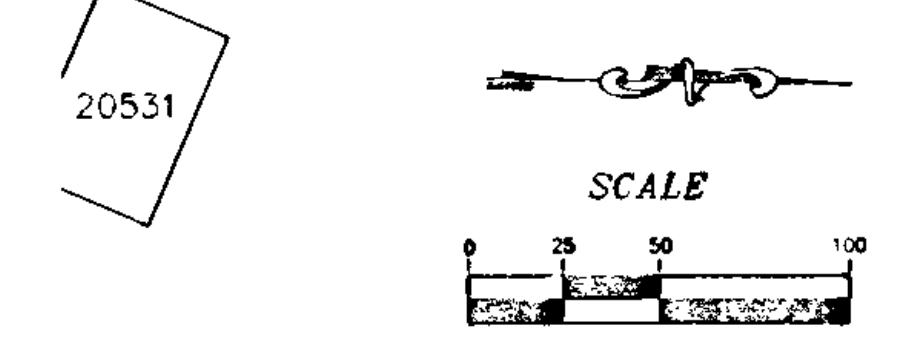
REVISIONS	BY	DATE

B.M. # 39 ELEV. 905.52
R.R. SPIKE IN PP
STA. 559+75, 33' LT.

B.M. #40 ELEV. 904.94
S.W. COR. GRANITE BASE FLAG POLE
STA. 564+50, IN CEMETARY



CURVE #3
P.I. = 570+29.78
D = 0° 30'
Δ = 01°26'55" RT.
R = 11459.16'
T = 144.88'
L = 289.75'



BITUMINOUS REMOVAL
 WETLAND

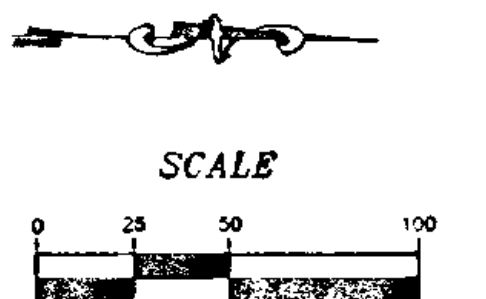
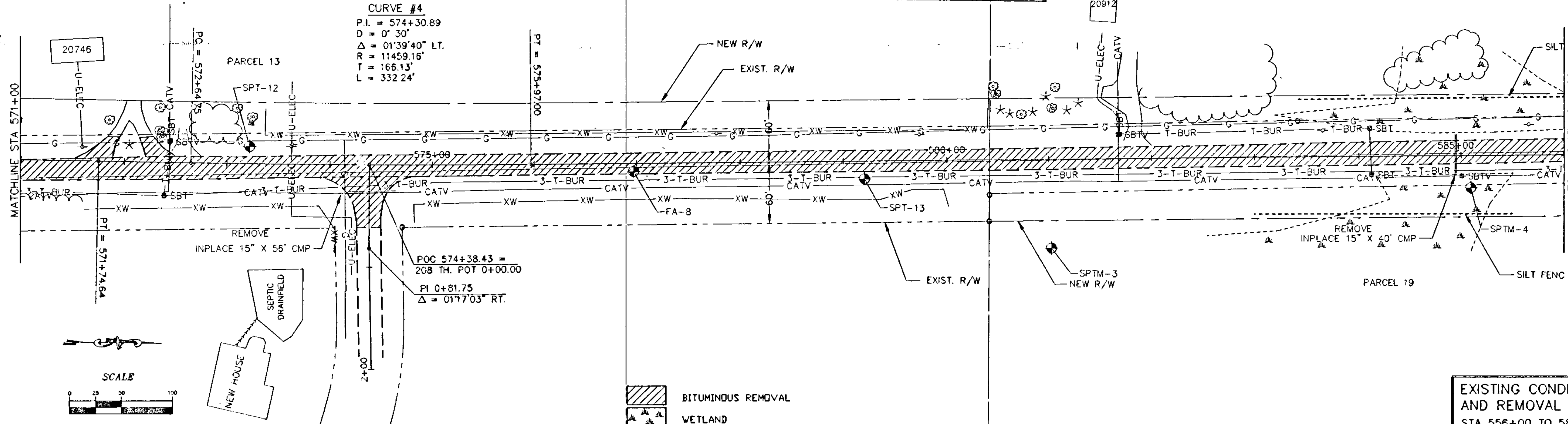
B.M. #41 ELEV. 902.80
S.W. COR. CONC. SLAB #20746
STA. 571+60, 120' LT.

B.M. #42 ELEV. 899.75
R.R. SPIKE IN P.P.
STA. 575+80, 33' LT.

B.M. #43 ELEV. 901.98
R.R. SPIKE IN TRIPLE 18" OAK
STA. 580+50, 100' LT.

B.M. #44 ELEV. 896.58
R.R. SPIKE IN 8" POPIAR
STA. 584+94, 125' LT.

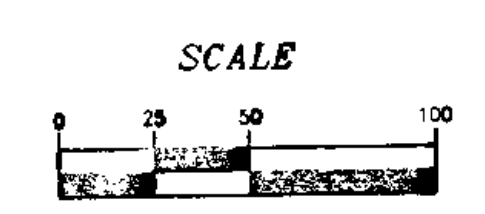
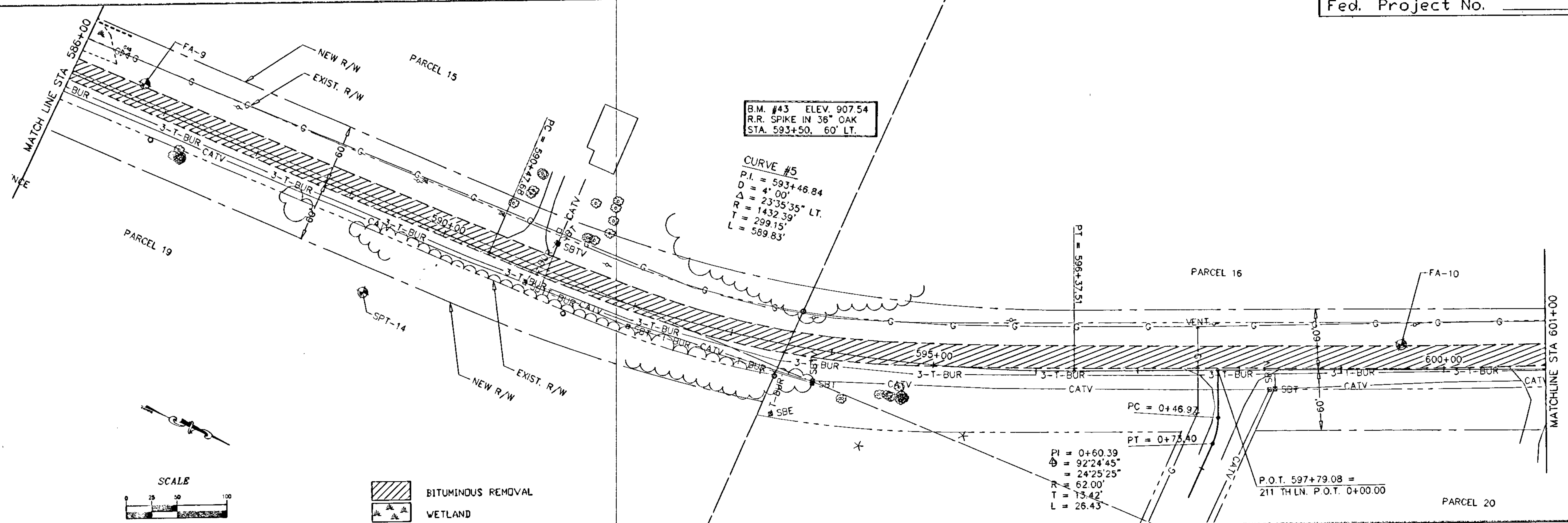
CURVE #4
P.I. = 574+30.89
D = 0° 30'
Δ = 01°39'40" LT.
R = 11459.16'
T = 166.13'
L = 332.24'



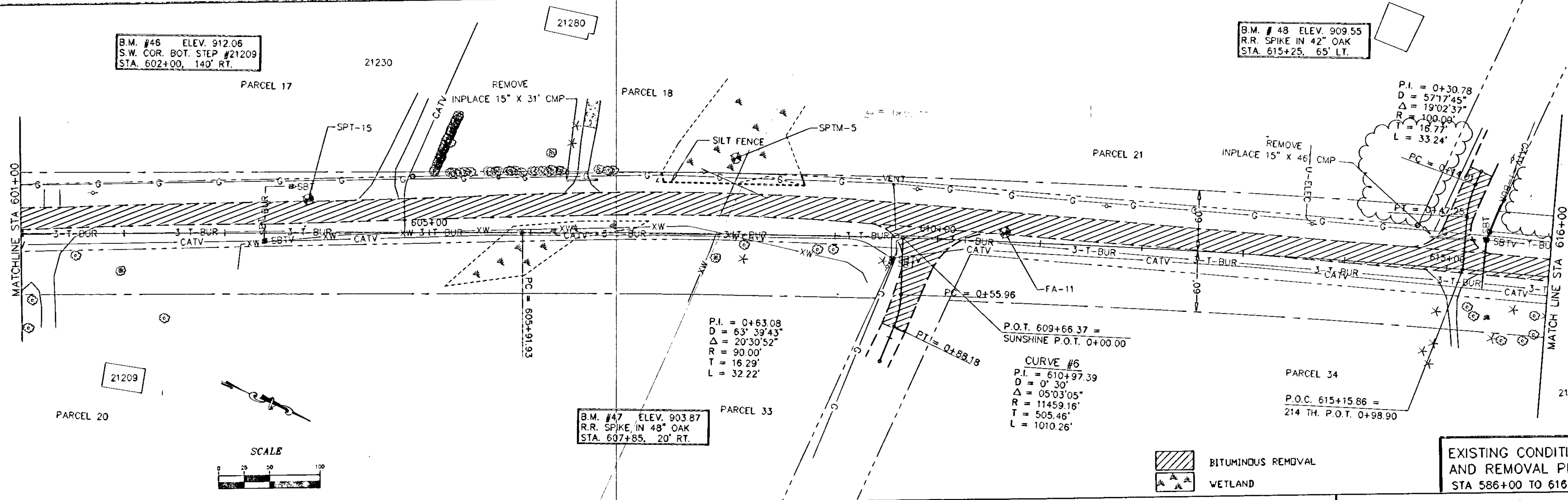
BITUMINOUS REMOVAL
 WETLAND

EXISTING CONDITION AND REMOVAL PLAN
STA 556+00 TO 586+00

REVISIONS	DATE	BY



BITUMINDOUS REMOVAL
 WETLAND

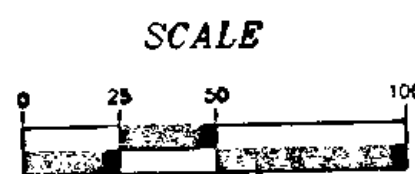
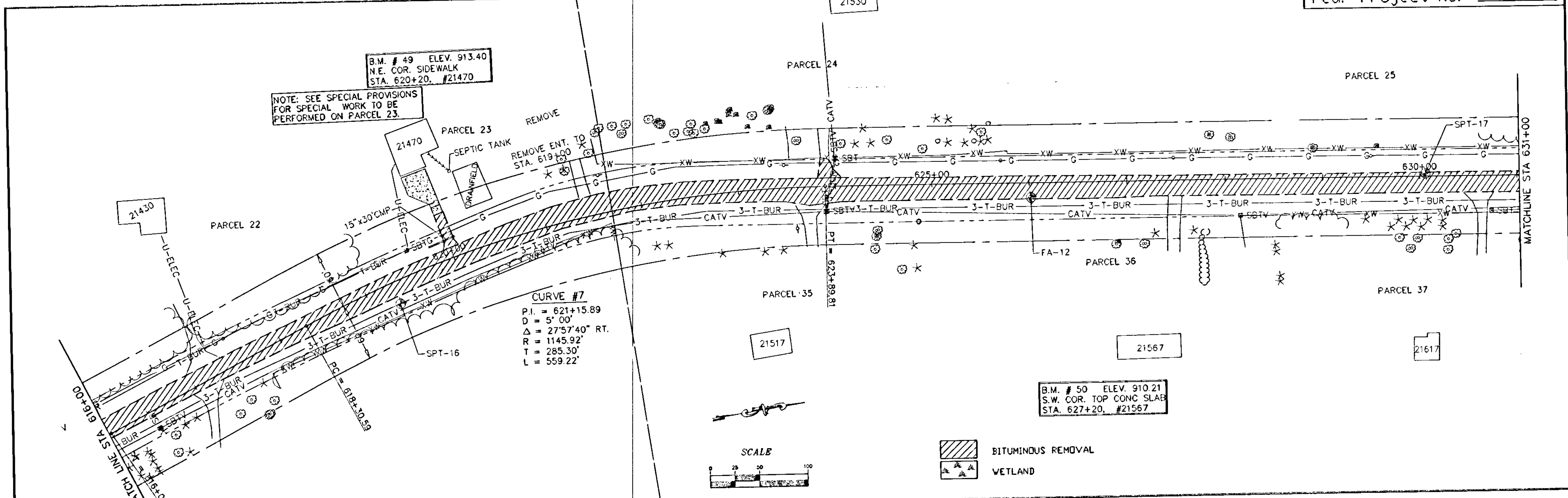


BITUMINDOUS REMOVAL
 WETLAND

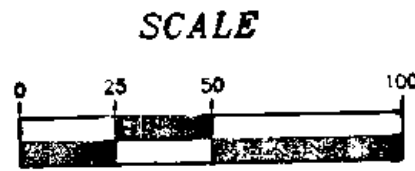
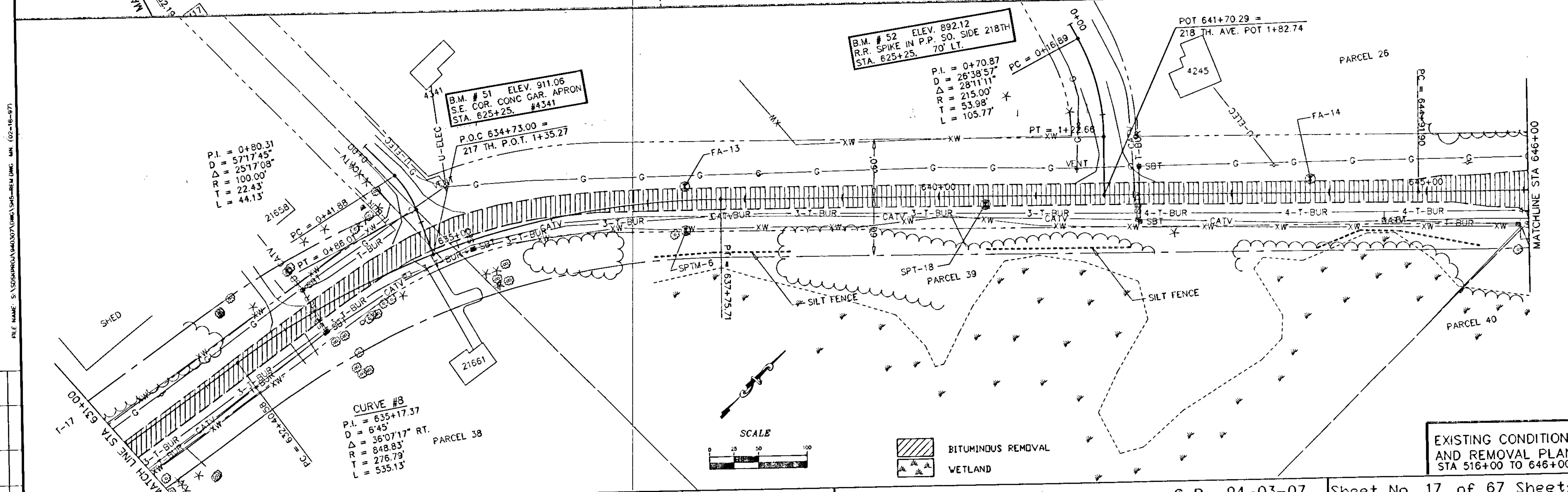
EXISTING CONDITION AND REMOVAL PLAN
 STA 586+00 TO 616+00

REVISIONS	DATE	BY

FILE NAME: S:\SUSKPROJ\04\307\DWG\SH4-REM.DWG, MN. (02-16-97)



BITUMINOUS REMOVAL
 WETLAND



BITUMINOUS REMOVAL
 WETLAND

EXISTING CONDITION AND REMOVAL PLAN STA 516+00 TO 646+00

REVISIONS	DATE	BY

FILE NAME: S:\SDS\PROJ\440307\DWG\17-REMO.DWG. MK (02-16-97)

B.M. # 53 ELEV. 886.91
TOP WEST BOLT N.E. ABUTMENT
STA. 649+00.

B.M. # 54 ELEV. 897.23
R.R. SPIKE IN P.P. S.W. COR.
STA. 653+10 219TH AVE.

CURVE #9
P.I. = 649+54.20
D = 0'45"
 $\Delta = 06^{\circ}55'34"$
R = 7639.44'
T = 462.30'
L = 923.48'

PI = 0+75.92
D = 57'17.45"
 $\Delta = 11^{\circ}16'47"$
R = 100.00'
T = 9.88'
L = 19.69'



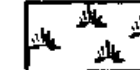
POC 653+31.49 =
219 TH. AVE. W. POT 1+35.39

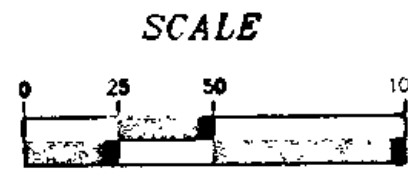
CURVE #10
P.I. = 658+15.78
D = 0'15"
 $\Delta = 00^{\circ}56'35"$ LT.
R = 22918.31'
T = 188.61'
L = 377.20'

PARCEL 31
PT = 660+04.88
22008

B.M. # 55 ELEV. 915.05
R.R. SPIKE IN P.P. SE. COR.
STA. 658+30 219TH AVE.

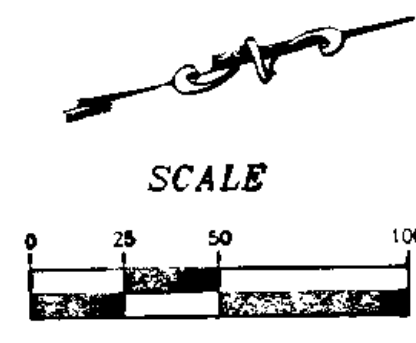
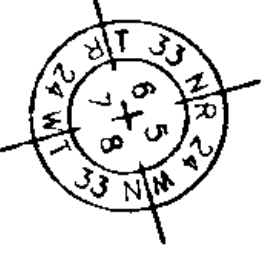
POC 658+66.57 =
219 TH. AVE. E. POT 0+00.00

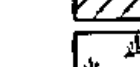
-  BITUMINOUS REMOVAL
-  1.5" BITUMINOUS MILLING
-  WETLAND



B.M. # 56 ELEV. 919.12
R.R. SPIKE IN P.P.
STA. 667+50 60' LT.

CURVE #11
P.I. = 666+83.56
D = 3'30"00"
 $\Delta = 36^{\circ}02'21"$ LT.
R = 1637.02'
T = 532.52'
L = 1029.69'

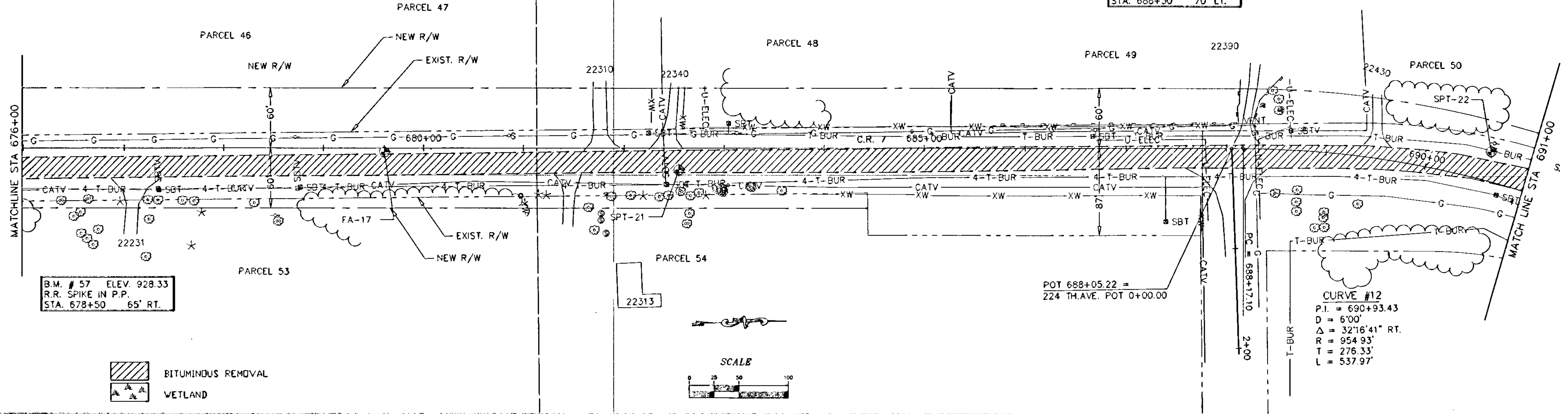


-  BITUMINOUS REMOVAL
-  WETLAND

EXISTING CONDITION
AND REMOVAL PLAN
STA 546+00 TO 676+00

REVISIONS	DATE	BY

B.M. # 58 ELEV. 921.55
R.R. SPIKE IN 24" ELM
STA. 688+30 70' LT.

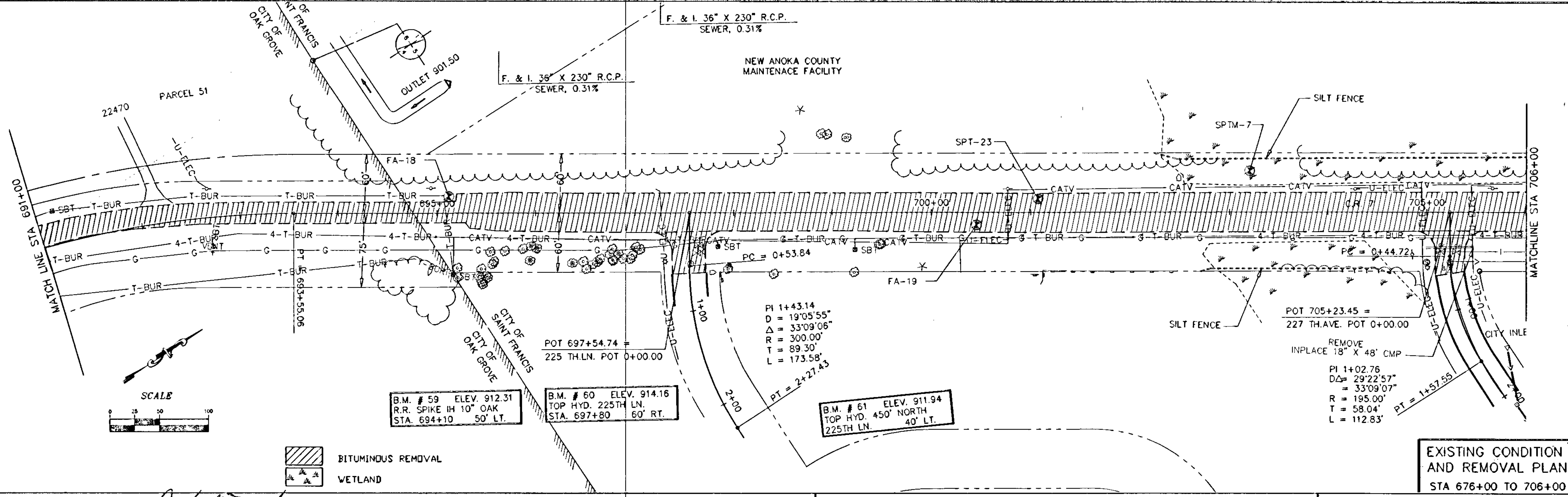


B.M. # 57 ELEV. 928.33
R.R. SPIKE IN P.P.
STA. 678+50 65' RT.

BITUMINOUS REMOVAL
 WETLAND

SCALE
0 25 50 100

CURVE #12
P.I. = 690+93.43
D = 6'00"
Δ = 32'16"41" RT.
R = 954.93'
T = 276.33'
L = 537.97'



F. & I. 36" X 230" R.C.P.
SEWER, 0.31%

NEW ANOKA COUNTY
MAINTENANCE FACILITY

F. & I. 36" X 230" R.C.P.
SEWER, 0.31%

PARCEL 51
22470

SCALE
0 25 50 100

POT 697+54.74 =
225 TH.LN. POT 0+00.00

PI 1+43.14
D = 19'05"55"
Δ = 33'09"06"
R = 300.00'
T = 89.30'
L = 173.58'
PT = 2+27.43

B.M. # 59 ELEV. 912.31
R.R. SPIKE IN 10" OAK
STA. 694+10 50' LT.

B.M. # 60 ELEV. 914.16
TOP HYD. 225TH LN.
STA. 697+80 60' RT.

B.M. # 61 ELEV. 911.94
TOP HYD. 450' NORTH
225TH LN. 40' LT.

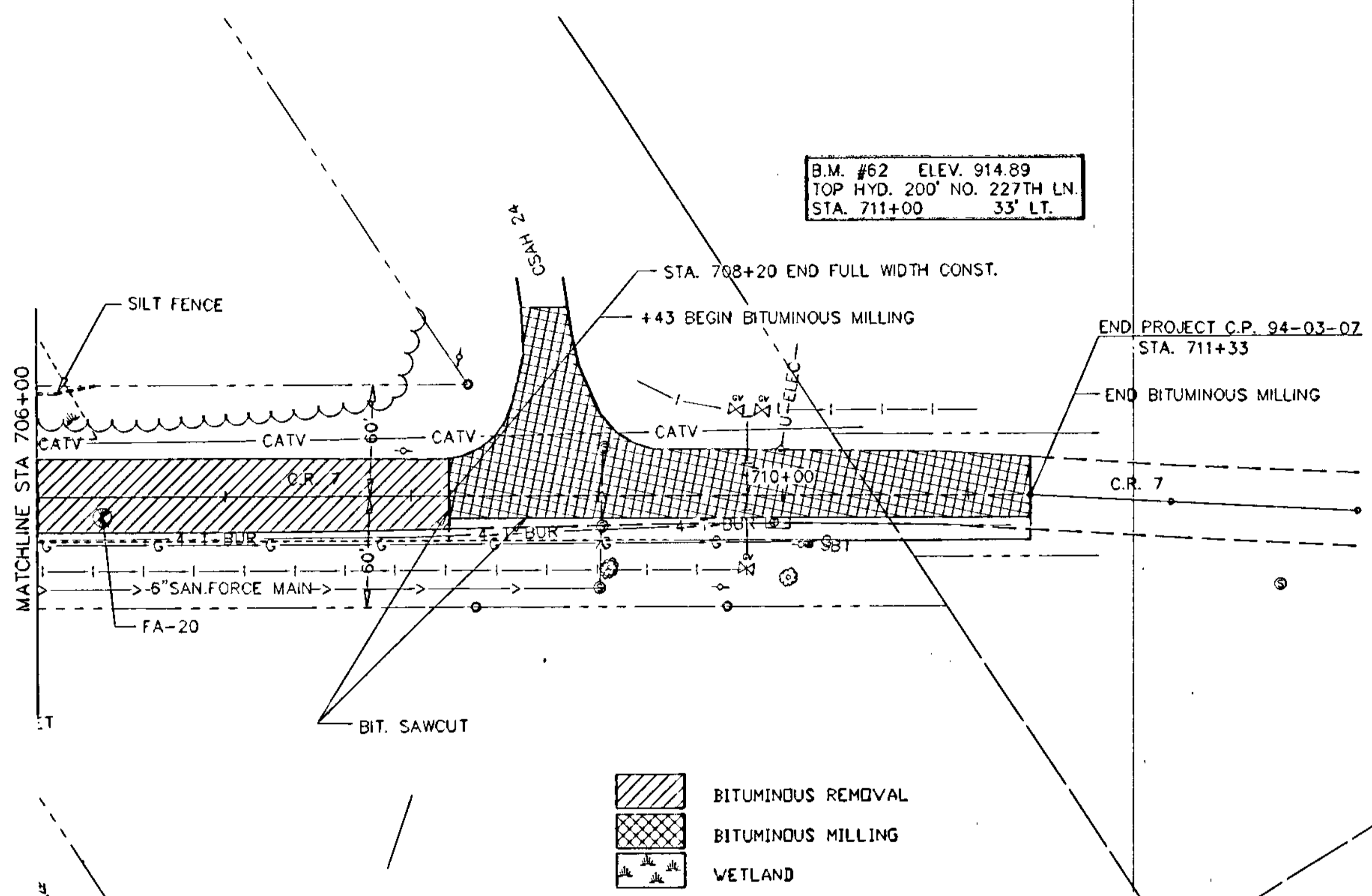
POT 705+23.45 =
227 TH.AVE. POT 0+00.00

REMOVE
INPLACE 18" X 48" CMP
PI 1+02.76
DΔ = 29'22"57"
= 33'09"07"
R = 195.00'
T = 58.04'
L = 112.83'
PT = 1+57.55

BITUMINOUS REMOVAL
 WETLAND

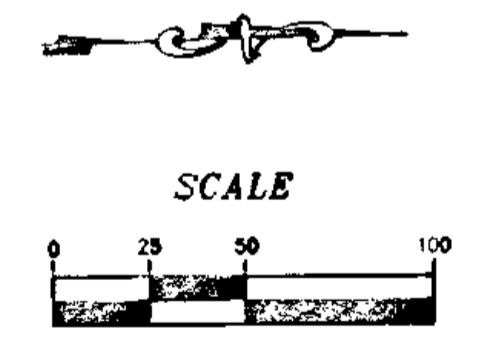
EXISTING CONDITION
AND REMOVAL PLAN
STA 676+00 TO 706+00

REVISIONS	DATE	BY



B.M. #62 ELEV. 914.89
 TOP HYD. 200' NO. 227TH LN.
 STA. 711+00 33' LT.

-  BITUMINOUS REMOVAL
-  BITUMINOUS MILLING
-  WETLAND



FILE NAME: S:\SOSKPROVA\40307\DMG\SHS-REM.DWG MN (02-18-97)

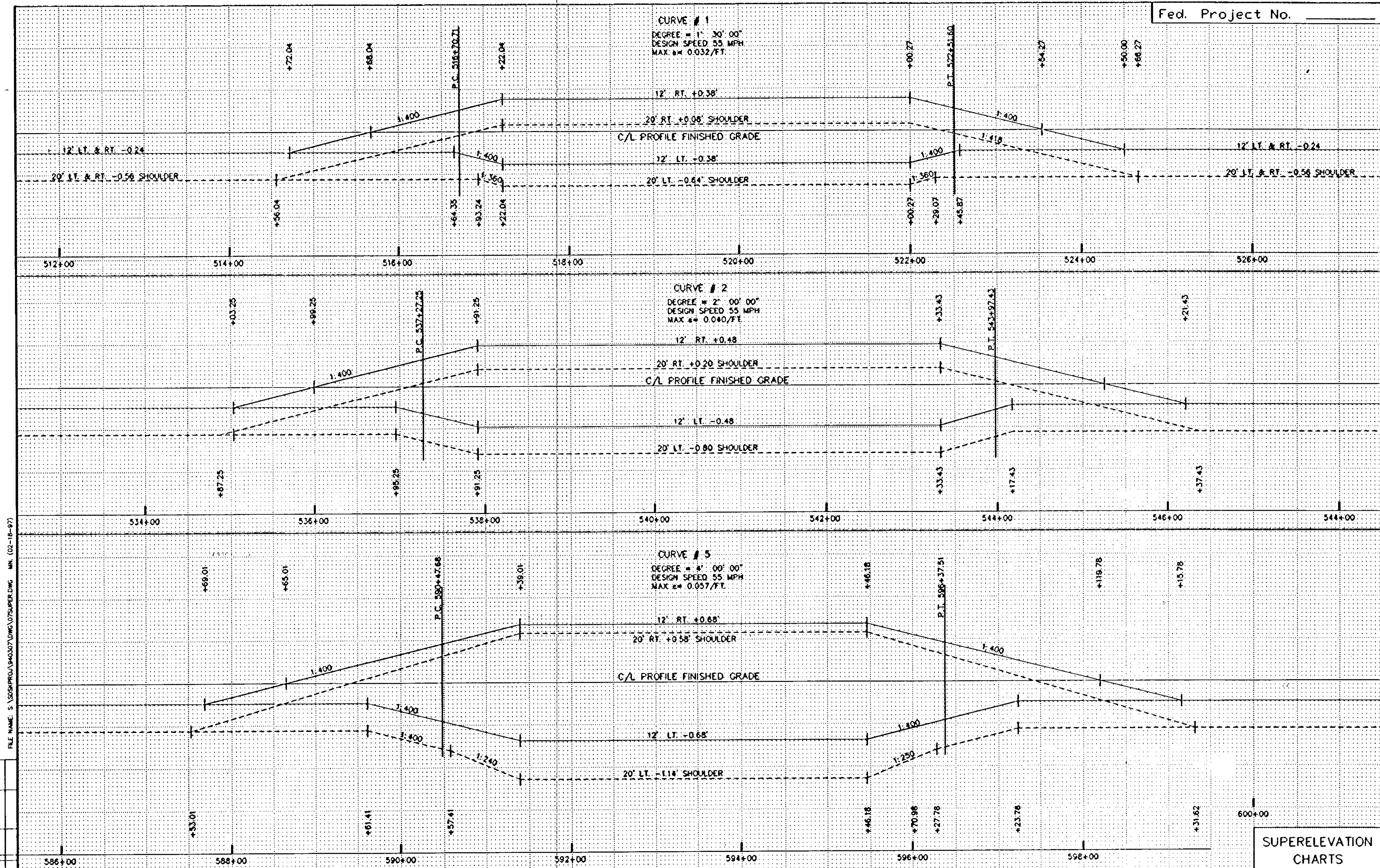
REVISIONS	DATE	BY

EXISTING CONDITION
 AND REMOVAL PLAN
 STA 706+00 TO 711+33

CURVE # 1
 DEGREE = 1° 30' 00"
 DESIGN SPEED 55 MPH
 MAX ϵ = 0.032/FT.

CURVE # 2
 DEGREE = 2° 00' 00"
 DESIGN SPEED 55 MPH
 MAX ϵ = 0.040/FT.

CURVE # 5
 DEGREE = 4° 00' 00"
 DESIGN SPEED 55 MPH
 MAX ϵ = 0.057/FT.

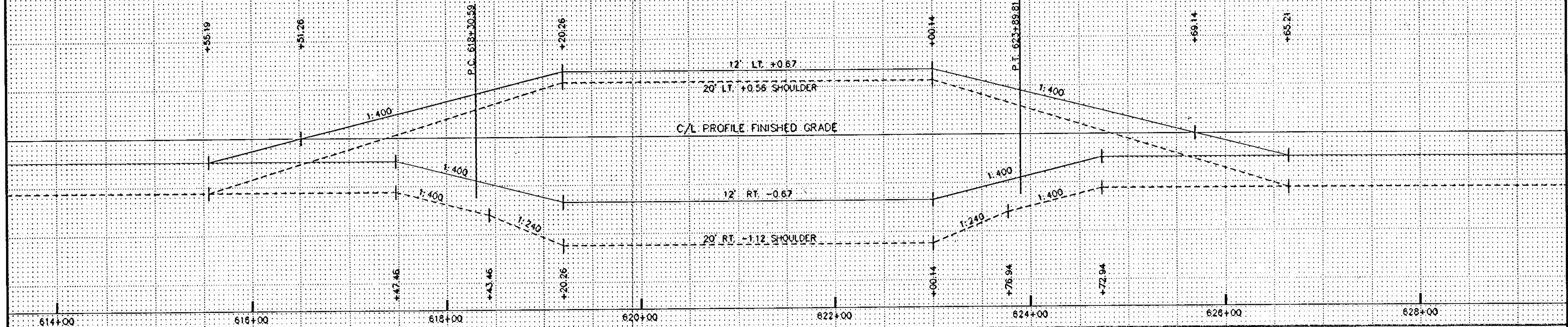


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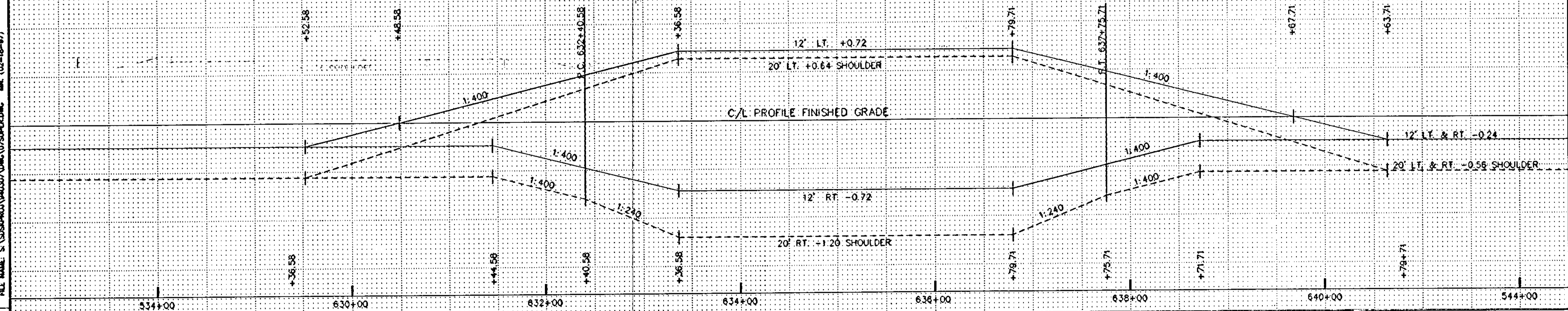
REVISIONS	DATE	BY

SUPERELEVATION CHARTS

CURVE # 7
 DEGREE = 5° 00' 00"
 DESIGN SPEED 50 MPH
 MAX e = 0.056/FT.



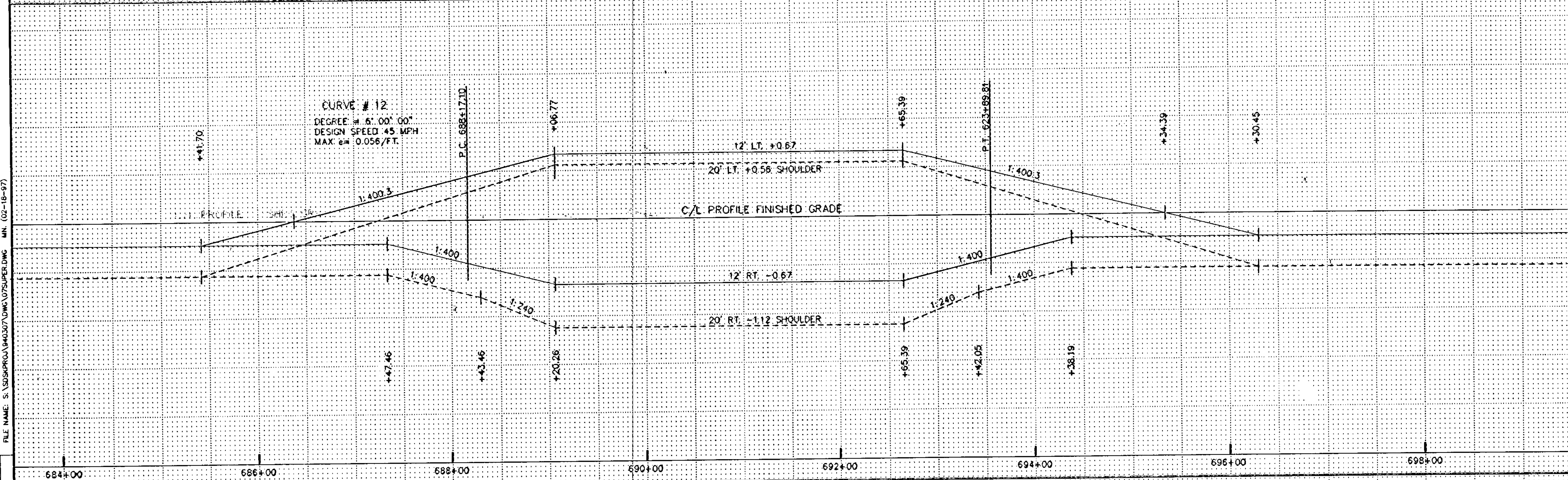
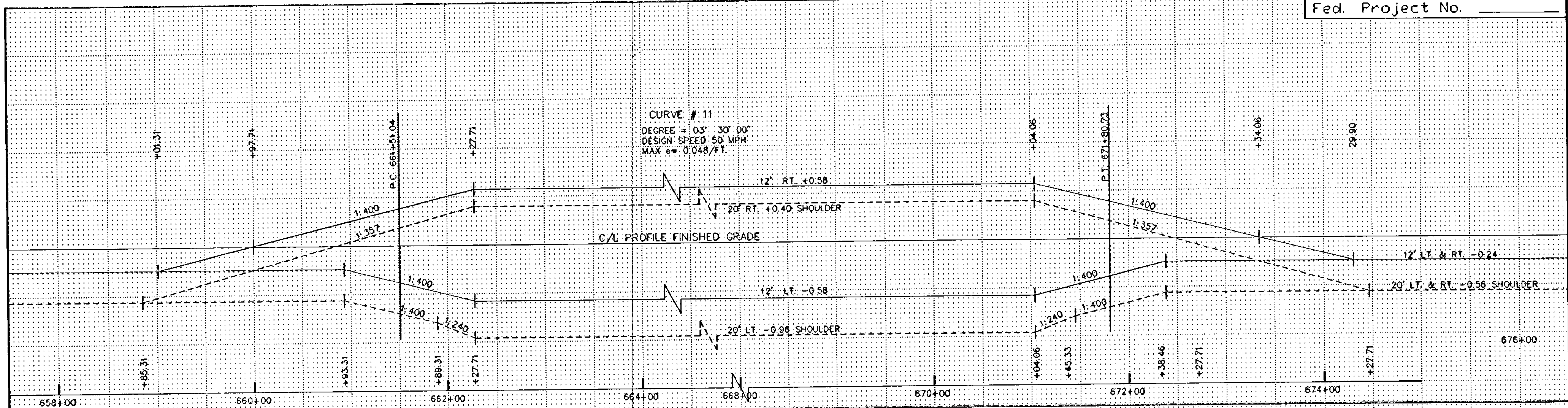
CURVE # 8
 DEGREE = 6° 45' 00"
 DESIGN SPEED 50 MPH
 MAX e = 0.060/FT.



FILE NAME: S:\SSUPRO\194007\DWG\07SUPER.DWG MA (02-18-97)

REVISIONS	DATE	BY

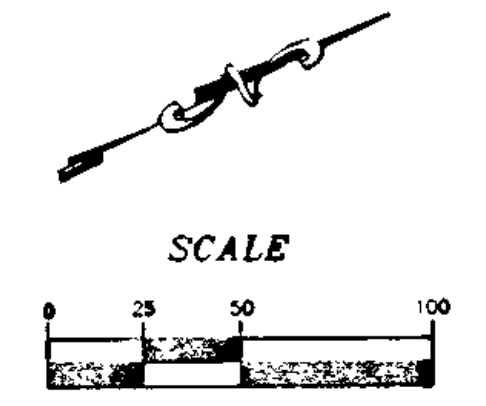
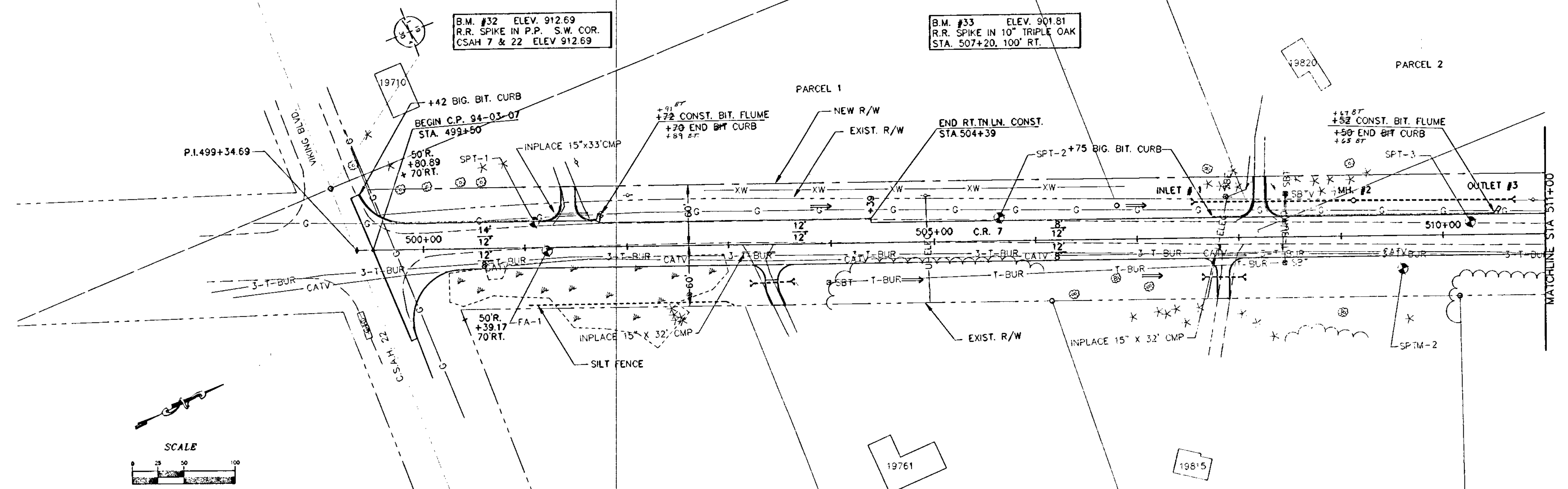
SUPERELEVATION CHARTS



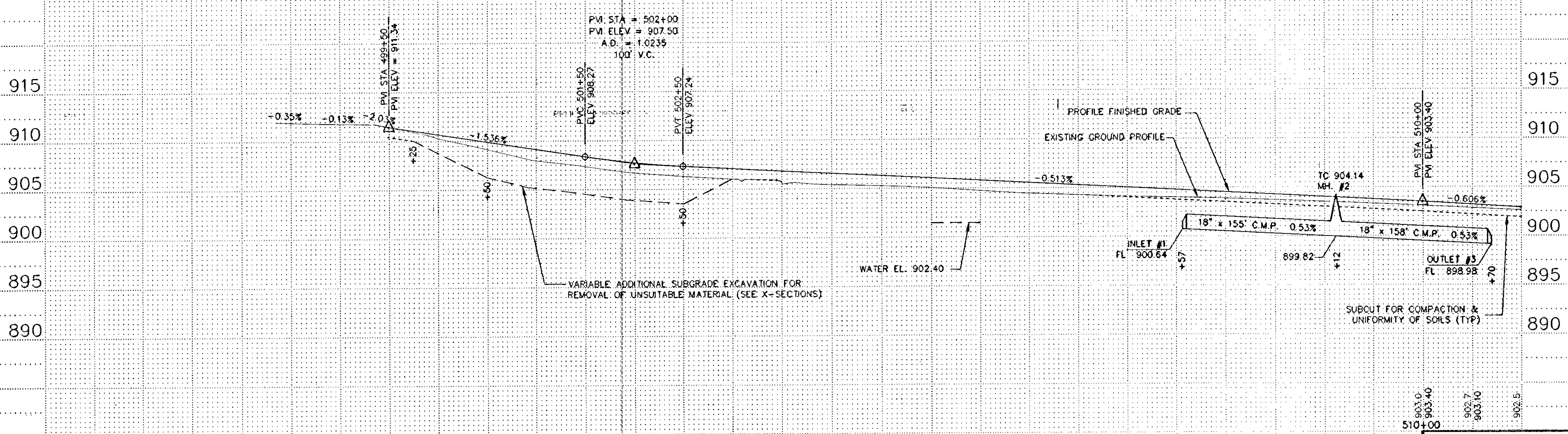
REVISIONS	DATE	BY

SUPERELEVATION CHARTS

FILE NAME: S:\SOS\PROJ\940307\DWG\07SUPER.DWG MIN. (02-18-97)

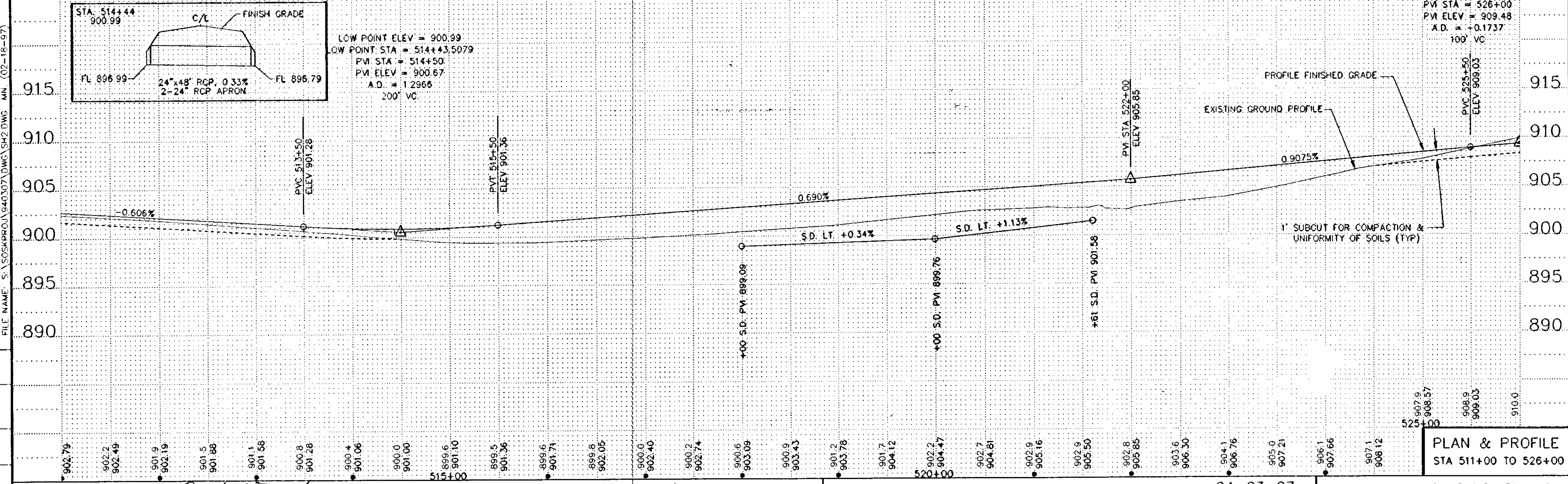
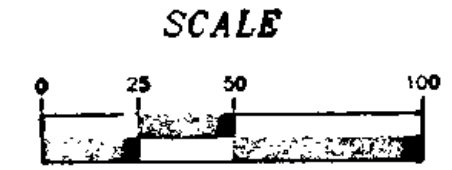
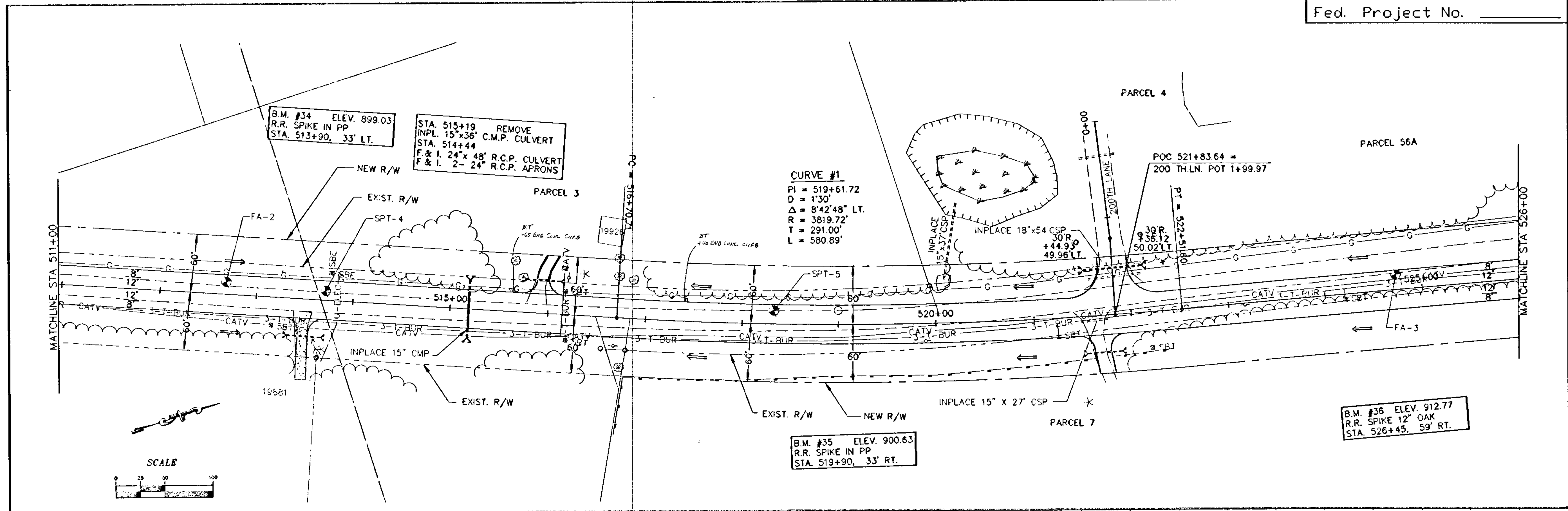


FILE NAME: S:\S05KPROJ\940307\DWG\SH1.DWG MN. (02-18-97)



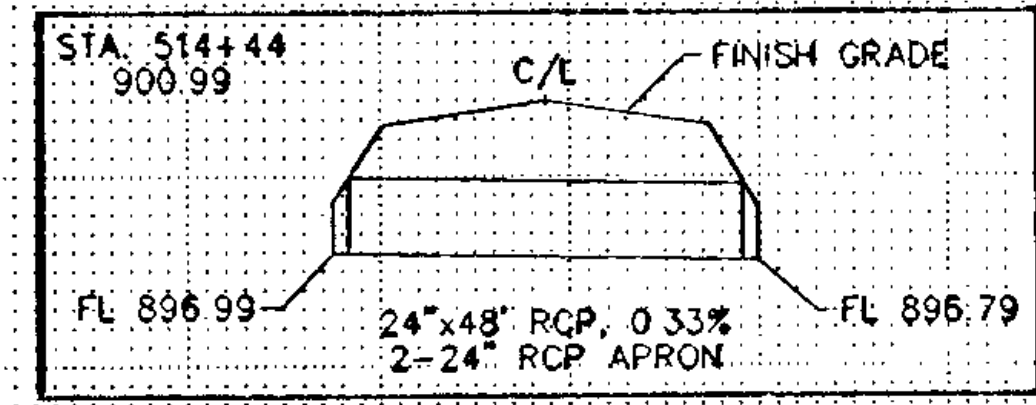
REVISIONS	DATE	BY

PLAN & PROFILE
STA 499+00 TO 511+00



REVISIONS	DATE	BY

FILE NAME: S:\SOSKPROJ\940307\DWG\SH2.DWG MN. (02-18-97)

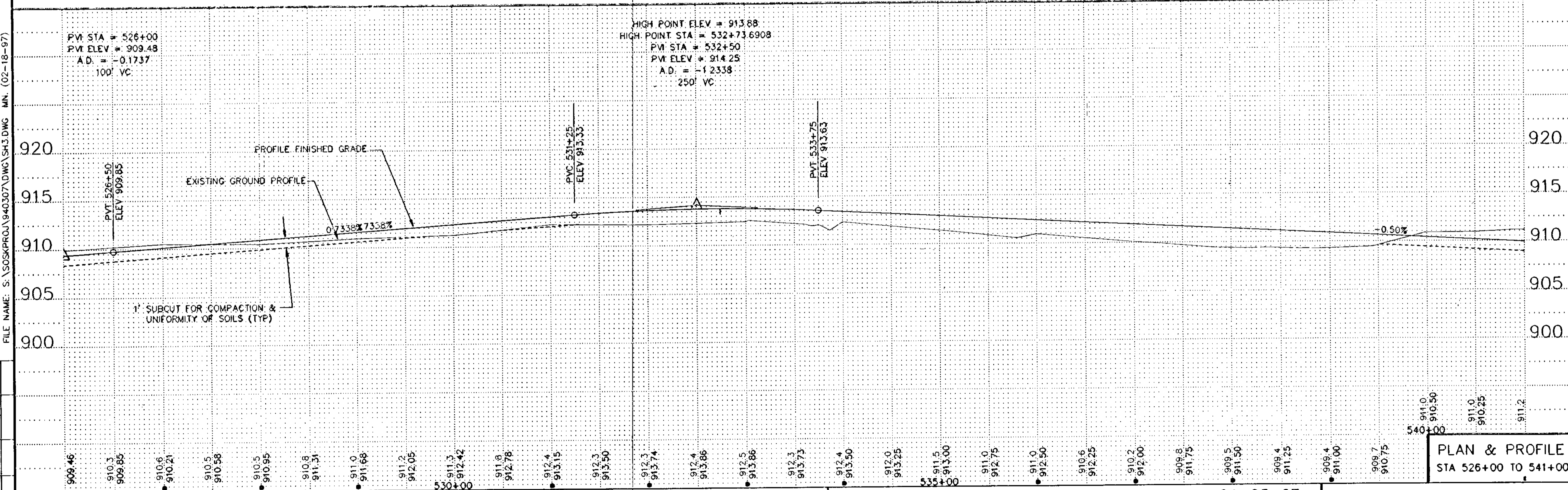
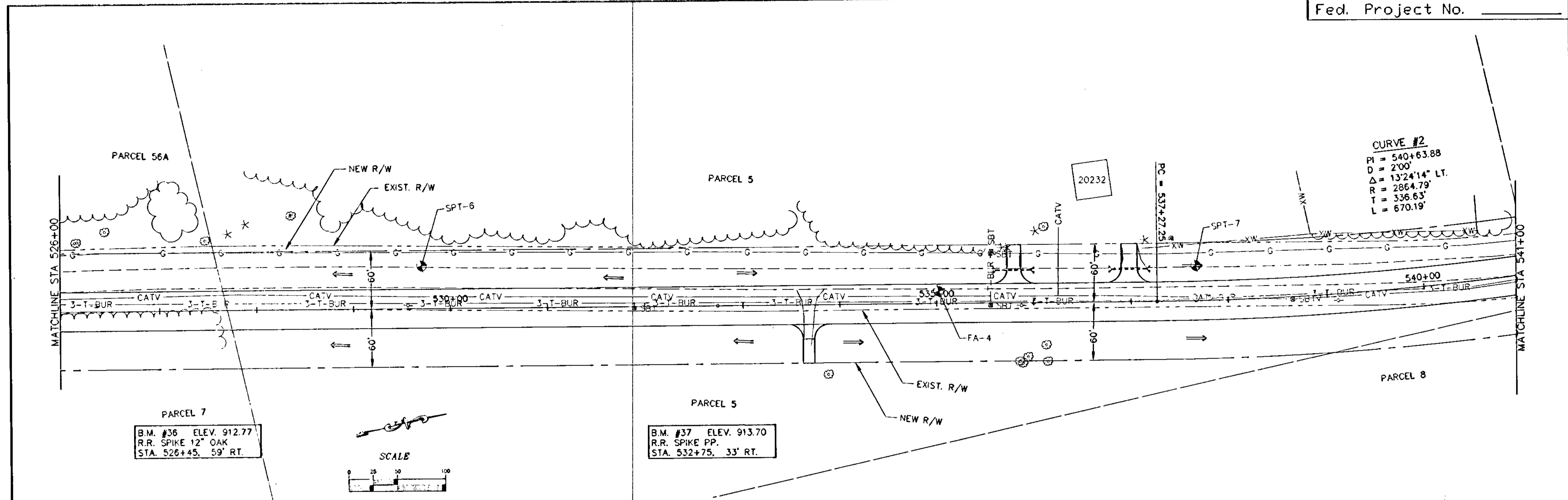


LOW POINT ELEV = 900.99
 LOW POINT STA = 514+43.5079
 PVI STA = 514+50
 PVI ELEV = 900.67
 A.D. = 1.2966
 200' VC

PVI STA = 526+00
 PVI ELEV = 909.48
 A.D. = +0.1737
 100' VC

PLAN & PROFILE
 STA 511+00 TO 526+00

CURVE #2
 PI = 540+63.88
 D = 2'00"
 $\Delta = 13'24'14"$ LT.
 R = 2864.79'
 T = 336.63'
 L = 670.19'

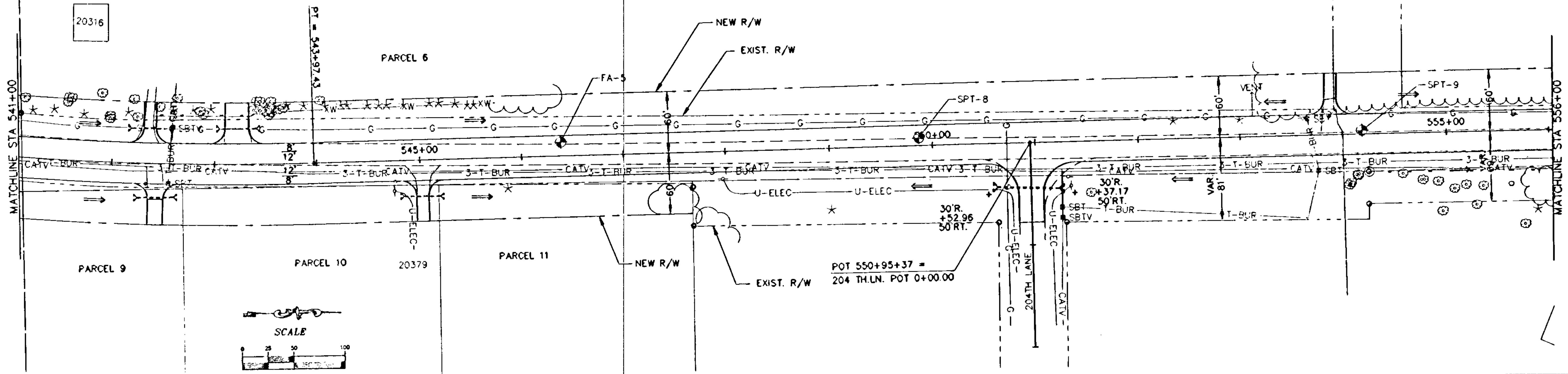


REVISIONS	DATE	BY

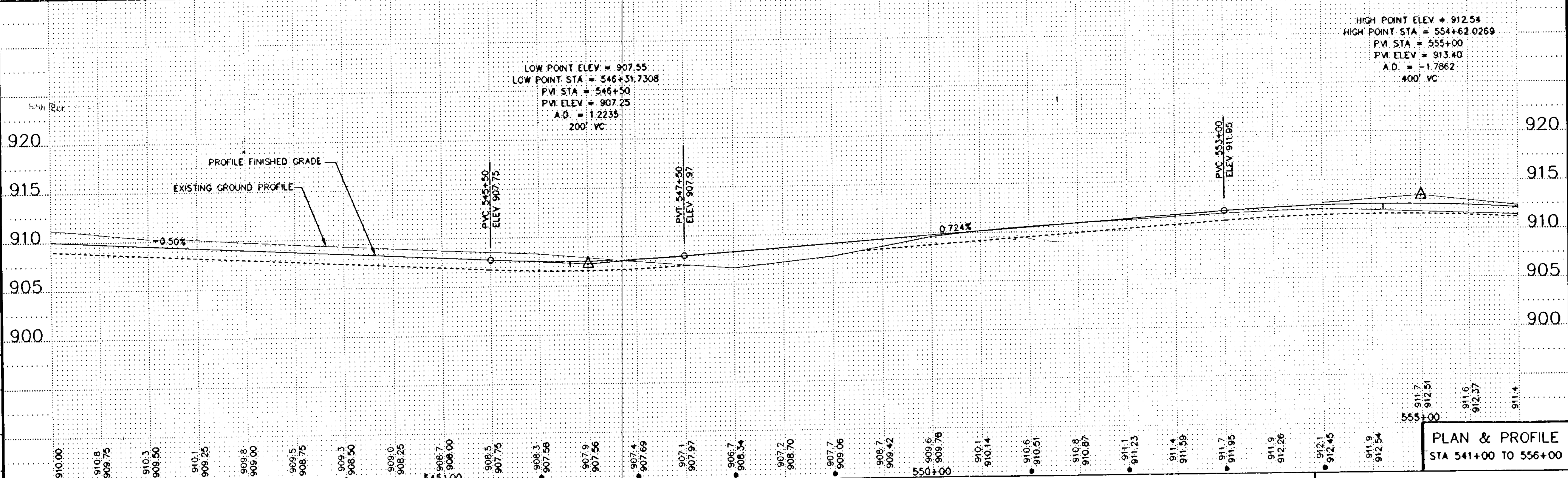
PLAN & PROFILE
 STA 526+00 TO 541+00

B.M. #38 ELEV. 910.07
TOP N.E. COR. BOT STEP #20316
STA. 541+70, 120' LT.

20316



FILE NAME: S:\SDSK\PROJ\940307\DWG\SH4.DWG MN (02-18-97)



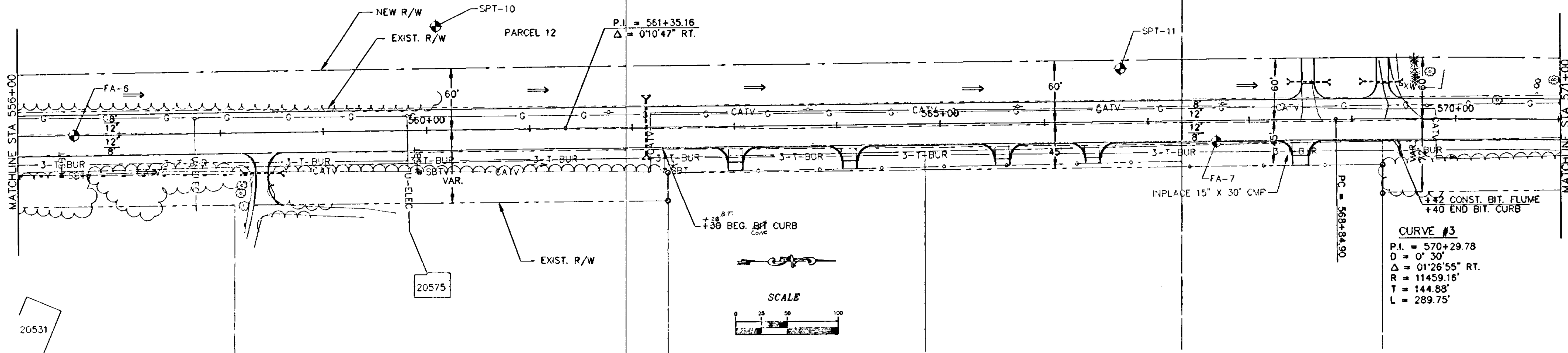
DATE	REVISIONS	BY

PLAN & PROFILE
STA 541+00 TO 556+00

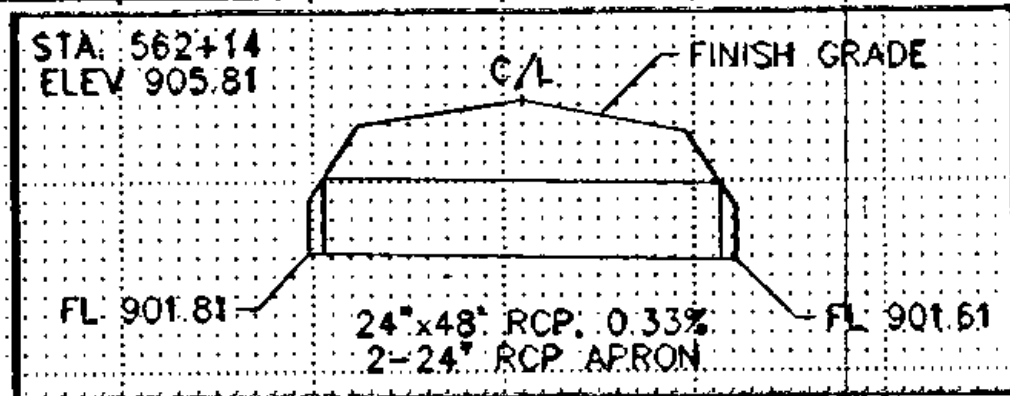
B.M. # 39 ELEV. 905.52
R.R. SPIKE IN PP
STA. 559+75. 33' LT.

B.M. #40 ELEV. 904.94
S.W. COR. GRANITE BASE FLAG POLE
STA. 564+50. IN CEMETARY

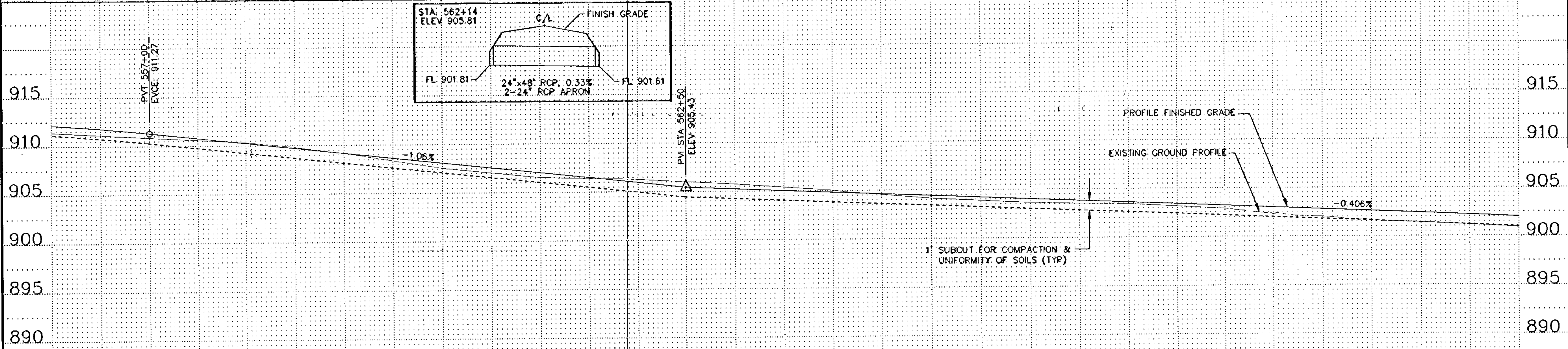
STA. 562+14
F & I. 24" x 48" R.C.P. CULVERT
F & I. 2- 24" R.C.P. APRONS



CURVE #3
P.I. = 570+29.78
D = 0' 30"
Δ = 01°26'55" RT.
R = 11459.16'
T = 144.88'
L = 289.75'



FILE NAME: S:\SDSK\PROJ\DWG\940307\SH05.DWG MN. (02-18-97)



REVISIONS	DATE	BY

912.11 911.1 911.75 910.8 911.27 910.6 910.74 910.3 910.21 909.8 909.68 909.1 909.15 908.3 908.62 907.5 908.09 907.0 907.56 906.5 907.02 906.4 906.49 906.3 905.96 906.0 905.43 905.7 905.23 905.4 905.02 905.0 904.82 904.5 904.62 904.1 904.41 903.9 904.21 903.6 904.01 903.5 903.81 903.4 903.60 903.1 903.40 902.9 903.20 902.3 902.99 902.0 902.79 901.6 902.59

560+00 565+00 570+00

901.4 902.38 901.1 902.18 900.9

PLAN & PROFILE
STA 556+00 TO 571+00

CERTIFIED BY *Richard J. ...* P. E. REG NO. 22235 2/21 19 97 S. P. S. A. P. C. P. 94-03-07 Sheet No. 28 of 67 Sheets

B.M. #41 ELEV. 902.80
S.W. COR. CONC. SLAB #20746
STA. 571+60, 120' LT.

B.M. #42 ELEV. 899.75
R.R. SPIKE IN P.P.
STA. 575+80, 33' LT.

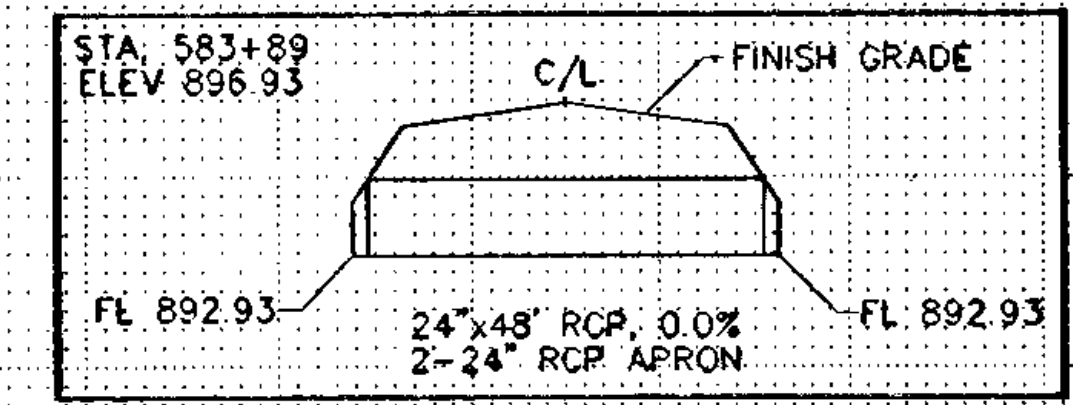
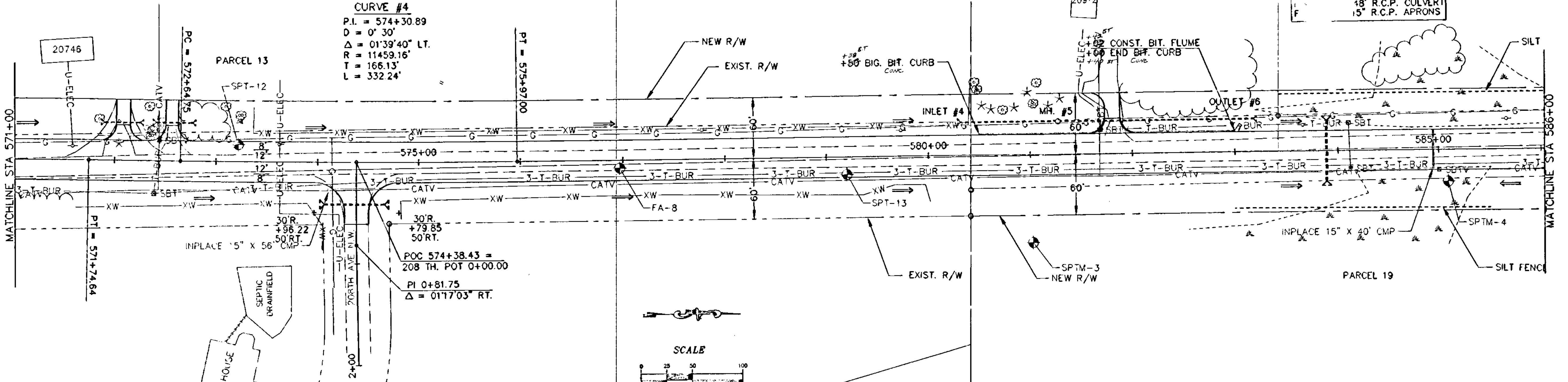
B.M. #43 ELEV. 901.98
R.R. SPIKE IN TRIPLE 18" OAK
STA. 580+50, 100' LT.

B.M. #44 ELEV. 896.58
R.R. SPIKE IN 8" POPIAR
STA. 584+94, 125' LT.

STA. 583+89
P.C.M.C. CULVERT
18" R.C.P. CULVERT
15" R.C.P. APRONS

CURVE #4
P.I. = 574+30.89
D = 0' 30"
Δ = 01°39'40" LT.
R = 11459.16'
T = 166.13'
L = 332.24'

POC 574+38.43 =
208 TH. POT 0+00.00
PI 0+81.75
Δ = 01°17'03" RT.

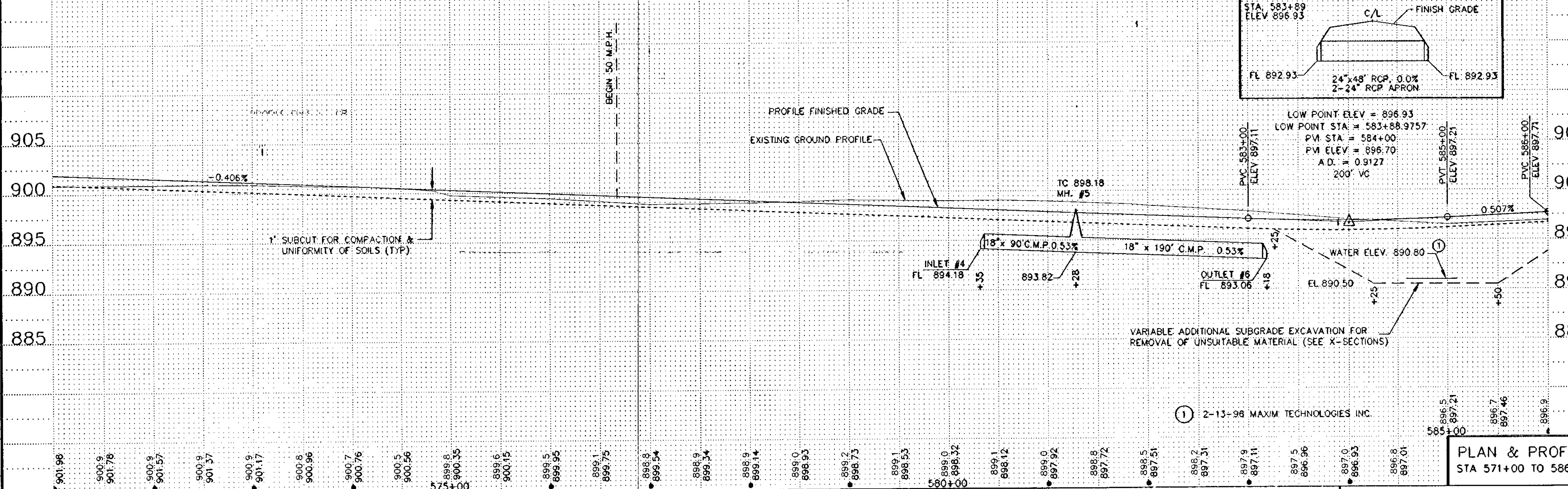


STA. 583+89
ELEV. 896.93
C/L FINISH GRADE
FL 892.93
24"x48" RCP, 0.0%
2-24" RCP APRON
FL 892.93

LOW POINT ELEV = 896.93
LOW POINT STA = 583+88.9757
P.V. STA = 584+00
P.V. ELEV = 896.70
A.D. = 0.9127
200' VC

INLET #4
FL 894.18
18" x 90" C.M.P. 0.53%
893.82
+28
18" x 190" C.M.P. 0.53%
OUTLET #6
FL 893.06
+18
WATER ELEV. 890.80
EL. 890.50
+25
+50
VARIABLE ADDITIONAL SUBGRADE EXCAVATION FOR
REMOVAL OF UNSUITABLE MATERIAL (SEE X-SECTIONS)

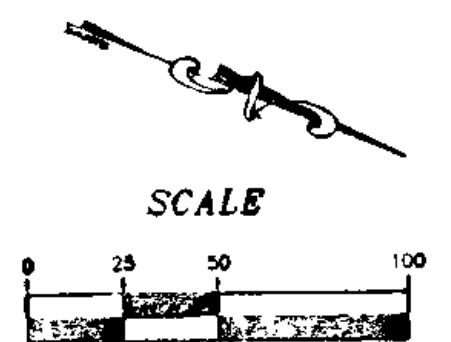
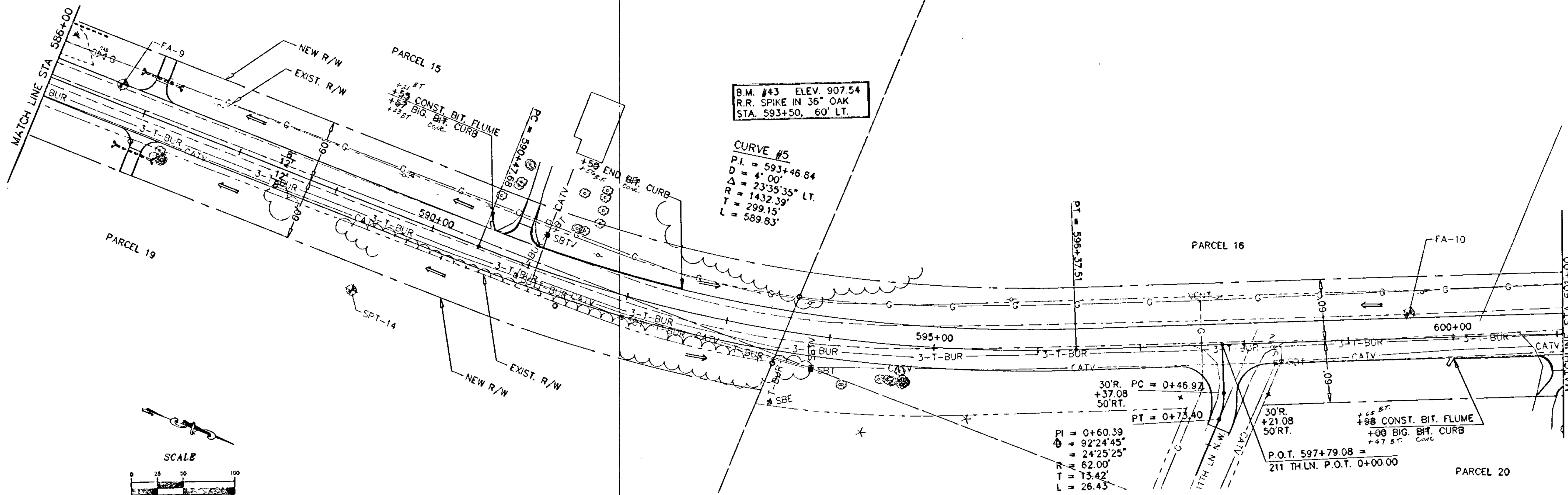
① 2-13-96 MAXIM TECHNOLOGIES INC.
585+00
896.5
897.21
896.7
897.46
896.9



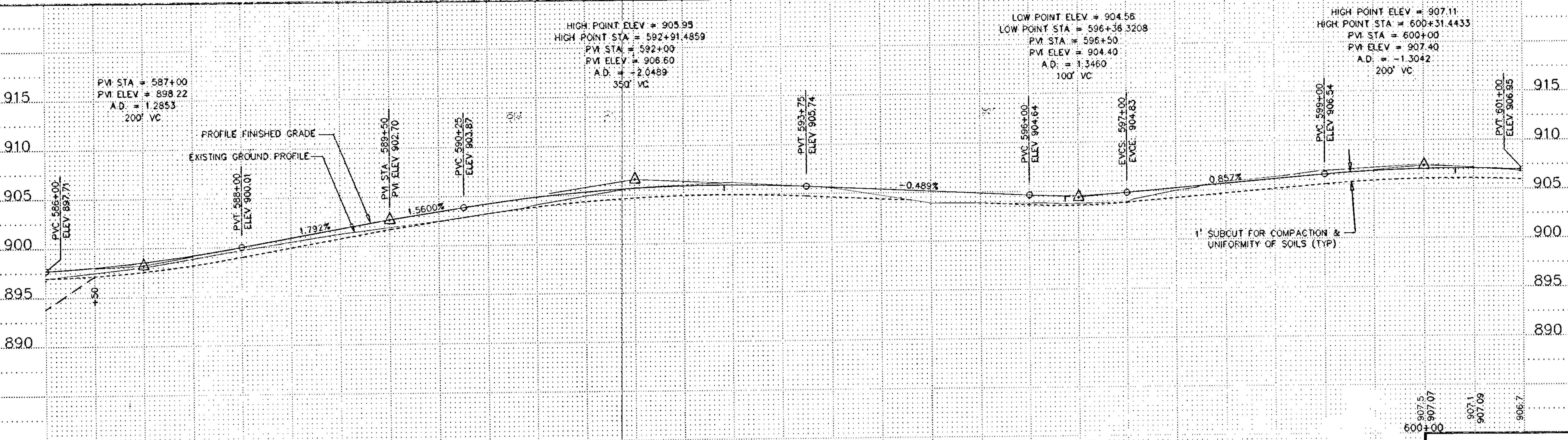
PLAN & PROFILE
STA 571+00 TO 586+00

DATE	REVISIONS	BY

FILE NAME: S:\SDSK\PROJ\DWG\940307\SH06.DWG MIN. (02-18-97)



FILE NAME: S:\SDSKPBO\940307\DWG\SH07.DWG.MN (02-18-97)



REVISIONS	DATE	BY

B.M. # 48 ELEV. 909.55
R.R. SPIKE IN 42" OAK
STA. 615+25, 65' LT.

B.M. #46 ELEV. 912.06
S.W. COR. BOT. STEP #21209
STA. 602+00, 140' RT.

P.I. = 0+30.78
D = 57'17.45"
Δ = 19'02'37"
R = 100.00'
T = 16.77'
L = 33.24'

30'R.
+74.35
50'LT.
P.T. = 0+17.25
SUNSHINE P.O.T. 0+00.00

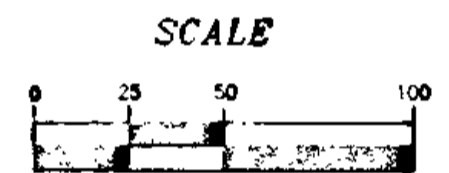
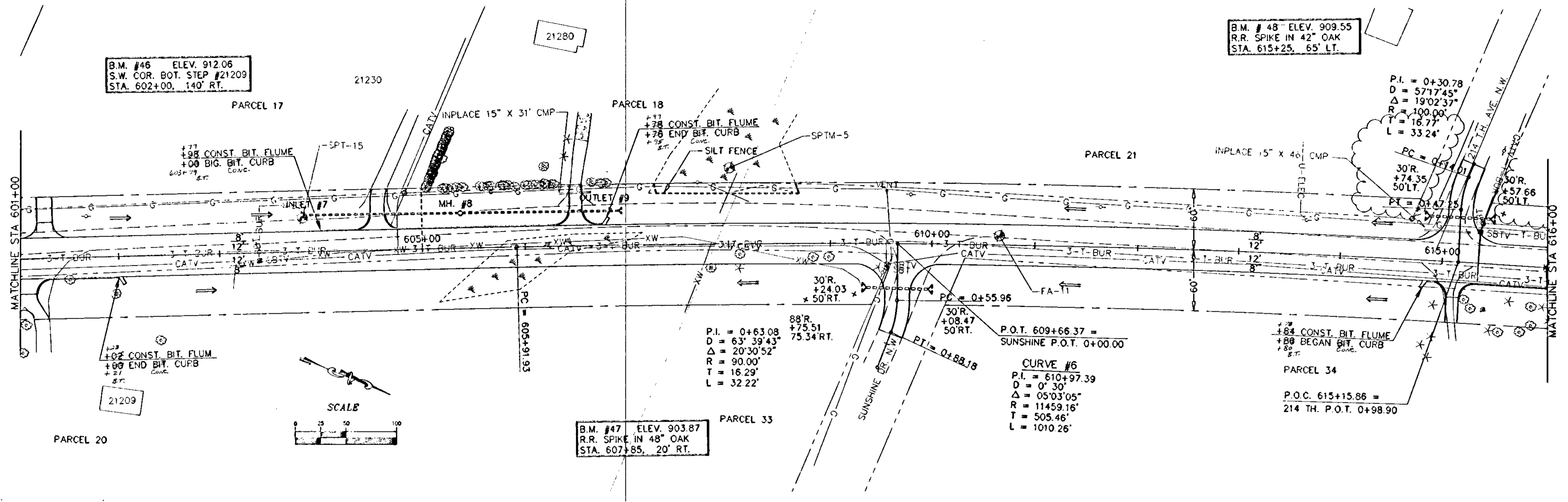
P.I. = 0+63.08
D = 63' 39' 43"
Δ = 20'30'52"
R = 90.00'
T = 16.29'
L = 32.22'

P.O.T. 609+66.37 =
SUNSHINE P.O.T. 0+00.00

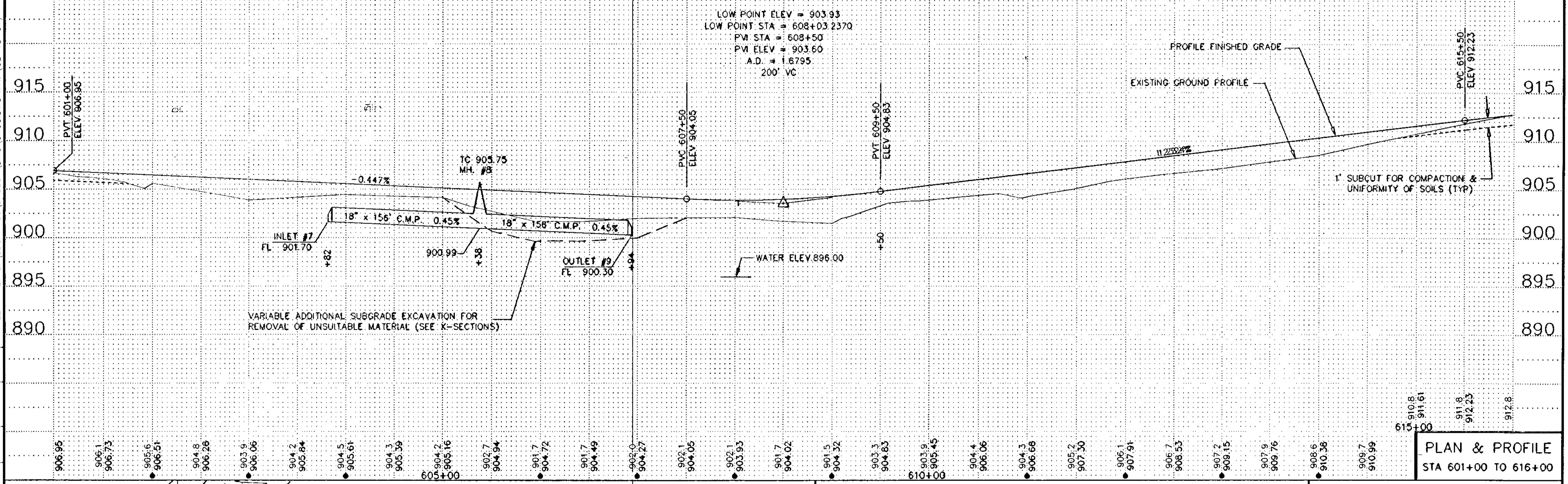
CURVE #6
P.I. = 610+97.39
D = 0' 30"
Δ = 05'03'05"
R = 11459.16'
T = 505.46'
L = 1010.26'

+84 CONST. BIT. FLUME
+88 BEGAN BIT. CURB
+80 S.T.
PARCEL 34
P.O.C. 615+15.86 =
214 TH. P.O.T. 0+98.90

B.M. #47 ELEV. 903.87
R.R. SPIKE IN 48" OAK
STA. 607+85, 20' RT.

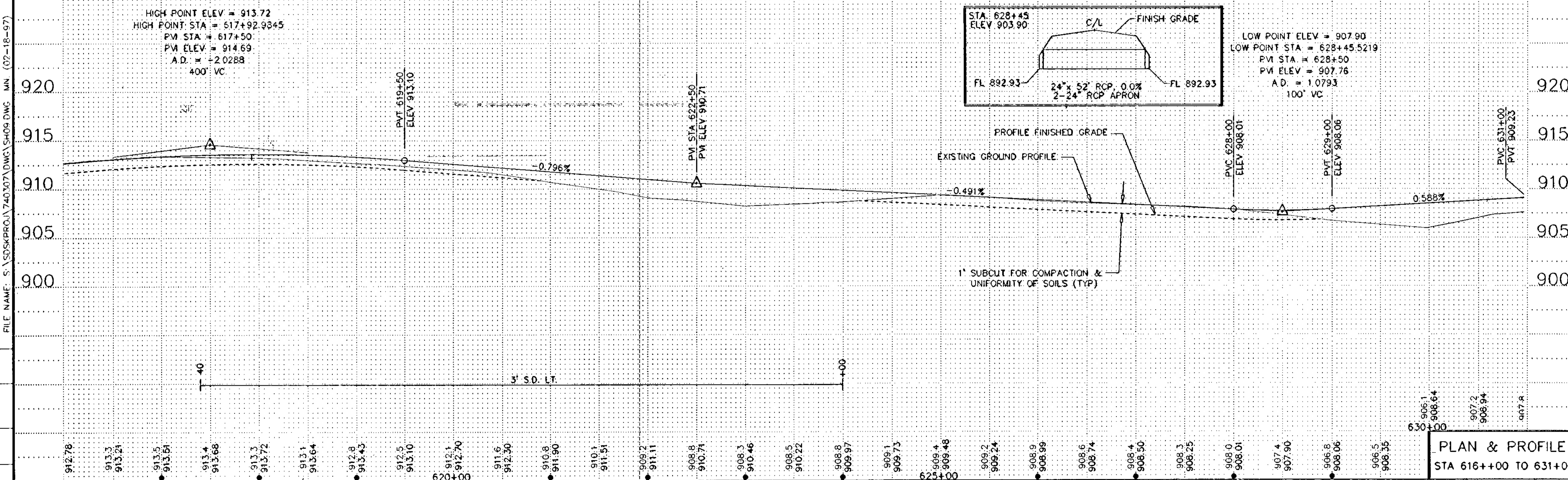
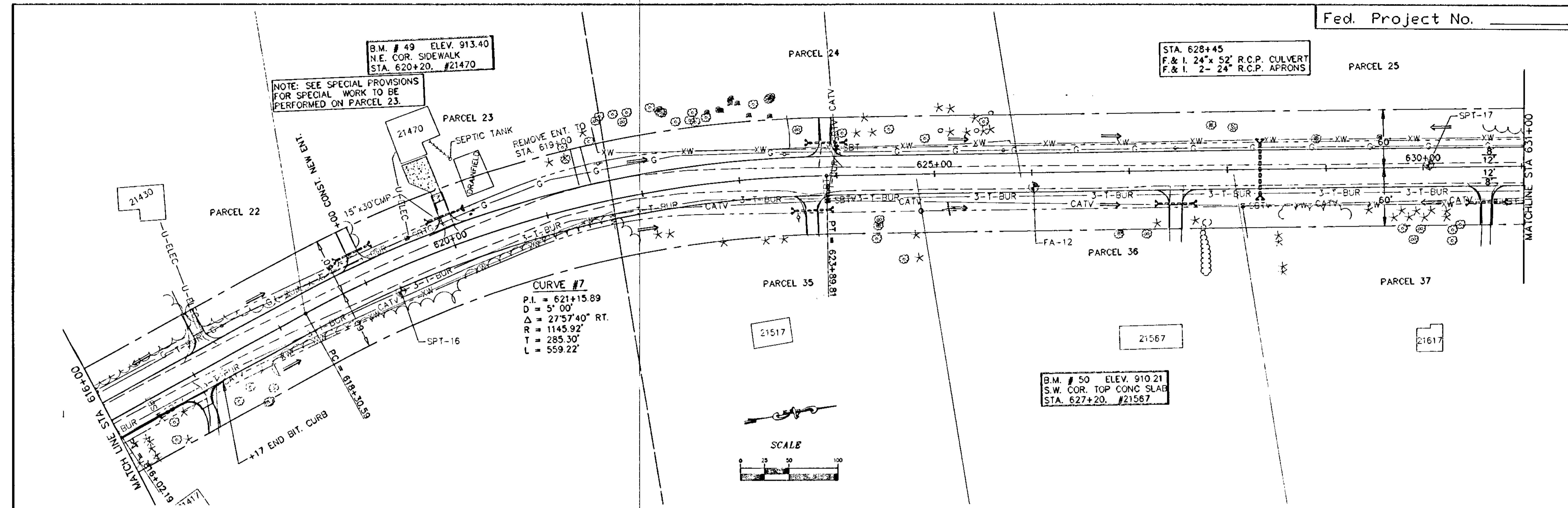


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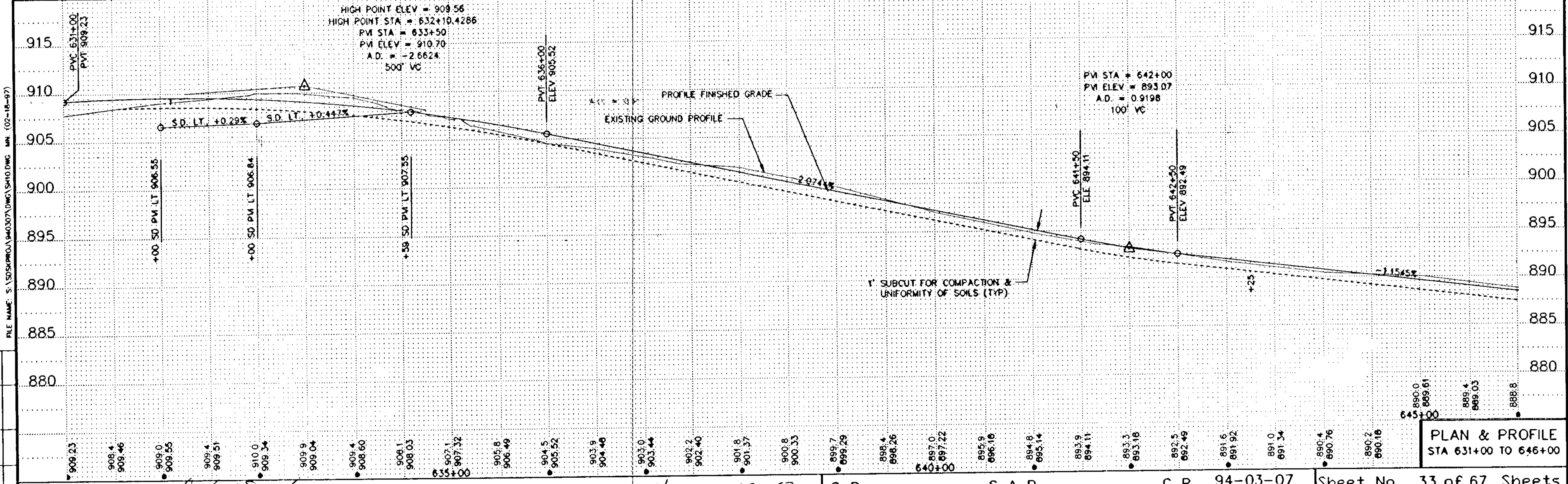
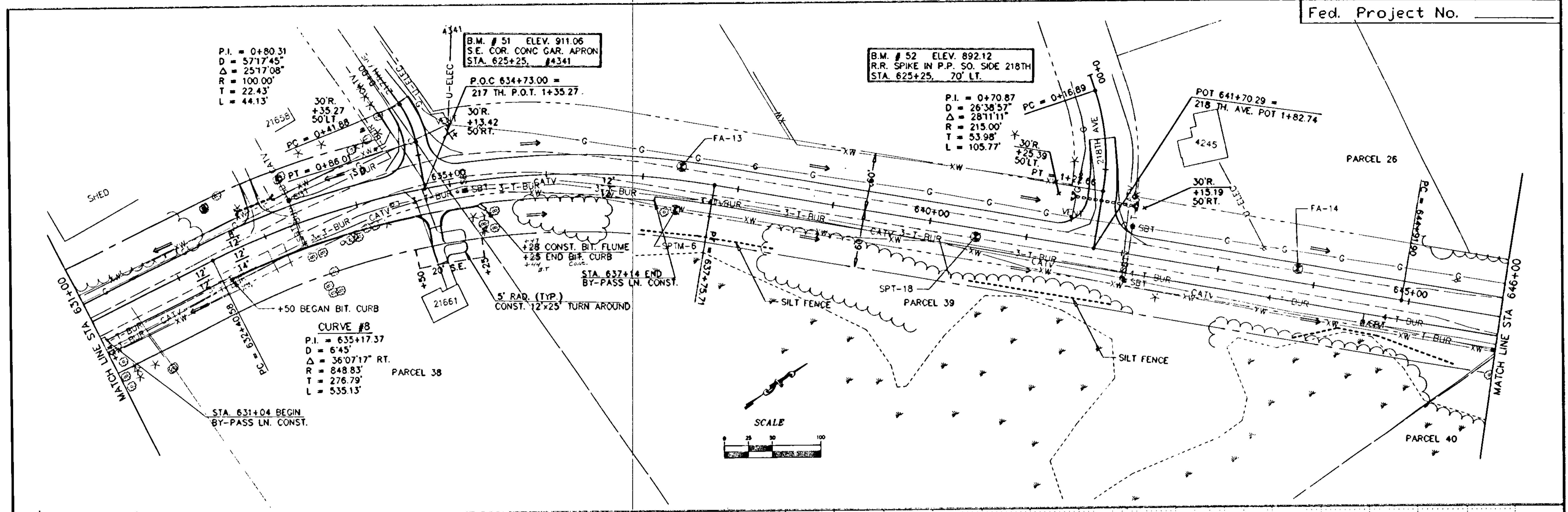


REVISIONS	DATE	BY

PLAN & PROFILE
STA 601+00 TO 616+00



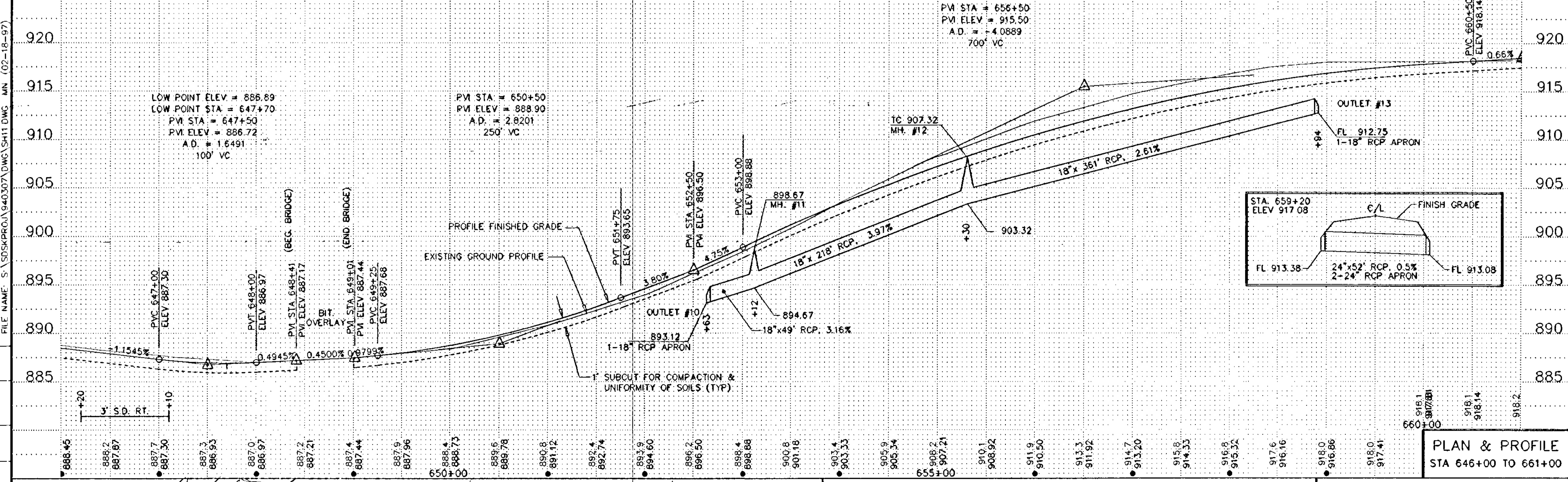
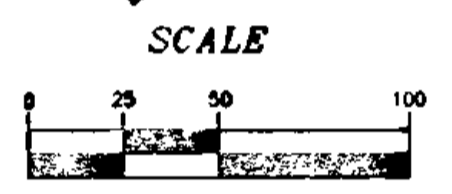
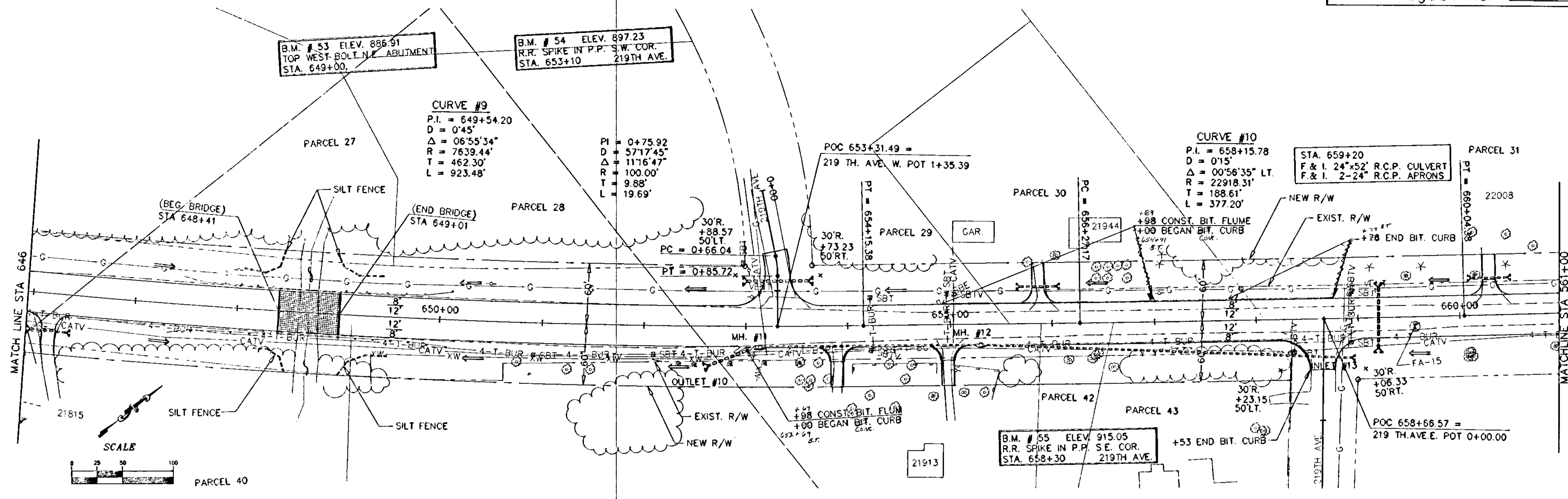
REVISIONS	DATE	BY



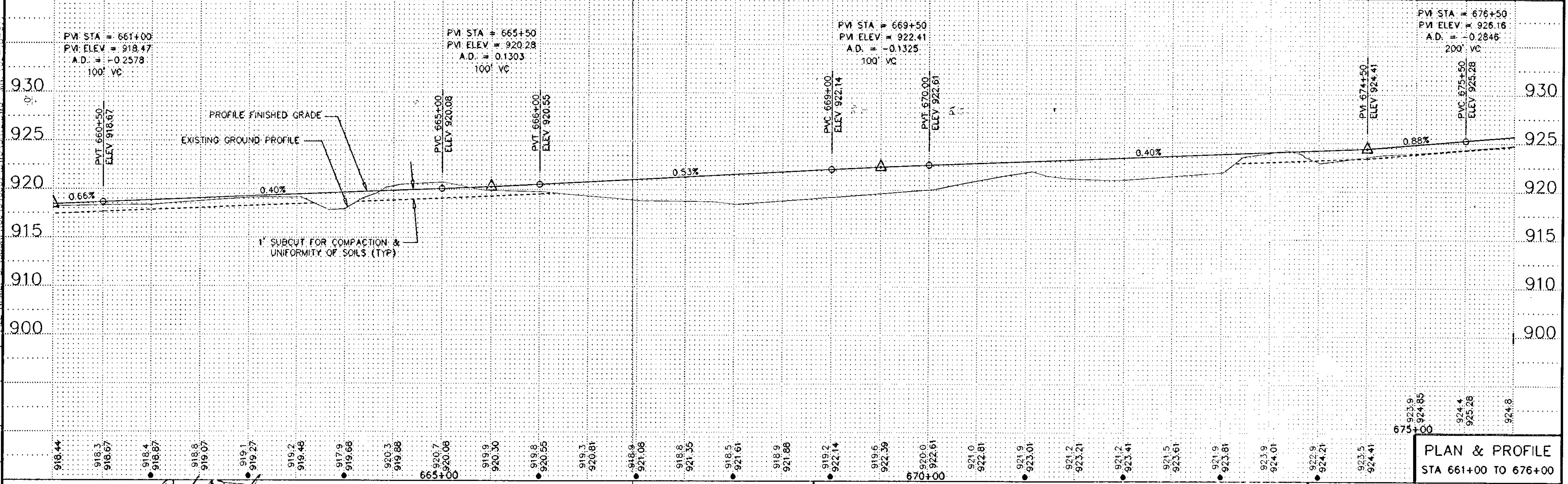
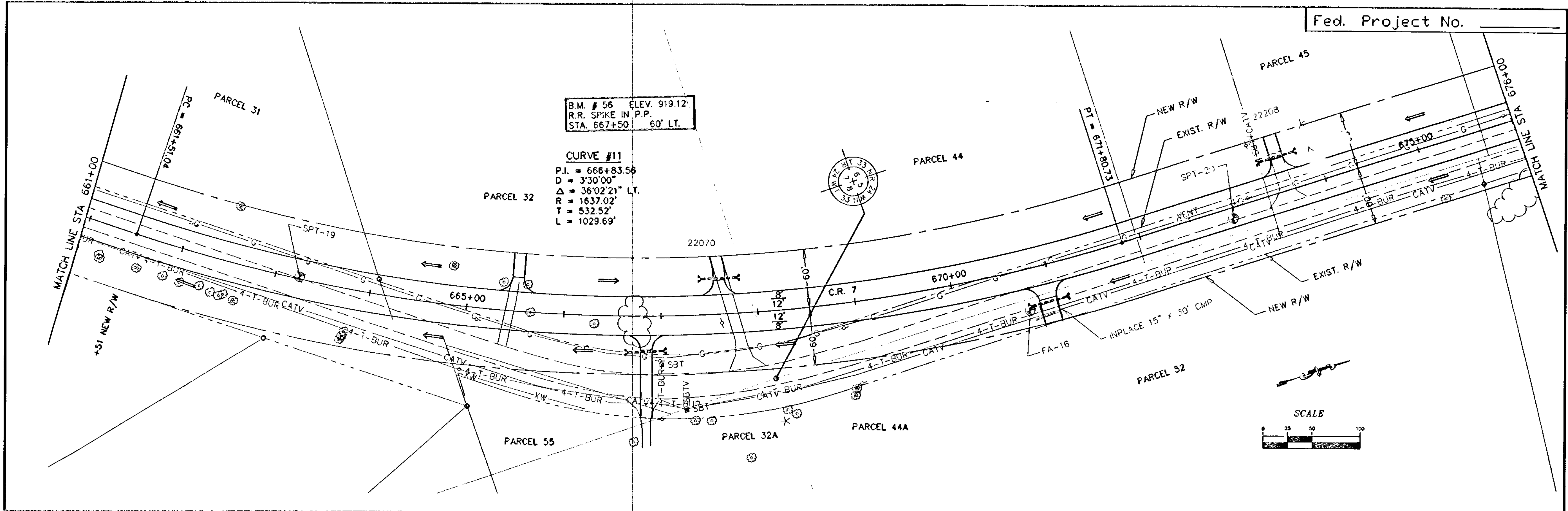
REVISIONS	DATE	BY

FILE NAME: S:\SDS\PROJECTS\940307\DWG\SHA0.DWG, MN (02-18-97)

PLAN & PROFILE
STA 631+00 TO 646+00

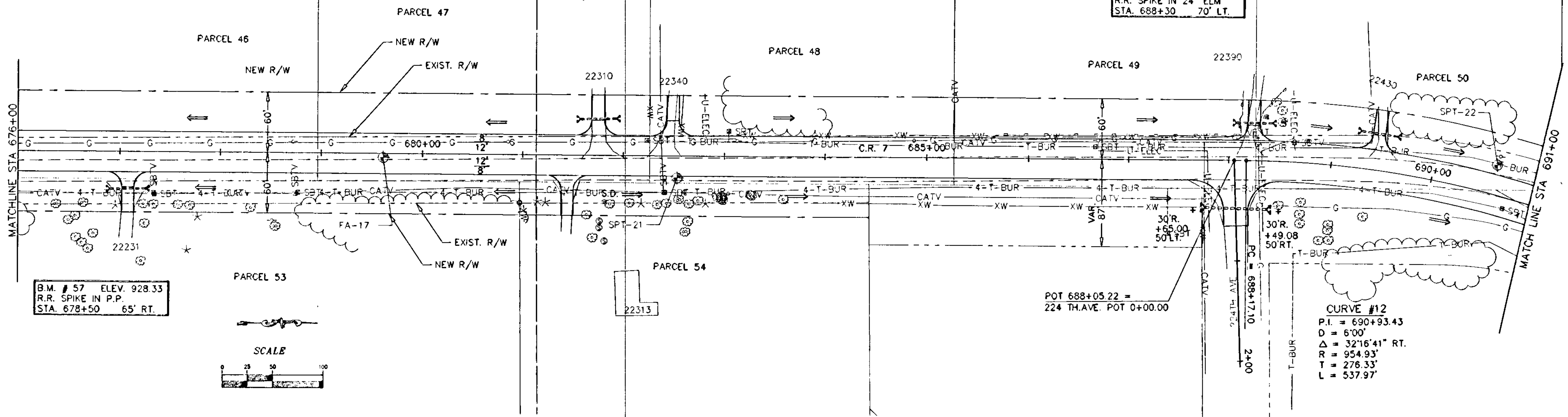


REVISIONS	DATE	BY

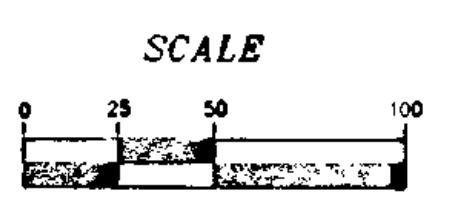


REVISIONS	DATE	BY

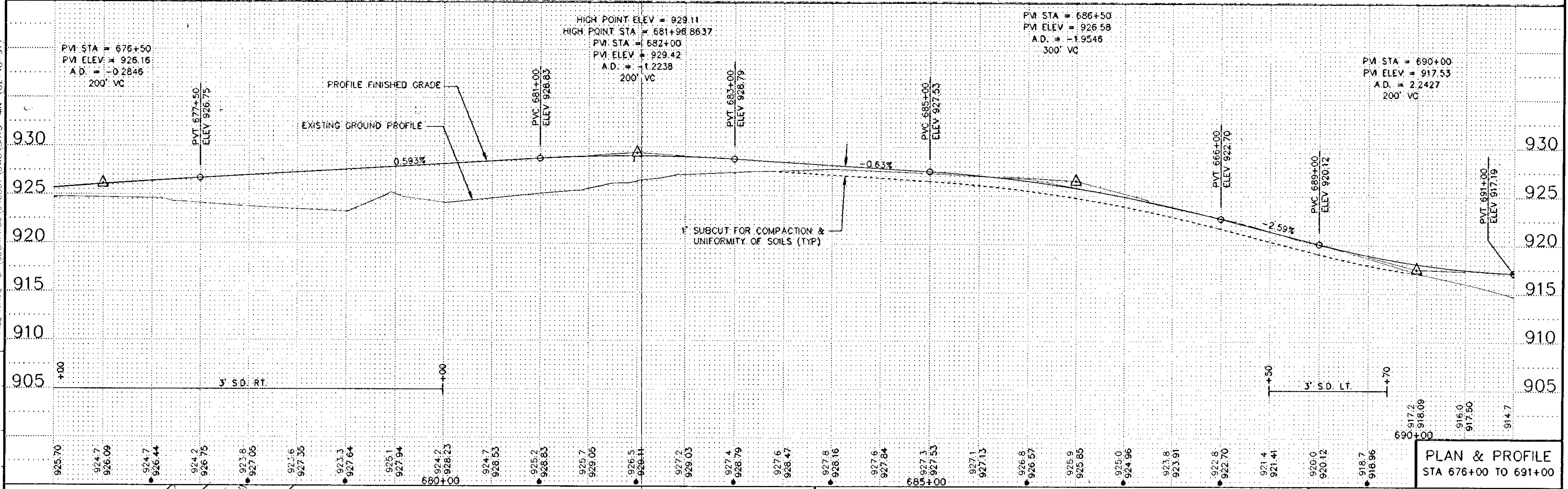
B.M. # 58 ELEV. 921.55
R.R. SPIKE IN 24" ELM
STA. 688+30 70' LT.



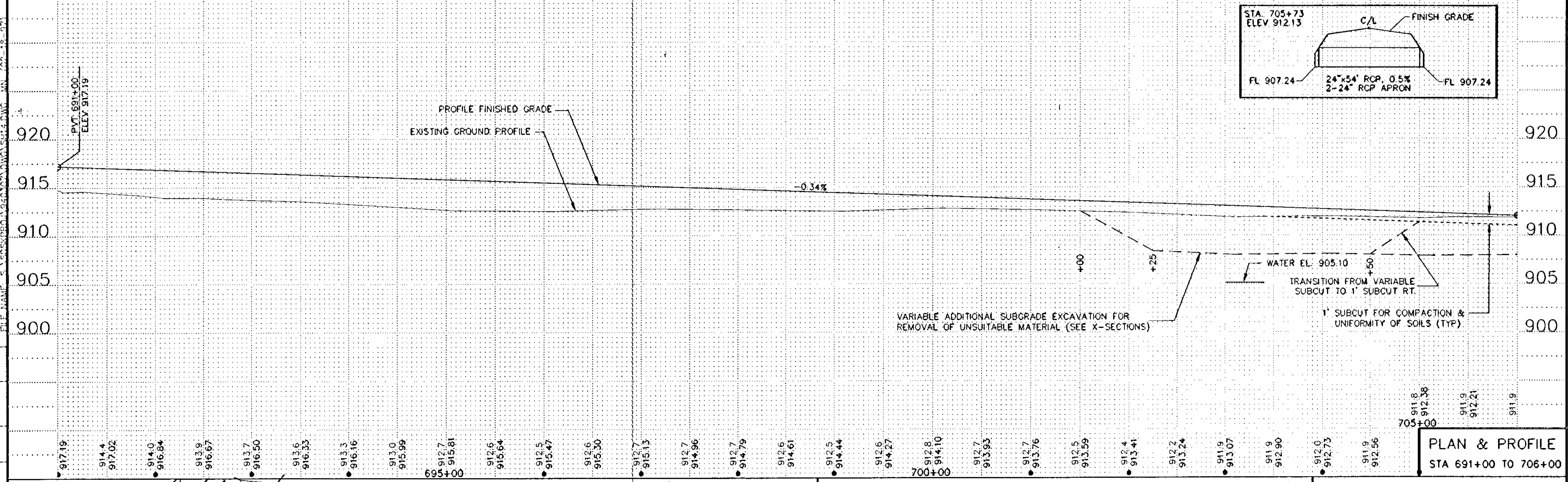
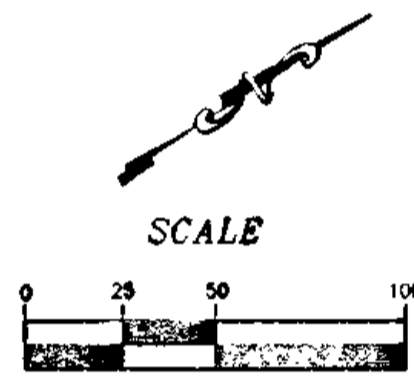
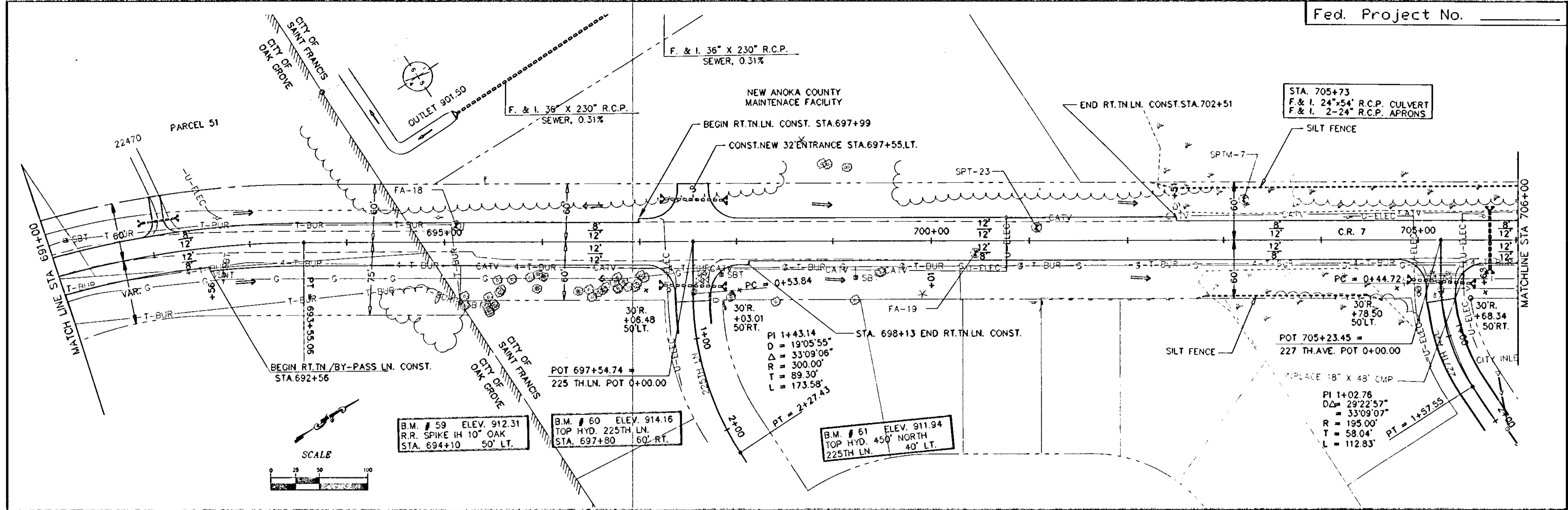
B.M. # 57 ELEV. 928.33
R.R. SPIKE IN P.P.
STA. 678+50 65' RT.



FILE NAME: S:\SDSKPRO\940307\DWG\SH13.MN (02-18-97)

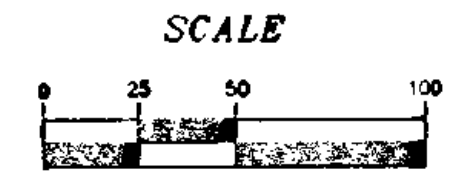
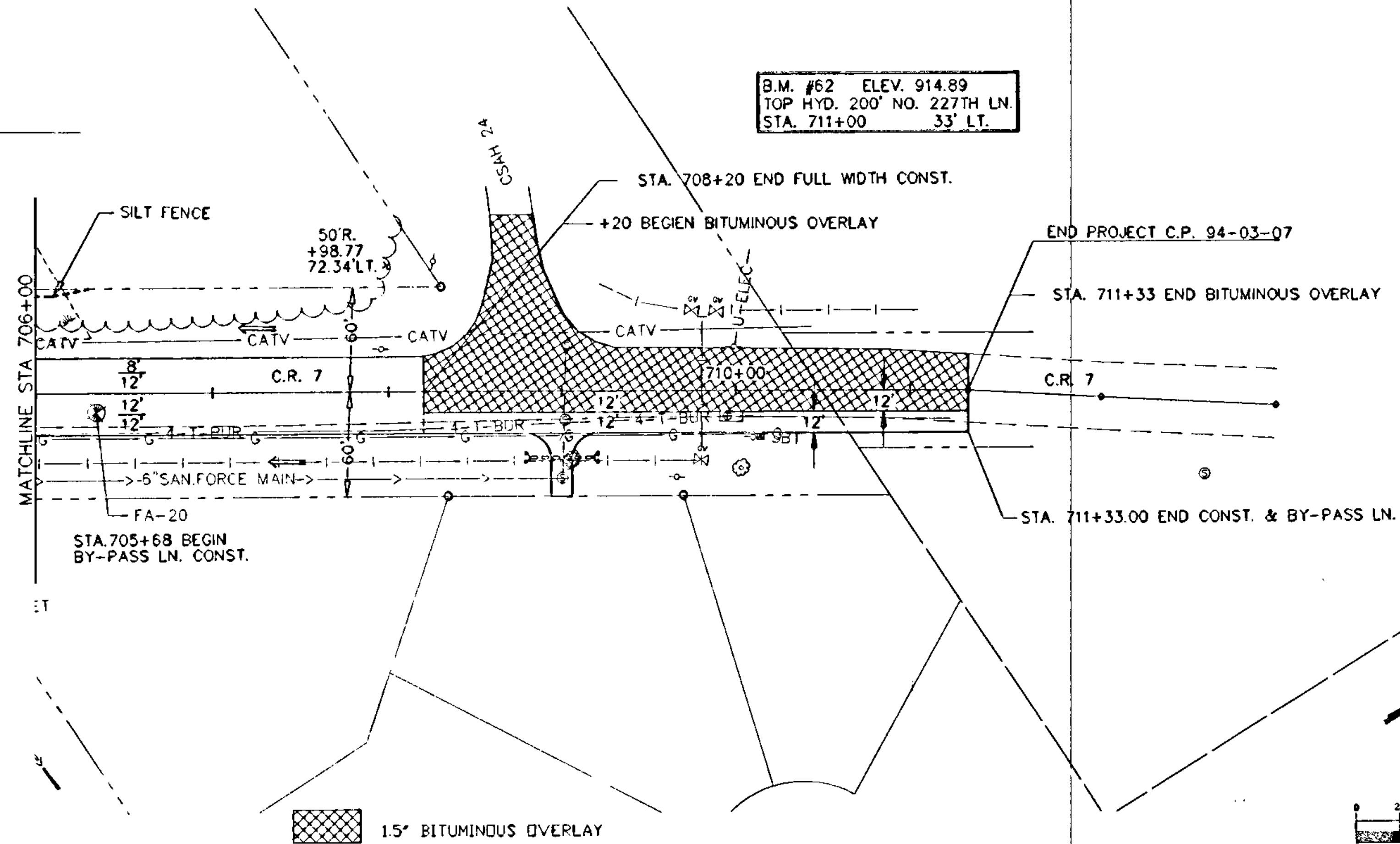


REVISIONS	DATE	BY

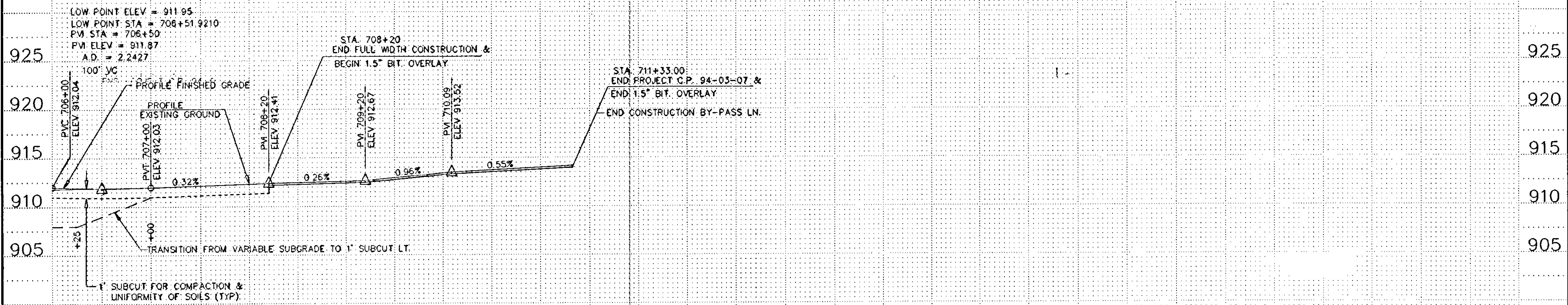


REVISIONS	DATE	BY

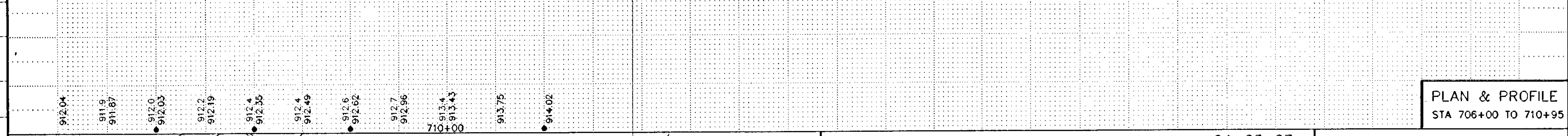
B.M. #62 ELEV. 914.89
 TOP HYD. 200' NO. 227TH LN.
 STA. 711+00 33' LT.



FILE NAME: S:\SDSK\PROJ\940307\DWG\SH15.DWG MN. (02-18-97)



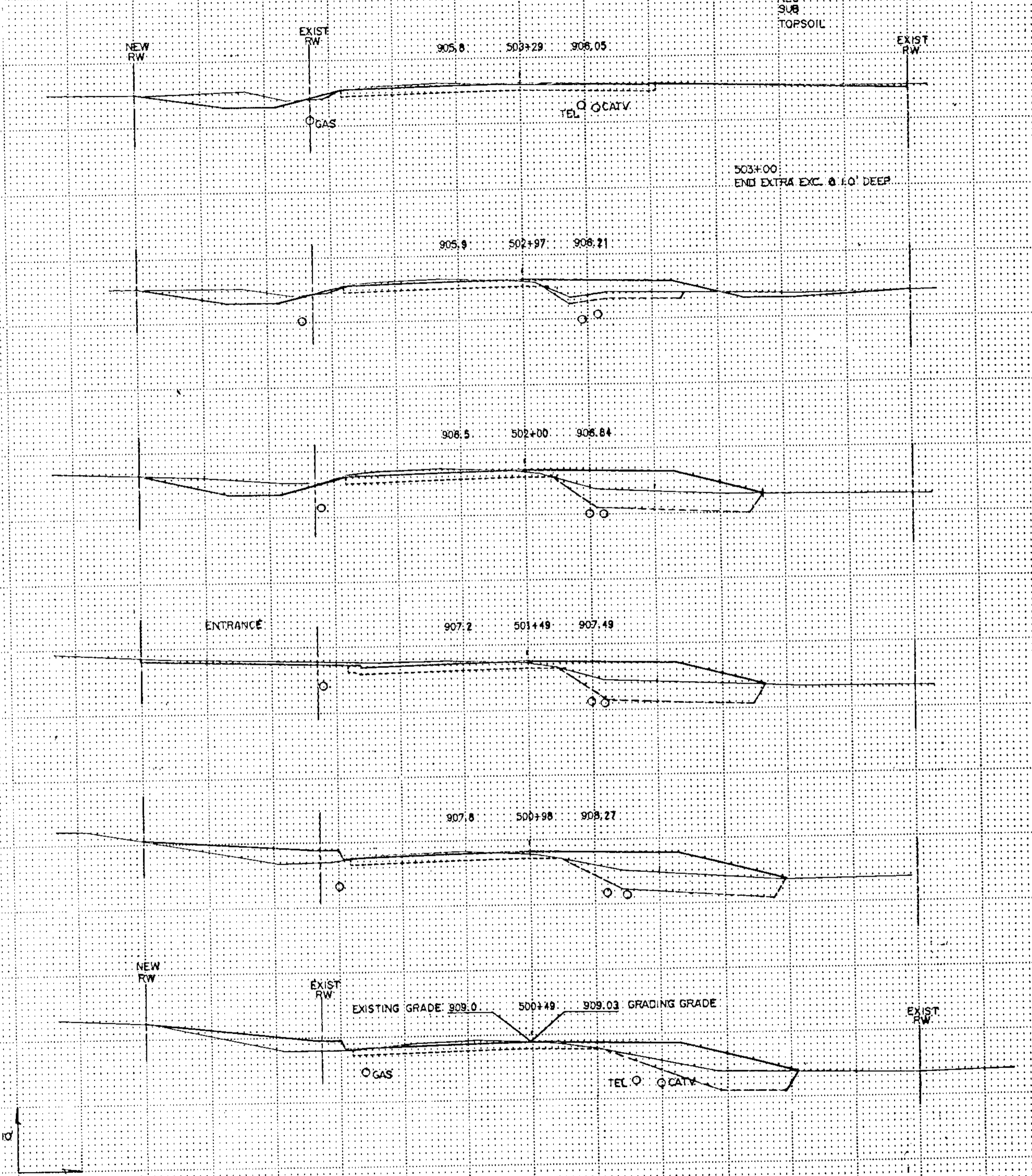
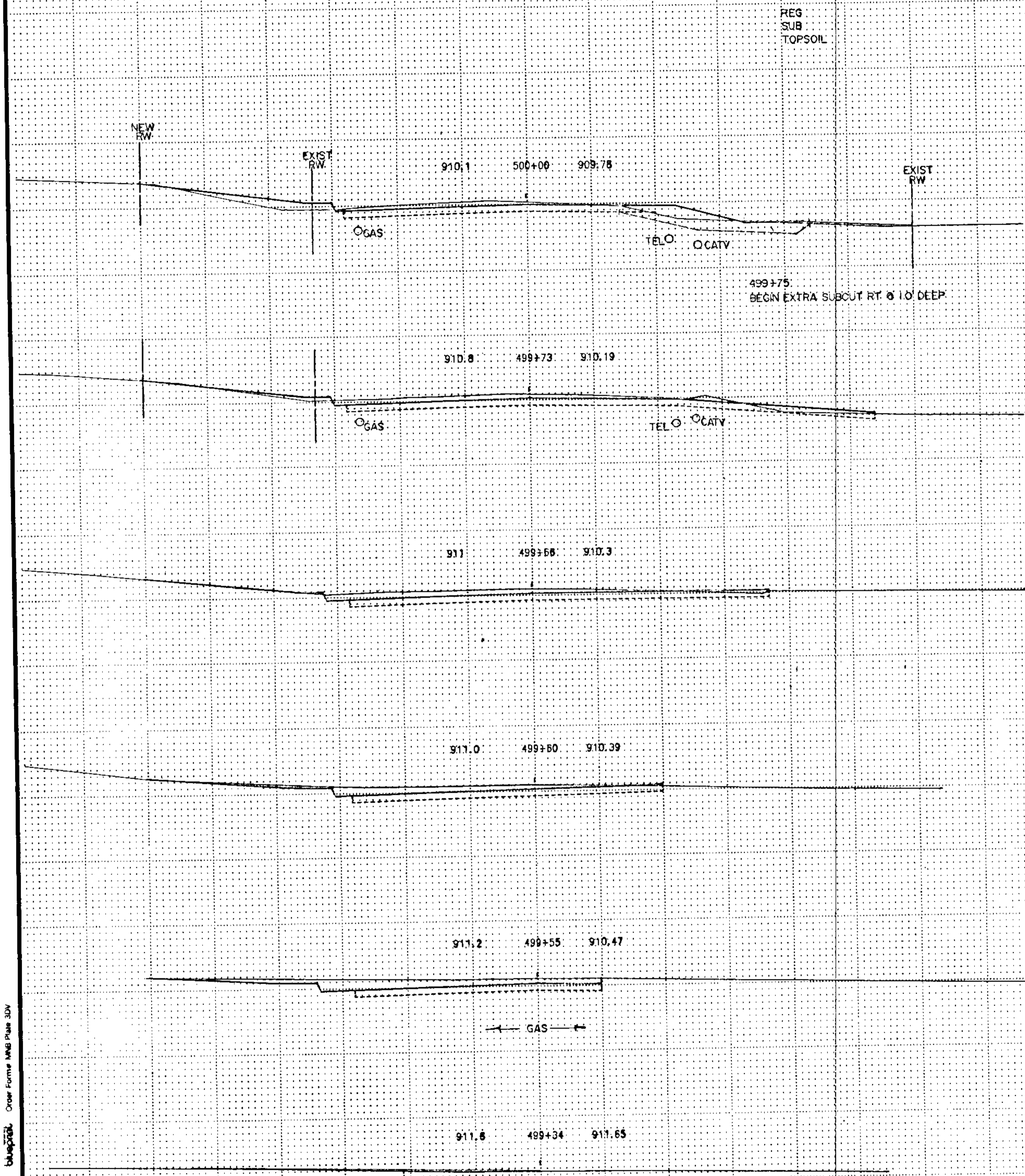
REVISIONS	DATE	BY



PLAN & PROFILE
 STA 706+00 TO 710+95

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL

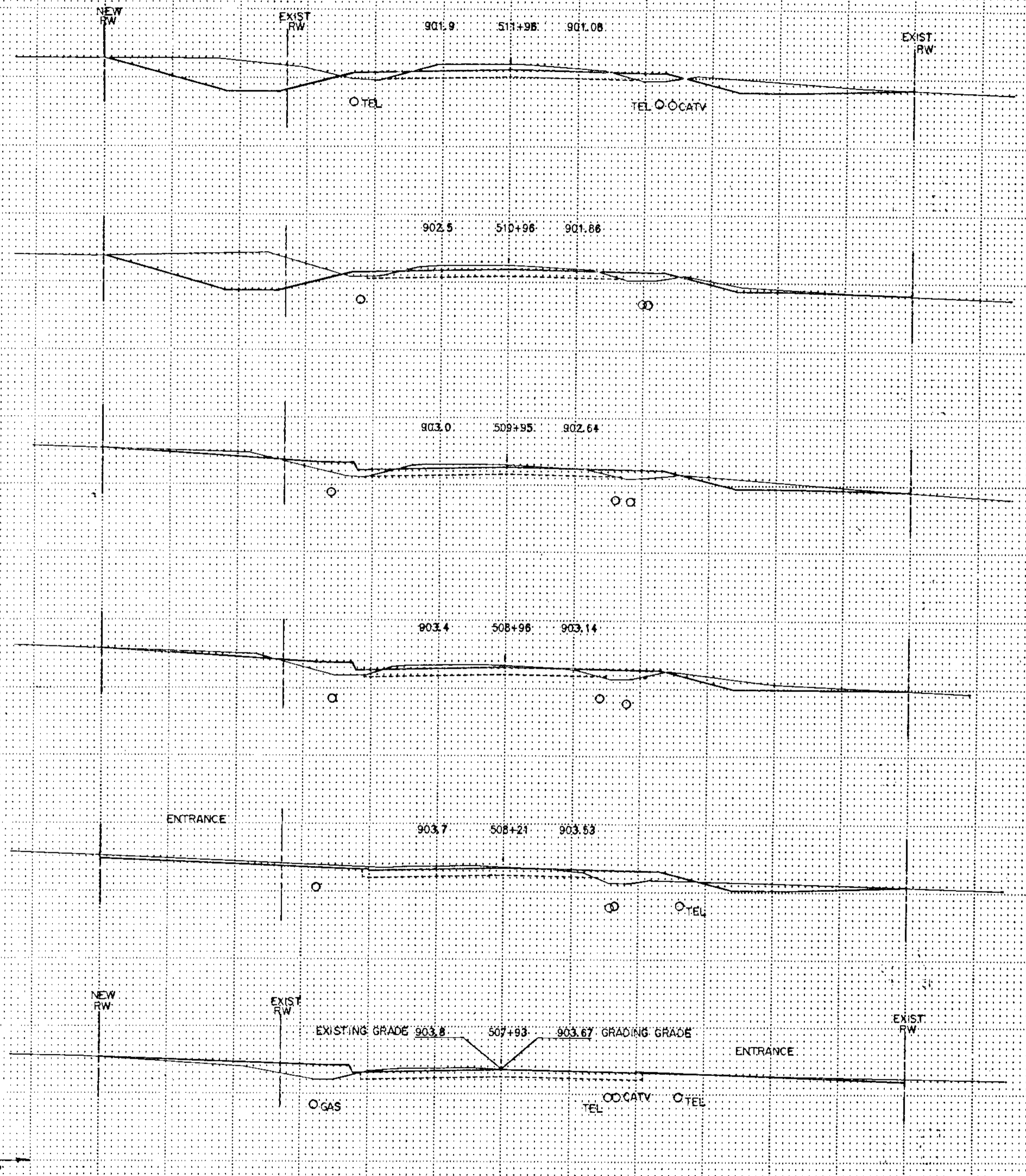
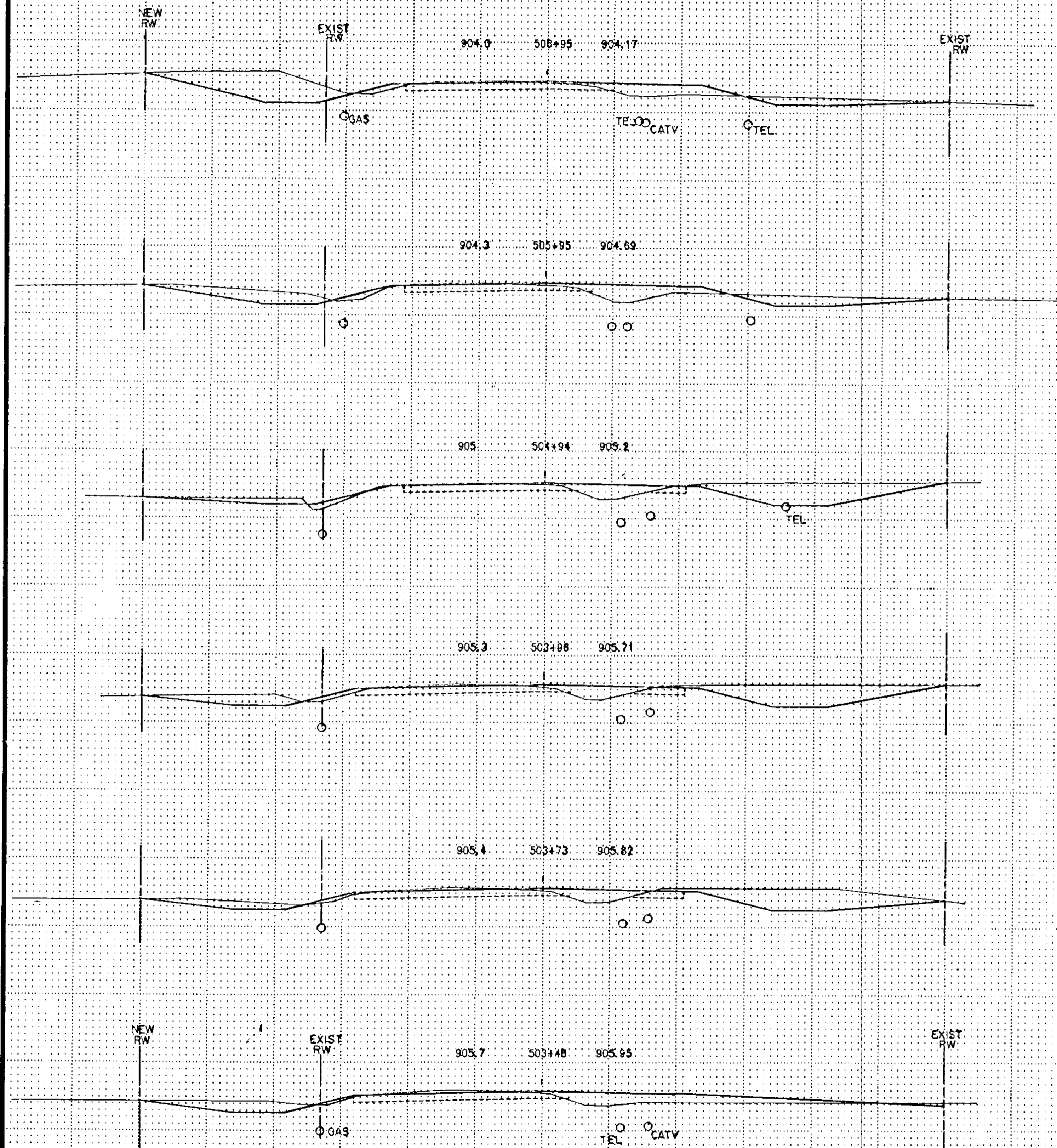
CROSS-SECTIONS
 STA. 499+34 TO STA. 503+29

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG.
SUB.
TOPSOIL

REG.
SUB.
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

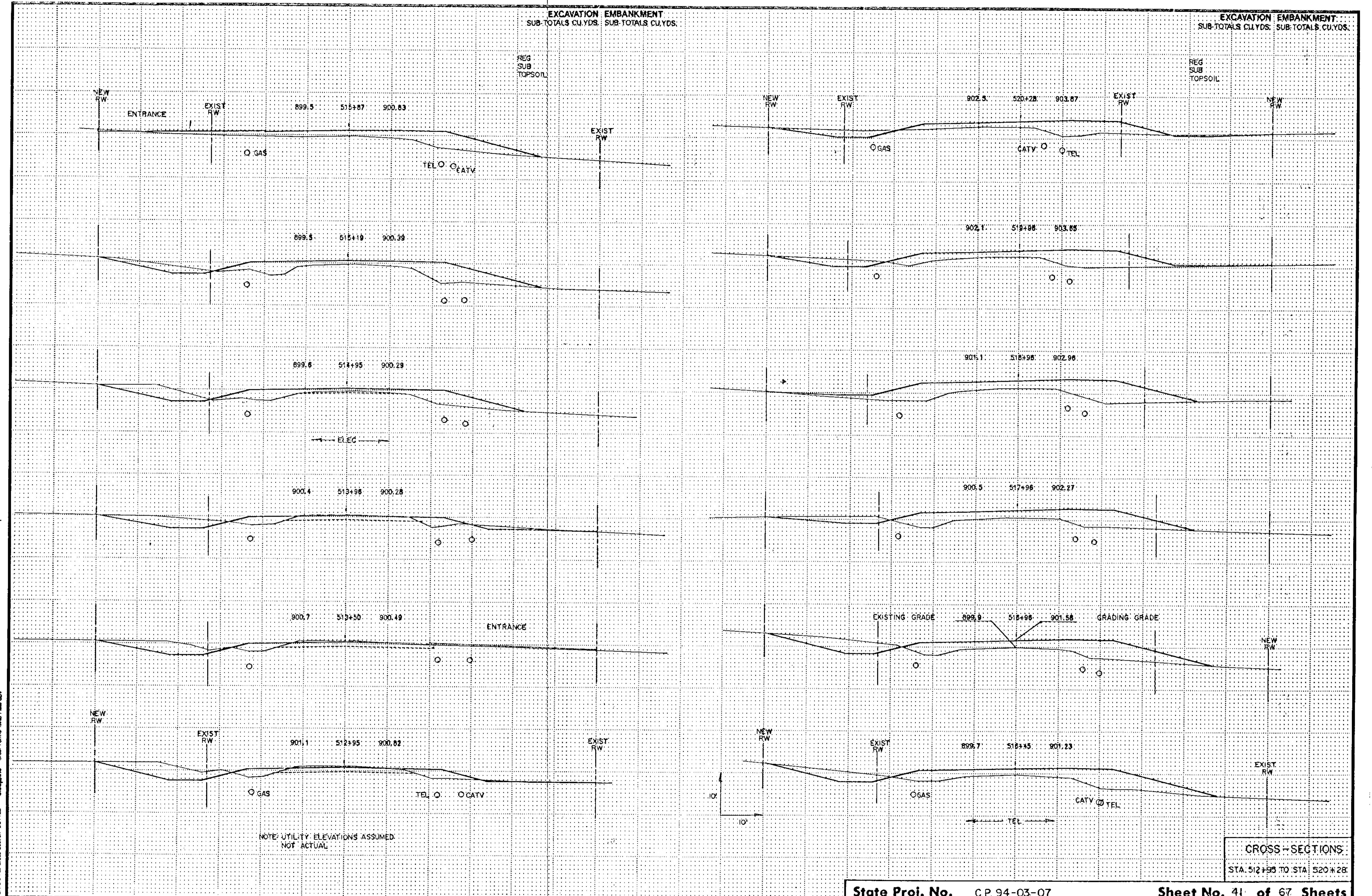
EXISTING GRADE 903.8 507+93 903.67 GRADING GRADE

CROSS-SECTIONS
STA. 503+48 TO STA. 511+95

PLATE 3 Full Cross Section DOTTED Cross Forms With Plate 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED.
NOT ACTUAL.

CROSS-SECTIONS:
STA. 512+95 TO STA. 520+28

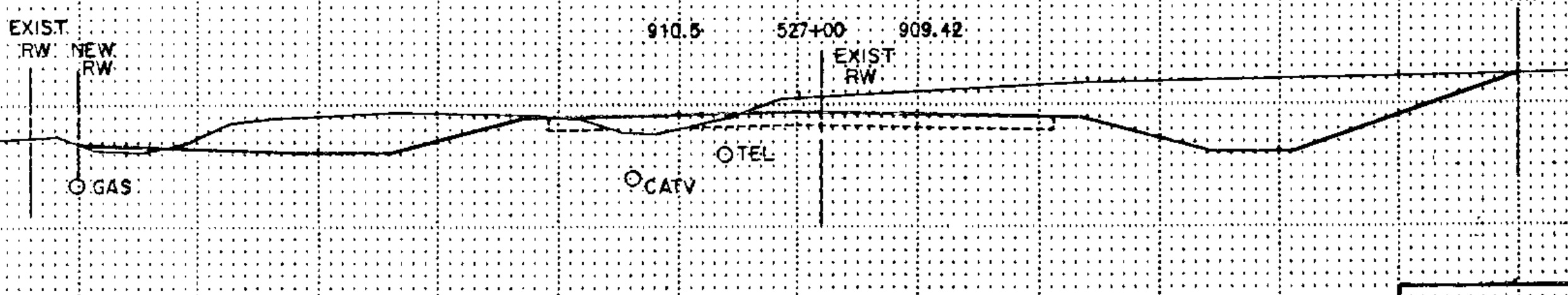
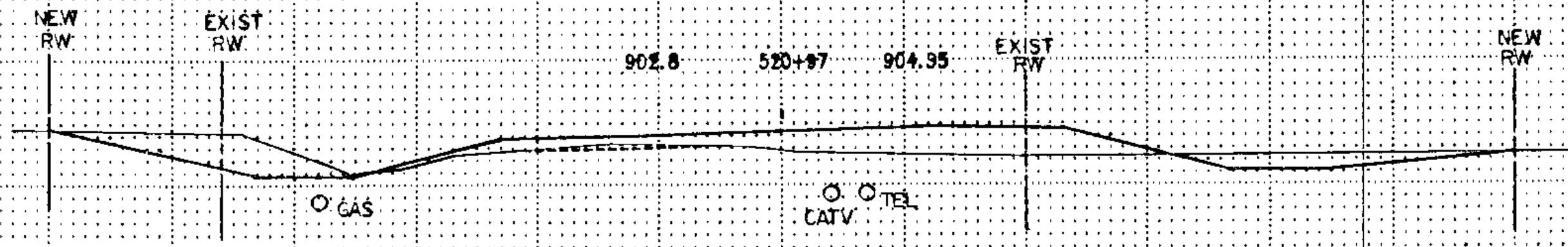
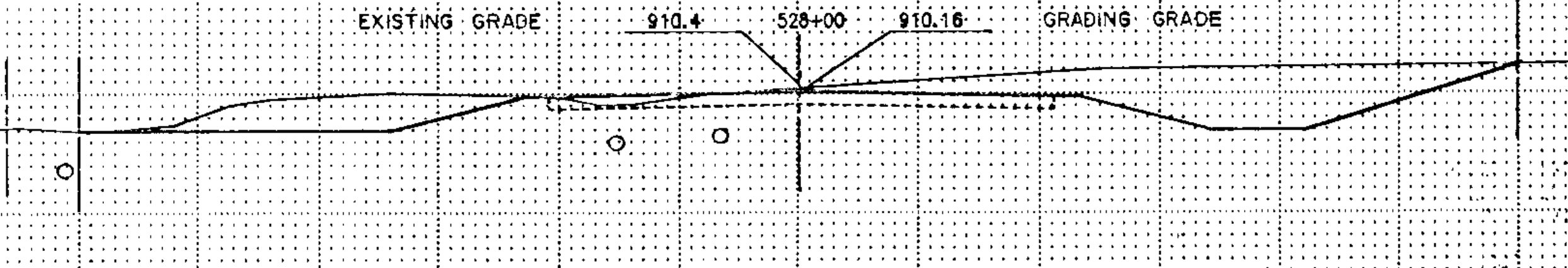
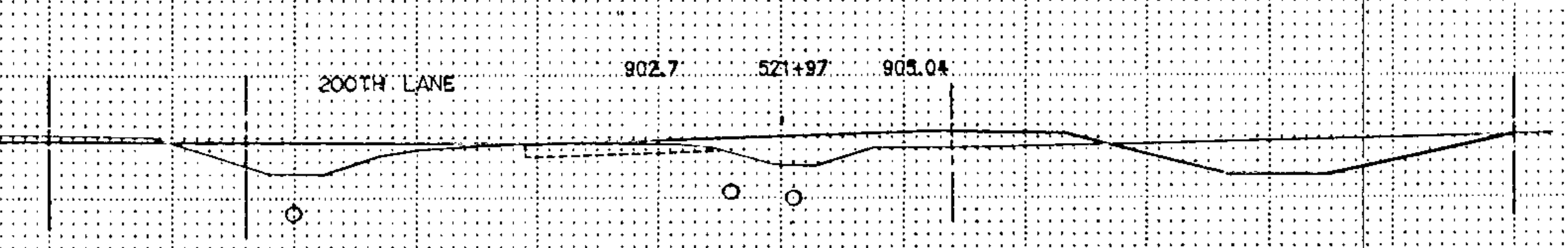
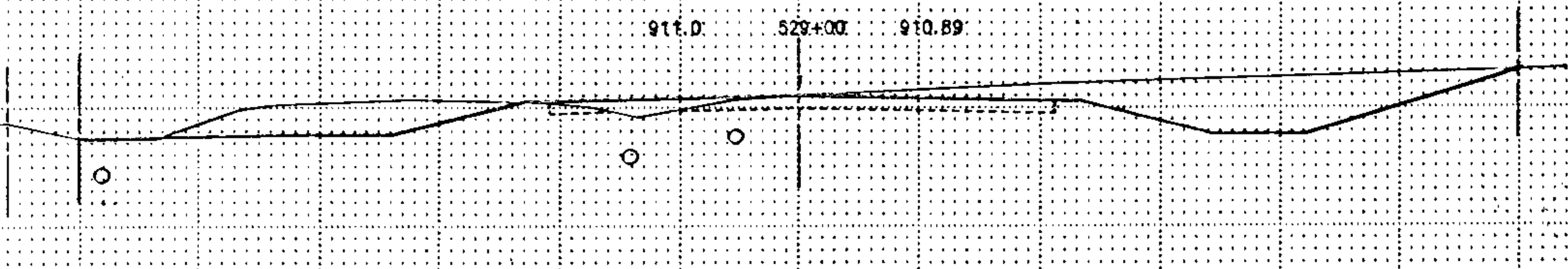
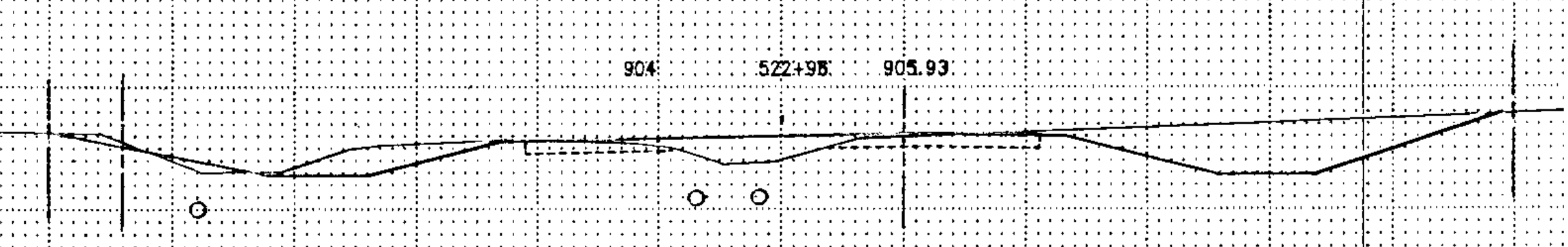
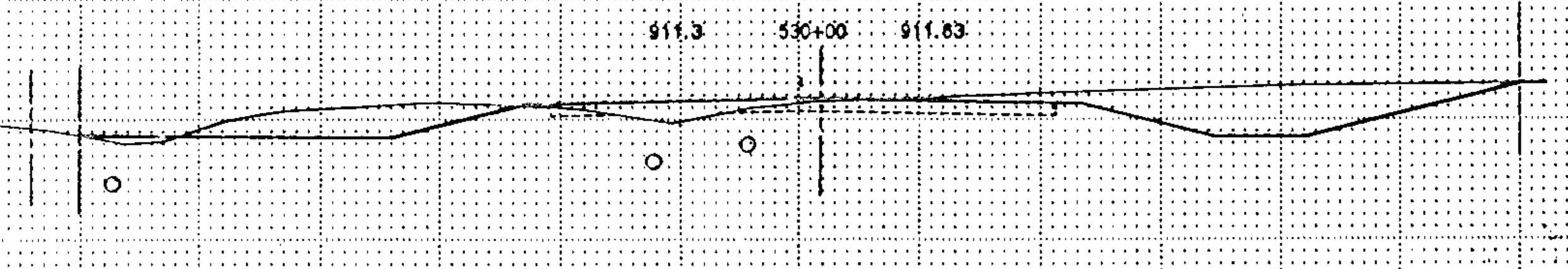
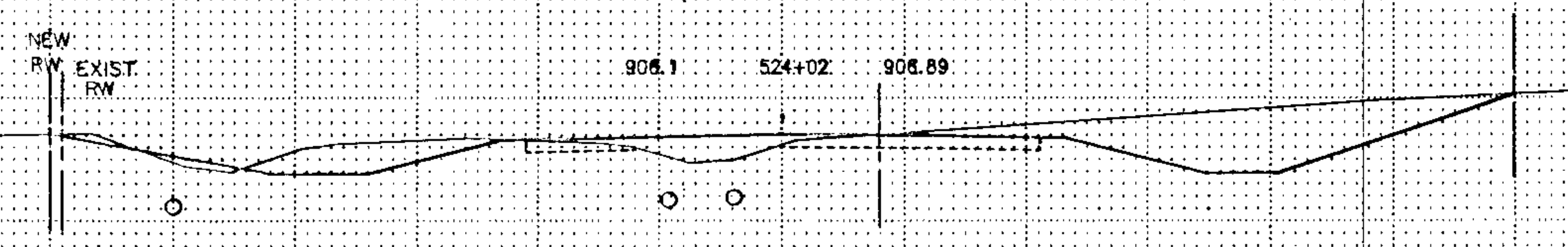
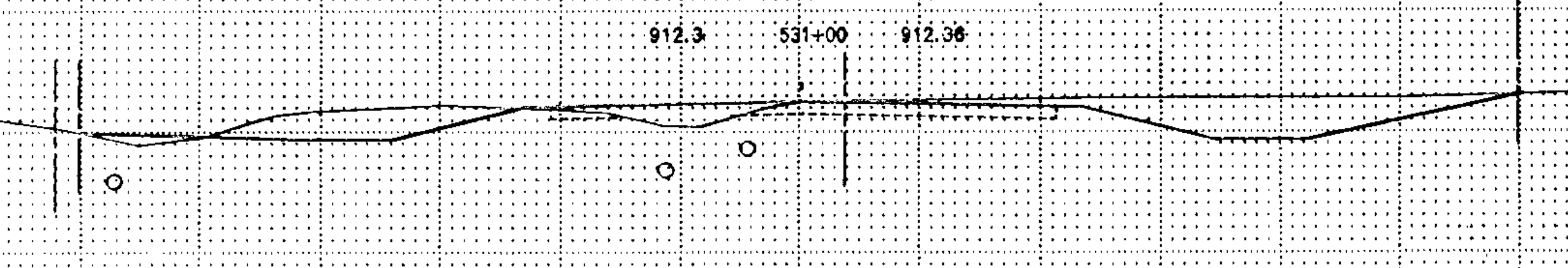
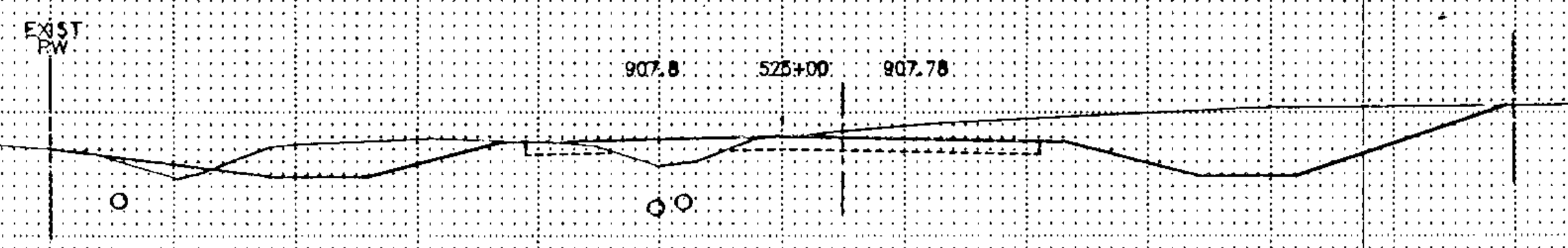
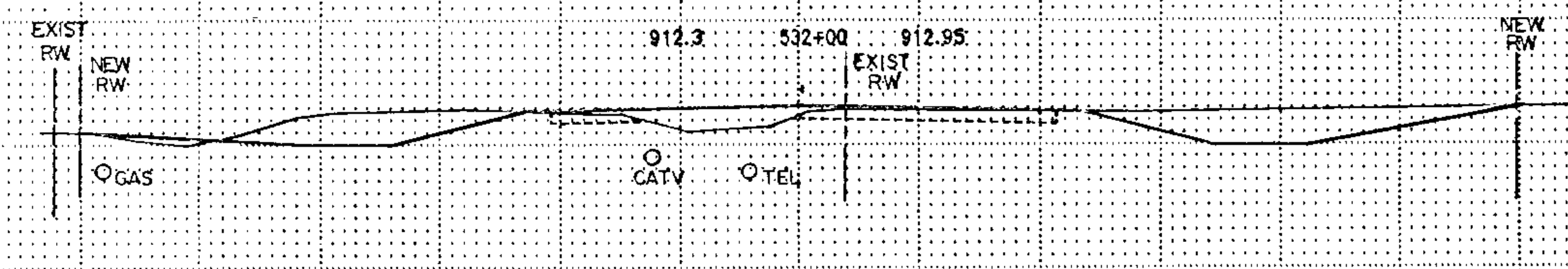
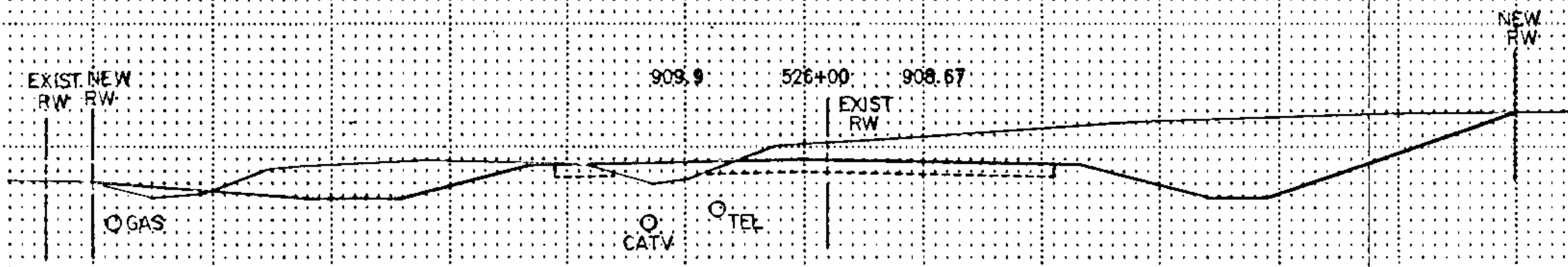
PLATE 3 Full Cross Section DOTTED One Form 1449 Plus 33V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG.
SUB.
TOPSOIL

REG.
SUB.
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

CROSS-SECTIONS
STA. 520+97. TO STA. 532+00

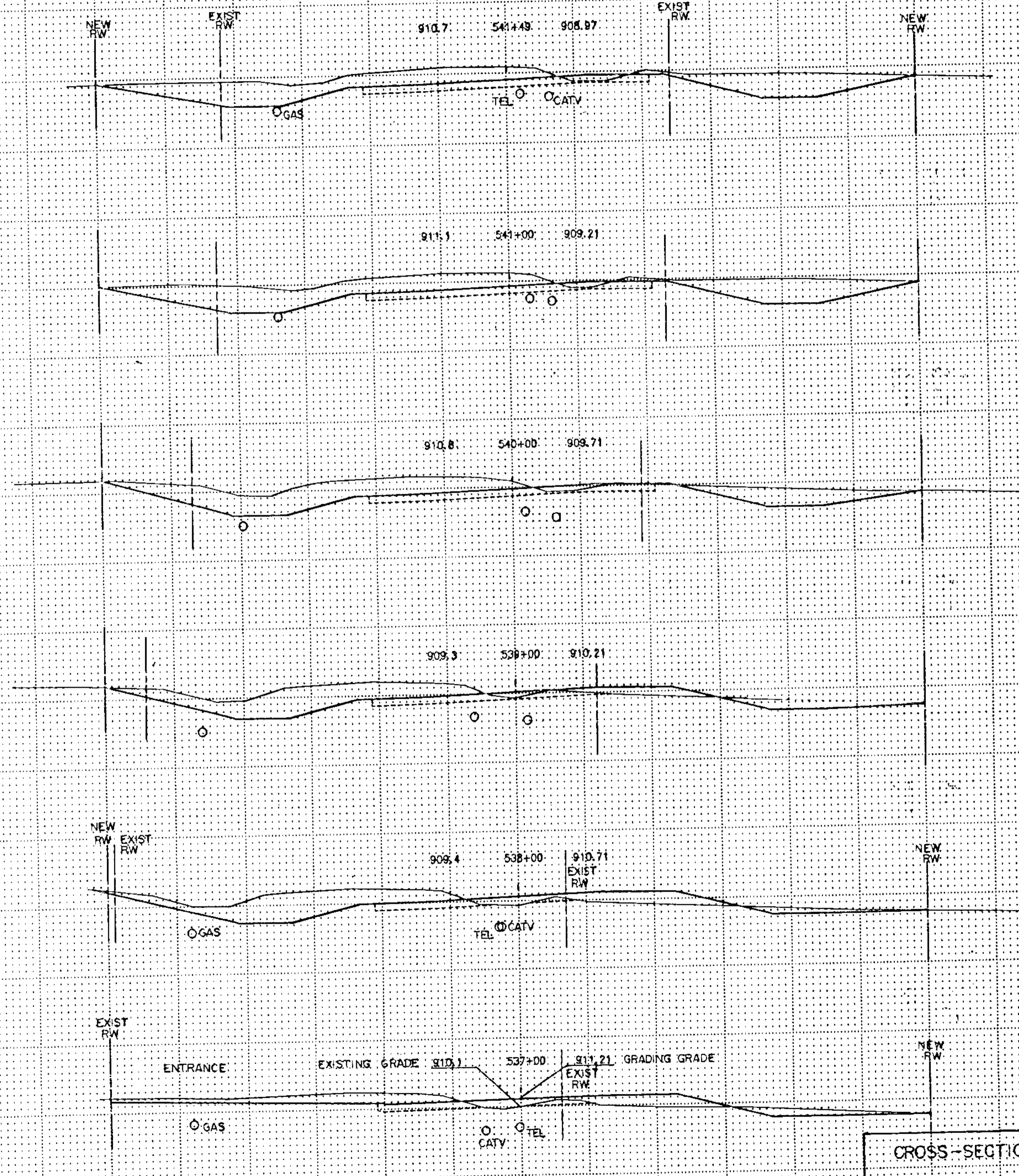
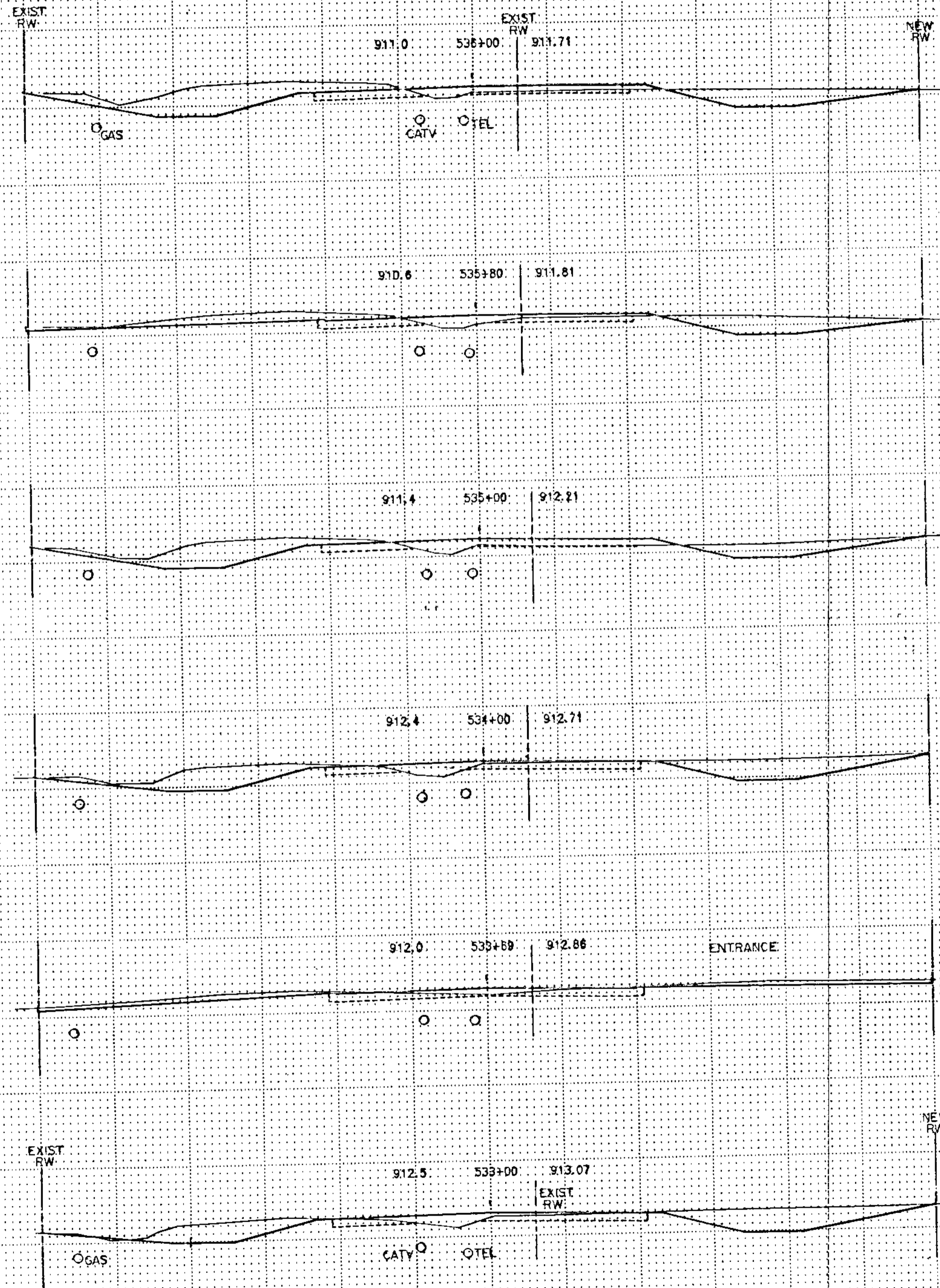
PLATE 3 Full Cross Section DOTTED Clear Form 148 Plus 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG.
SUB.
TOPSOIL.

REG.
SUB.
TOPSOIL.



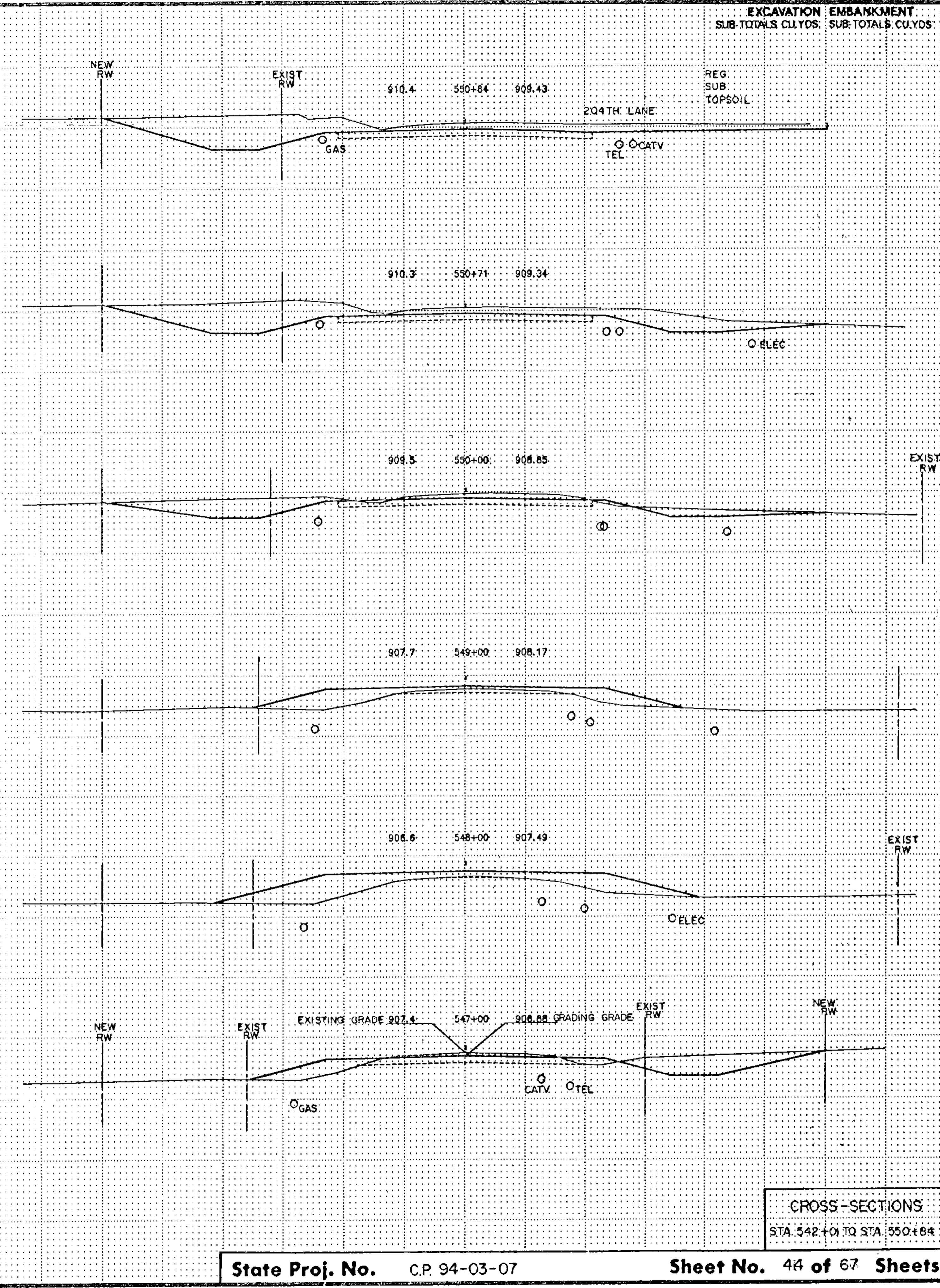
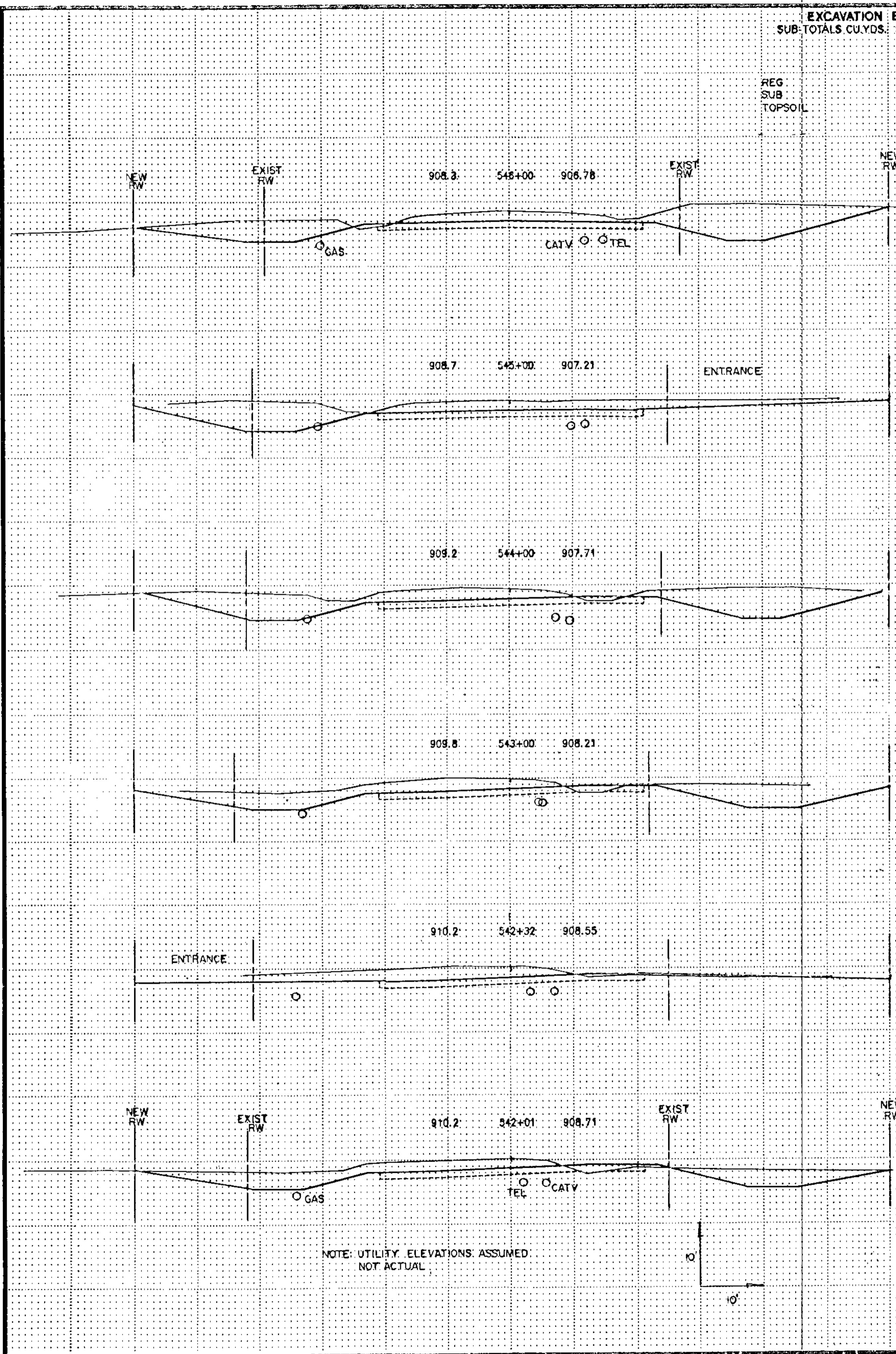
NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

CROSS-SECTIONS
STA. 533+00 TO STA. 541+49

PLATE 3 Full Cross Section DOTTED Over Form M&B Plate 20V

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL

CROSS-SECTIONS
 STA. 542+01 TO STA. 550+84

PLATE 3 Full Cross Section DOTTED Unapproved Cross Form No. 100-100

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL

NEW RW 911.7 555+00 911.76 EXIST RW

907.5 560+00 907.49

ENTRANCE 912.0 554+00 911.59 EXIST RW 88'

908.1 559+00 908.69

911.8 553+00 910.9 TEL

NEW RW EXIST RW 909.9 558+00 909.32 ENTRANCE EXIST RW

911.1 552+00 910.22 TEL

910.3 558+00 909.76

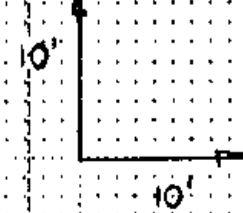
910.7 551+22 909.69 ELEC

910.8 557+00 910.85

NEW RW EXIST RW EXISTING GRADE 910.8 551+00 909.8 GRADING GRADE 204 TH LANE

NEW RW EXIST RW 911.3 556+00 911.59 EXIST RW

NOTE: UTILITY ELEVATIONS ASSUMED NOT ACTUAL



CROSS-SECTIONS
STA. 561+09 TO STA. 560+00

PLATE 3 Full Cross Section DOTTED Order Form M88 Page 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL

NEW
RW

EXIST
RW

904.1 565+00 903.62

EXIST
RW

NEW
RW

EXIST
RW

902.3 568+50 902.2

EXIST
RW

CATV GAS

TEL

CATV GAS

TEL

904.8 564+12 903.98

902.8 568+00 902.1

905.0 564+00 904.03

903.4 567+00 902.81

905.7 563+00 904.14

903.3 566+46 903.03

CATV GAS

TEL

CATV

906.2 562+00 905.21

GAS

TEL

CATV

EXISTING GRADE 903.6 566+00 903.22 GRADING GRADE

NEW
RW

EXIST
RW

906.8 561+00 906.35

EXIST
RW

NEW
RW

EXIST
RW

903.8 565+58 903.39

EXIST
RW

GAS

TEL

CATV

CATV GAS

TEL

NOTE: UTILITY ELEVATIONS ASSUMED.
NOT ACTUAL.

10'

CROSS-SECTIONS

STA. 561+00 TO STA. 568+50

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL

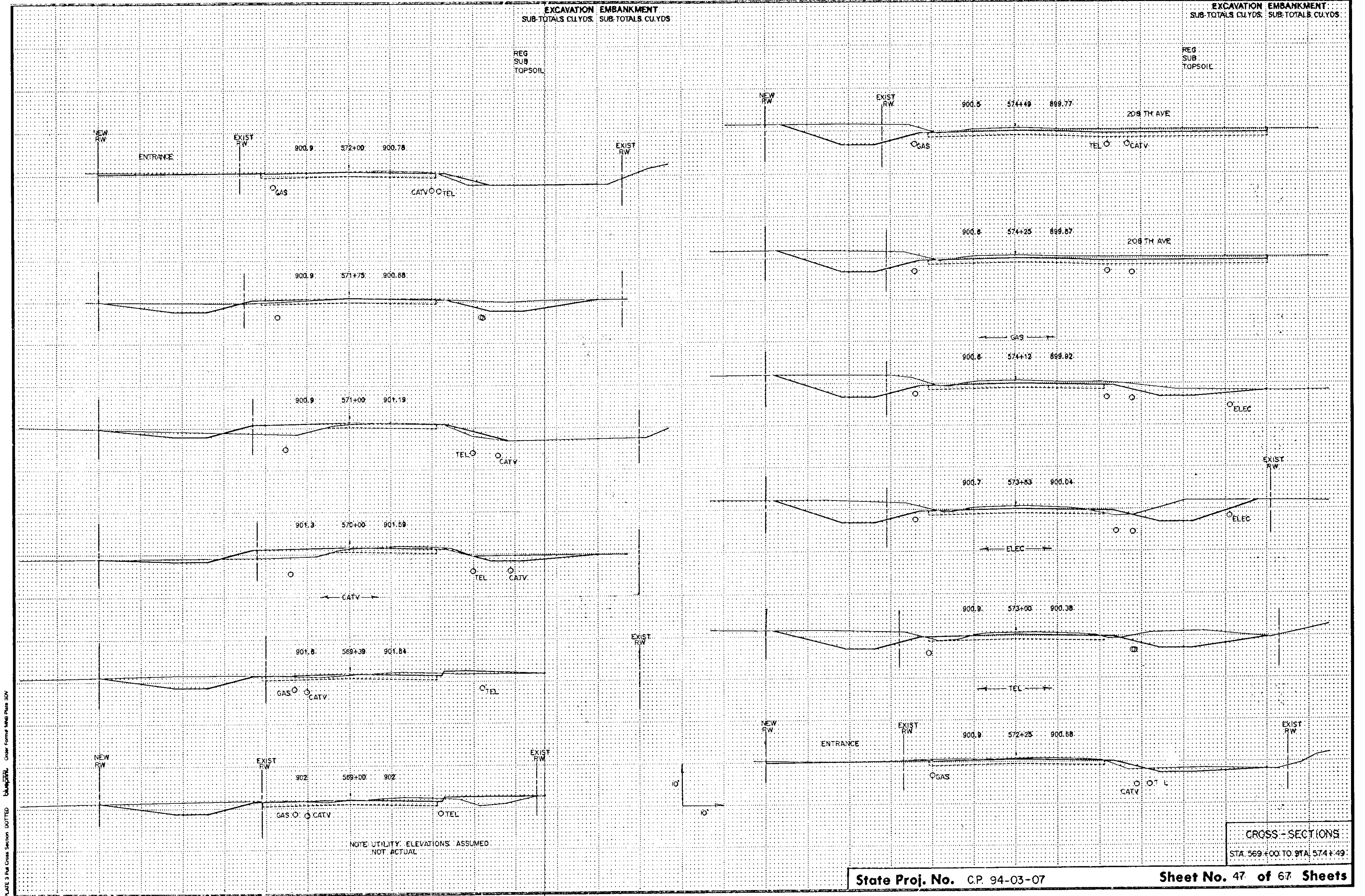


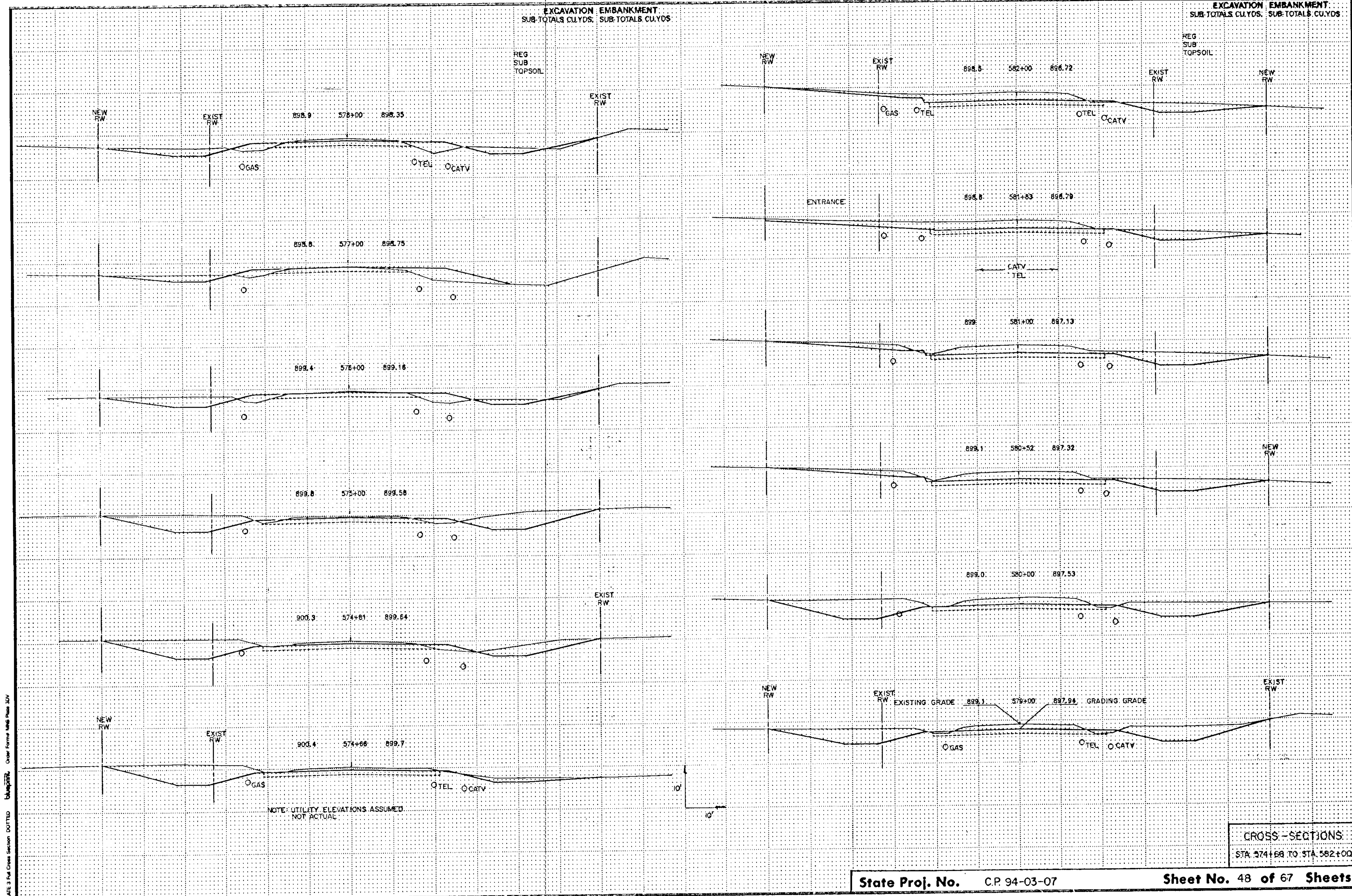
PLATE 3 Full Cross Section DOTTED
 Blueprints
 Draw Form No. 307

NOTE: UTILITY ELEVATIONS ASSUMED.
NOT ACTUAL

CROSS-SECTIONS
STA. 569+00 TO STA. 574+49

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



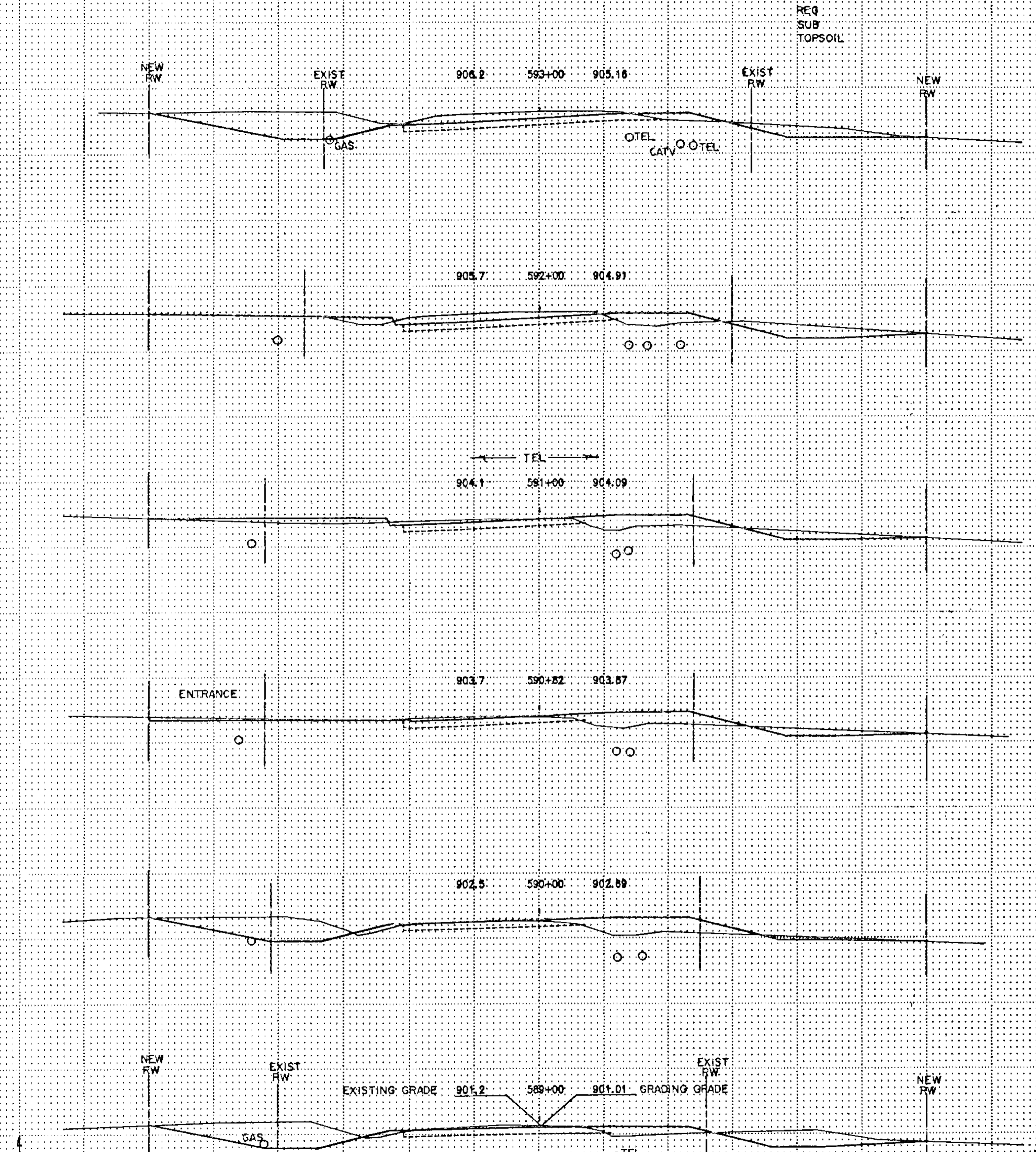
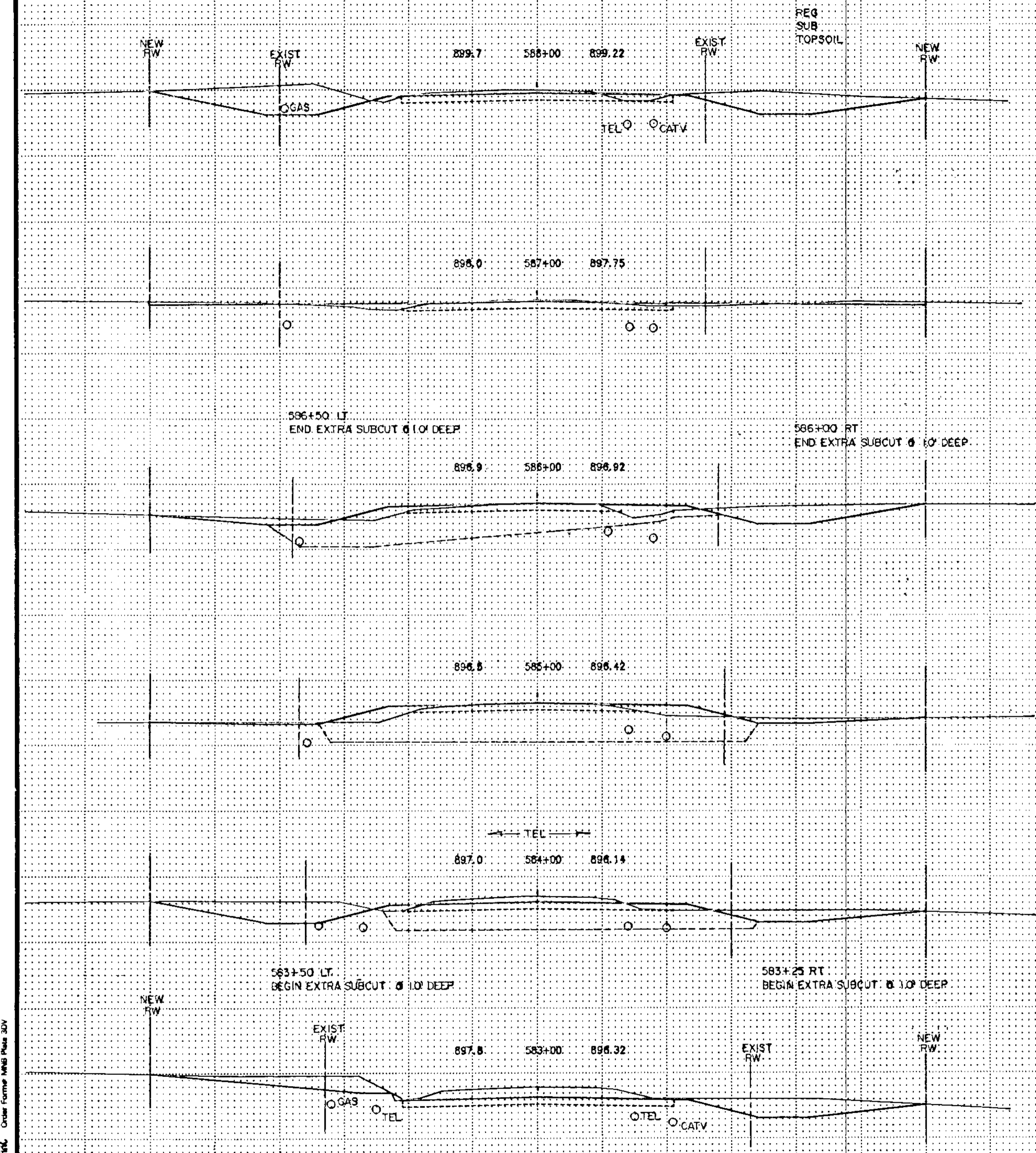
NOTE: UTILITY ELEVATIONS ASSUMED.
 NOT ACTUAL.

CROSS-SECTIONS:
 STA. 574+68 TO STA. 582+00

PLATE 3 Full Cross Section DOTTED Clear Forme M&E Plus 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED.
NOT ACTUAL.

CROSS-SECTIONS
STA. 583+00 TO STA. 593+00

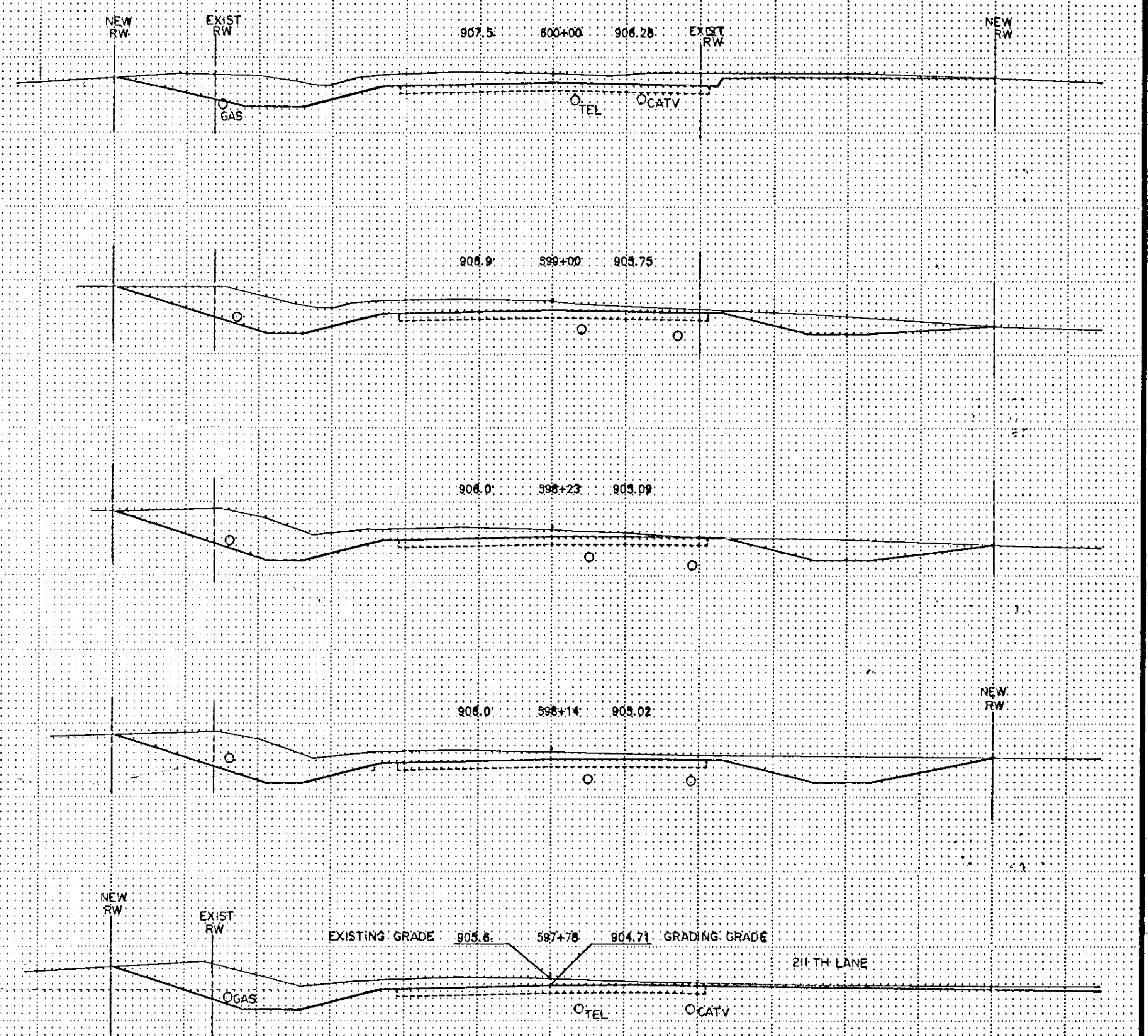
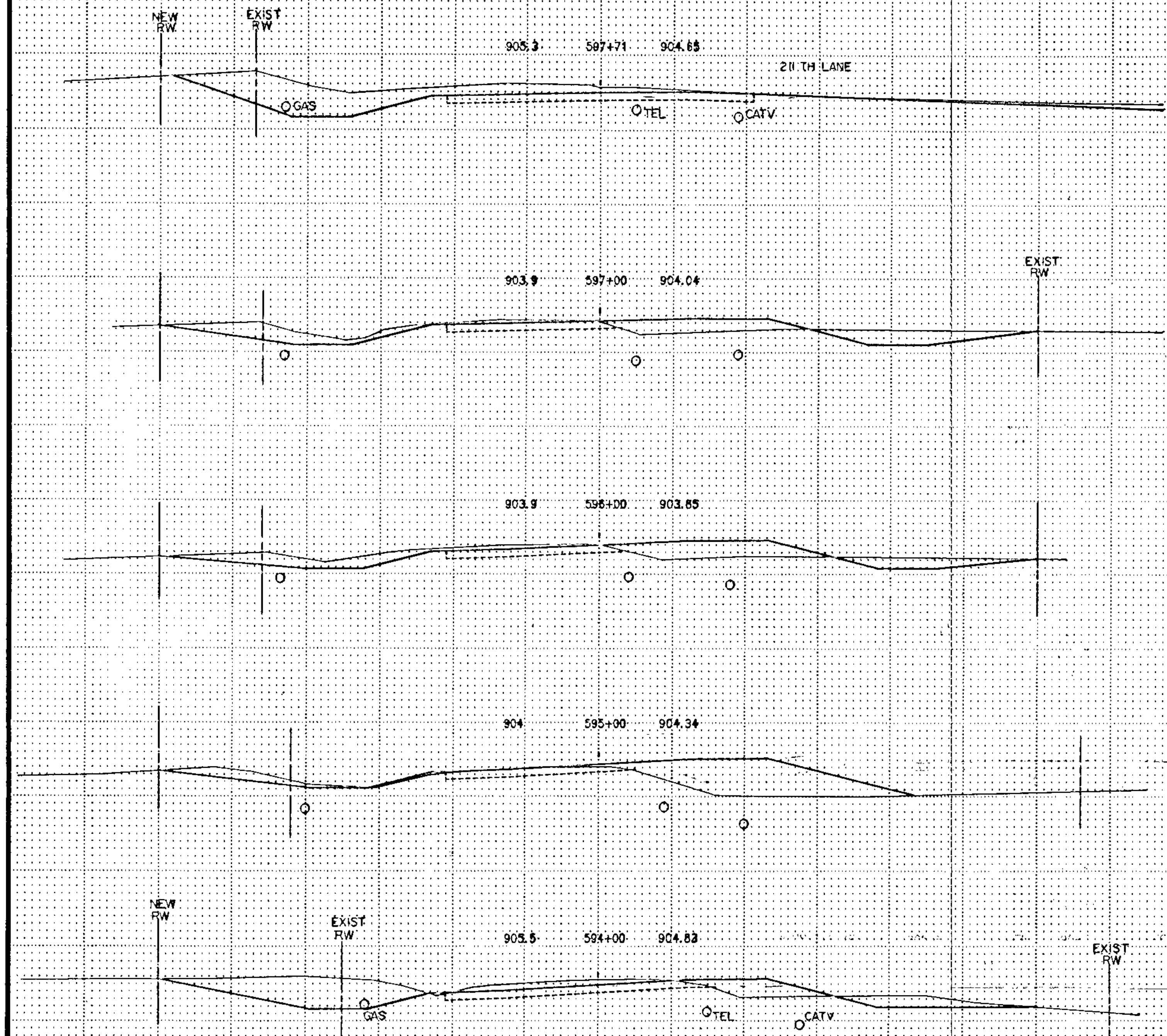
PLATE 3 Full Cross Section DOTTED Clear Forme Weld Plus 30V

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

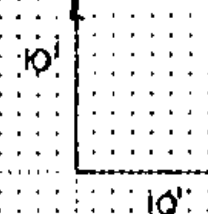
EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
 SUB
 TOPSOIL

REG
 SUB
 TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL



CROSS-SECTIONS
 STA. 594+00 TO STA. 600+00

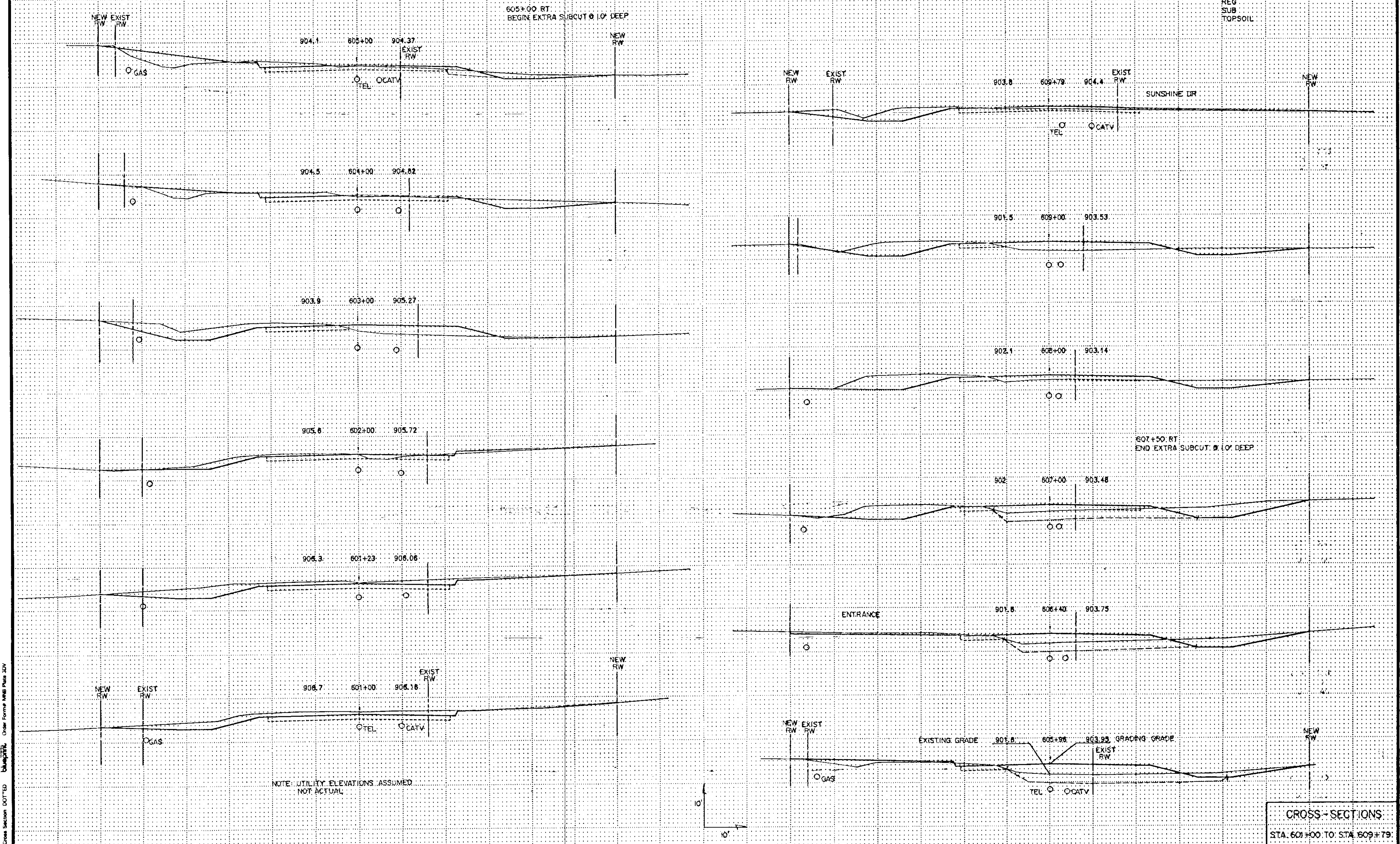
PLATE 3 Full Cross Section DOTTED Under Forms 1989 Plate 30Y

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

605+00 RT.
BEGIN EXTRA SUBCUT 0' 10" DEEP

REG
SUB
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

607+50 RT.
END EXTRA SUBCUT 0' 10" DEEP

ENTRANCE

EXISTING GRADE 903.8 605+00 903.95 GRADING GRADE

CROSS-SECTIONS:
STA. 601+00 TO STA. 609+79

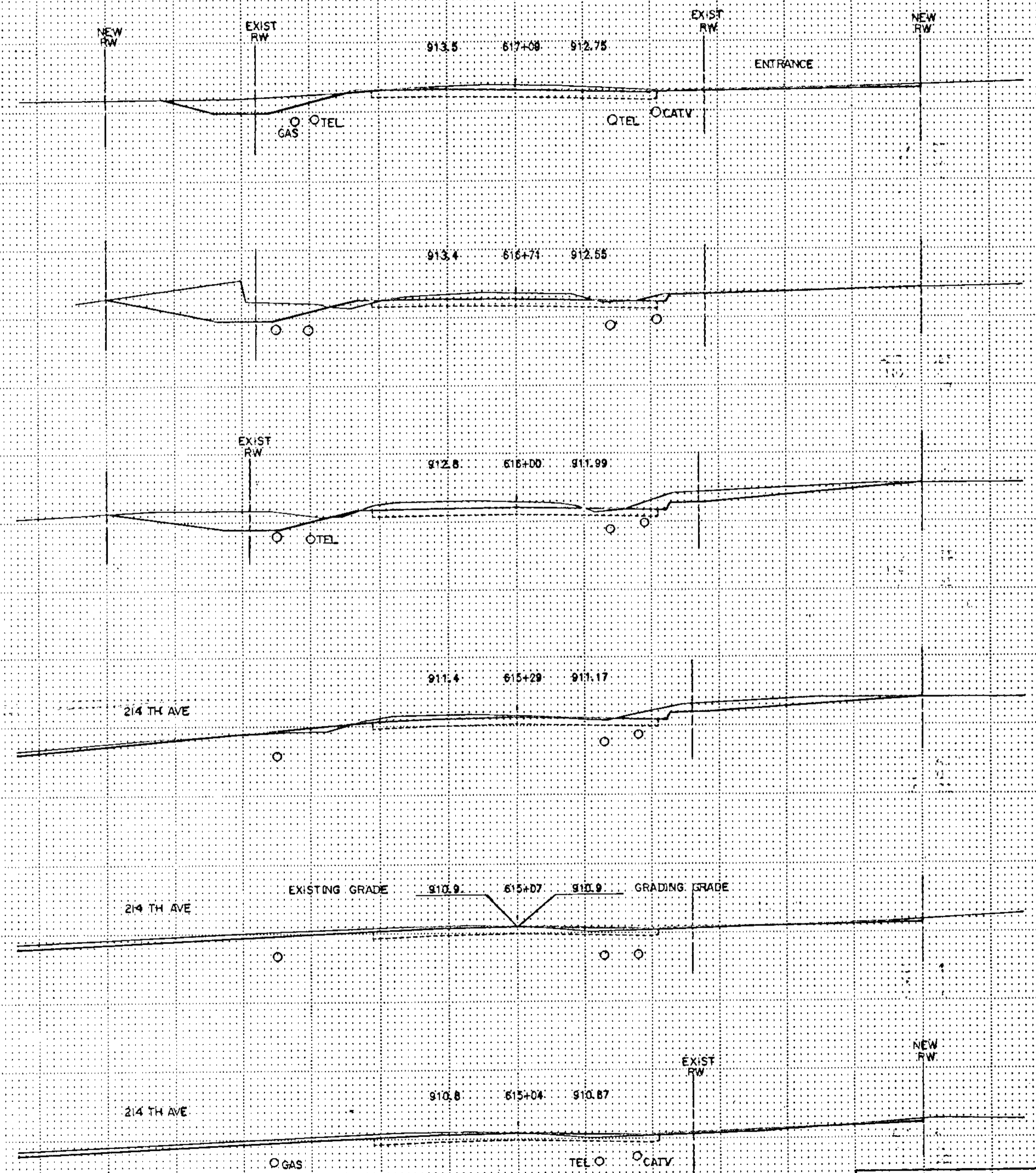
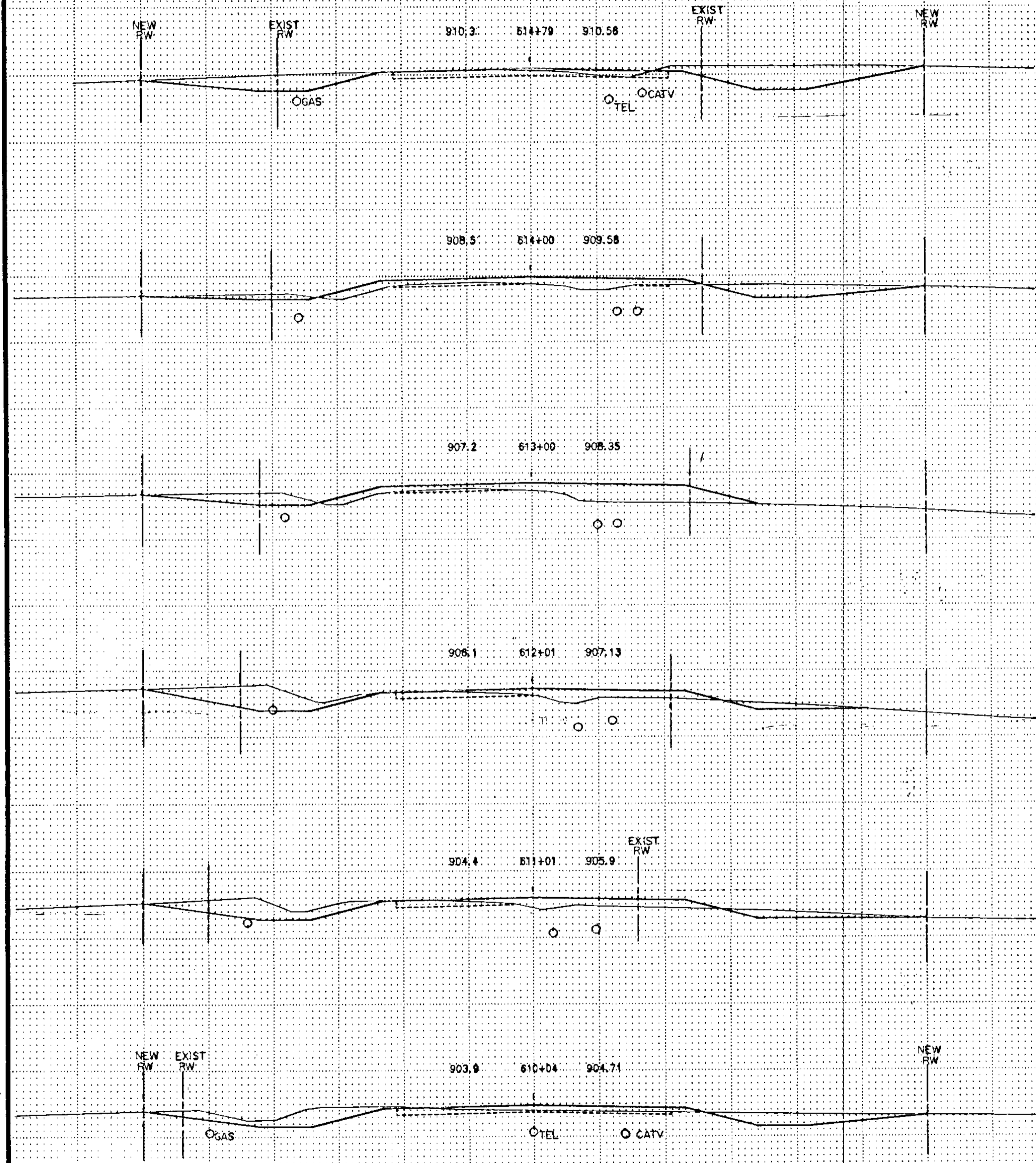
PLATE 3 Full Cross Section DOTTED Clear Form 1/88 Plate 3/07

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

CROSS-SECTIONS:
STA. 610+04 TO STA. 617+09

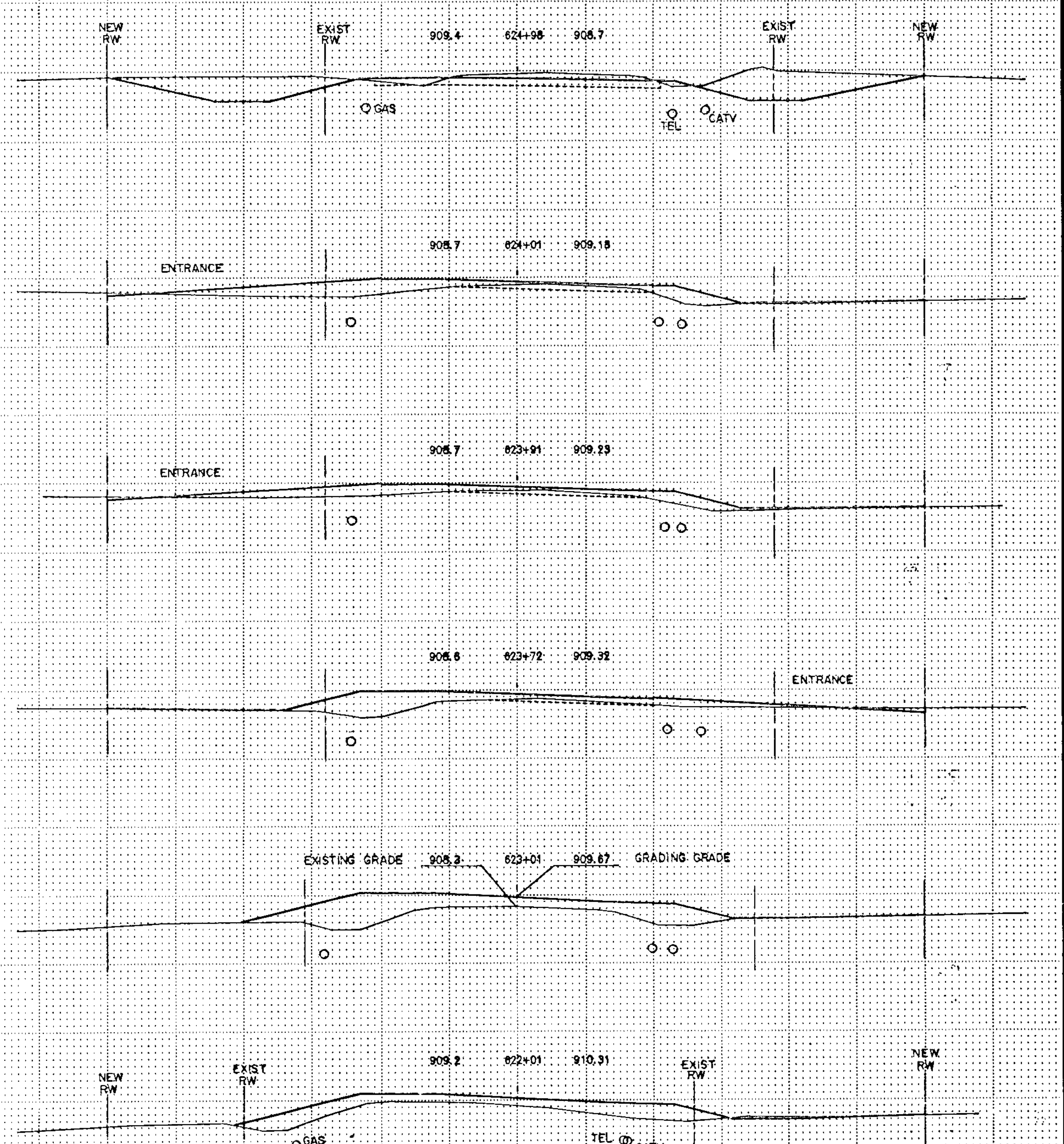
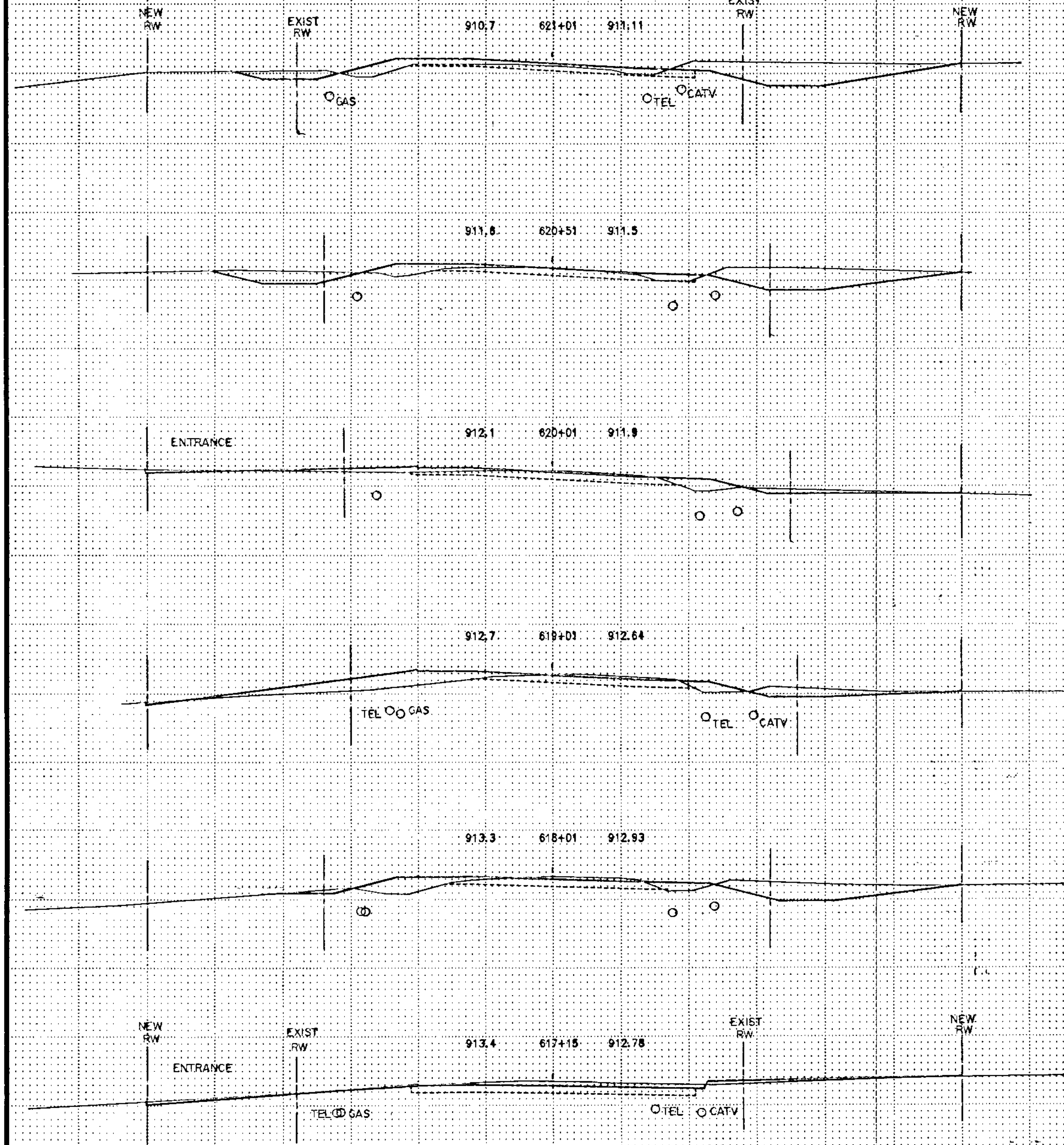
PLATE 3 Full Cross Section DOTTED Clear Turn MMB Plate 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

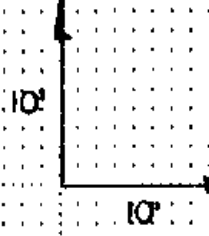
EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

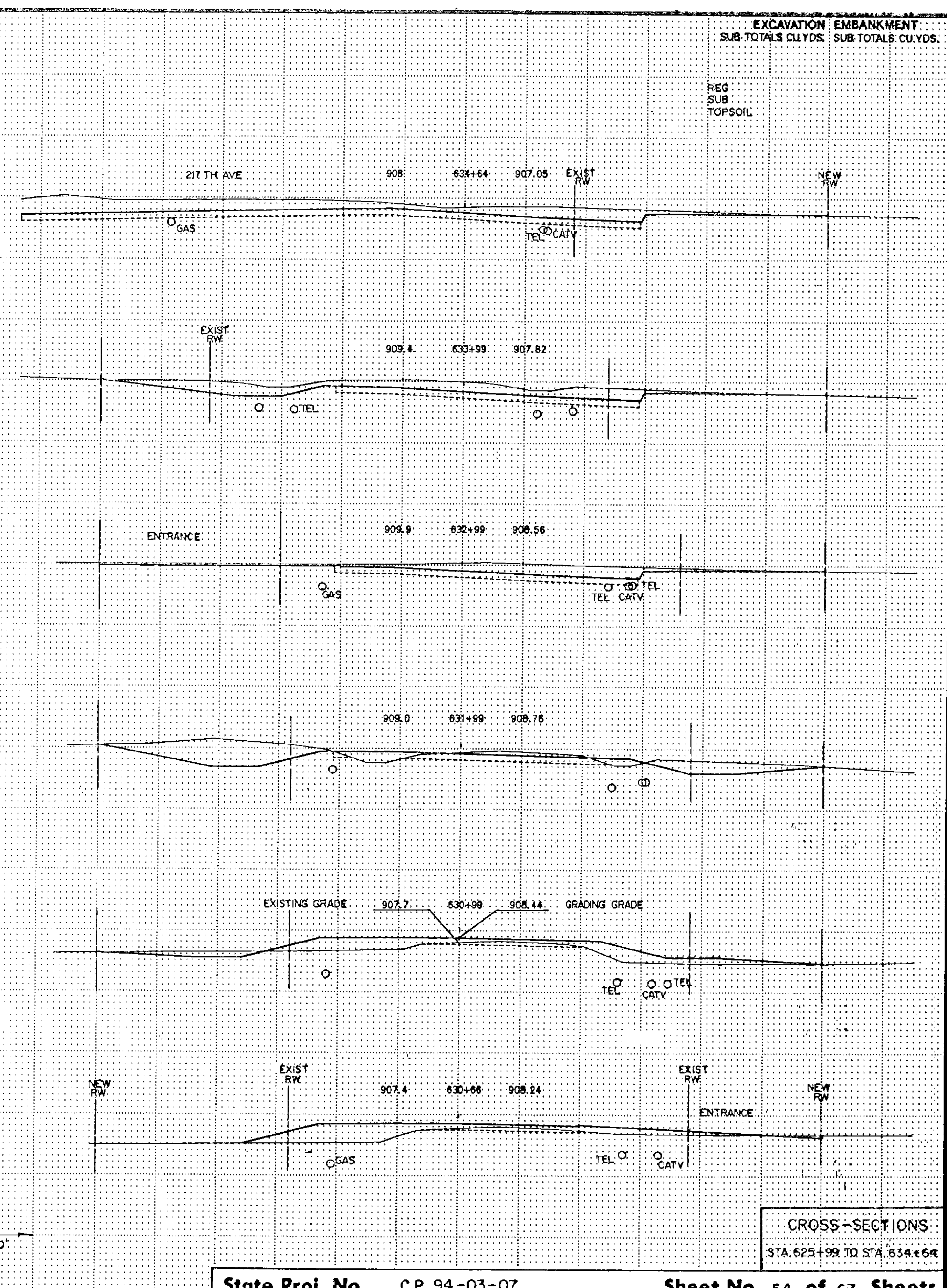
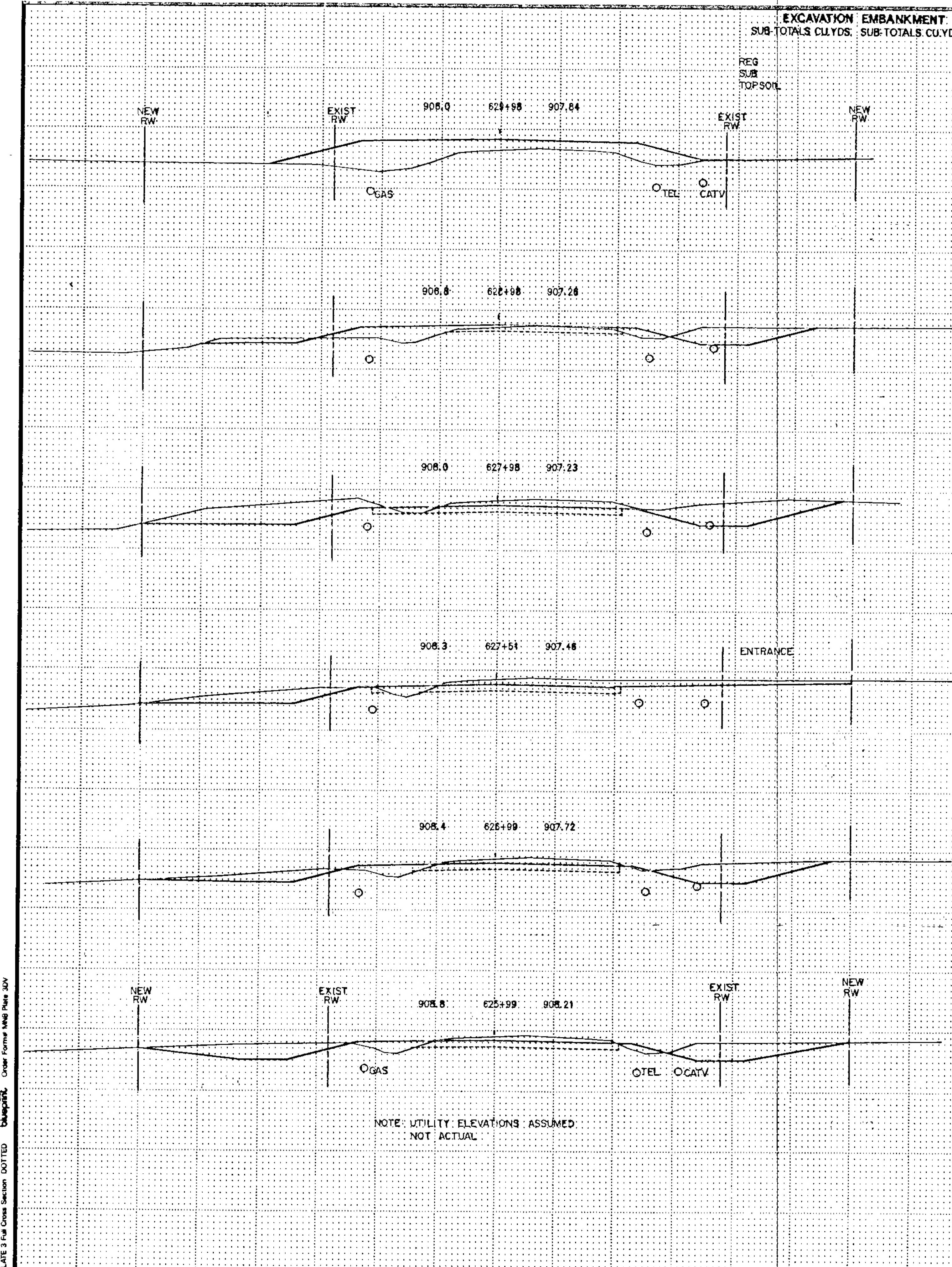


CROSS-SECTIONS
STA. 617+15 TO STA. 624+98

PLATE 3 Full Cross Section DOTTED blue print. Order forms MBG Plans 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

CROSS-SECTIONS
STA. 625+99 TO STA. 634+64

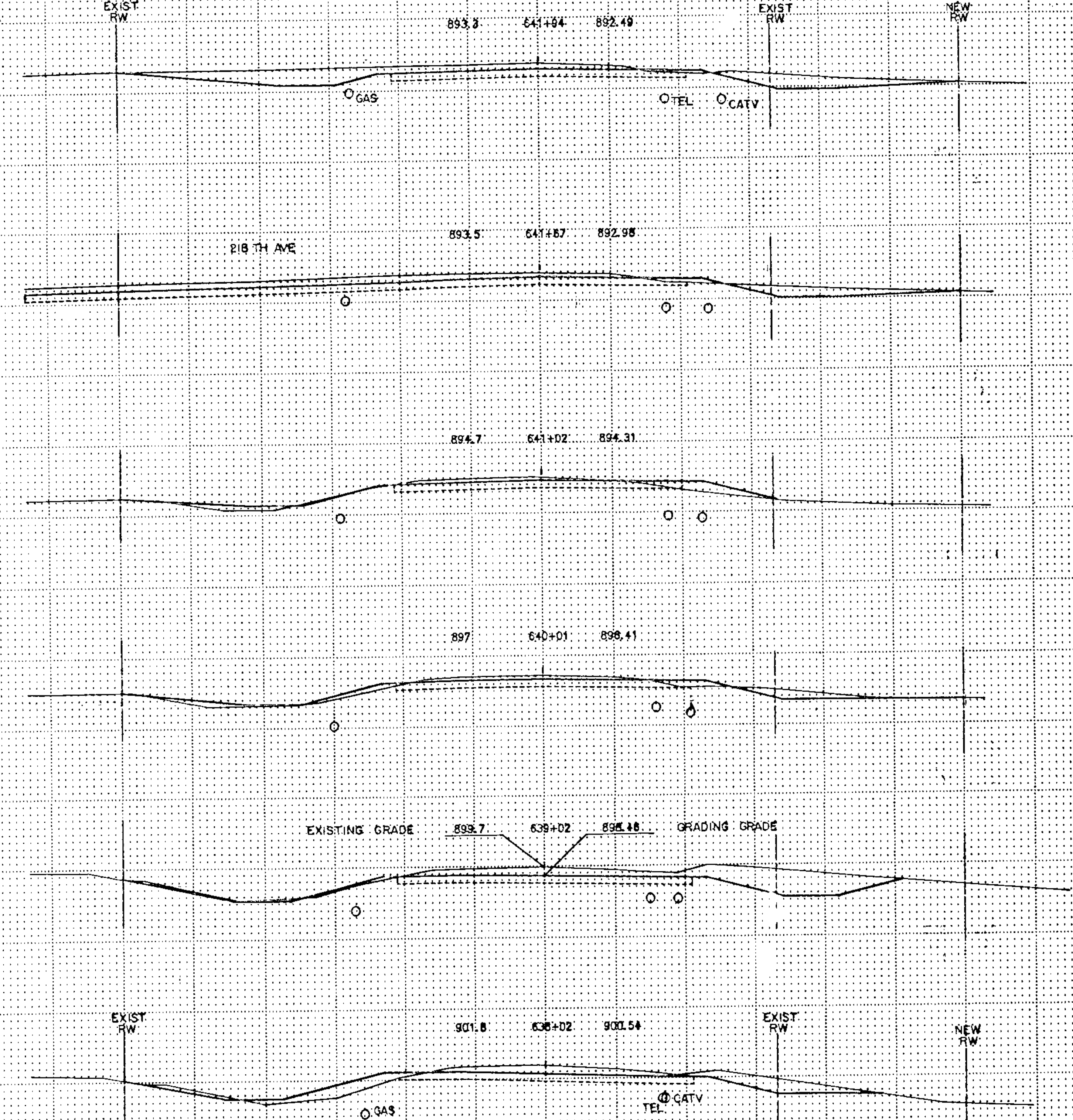
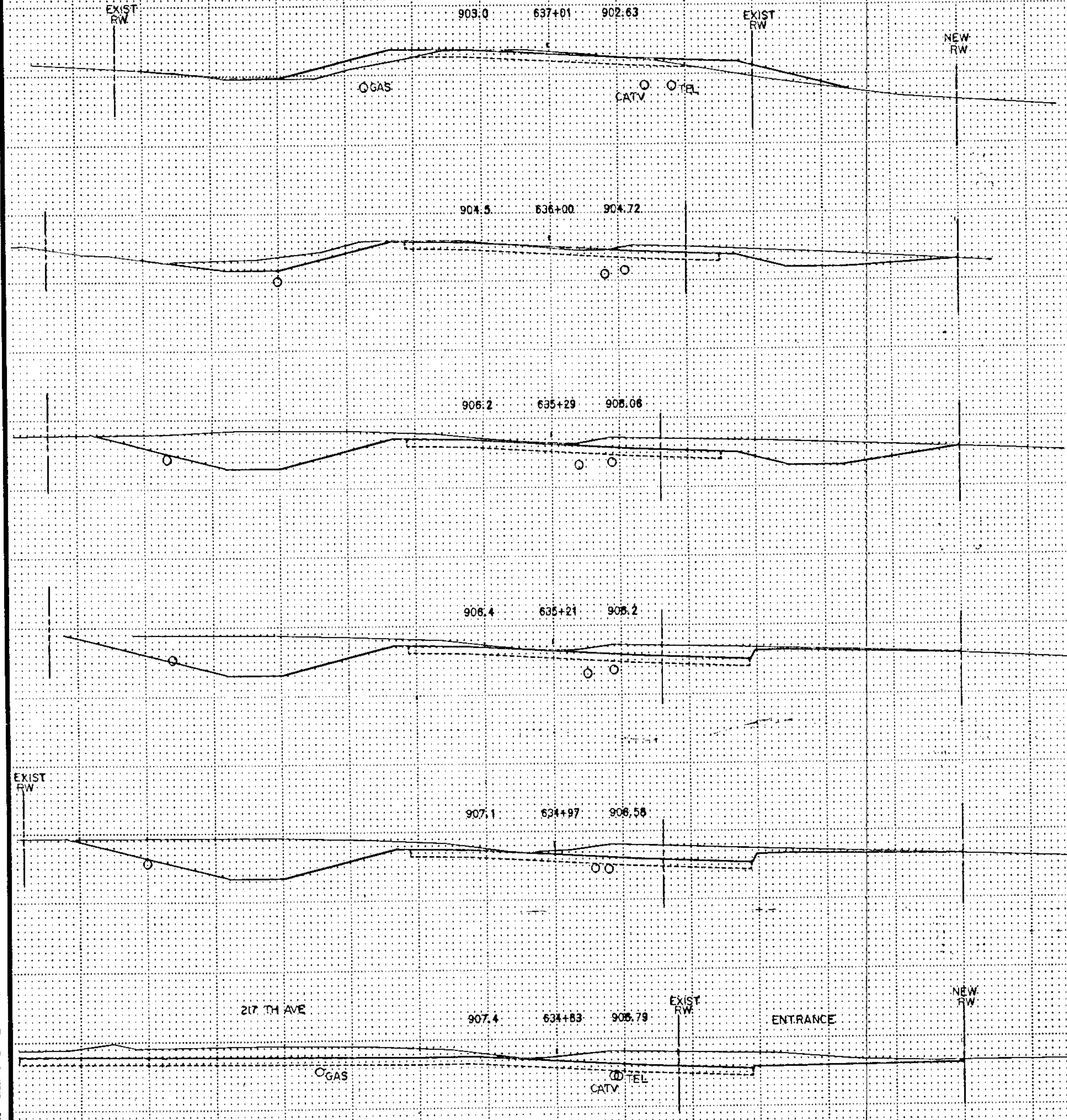
PLATE 3 Full Cross Section DOTTED Clear Forme Web Page 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

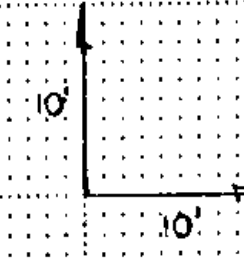
EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL

REG
SUB
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL



CROSS-SECTIONS
STA 634+83 TO STA 641+94

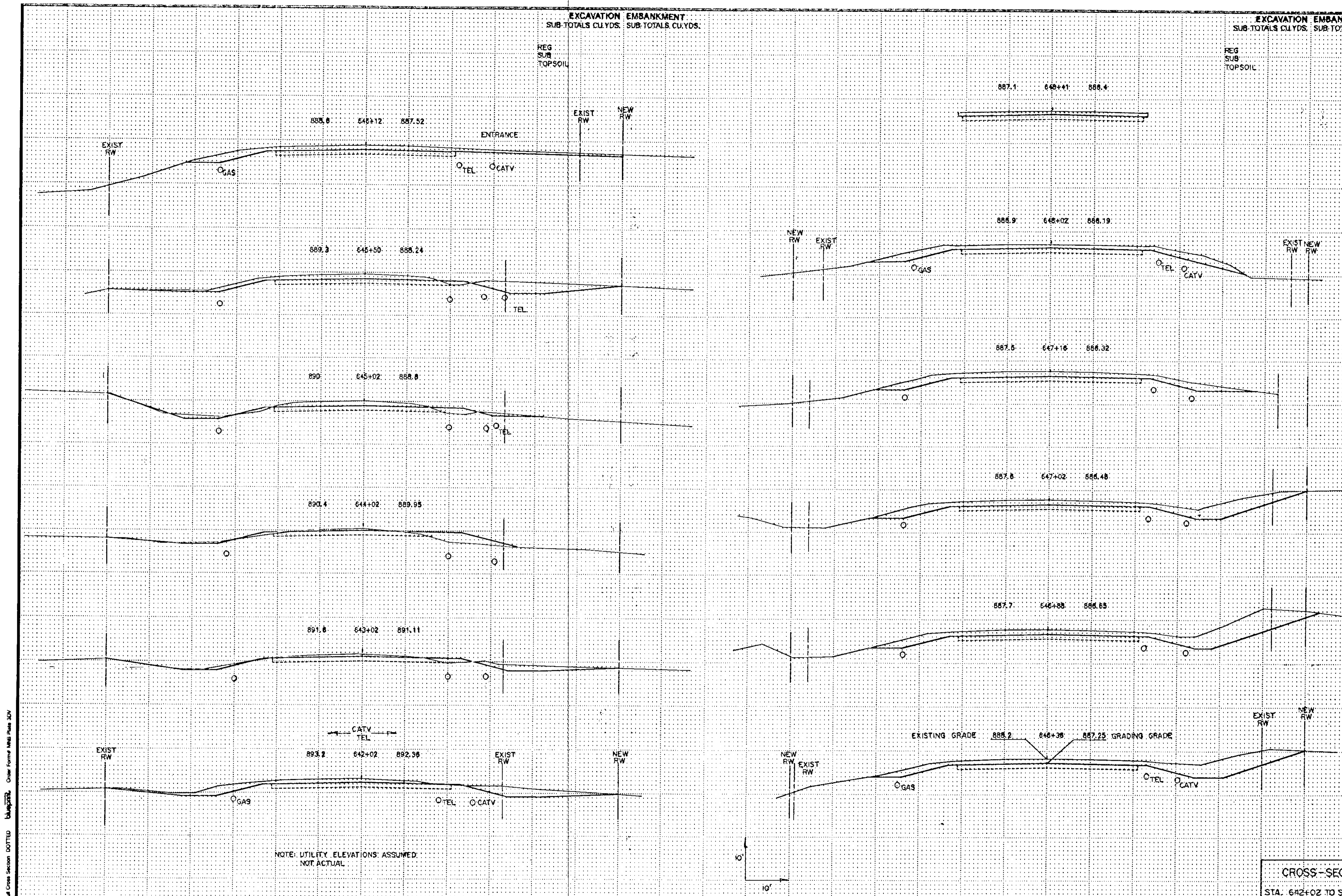
PLATE 3 Full Cross Section DOTTED (Use Form 1488 Plate 30V)

EXCAVATION SUB-TOTALS CU.YDS. EMBANKMENT SUB-TOTALS CU.YDS.

EXCAVATION SUB-TOTALS CU.YDS. EMBANKMENT SUB-TOTALS CU.YDS.

REG SUB TOPSOIL

REG SUB TOPSOIL



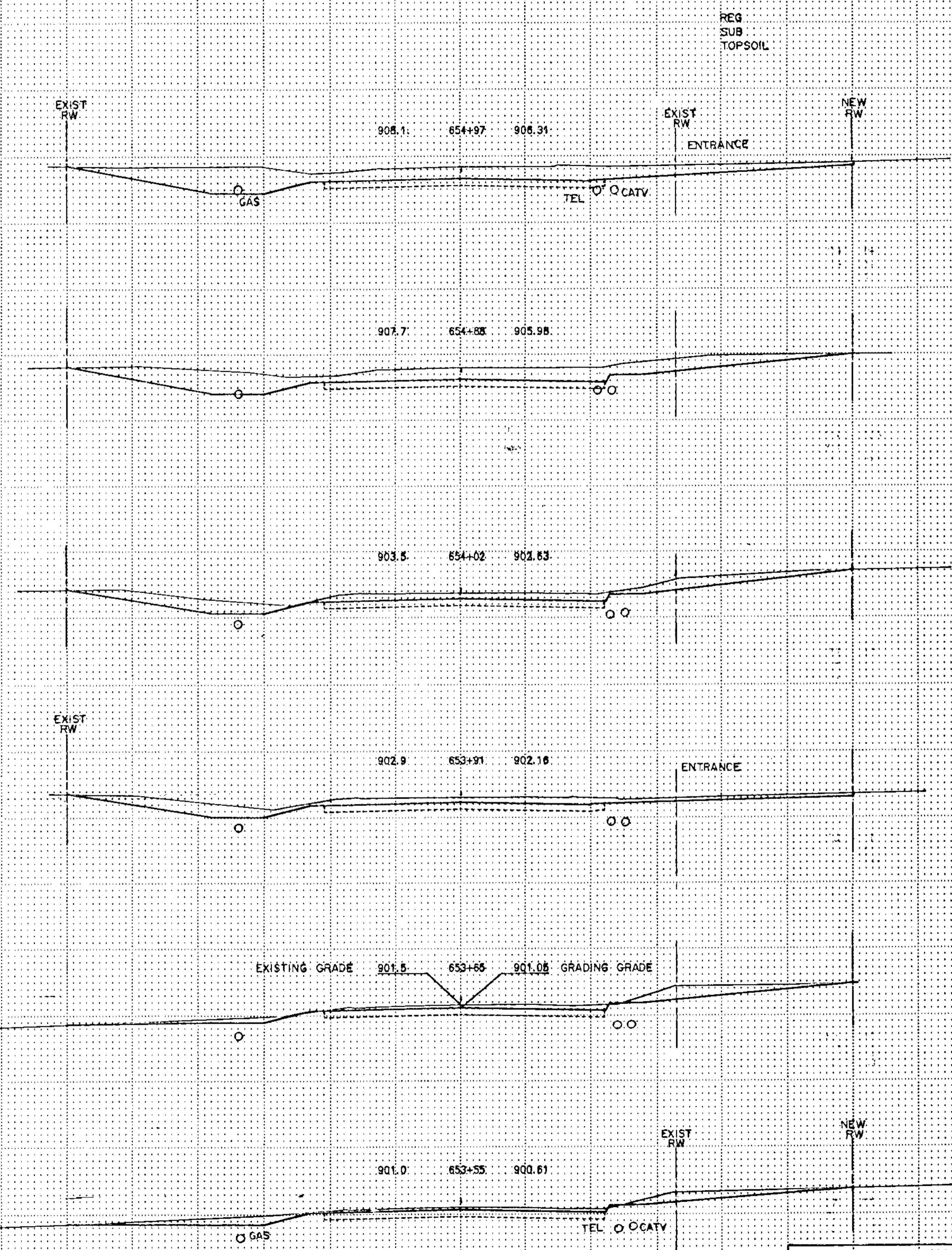
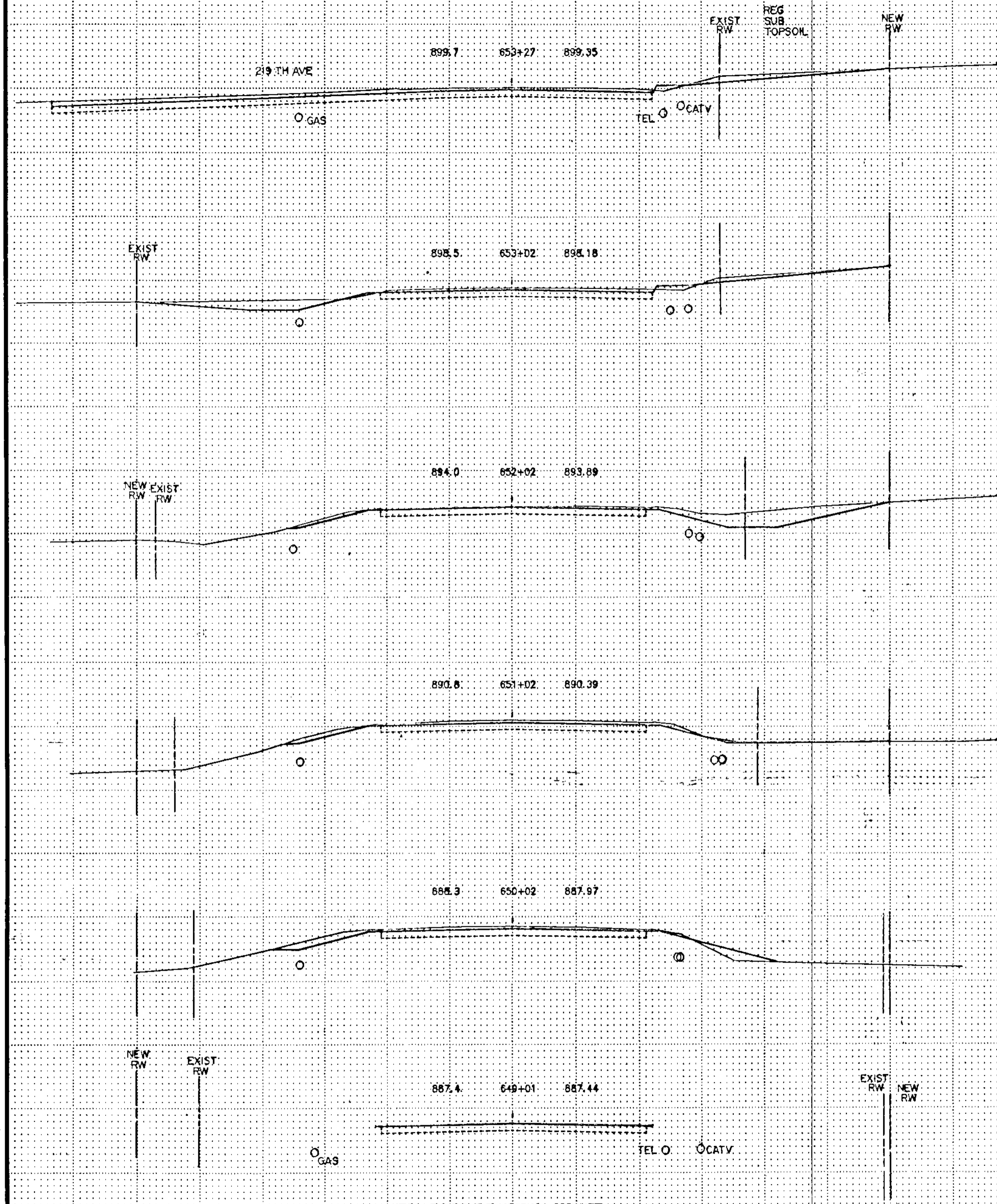
NOTE: UTILITY ELEVATIONS ASSUMED NOT ACTUAL

CROSS-SECTIONS:
STA. 642+02 TO STA. 648+41

PLATE 3 Full Cross Section DOTTED Clear Form 7 MB Plus 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



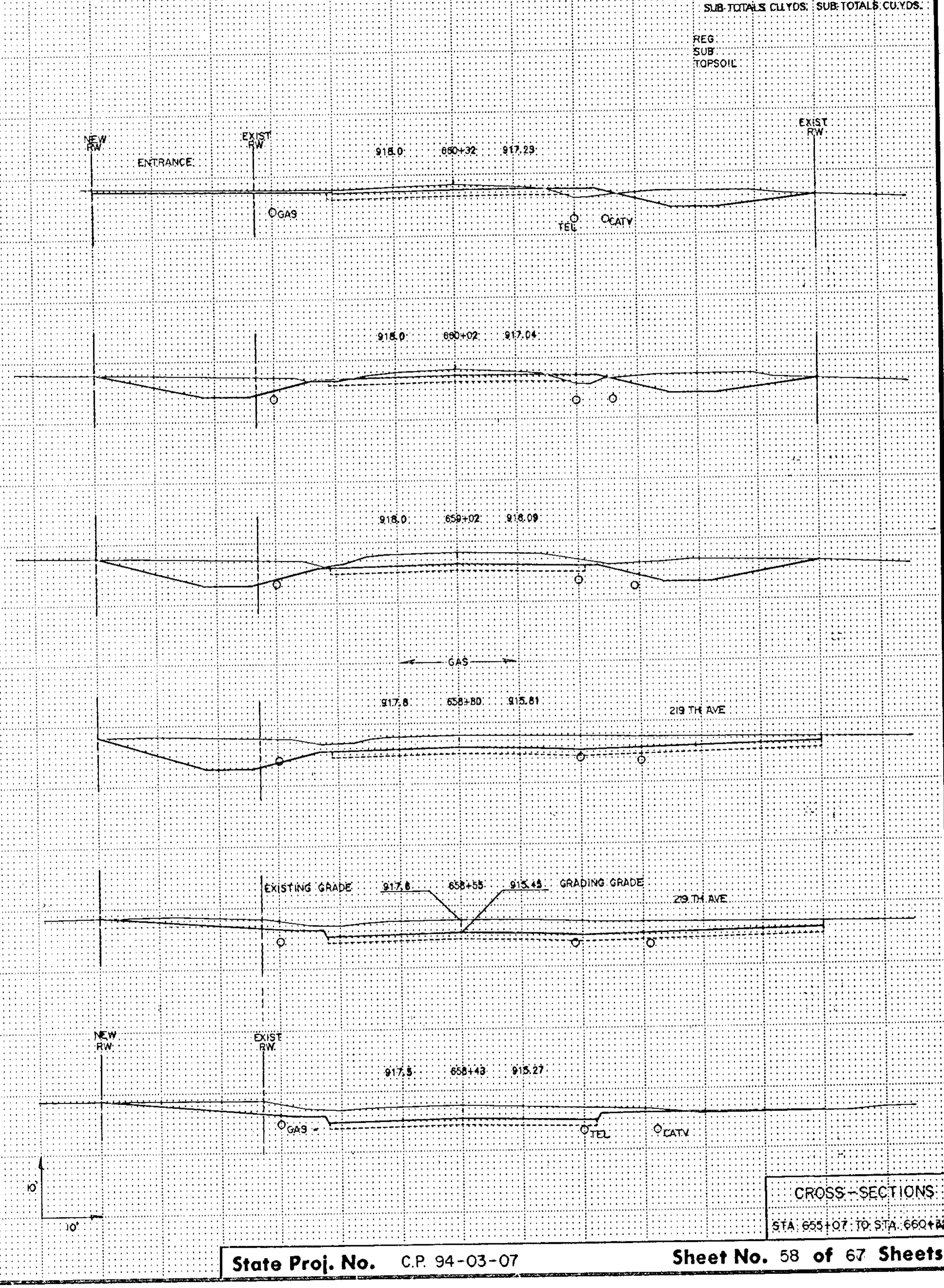
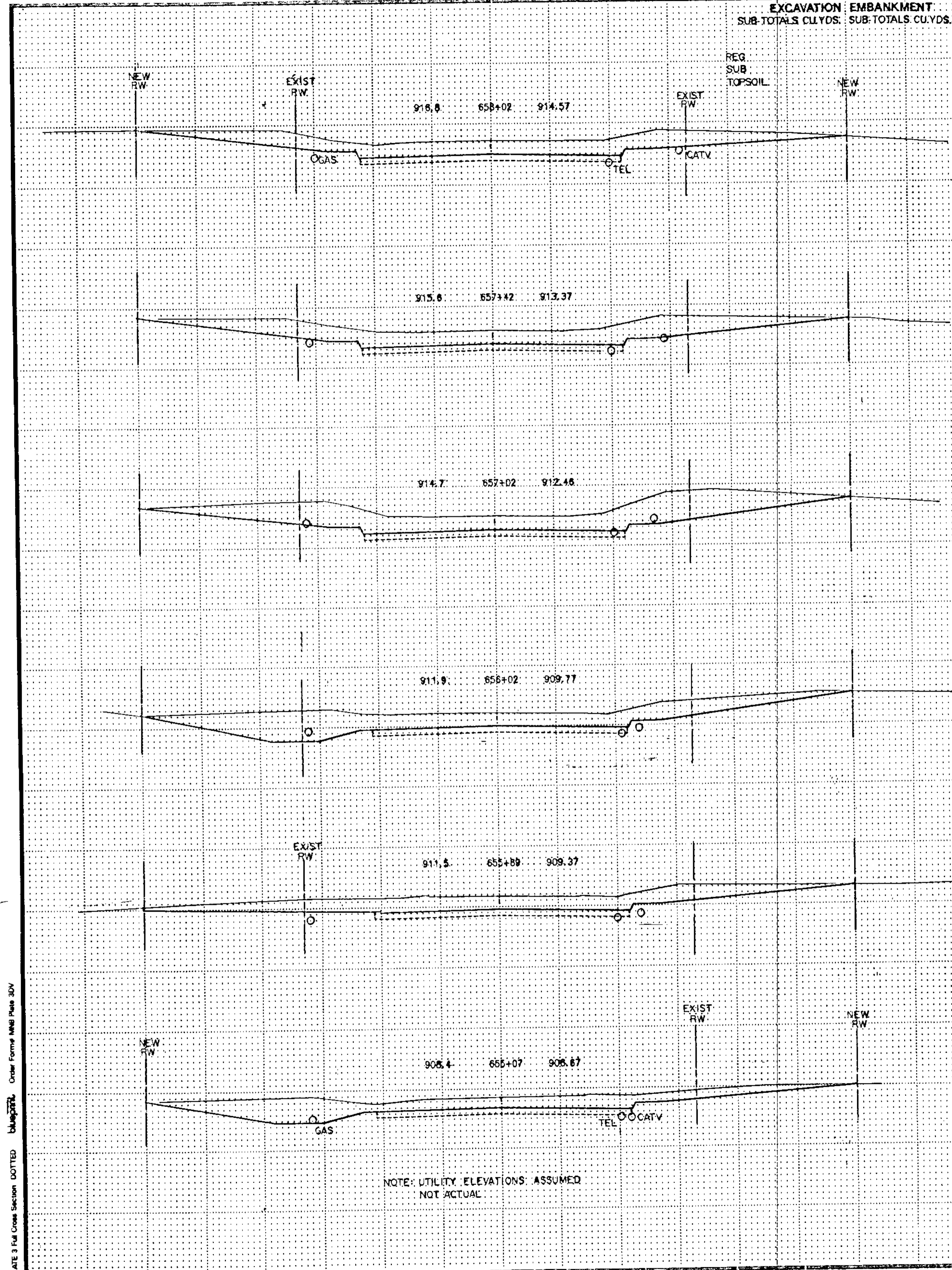
NOTE: UTILITY ELEVATIONS ASSUMED
NGT ACTUAL

CROSS-SECTIONS
STA. 649+01 TO STA. 654+97

PLATE 3 Full Cross Section DOTTED
Clear Forms M&B Plate 3.DW

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

CROSS-SECTIONS

STA. 655+07 TO STA. 660+82

PLATE 3 Full Cross Section DOTTED Blueprint Order Form: M&E Plate 30V

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



PLATE 3 Full Cross Section DOTTED
 Order Form 1483 Rev. 3/04

NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL

10'
 10'

CROSS-SECTIONS
 STA. 661+02 TO STA. 669+01

State Proj. No. C.P. 94-03-07

Sheet No. 59 of 67 Sheets

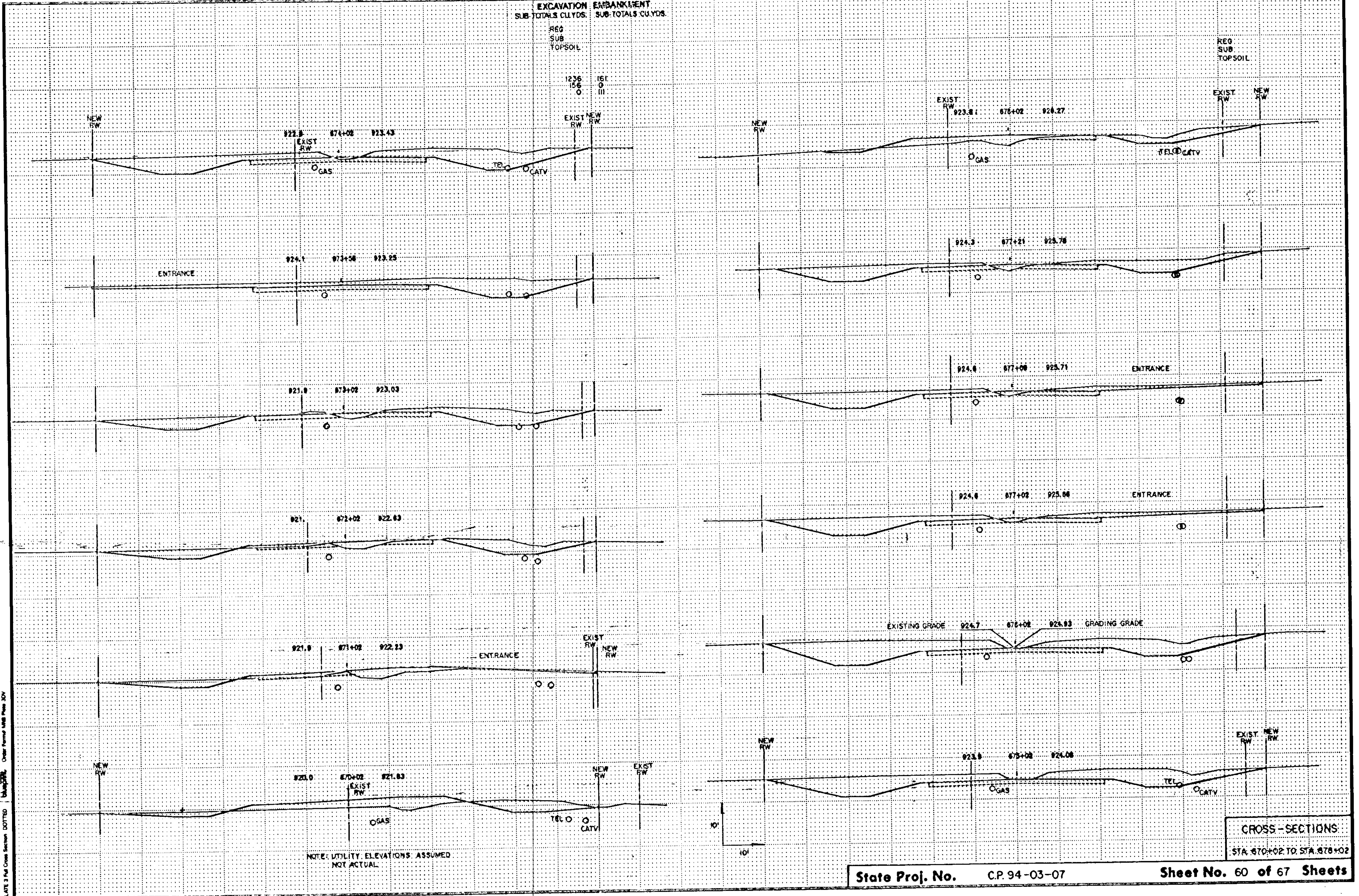
EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
 SUB
 TOPSOIL

1236
 156
 0

161
 0
 III

REG
 SUB
 TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL

PLATE 3 Full Cross Section DOTTED Clear Form 1488 Page 30V

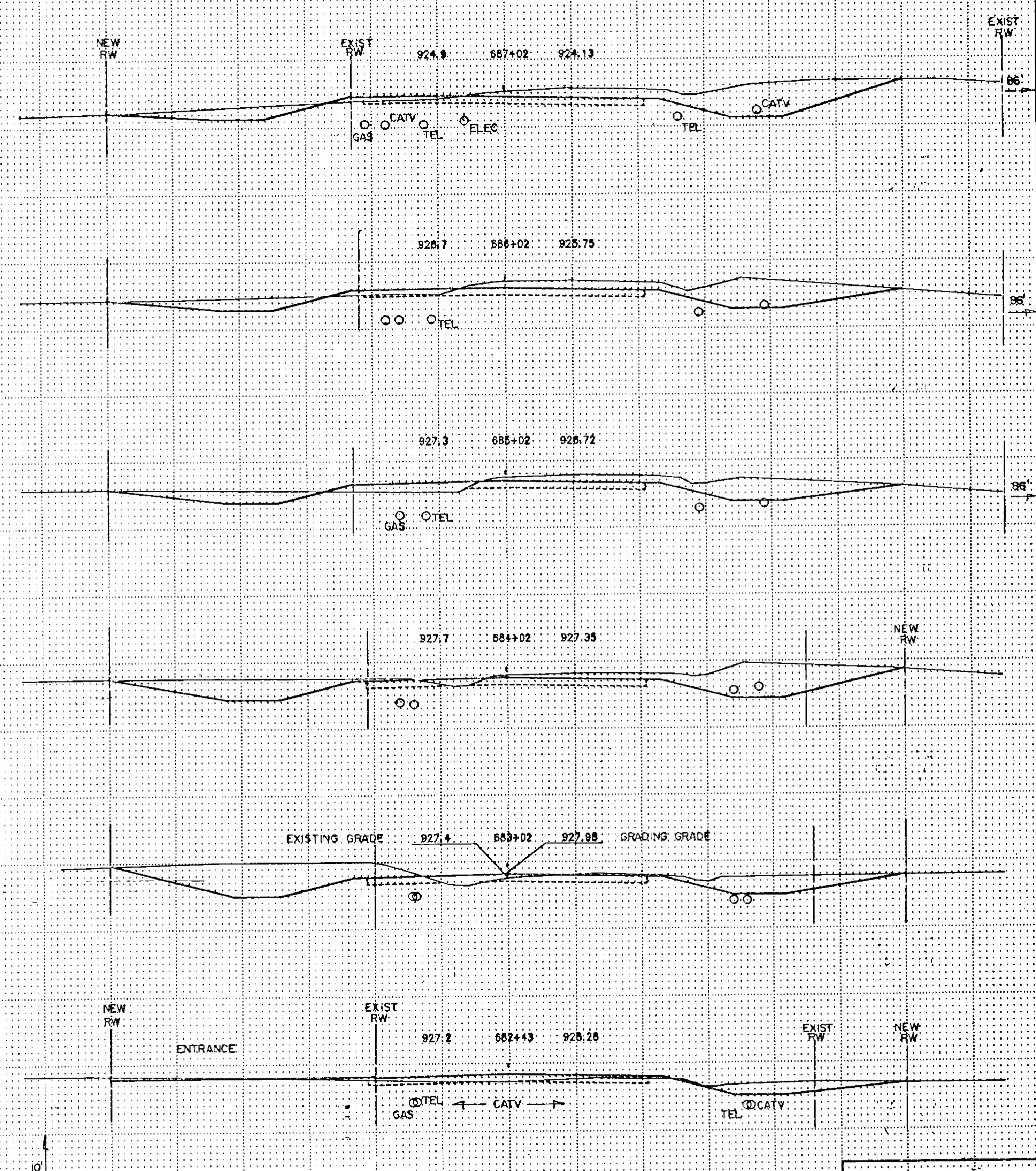
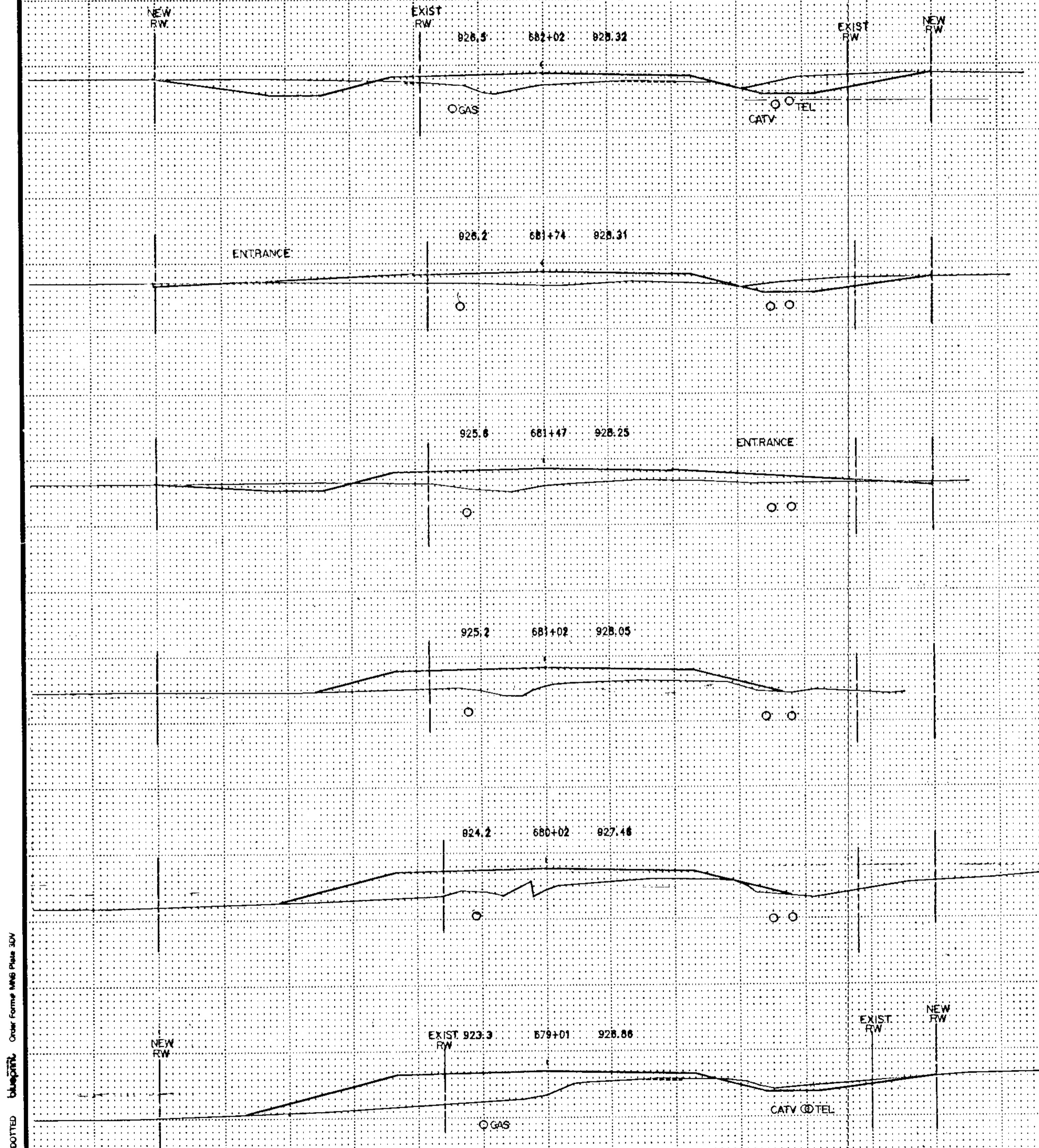
CROSS-SECTIONS
 STA. 670+02 TO STA. 676+02

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

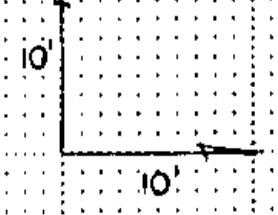
EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
 SUB
 TOPSOIL

REG
 SUB
 TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED.
 NOT ACTUAL.

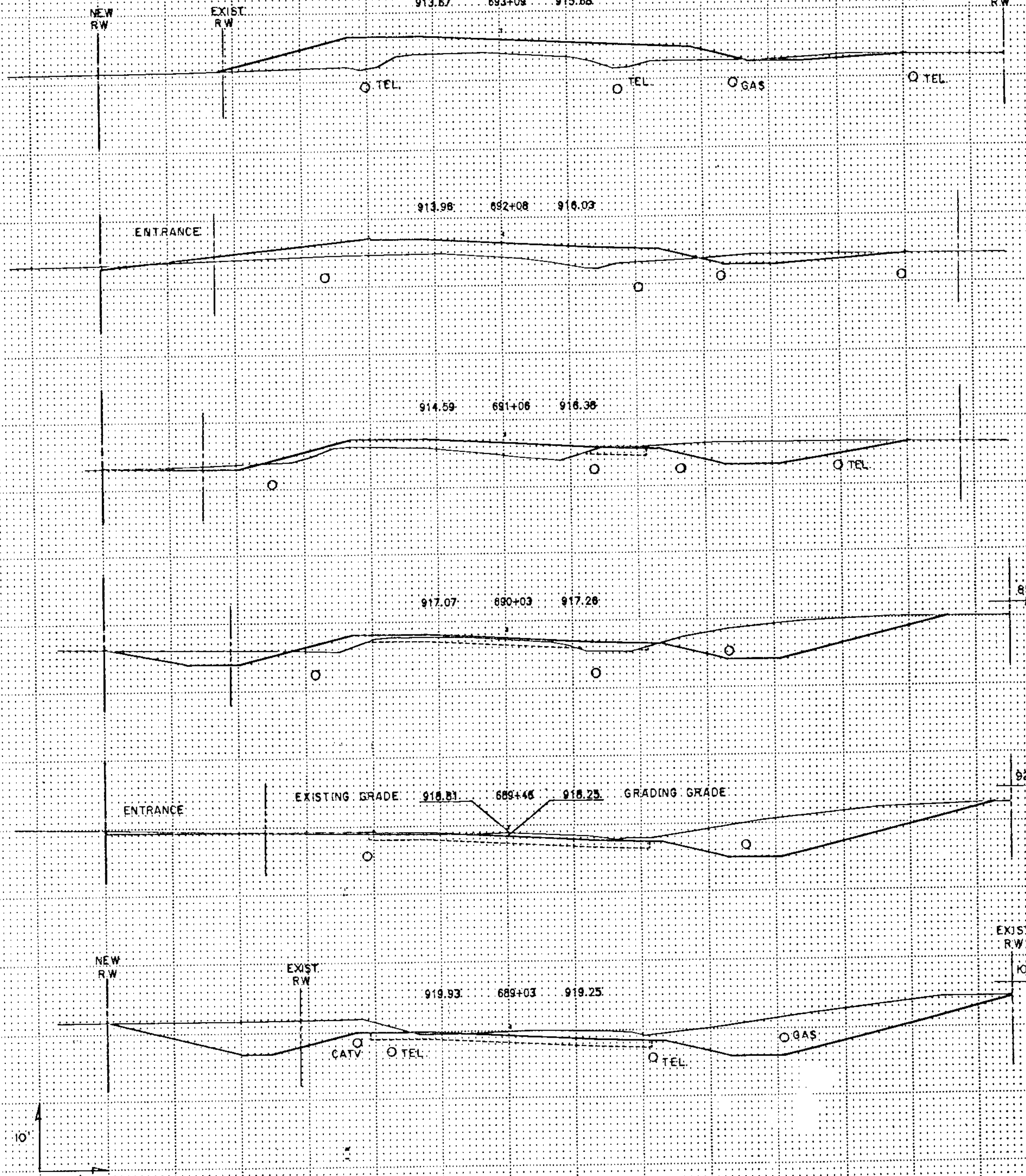
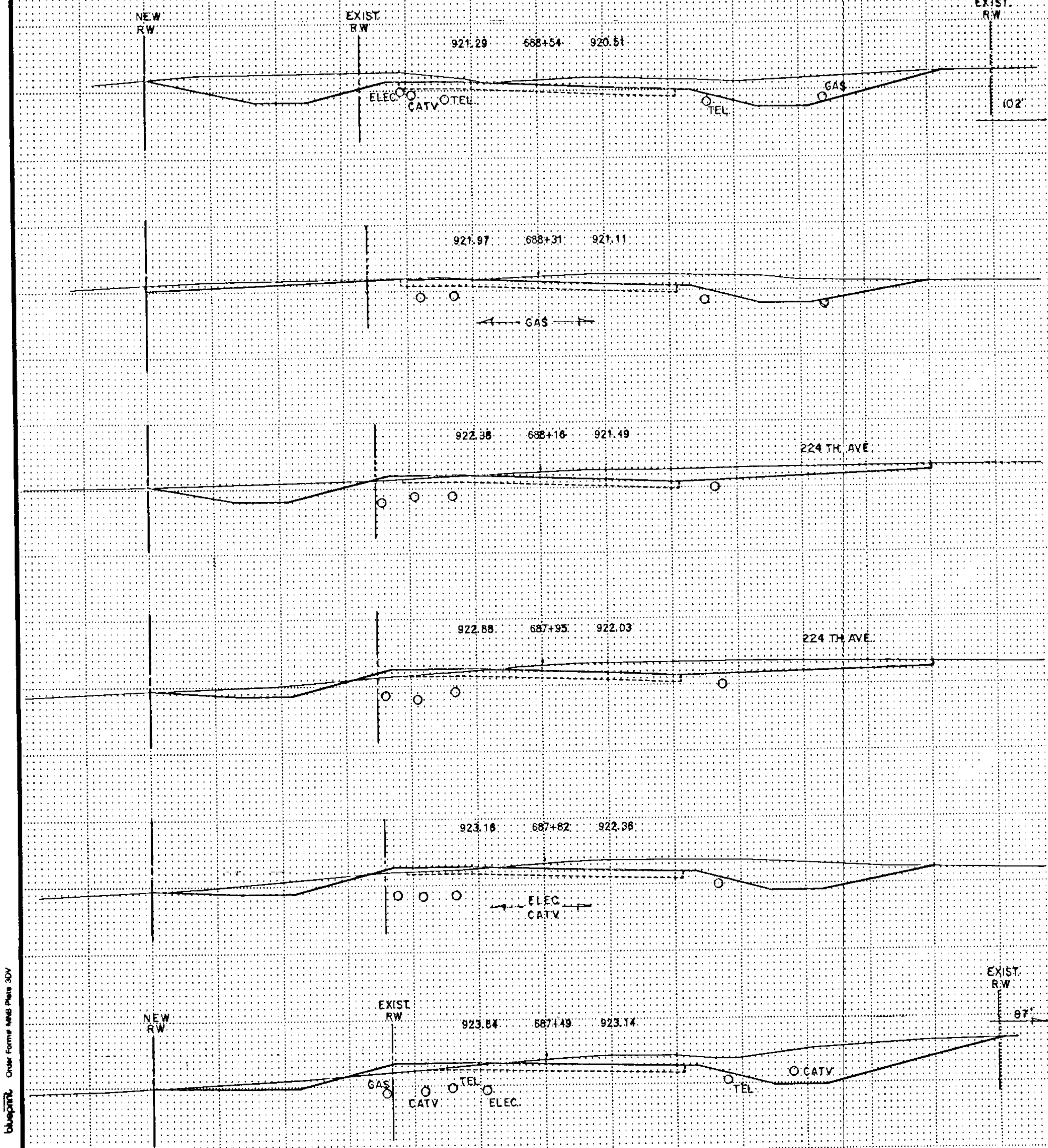


CROSS-SECTIONS
 STA 679+01 TO STA 687+02

PLATE 3 Full Cross Section DOTTED Other Forms M&S Plus 30V

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.



NOTE: UTILITY ELEVATIONS ASSUMED
 NOT ACTUAL

CROSS-SECTIONS:
 STA. 687+49 TO STA. 693+09

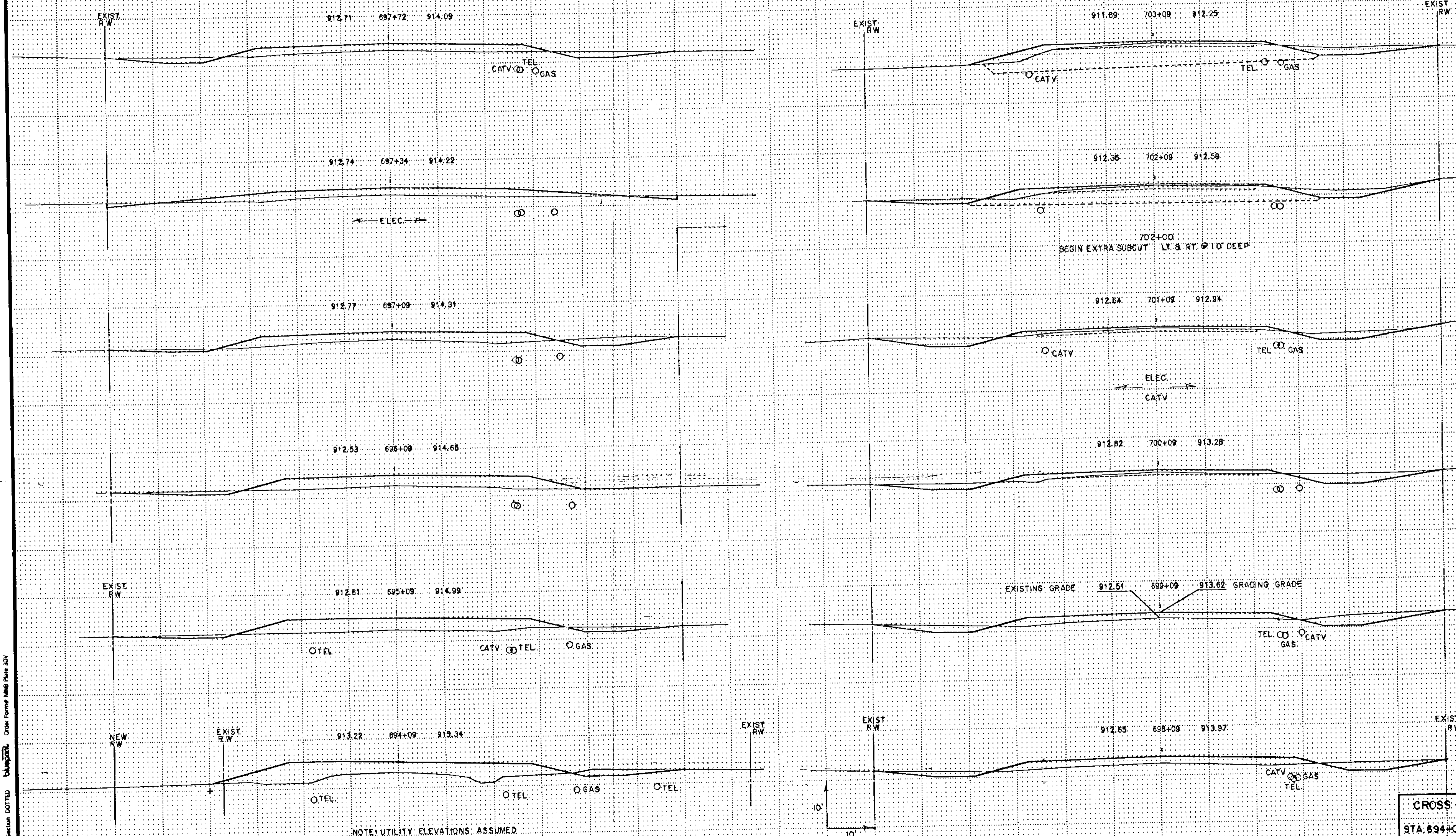
PLATE 3 Full Cross Section UNITS Draw Form 1488 Plate 307

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

EXCAVATION EMBANKMENT
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG.
 SUB
 TOPSOIL

REG.
 SUB
 TOPSOIL



CROSS-SECTIONS
 STA. 694+09 TO STA. 703+09

PLATE 3 Full Cross Section DOTTED Over Form M&B Plate J0V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

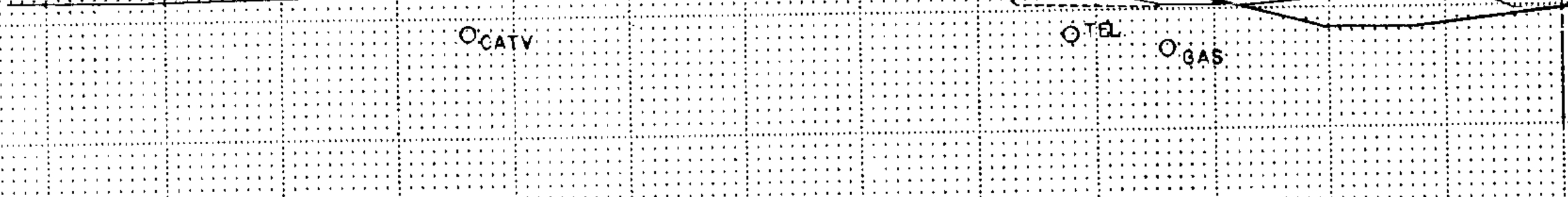
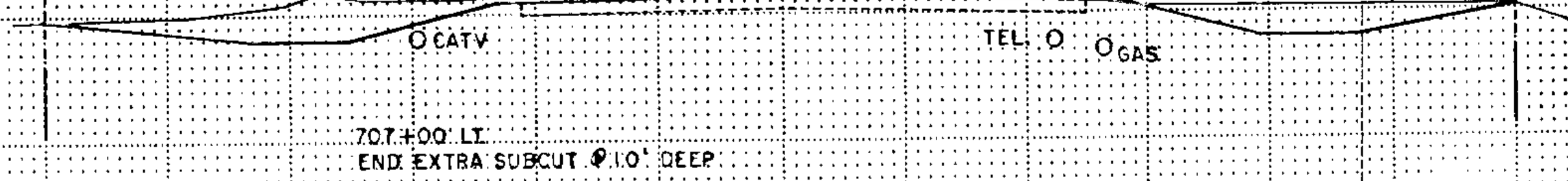
EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG.
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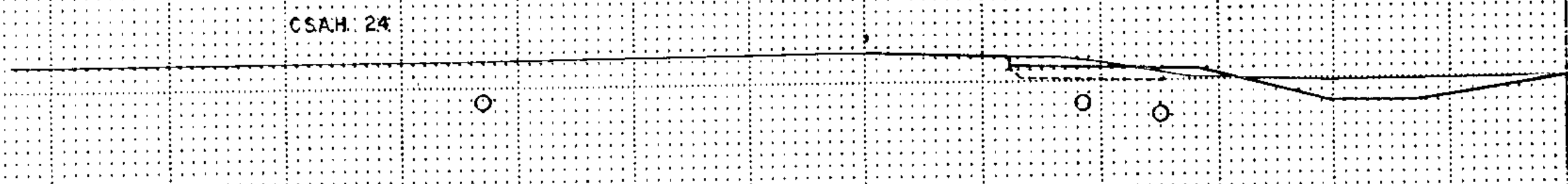
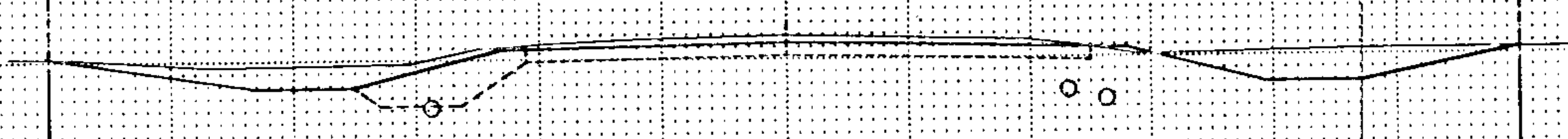
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EXIST. RW 912.58 708+06 912.62



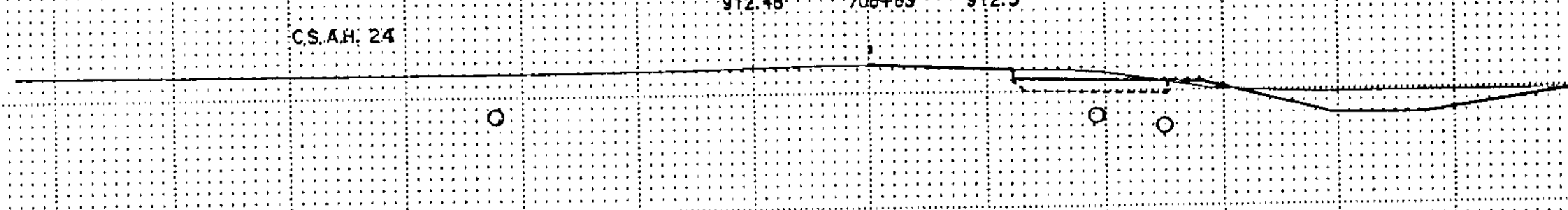
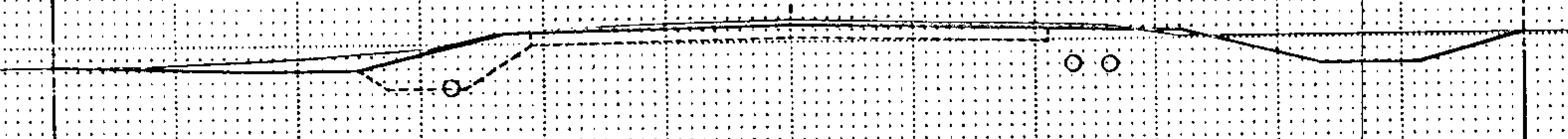
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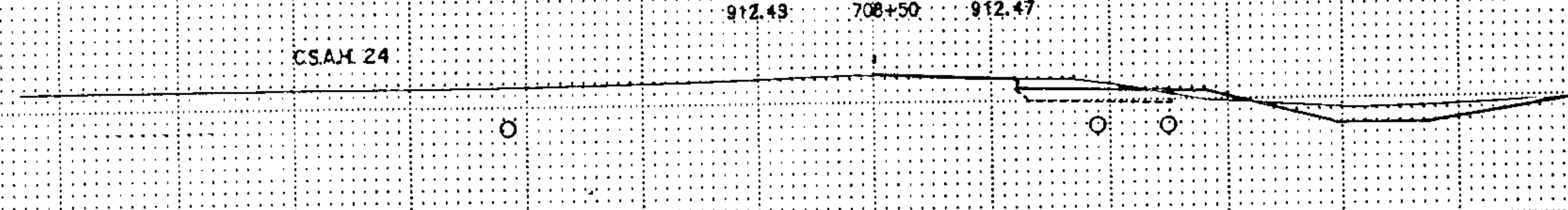
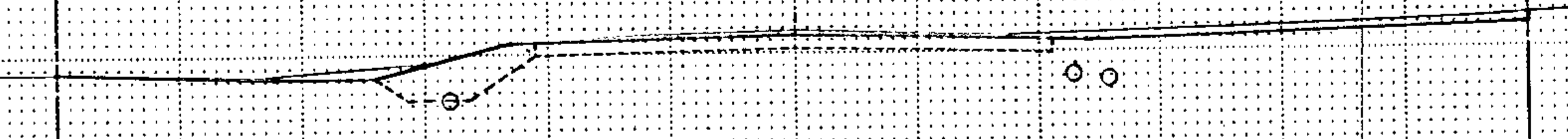
911.69 705+57 911.8

912.48 708+63 912.5



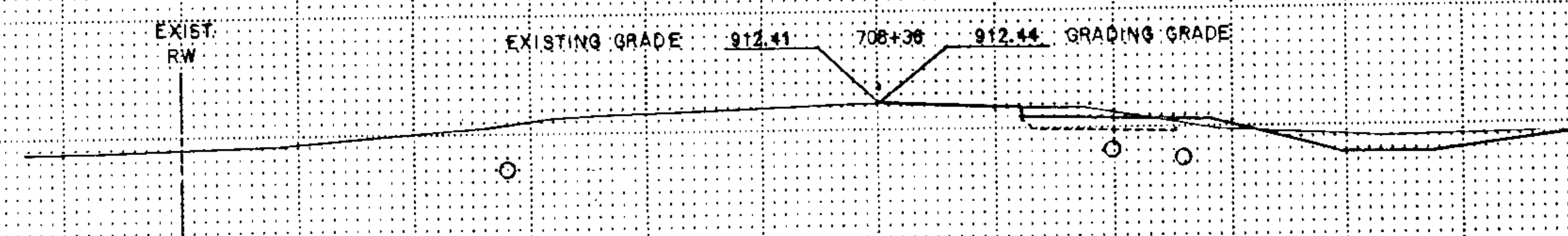
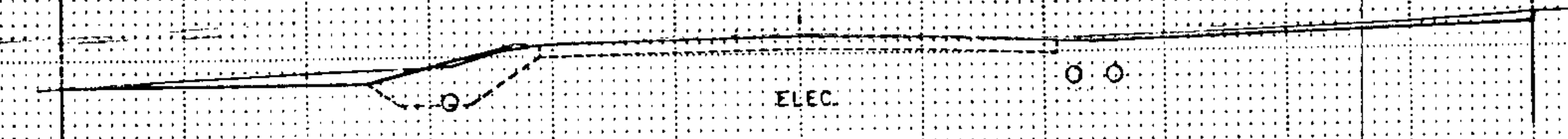
911.91 705+38 911.48 227 TH AVE.

912.49 708+50 912.47



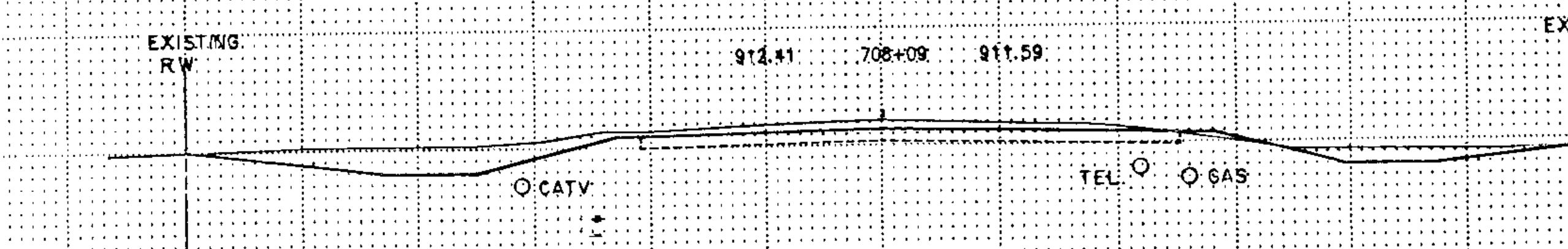
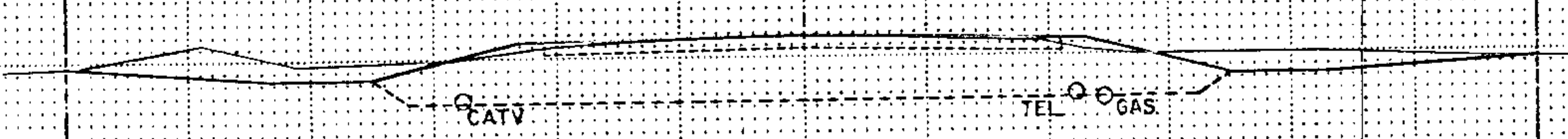
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EXISTING GRADE 912.41 708+38 912.44 GRADING GRADE



911.99 704+09 911.91

912.41 708+09 911.59



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL

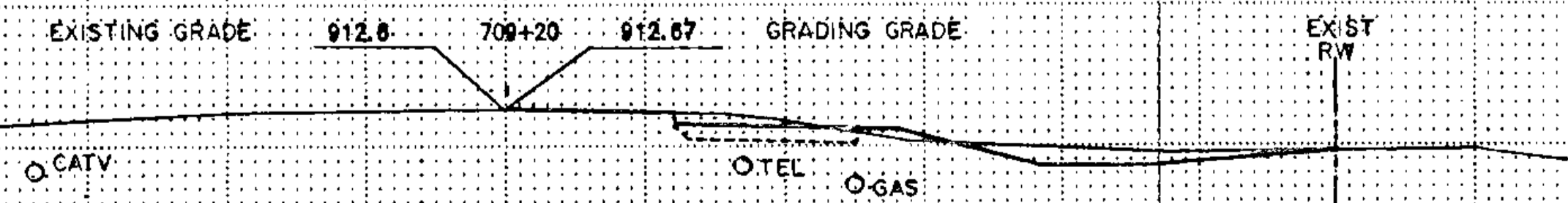
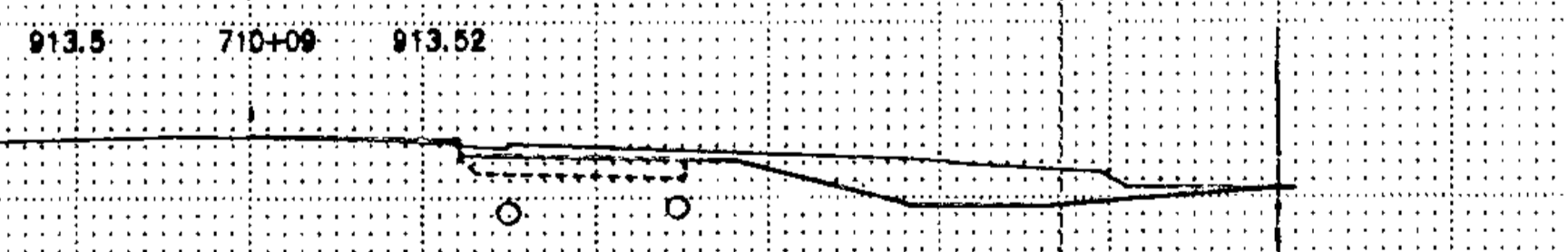
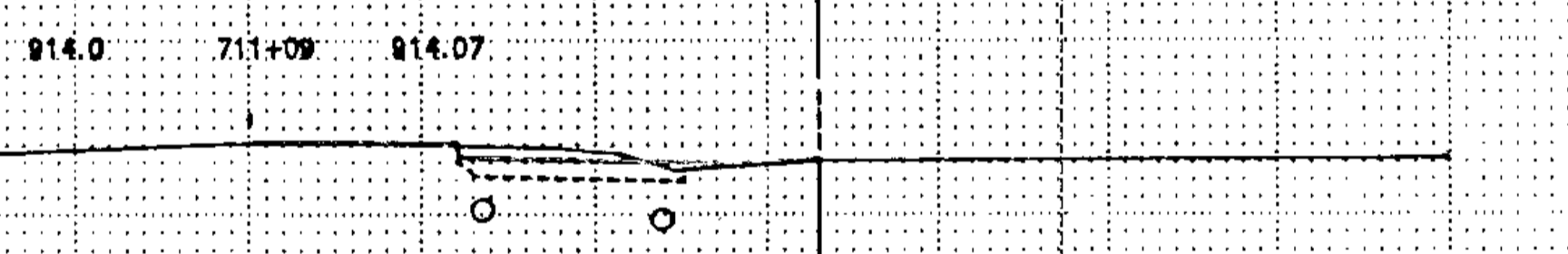
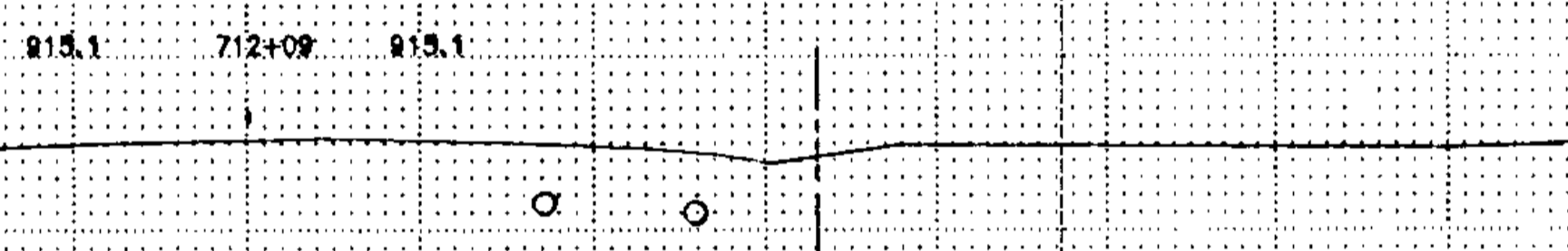
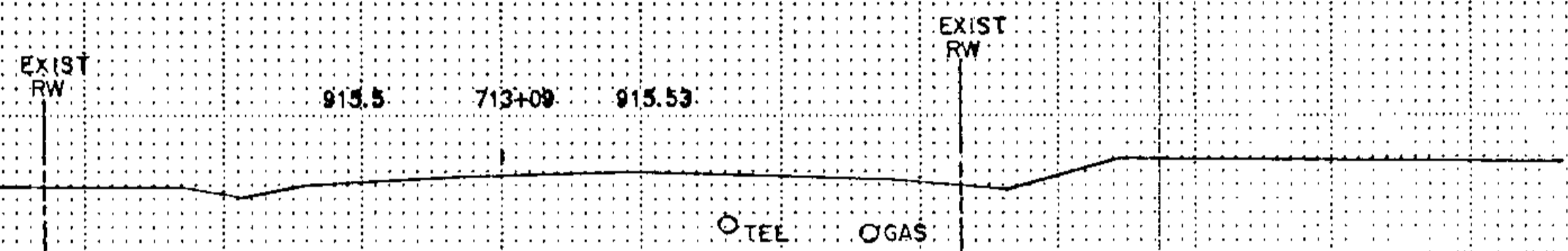
CROSS-SECTIONS

STA. 704+09 TO STA. 709+06

PLATE 3 Full Cross Section DOTTED Blueprint Over Form 148 Plus 30V

EXCAVATION EMBANKMENT
SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

REG
SUB
TOPSOIL



NOTE: UTILITY ELEVATIONS ASSUMED
NOT ACTUAL



CROSS-SECTIONS
STA. 709+20 TO STA. 713+09

PLATE 3 Full Cross Section DOTTED blueprint. Order Form NWS Plus 30V

M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
W20-2	48' x 48'		• 1
W20-3	48' x 48'		• 2 • 1
W21-4	48' x 48'		• 12
M4-10R TYPE III	48' x 18' 8 FOOT		• 1
R11-4 TYPE III	60' x 30' 8 FOOT		• 3
G20-X2	96' x 84'		• 1
G20-X2	96' x 84'		• 2
G20-X1	60' x 48'		• 2

M. U. T. C. D. CODE	SIZE	INSERT	QUANTITY
M4-8	24' x 12'		• 2
M3-1	24' x 12'		• 2
M1-6	24' x 24'		• 6
	21' x 15'		
M4-8	24' x 12'		• 1
M3-3	24' x 12'		• 3
M1-6	24' x 24'		• 1
	21' x 15'		• 3
			• 3
			• 6
M4-6	24' x 12'		
M4-8	24' x 12'		• 2
M1-6	24' x 24'		

NOTES:

- 1) ALL BARRICADES SHALL BE PROPERLY WEIGHTED WITH SANDBAGS.
- 2) ALL BARRICADES SHALL HAVE REFLECTIVE MATERIAL ON BOTH SIDES.
- 3) ALL BARRICADE MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL DATED APRIL 1995.
- 4) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL DATED APRIL 1995.
- 5) ADDITIONS OR CHANGES TO THIS PLAN MAY BE MADE AS DETERMINED BY THE ENGINEER.

* SIGN TO BE INSTALLED A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL CLOSING DATE OF ROAD CLOSURE AND IMPLEMENTATION OF DETOUR SIGING. SIGNS TO BE REMOVED AT TIME OF DETOUR INSTALLATION.

REVISIONS	BY
DATE	DATE

CERTIFIED BY *W. J. [Signature]*

P. E. REG NO. 20235 2/21 19 97

S. P. _____ S. A. P. _____ C. P. 94-03-07

QUANTITIES
DETOUR C.R. 7