

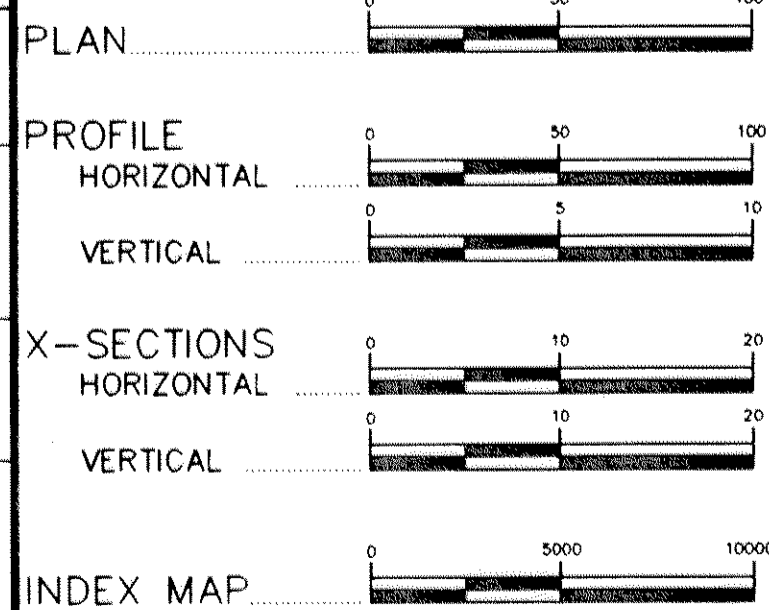
PLAN SYMBOLS

- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT OF WAY
- PROPERTY LINE
- CORPORATE OR CITY LIMITS
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY
- RIVER OR CREEK
- DRAINAGE DITCH
- CULVERT
- DROP INLET
- GAUDD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- STONE WALL OR FENCE
- HEDGE
- LOWLAND
- TIMBER ORCHARD
- BRUSH NURSERY
- CATTLE GAUDD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO
- RAILROAD CROSSING BELL
- RAILROAD CROSSING GATE
- MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- CAST IRON MONUMENT
- IRON PIN
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY
- GEOTECHNICAL BORINGS

UTILITY SYMBOLS

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE & POWER ON POWER POLES
- ON TELEPHONE POLES
- ANCHOR
- STEEL TOWER
- STREET LIGHT
- PEDESTAL (Cable Terminal)
- GAS MAIN
- WATERMAIN
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER (Sanitary or Storm)
- SEWER MANHOLE

SCALES



# MINNESOTA DEPARTMENT OF TRANSPORTATION

## ANOKA COUNTY

CONSTRUCTION PLAN FOR COLD INPLACE RECYCLING, GRADING, AGGREGATE BASE, AND BITUMINOUS SURFACING.

LOCATED ON CR 72 BETWEEN WEST C.S.A.H. 24 AND EAST C.S.A.H. 24 (GEOGRAPHIC DESCRIPTION)

FROM A POINT 276.95' W. AND 1553.07' S. OF THE N.E. COR. OF SEC. 32, T-34 N. R-24 W. TO A POINT 290.37' N. AND 841.63' E. OF THE N.E. COR. OF SEC. 32, T-34 N. R-24 W. (LEGAL DESCRIPTION)

**COLD INPLACE RECYCLING**

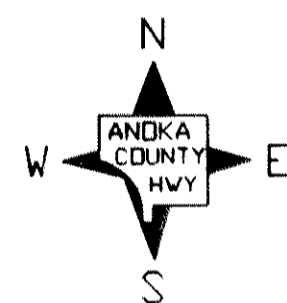
COUNTY PROJ. NO. 96-18-72

GROSS LENGTH 18,784 FEET 3.558 MILES  
 BRIDGES-LENGTH 0 FEET 0 MILES  
 EXCEPTIONS-LENGTH 0 FEET 0 MILES  
 NET LENGTH 18,784 FEET 3.558 MILES

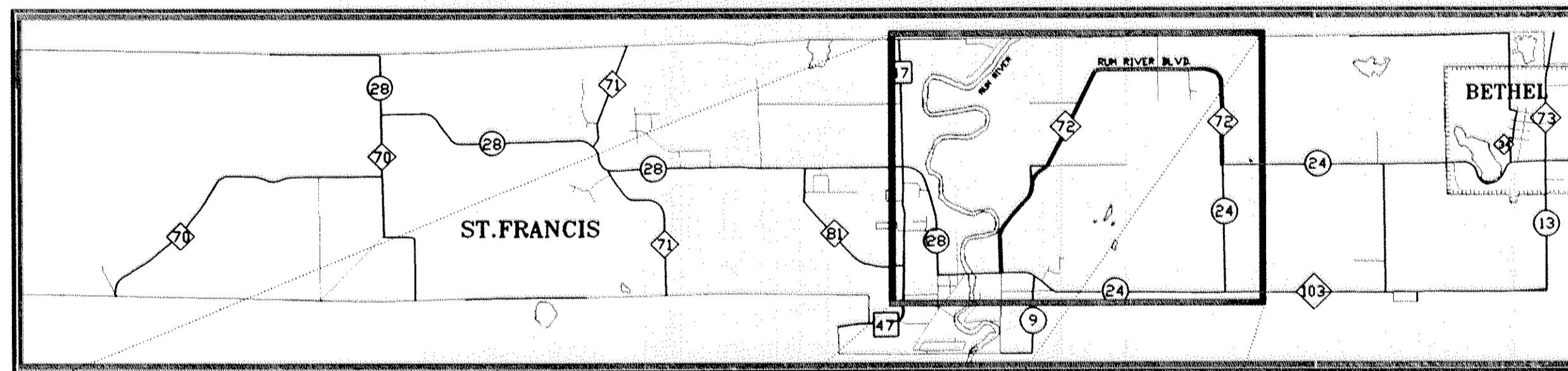
**CONSTRUCTION**

COUNTY PROJ. NO. 96-18-72

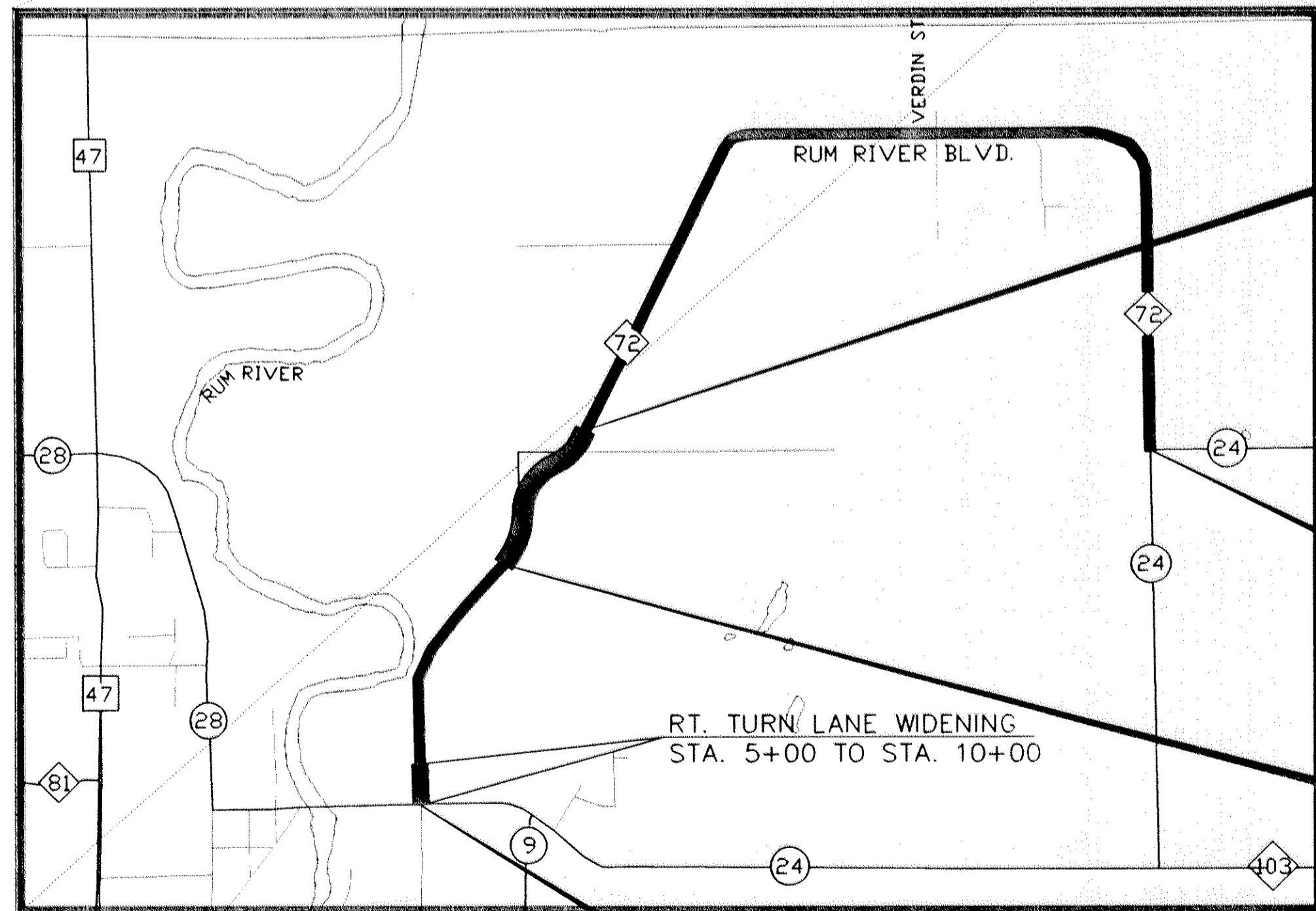
GROSS LENGTH 2,280 FEET 0.432 MILES  
 BRIDGES-LENGTH 0 FEET 0 MILES  
 EXCEPTIONS-LENGTH 0 FEET 0 MILES  
 NET LENGTH 2,280 FEET 0.432 MILES



CITIES OF  
ST. FRANCIS  
BETHEL



INDEX MAP  
1"=5000'



END RECONSTRUCTION  
 $\frac{\text{STA. } 31+70.00}{\text{STA. } 63+40.94}$

END C.P. 96-18-72  
 STA. 192+83.71

BEGIN. RECONSTRUCTION  
 $\frac{\text{STA. } 37+13.07}{\text{STA. } 8+90.00}$

RT. TURN LANE WIDENING  
 STA. 5+00 TO STA. 10+00

BEGIN. C.P. 96-18-72  
 STA. 5+00.00

VICINITY MAP  
1"=1000'

MINN. PROJ. NO. \_\_\_\_\_  
 MINN. PROJ. NO. LOCAL FUNDS \_\_\_\_\_  
**GOVERNING SPECIFICATIONS**  
 THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS AMENDED BY THE MAY 2, 1994 SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN.

### INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TABULATION CHARTS
5	EARTHWORK SUMMARY/PAVEMENT CHART
6-7	EROSION CONTROL
8-9	TYPICAL SECTIONS
10	EXISTING CONDITIONS AND REMOVAL PLAN
11	SUPERELEVATION CHART
12-13	PLAN AND PROFILE
14-17	CROSS-SECTION
18-19	MITIGATION SITE CROSS-SECTION

THIS PLAN CONTAINS 19 SHEETS

DESIGN DESIGNATION

ΣN18 <sub>20</sub>	297,163
R VALUE	50
ADT (1996)=	783
Proj. ADT (2016)=	1,331
Proj. HCADT (2016)=	91
Soil Factor	N/A
7 TON DESIGN	
Shoulder Width	3 FT.

Functional Classification COLLECTOR  
 No. of Traffic Lanes 2 No. of Parking Lanes 0  
 Design Speed 45 MPH  
 Based on Stopping Sight Distance  
 Height of eye 3.5' Height of object 0.5'  
 Design Speed not achieved at:  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 8/30/96 REG. NO. 20235 ENGR. *[Signature]* ANOKA COUNTY ENGINEER  
 DESIGN SQUAD M. GABRCK AND M. NAJI

Approved 8/30, 1996 *[Signature]* ANOKA COUNTY ENGINEER

REVISIONS	DATE	BY



DRAINAGE CHART				F & I CULV.										
STATION	LOC	INPLACE	REMARKS	SODDING	REMOVE	SALVAGE	15' CMP		18' CMP		24' RCP			
				CULV. PIPE	CULV. PIPE	CULV. PIPE	LN. FT.	AP.	LN. FT.	AP.	LN. FT.	AP.	LN. FT.	AP.
9+55	33'	LT.	ENT#23400	16			44'	2						
12+40	34'	RT.	235th AVE	22					62	2				
13+55	30'	LT.	ENT#23520	16			44'	2						
13+85	34'	RT.	ENT#23525	16			54'	2						
16+75	Q			28							62	2		
18+50	42'	LT.	ENT#23554	16			60'	2						
28+20	34'	RT.	ENT#23787	16			48'	2					54	2
30+50	Q			28										
TOTALS				158			250	10	62	2	116	4		

CLEAR AND GRUBBING					
STATION TO STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ACRE	TREE	ACRE
9+44	35' RT	1		1	
9+53	30' RT	1		1	
9+57	29' RT	1		1	
9+76	50' LT	1		1	
9+90	49' LT	1		1	
9+99	49' LT	1		1	
10+09	49' LT	1		1	
10+19	48' LT	1		1	
10+29	48' LT	1		1	
10+40	48' LT	1		1	
10+52	47' LT	1		1	
10+64	46' LT	1		1	
10+76	46' LT	1		1	
10+91	46' LT	1		1	
11+08	44' LT	1		1	
13+93	7' LT	1		1	
13+96	1' LT	1		1	
14+07	57' RT	1		1	
14+16	50' RT	1		1	
14+21	51' RT	1		1	
14+24	54' RT	1		1	
14+32	48' RT	1		1	
14+38	47' RT	1		1	
14+43	46' RT	1		1	
14+48	44' RT	1		1	
14+57	42' RT	1		1	
14+63	43' RT	1		1	
14+69	42' RT	1		1	
14+75	40' RT	1		1	
14+80	40' RT	1		1	
14+87	38' RT	1		1	
14+92	39' RT	1		1	
14+97	38' RT	1		1	
15+03	37' RT	1		1	
15+09	37' RT	1		1	
15+19	36' RT	1		1	
15+24	34' RT	1		1	
15+32	34' RT	1		1	
15+74	32' RT	1		2	
17+38	48' LT	1		1	
17+86	50' LT	1		1	
18+24	56' LT	1		1	
26+77	58' LT	1		1	
26+78	55' LT	1		1	
29+05	44' RT	1		1	
29+19	48' RT	1		1	
29+28	41' RT	1		1	
29+42	40' RT	1		1	
29+55	39' RT	1		1	
29+64	33' RT	1		1	
TOTALS		50		51	

TURF ESTABLISHMENT (R)						
STATION TO STATION	LOC./DESC.	SODDING	SEEDING	SEED	MULCH	FERTILIZER
		SQ. YDS.	ACRES	POUND	TON	POUND
9+00 - 11+80	RT.	1220				
12+50 - 13+80	LT.	575				
14+00 - 15+80	RT.	780				
17+15 - 18+70	LT.	675				
8+90 - 31+70	LT&RT		3.594	125.8	7.1	1797.4
TOTAL		3250	3.594	125.8	7.1	1797.4

SALVAGE & INSTALL FENCE				
STATION	LOC.	SALVAGE	INSTALL	REMARKS
13+80-13+91	4'-44' LT	40	0	LINE FENCE
13+91-16+11	4'-33' LT	218	218	INSTALL AT R/W
16+11-16+10	33'-60' LT	27	0	LINE FENCE
18+69	56'-60' LT	4	0	LINE FENCE
18+69-18+84	56'-60' LT	16	16	INSTALL AT R/W
29+28-30+33	34'-41' LT	105	105	INSTALL AT R/W
TOTALS		410	339	

DRAINAGE CHART  
 TURF ESTABLISHMENT  
 CLEAR AND GRUBBING  
 SALVAGE & INSTALL FENCE

TABULATION CHARTS

REVISIONS	BY	DATE

CONCRETE CURB & GUTTER REMOVAL			
STATION - STATION	LOCATION	REMARKS	LIN. FT.
5+00	LT		51
TOTAL			51

SAWCUT BITUMINOUS			
LOCATION		REMARKS	LIN. FT.
8+00	LT		52
TOTAL			52

BITUMINOUS REMOVAL			
STATION - STATION	LOCATION	REMARKS	SQ. YD.
8+00			82
TOTAL			82

BALE CHECKS			
STATION	LOCATION	REMARKS	EACH
13+00	LT		5
13+25	LT	CULVERT INLET	1
12+00	RT	CULVERT INLET	1
13+60	RT	CULVERT INLET	1
15+00	RT		5
16+75	LT	CULVERT INLET	1
18+75	LT	CULVERT INLET	1
20+00	RT		5
20+00	LT		5
23+00	RT		5
26+00	LT		5
28+00	LT		5
27+75	RT		5
29+50	LT		5
29+50	RT		5
29+75	RT	CULVERT INLET	1
30+50	LT	CULVERT INLET	1
31+00	LT		5
TOTAL			62

TABULATION CHARTS

- CONCRETE CURB & GUTTER REMOVAL
- BITUMINOUS REMOVAL
- SAWCUT BITUMINOUS
- BALE CHECKS

EARTHWORK SUMMARY

EXCAVATION

COMMON EXCAVATION . . . . .	9,230	CU.YD.	{ REGULAR. . . . . 6887 CU.YD. ① SUBCUT . . . . . 1314 CU.YD. ② TOPSOIL . . . . . 1029 CU.YD. ②
MUCK EXCAVATION . . . . .	.723	CU.YD.	
EXCAVATION SPECIAL . . . . .	.3344	CU.YD.	

EMBANKMENT (CV)

GRANULAR. . . . .	4919	CU.YD.	③
SUBCUT . . . . .	1314	CU.YD.	
TOPSOIL. . . . .	1801	CU.YD.	

- ① 6,666 CU. YD. FOR NEW CONSTRUCTION AND 221 CU. YD. FOR TURN LANE CONSTRUCTION
- ② NEW CONSTRUCTION ONLY
- ③ 4,862 CU. YD. FOR NEW CONSTRUCTION AND 57 CU. YD. FOR TURN LANE CONSTRUCTION
- ④ INCLUDES 2880 CU. YD. REGULAR EXCAVATION AND 464 CU. YD. TOPSOIL STRIPPING

BALANCE

TOPSOIL  
 TOPSOIL DRESSING (CV) - [TOPSOIL STRIPPING (EV) x SHRINKAGE FACTOR] = EXCESS(-) OR SHORTAGE(+)  
 1,801 - (1,493 x 0.85) = 532 CU.YD. SHORTAGE

GRANULAR  
 GRAN(CV)+SUBCUT - [REGULAR EXCAVATION (EV) x SHRINKAGE FACTOR] - [SUBCUT EXCAVATION x SHRINKAGE FACTOR] = EXCESS(-) OR SHORTAGE(+)  
 4919+1314 - (6887 x 0.85) - (1314 x 0.90) = -804 CU.YD. EXCESS

MUCK  
 TOPSOIL SHORTAGE - [MUCK EXCAVATION (EV) x SHRINKAGE FACTOR] = EXCESS(-) OR SHORTAGE(+)  
 532 - (723 x 0.60) = 98 CU.YD. SHORTAGE  
 98 x 1.2 = 118 CU. YD. (LV)

SOIL FACTORS:

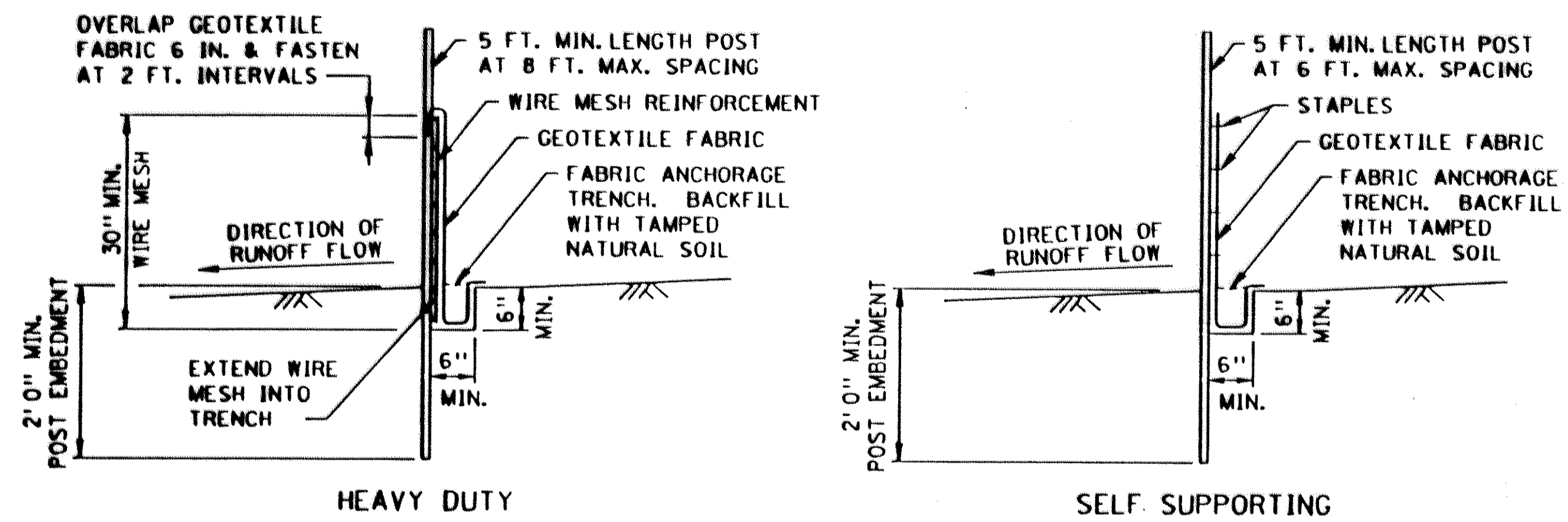
- (1) REGULAR GRADING AND TOPSOIL DRESSING (EV TO CV): 85% SHRINKAGE
- (2) SUBCUT COMPACTION (EV TO CV): 90% SHRINKAGE
- (3) GRANULAR BORROW (CV TO LV): 120% SWELL
- (4) MUCK EXCAVATION (EV TO CV): 60% SHRINKAGE

SOILS AND CONSTRUCTION NOTES:

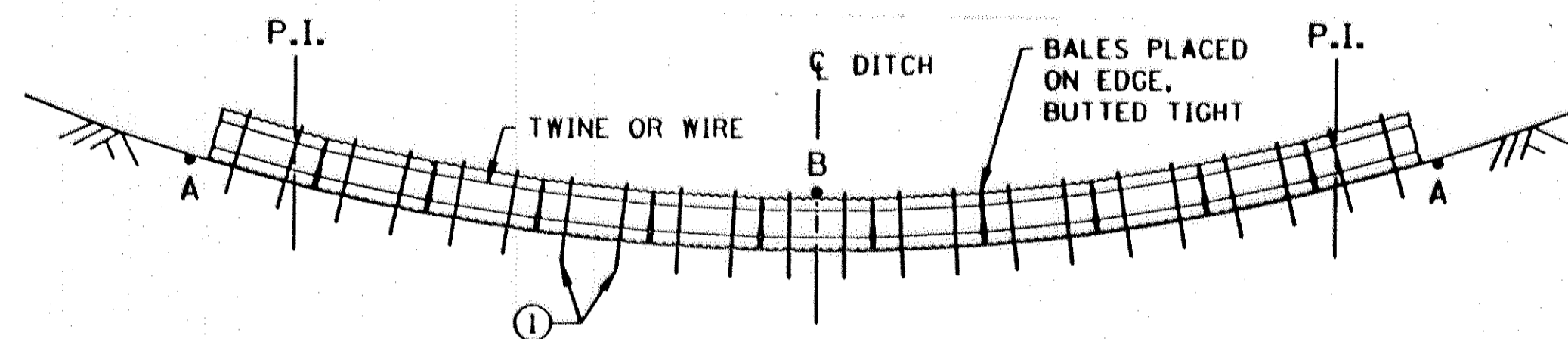
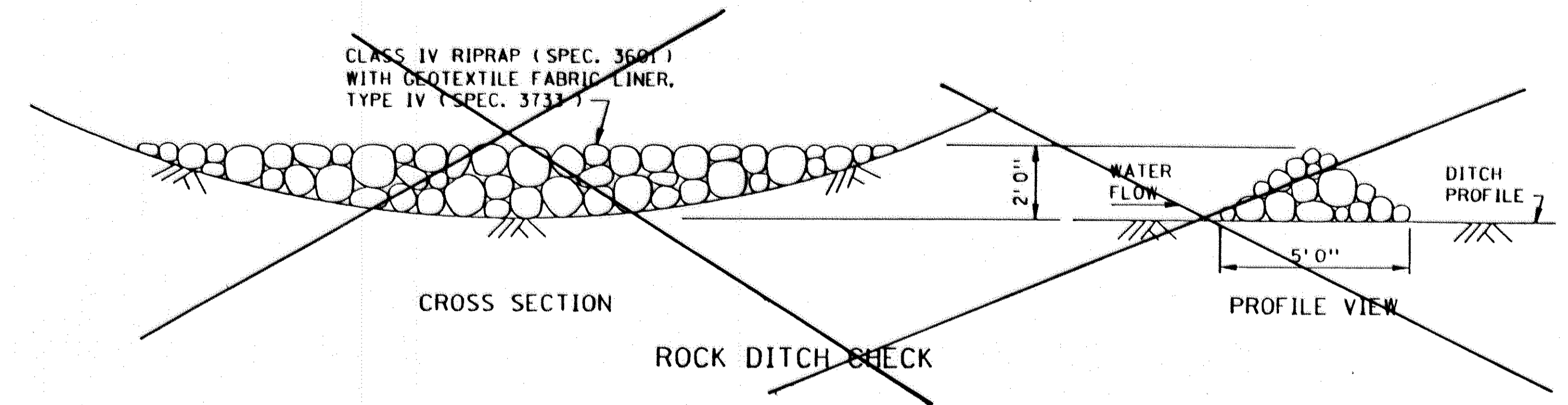
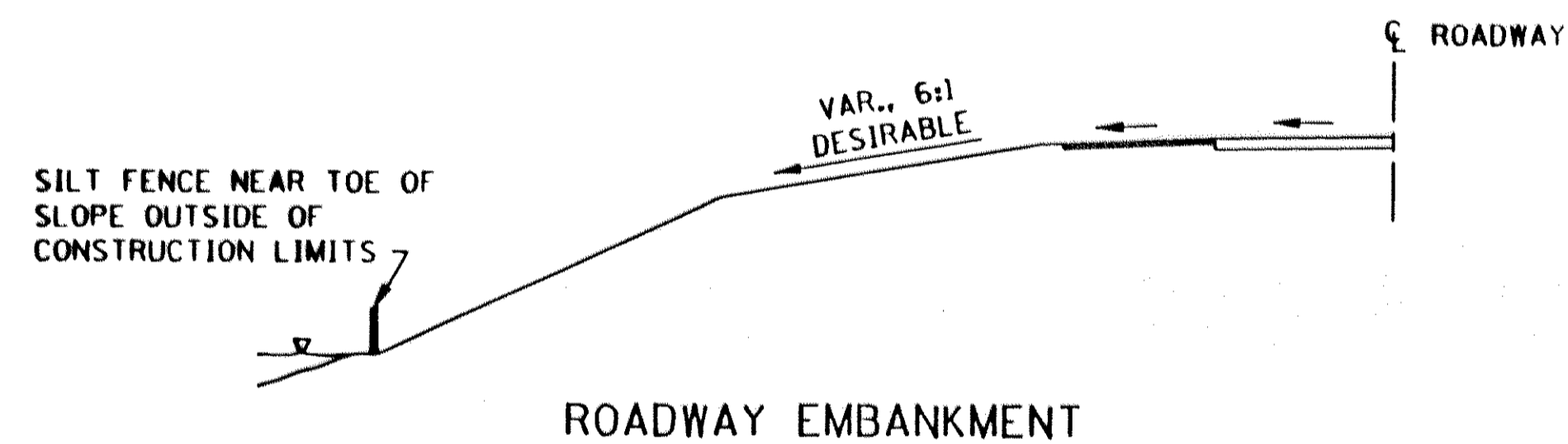
1. TOP OF GRADING GRADE IS DEFINED AS THE BOTTOM OF THE AGGREGATE BASE.
2. IN FILL AREAS, THE SUBGRADE SHALL BE CONSTRUCTED WITH SELECTED GRADING MATERIAL.
3. SELECTED GRADING MATERIALS SHALL CONSIST OF SELECT GRANULAR MATERIALS.
4. GRANULAR MATERIAL, REGARDLESS OF SOURCE, SHALL MEET THE REQUIREMENTS 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".
14. PLACE MINIMUM 4 INCHES TOPSOIL OR SLOPE DRESSING ON ALL AREAS DISTURBED BY CONSTRUCTION AND SCHEDULED FOR PERMANENT TURF ESTABLISHMENT. FERTILIZE WITH COMMERCIAL FERTILIZER, ANALYSIS 10-10-10, AT A RATE OF 500 POUND PER ACRE.
15. USE MIXTURE 700 SEED AND TYPE 1 MULCH IN AREAS TO BE SEEDED.
16. SOD ALL DISTURBED LAWNS.
17. ALL SOD UTILIZED WITHIN THE PROJECT LIMITS SHALL MEET THE REQUIREMENTS OF SPEC. 3878.2C (SALT RESISTANT 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 5 INCH IN DEPTH.(2" BIT. ENT.) CONTRACTOR SHALL INVESTIGATE AND MAKE OWN DETERMINATION OF ACTUAL PAVEMENT DEPTH.
20. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS.

TABULATION CHARTS,  
 EARTHWORK SUMMARY

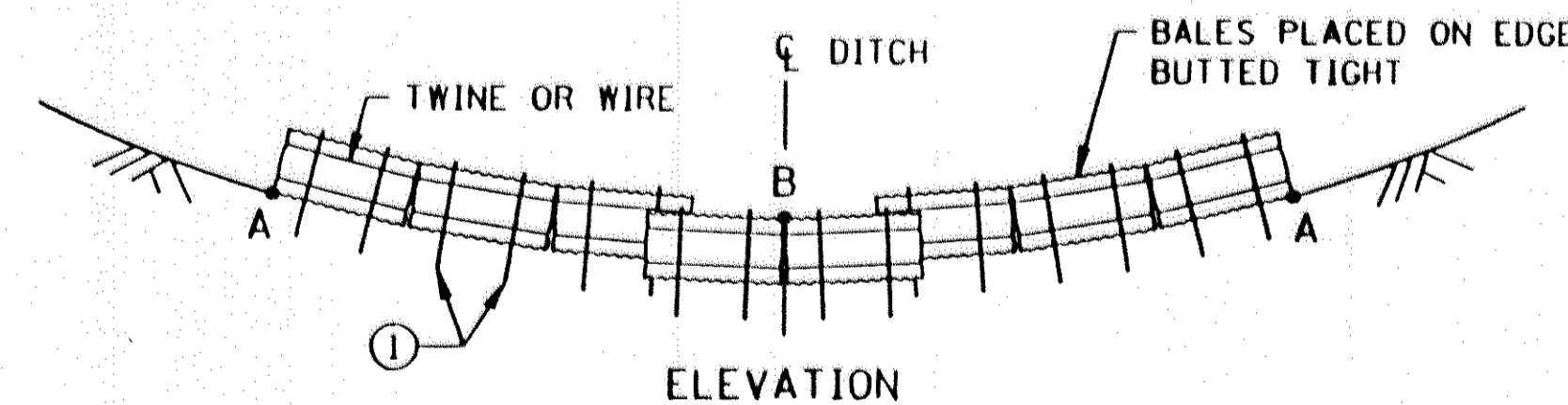
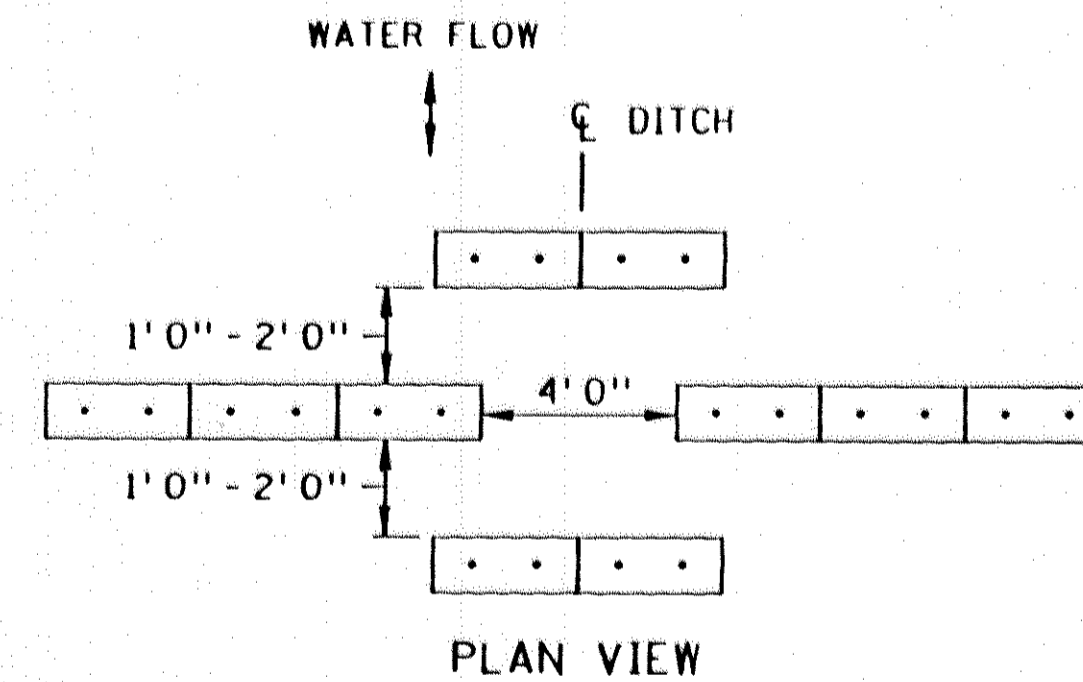
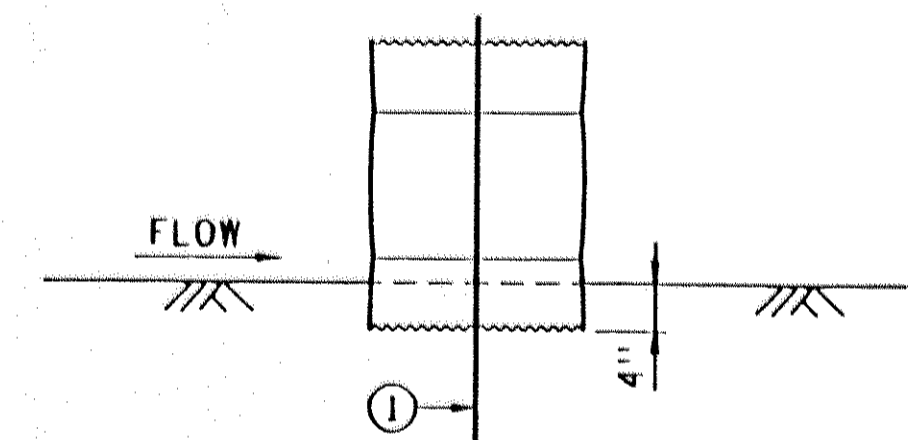
SERVER C464511/USR/STANDARDS FILE NAME S4052E95.SPN



**SILT FENCE DETAILS**  
 TO PROTECT AREAS FROM SHEET FLOW  
 (SEE SPEC. 3886 )  
**DESIGN CRITERIA:**  
 MAXIMUM CONTRIBUTING AREA: 3 ACRES



**NOTE:**  
 POINT A MUST BE HIGHER THAN POINT B



**NOTE:**  
 POINT A MUST BE HIGHER THAN POINT B

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

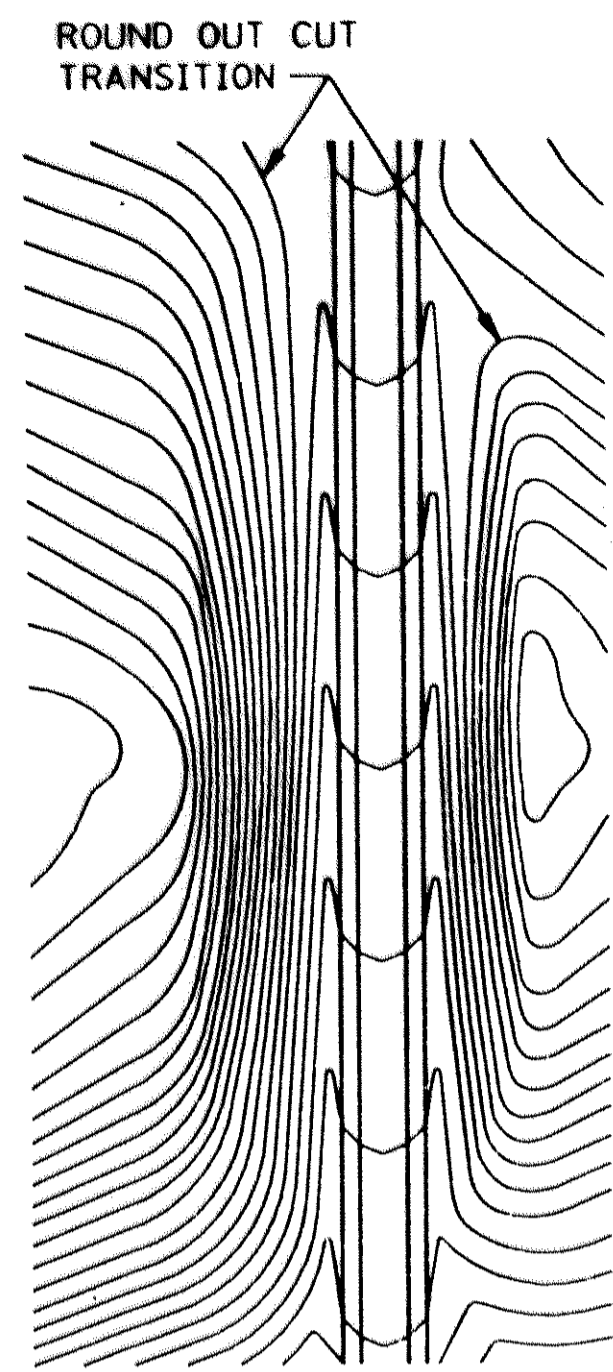
RECOMMENDED SPACING BETWEEN DITCH CHECKS	
DITCH GRADE (%)	SPACING (FT.)
2	100
4	75
6	50
8	40
10	25

**DESIGN CRITERIA:**

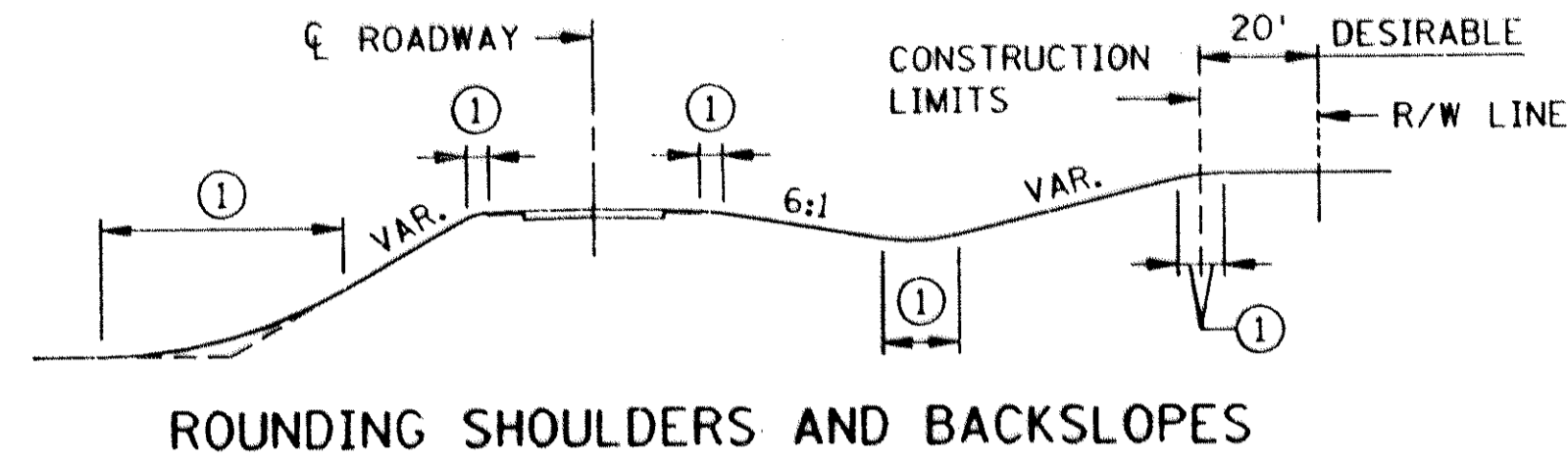
	<b>BALE</b>	<b>ROCK</b>
STORM FREQUENCY:	2 YR. - 24 HR.	10 YR. - 24 HR.
MAX. FLOW VELOCITY:	5 FT./SEC.	12 FT./SEC.
MAX. DITCH GRADE:	5%	—
MAX. DRAINAGE AREA:	2 ACRES	5 ACRES

**NOTE:**  
 ① TWO 2 IN. X 2 IN. WOOD STAKES OR REINFORCING BARS IN EACH BALE AND EMBEDDED IN THE GROUND 10 IN. MINIMUM.

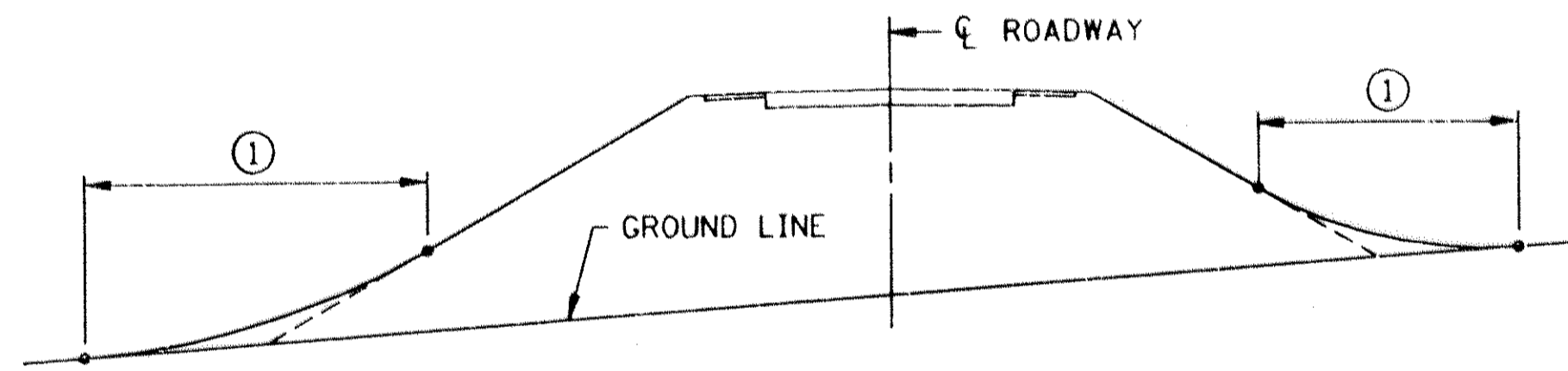
STANDARD SHEET NO. 5-297.405 ( 2 OF 3 )	TITLE: TEMPORARY EROSION CONTROL
STANDARD APPROVED: MAY 1, 1995	
STATE PROJ. NO. <u>GP 96-18-72</u> SHEET NO. <u>6</u> OF <u>19</u> SHEETS	



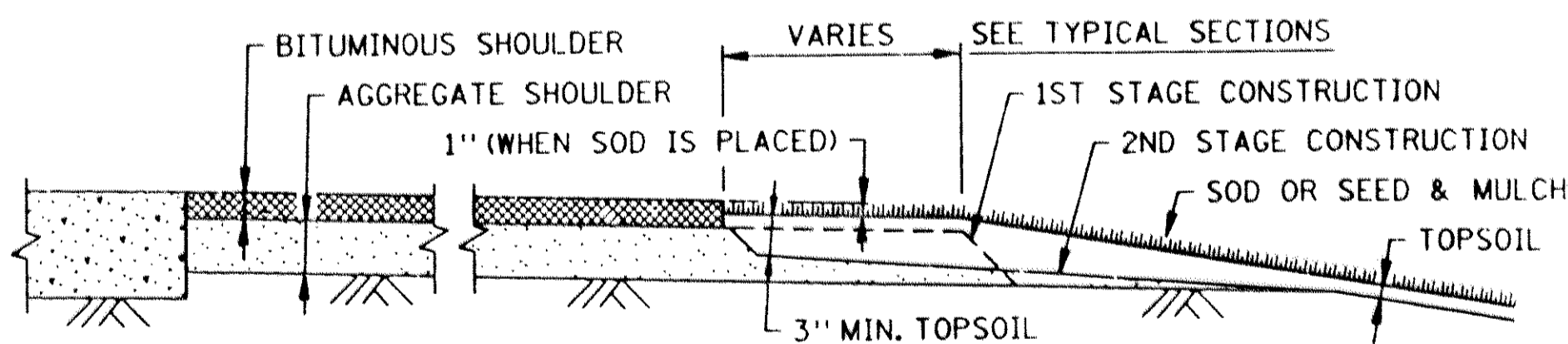
CONTOURING ROAD CUTS



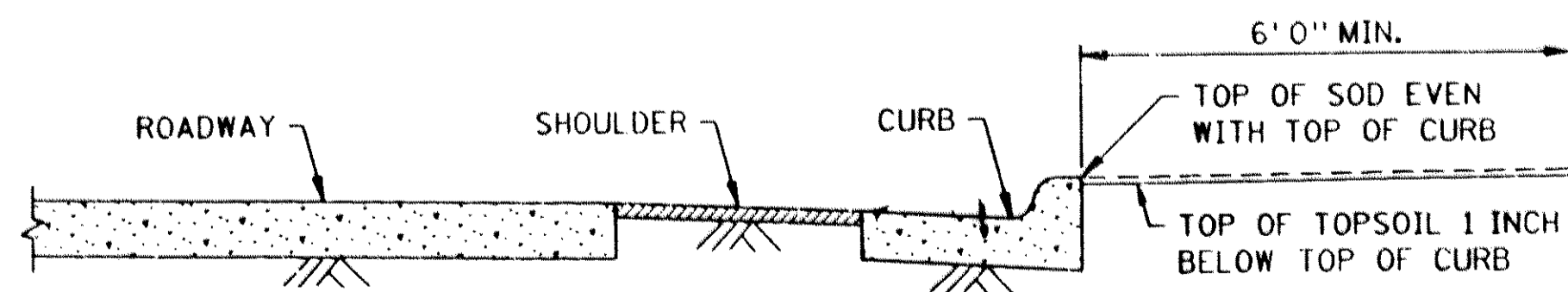
ROUNDING SHOULDERS AND BACKSLOPES



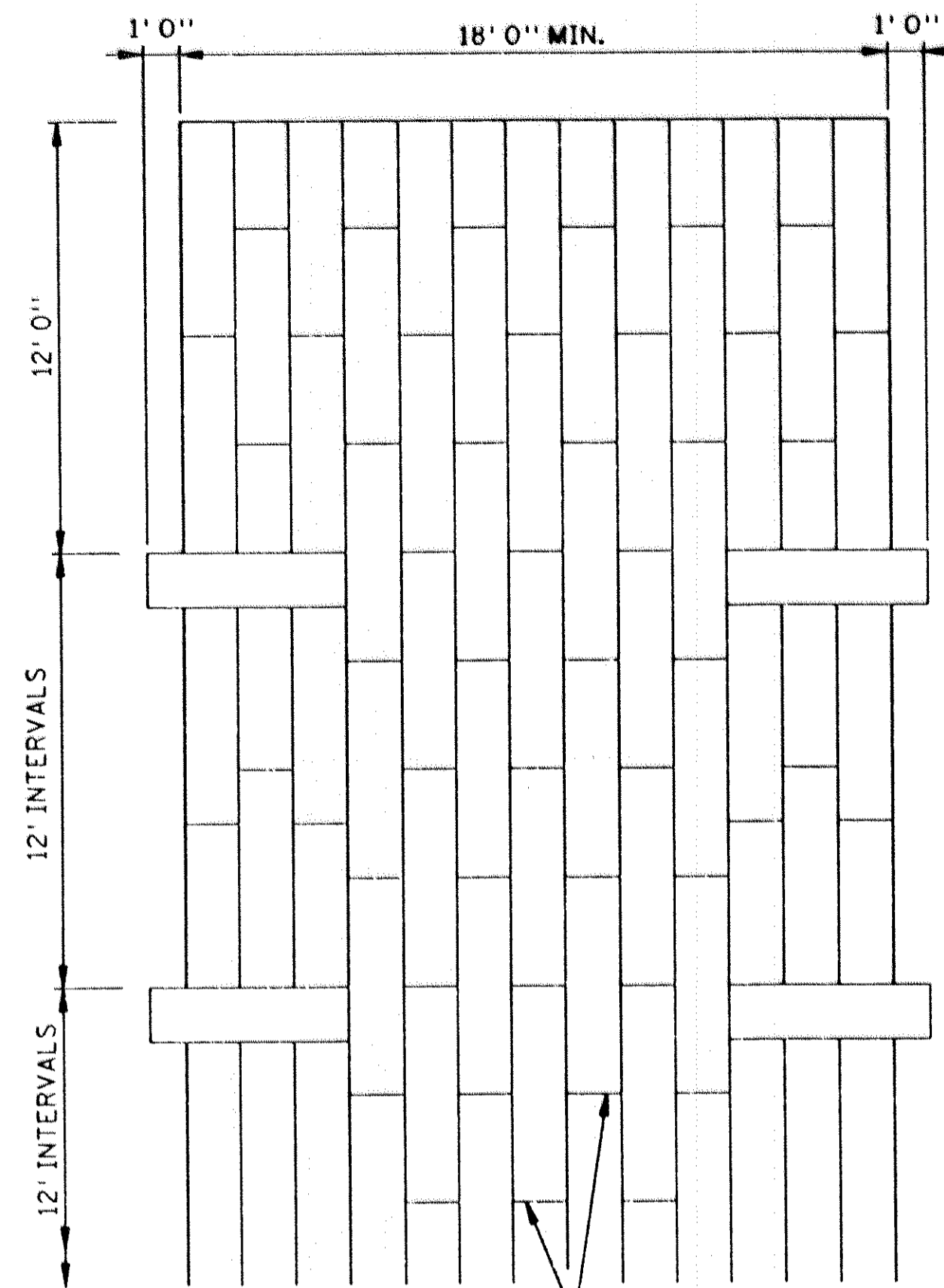
SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



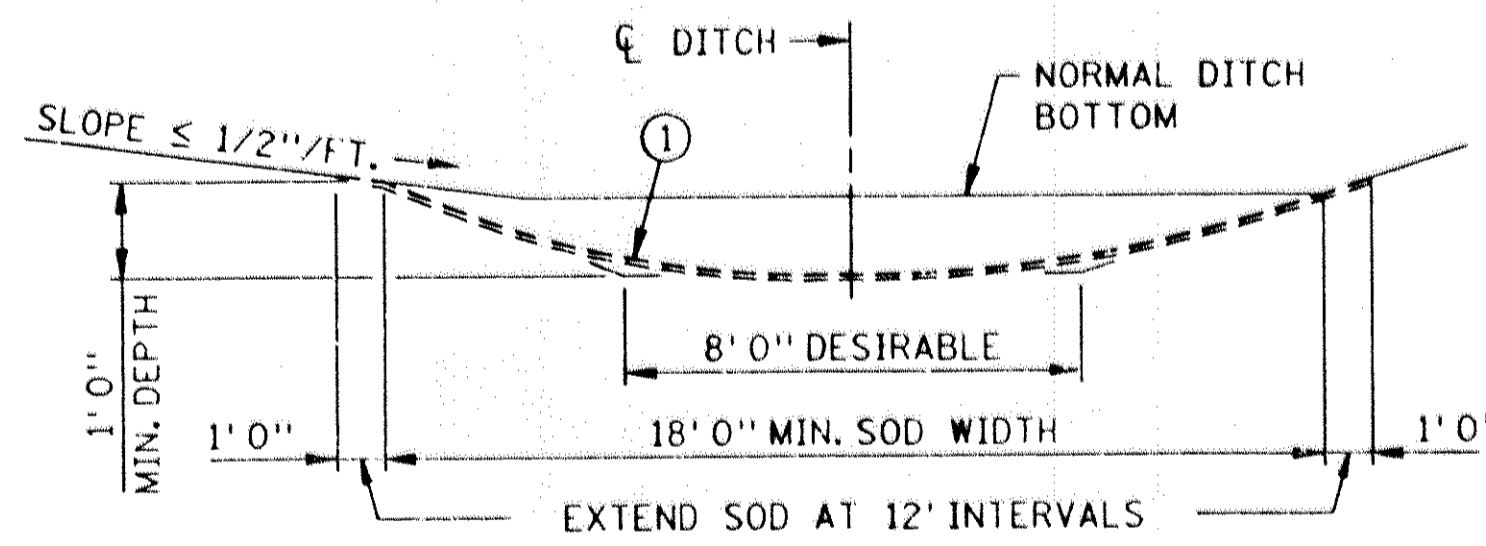
SHAPING AND TOPSOILING INSLOPES



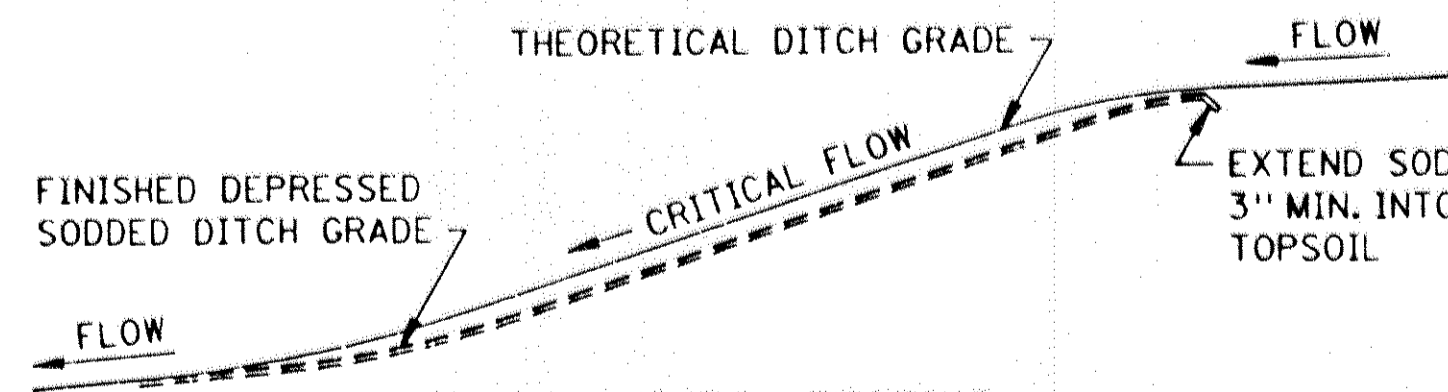
SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED



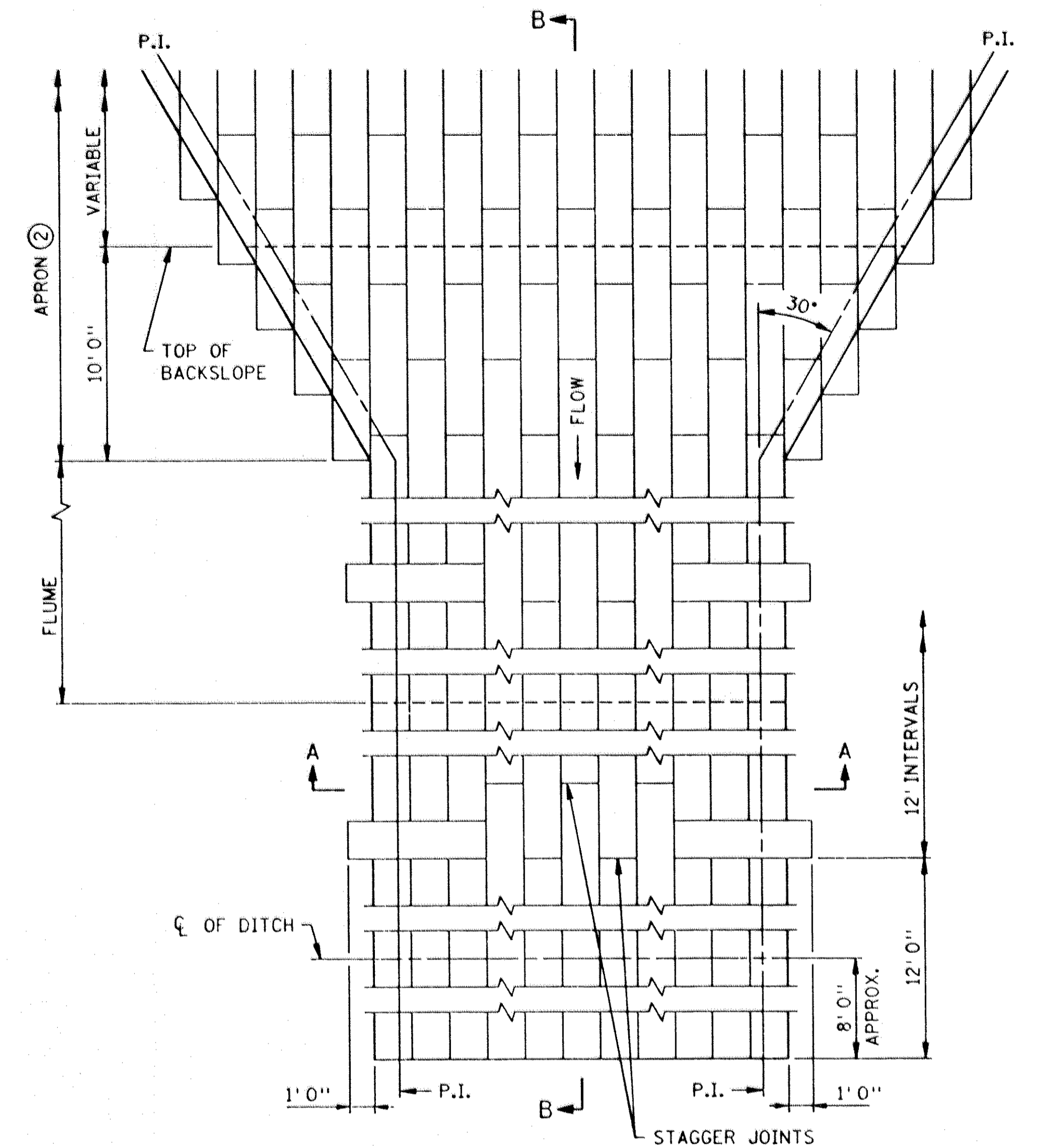
PLAN VIEW



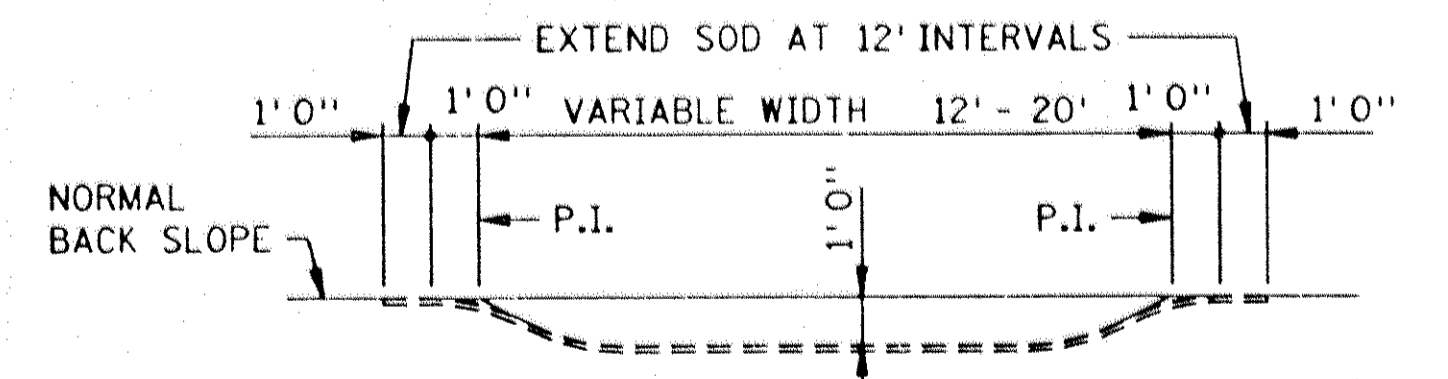
SODDED DITCH CROSS SECTION  
WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 1/2"/FT.), FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.



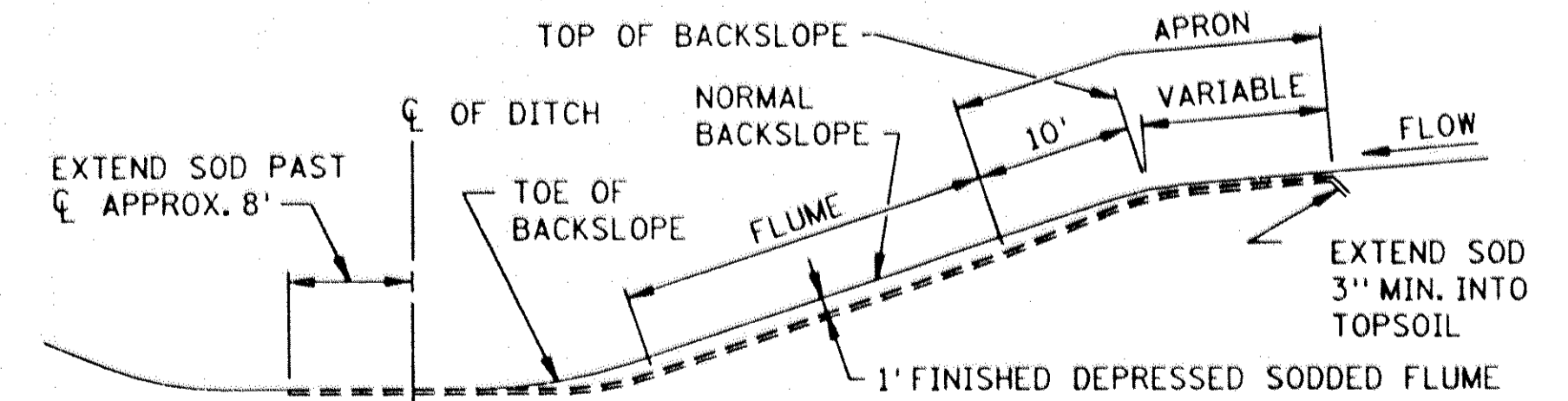
DITCH PROFILE  
SODDED DITCH DETAILS



PLAN VIEW



SECTION A-A



SECTION B-B  
SODDED FLUME DETAILS

NOTES:

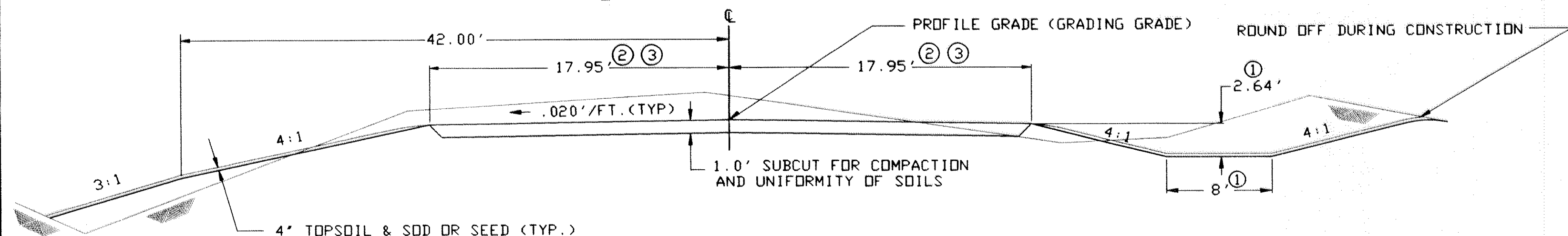
- SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
- ① FOR ROUNDING, SEE ROAD DESIGN MANUAL.
- ② CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.

STANDARD SHEET NO. 5-297.404	TITLE: PERMANENT EROSION CONTROL ALONG ROADWAYS, DITCHES AND FLUMES
STANDARD APPROVED: DECEMBER 19, 1990	
STATE PROJ. NO. C.P. 96-18-72	SHEET NO. 7 OF 19 SHEETS

**GRADING SECTION**

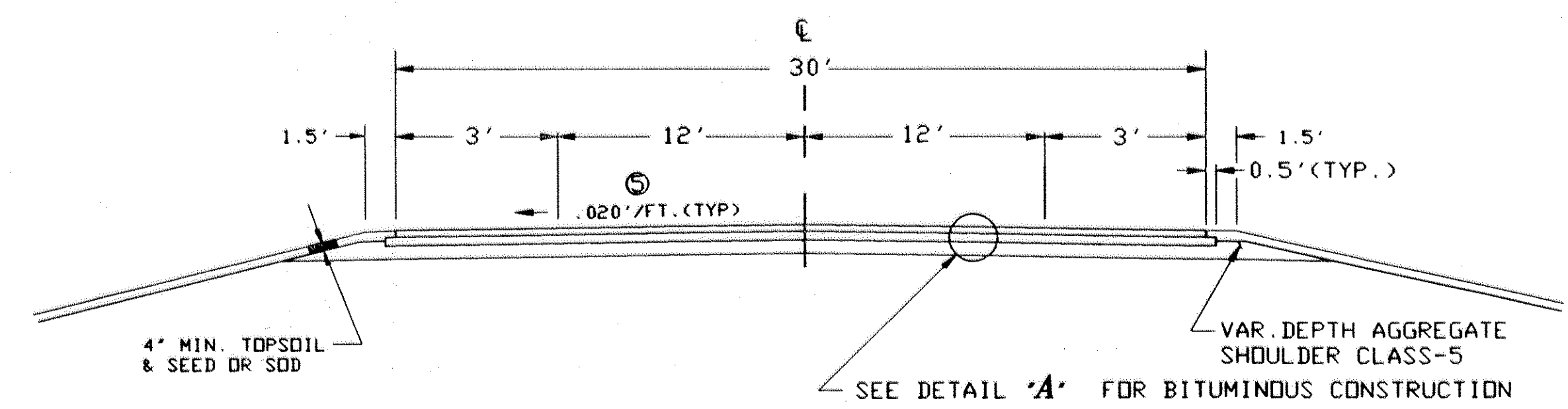
▲ (STA. 37+13.07=STA. 8+90.00)  
 ▲ STA. 8+90.00 - STA. 31+70.00  
 ▲ (STA. 31+70.00=STA. 63+40.94)

**NEW CONSTRUCTION TYPICAL**



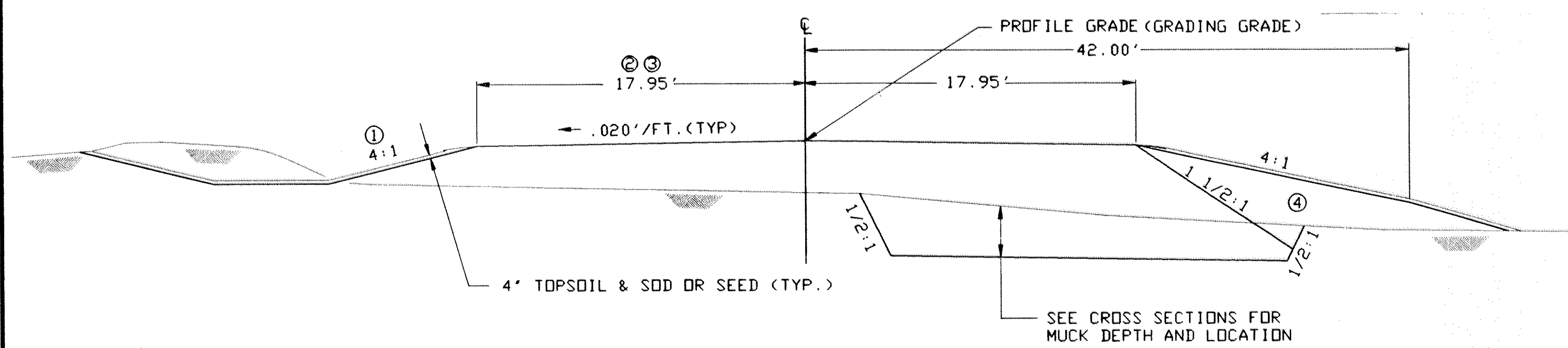
**TYPICAL BASE & SURFACING SECTION**

STA. 8+90.00 - STA. 31+70.00

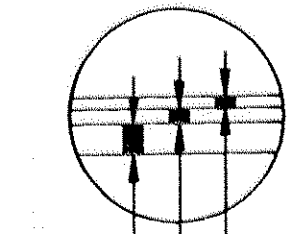


**GRADING SECTION**

**MUCK EXCAVATION AREAS**  
 STA. 15+50 - STA. 18+00  
 STA. 28+70 - STA. 31+33



**DETAIL "A"**



2" TYPE-41 WEARING COURSE-SPEC. 2340  
 BITUMINOUS MIX DESIGNATION 41WE50055Y  
 2" TYPE-31 BASE COURSE - SPEC 2340  
 BITUMINOUS MIX DESIGNATION 31BIB50000Y  
 4" AGGREGATE BASE CL-5A, SPEC. 2211

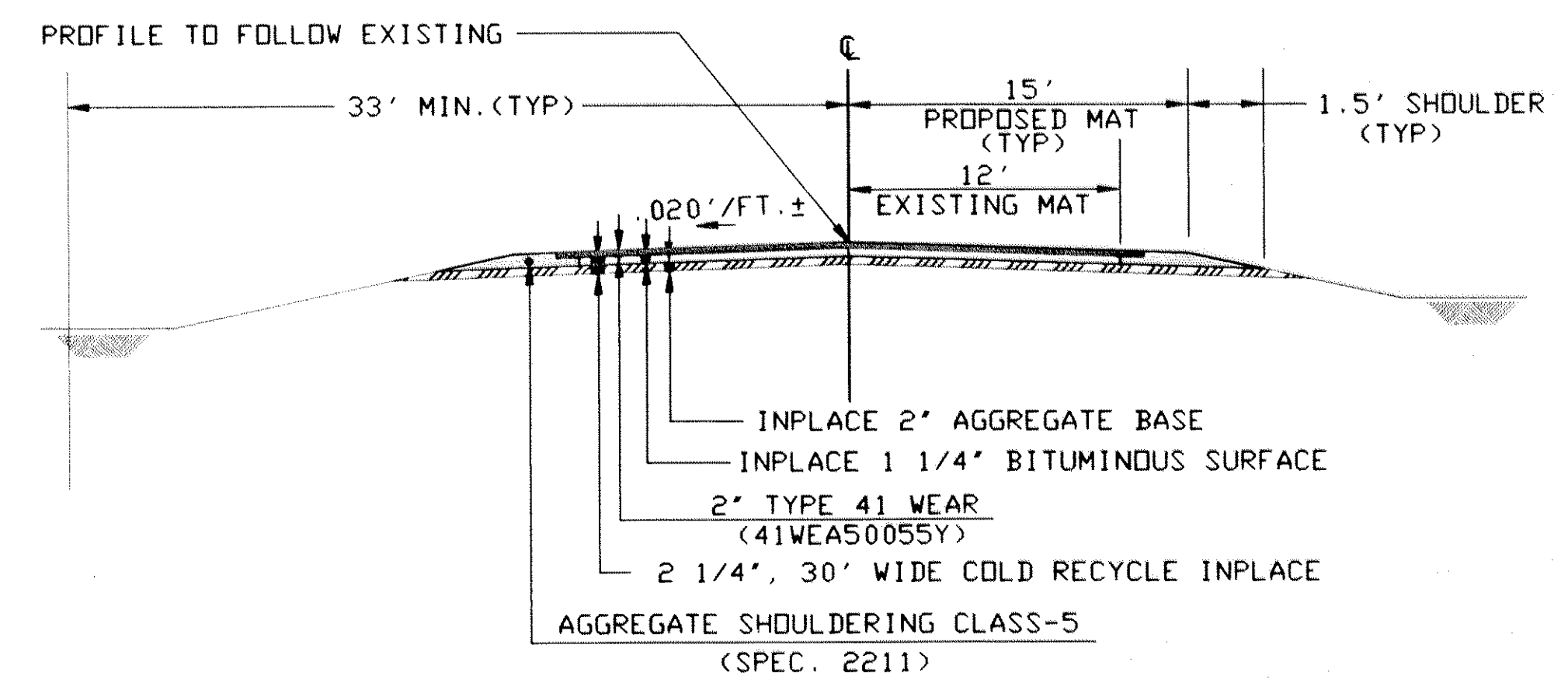
- ① FOR SPECIAL DITCHES & SLOPES SEE PLAN AND PROFILE AND CROSS SECTION SHEETS.
- ② 17.58' ON LOW SIDE IN SUPERELEVATION 29.4' IN LOW SIDE OF SUPERELEVATION IN RIGHT TURN LANE.
- ③ 18.25' ON HIGH SIDE SUPERELEVATION.
- ④ FILL WITH SWAMP EXCAVATION MATERIAL.
- ⑤ SHOULDER SLOPE TO MATCH DRIVING LANE SLOPE.

NOTE: NOT TO SCALE

**COLD INPLACE RECYCLE TYPICAL CONSTRUCTION**

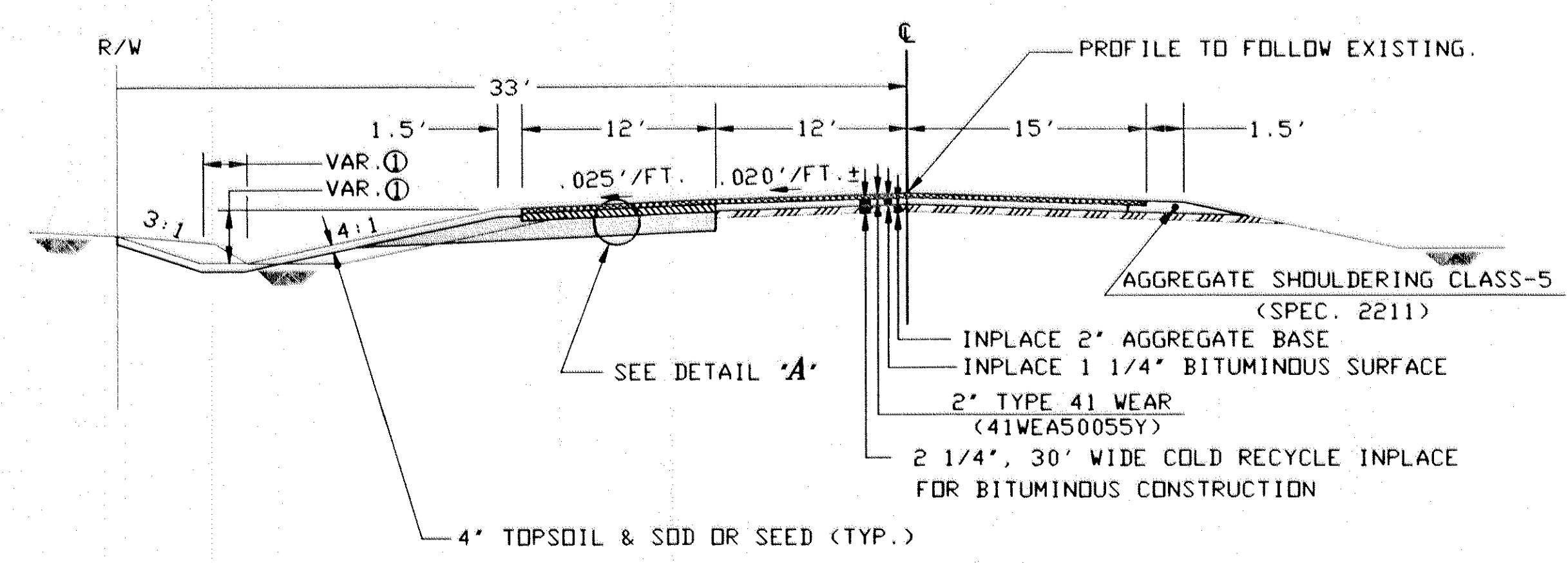
**COLD INPLACE TYPICAL**

STA. 5+00 - STA. 37+13.07  
 STA. 63+40.94 - STA. 192+83.71



**COLD INPLACE TYPICAL**

(RT. TN. LN. CONSTRUCTION)  
 STA. 5+00 - STA. 10+00



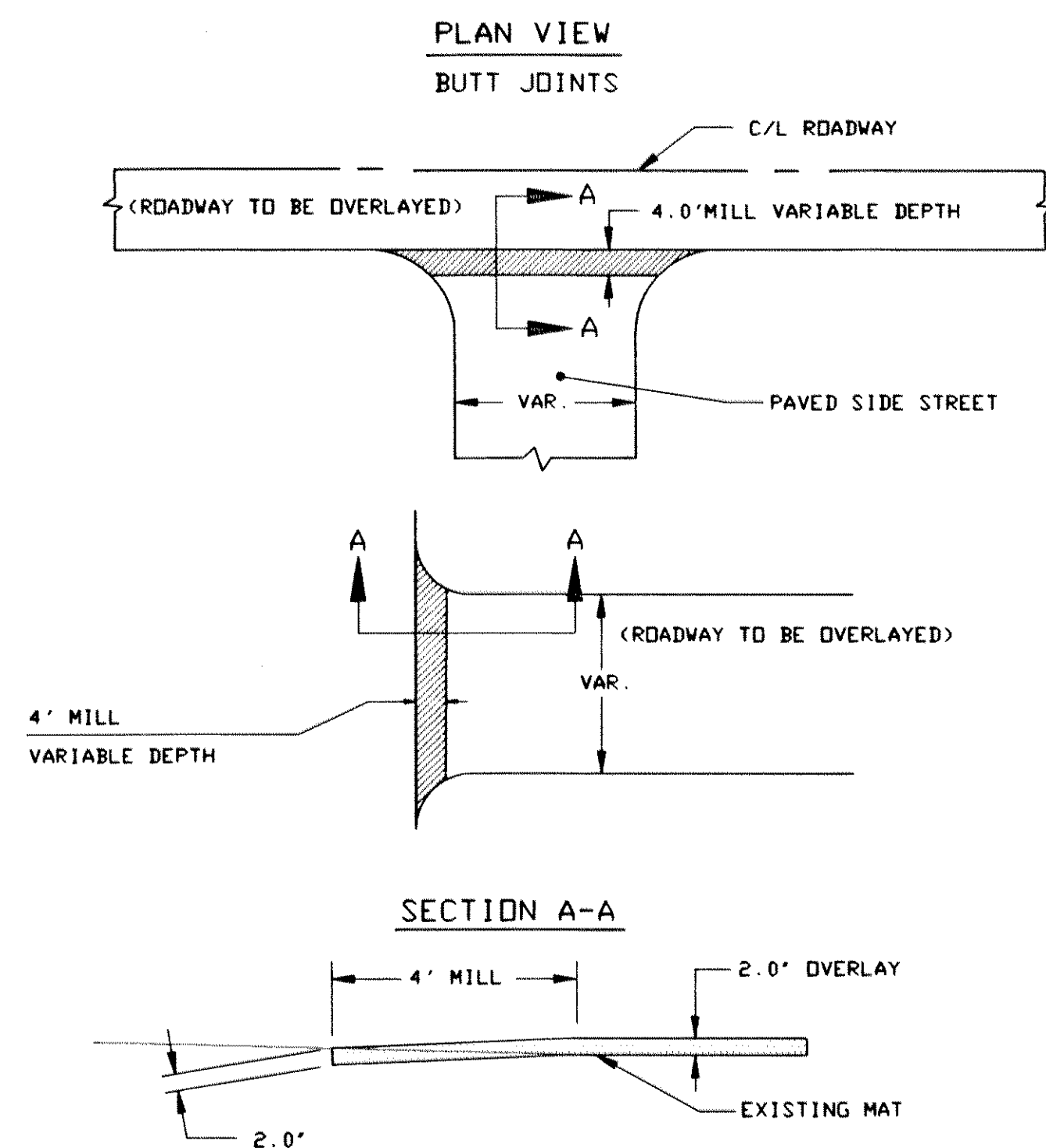
NOTE: NOT TO SCALE

TYPICAL SECTIONS

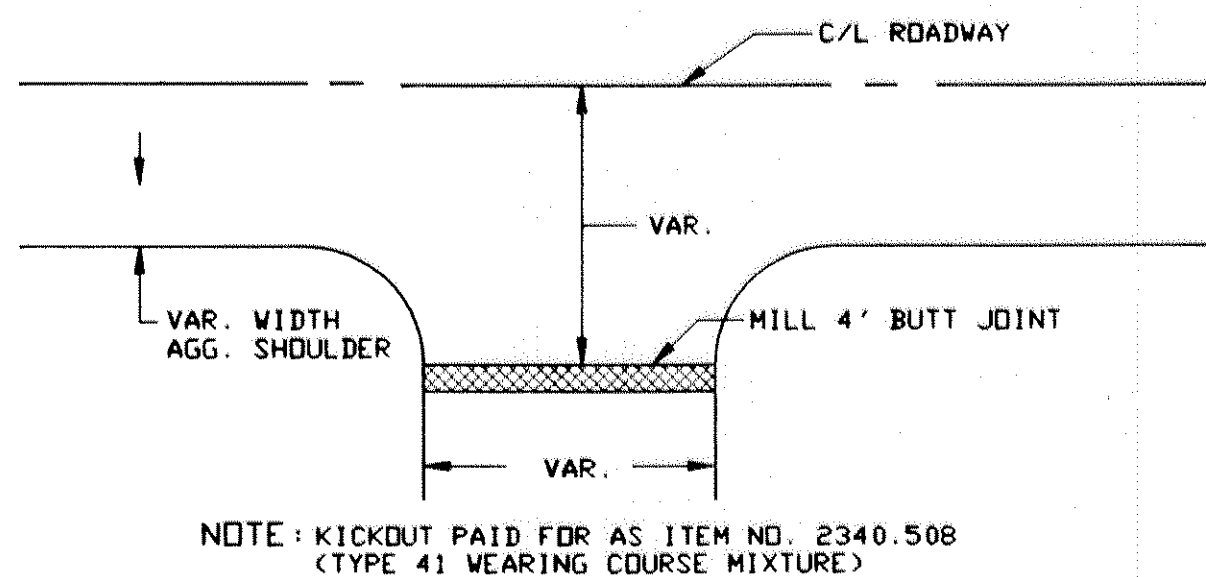
REVISIONS	BY
DATE	DATE



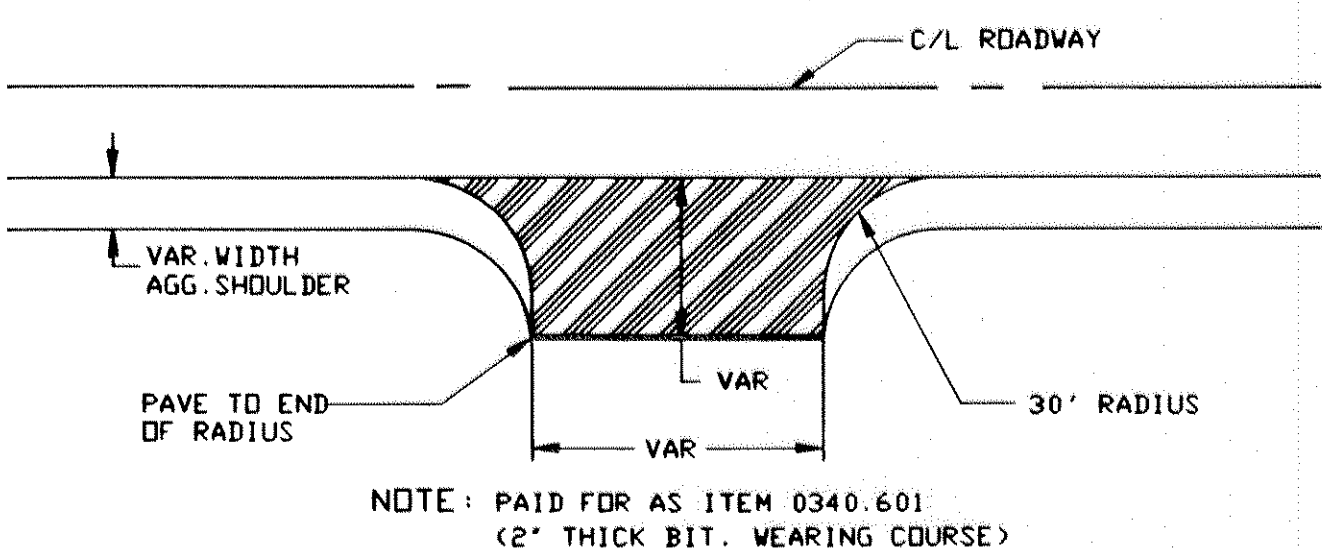
### TYPICAL SECTIONS STREET MILLING DETAIL



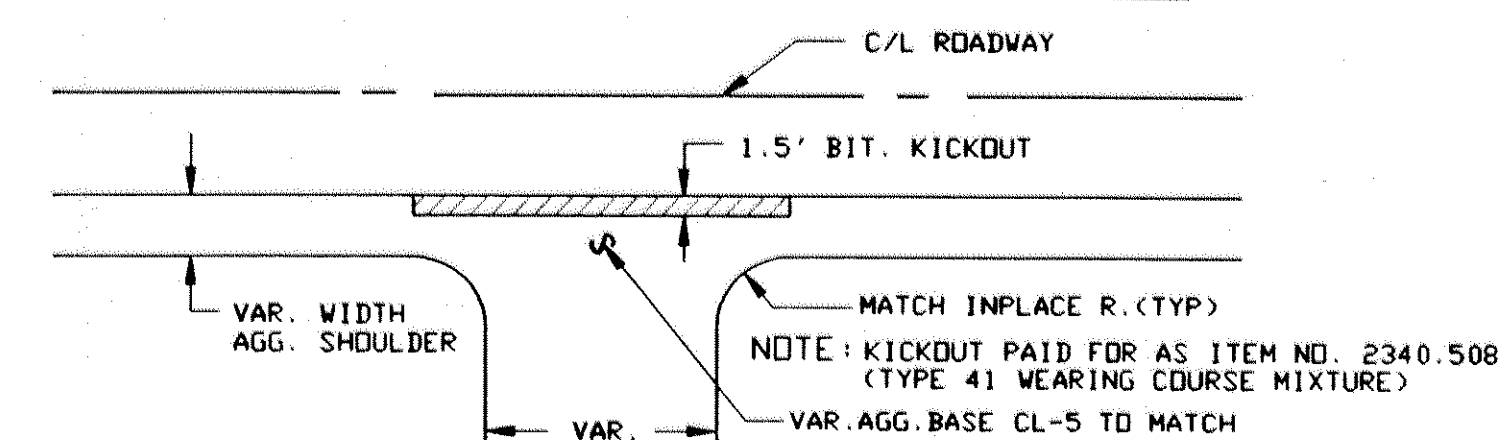
### PAVED SIDE ROADS & STREETS



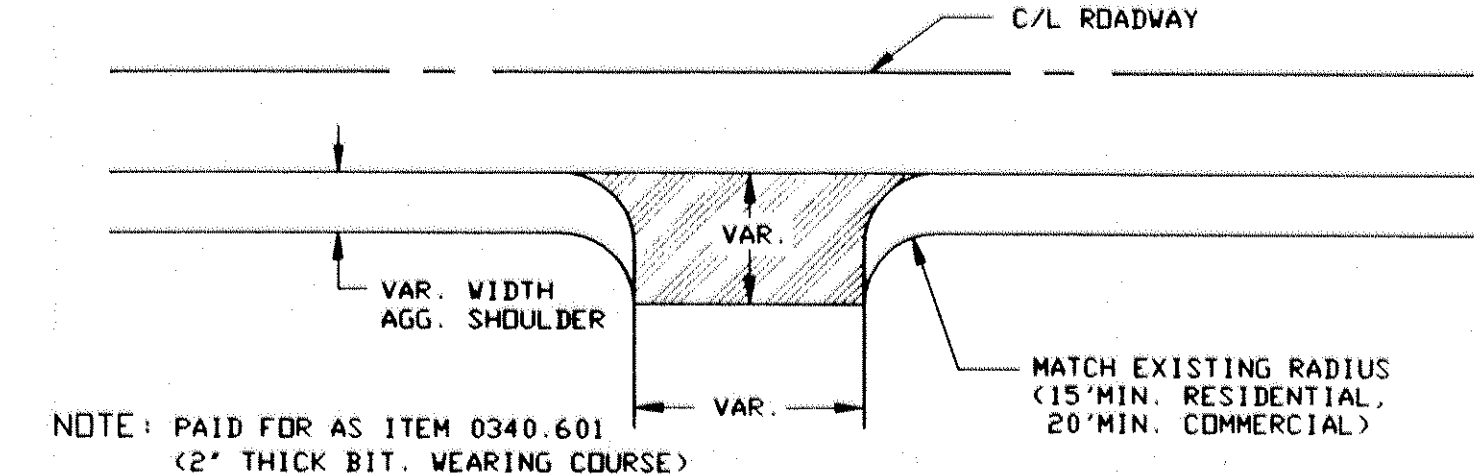
### UNPAVED SIDE ROADS & STREETS



### UNPAVED DRIVEWAY AND FIELD ENTRANCES

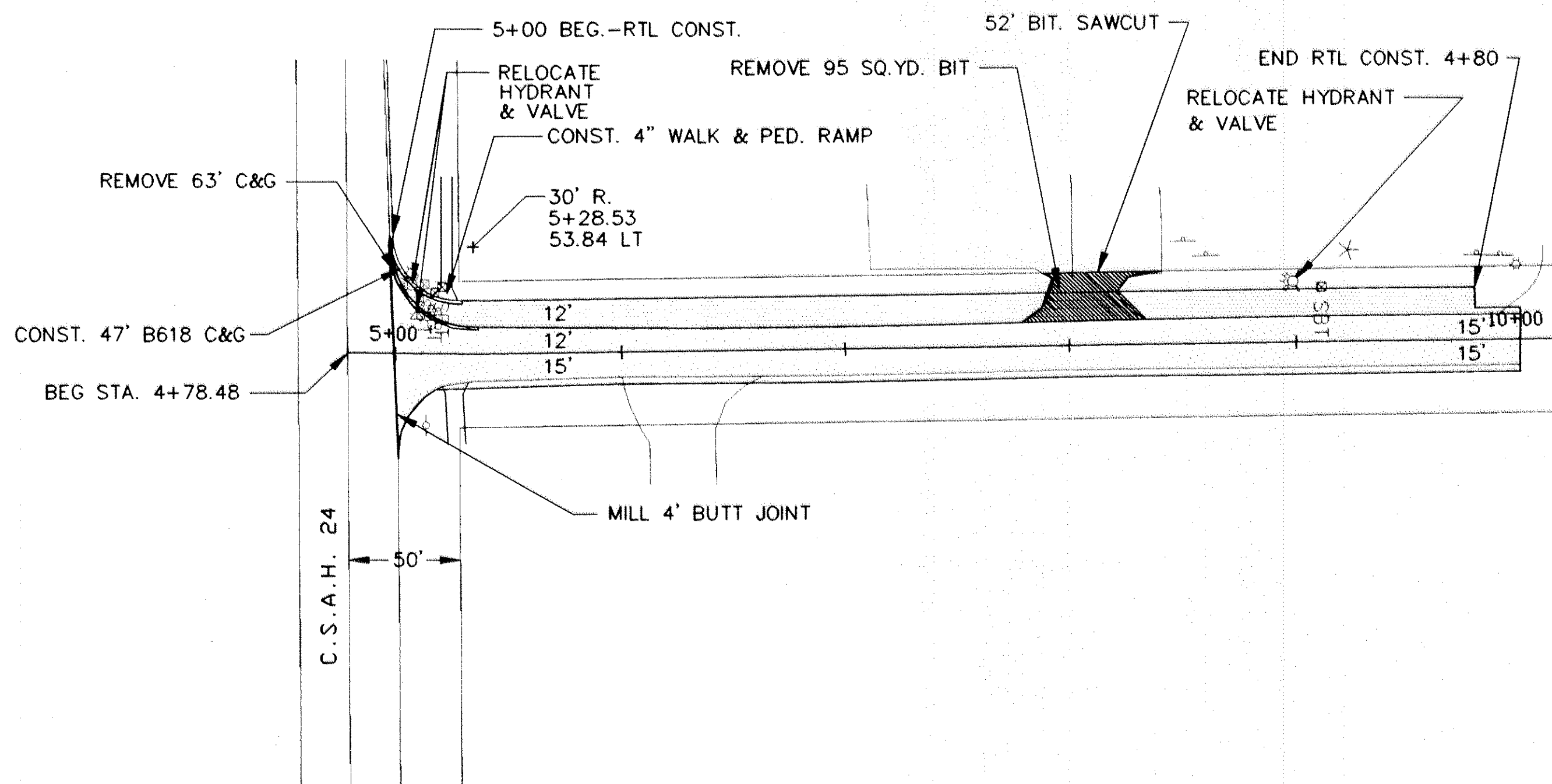


### PAVED ENTRANCES



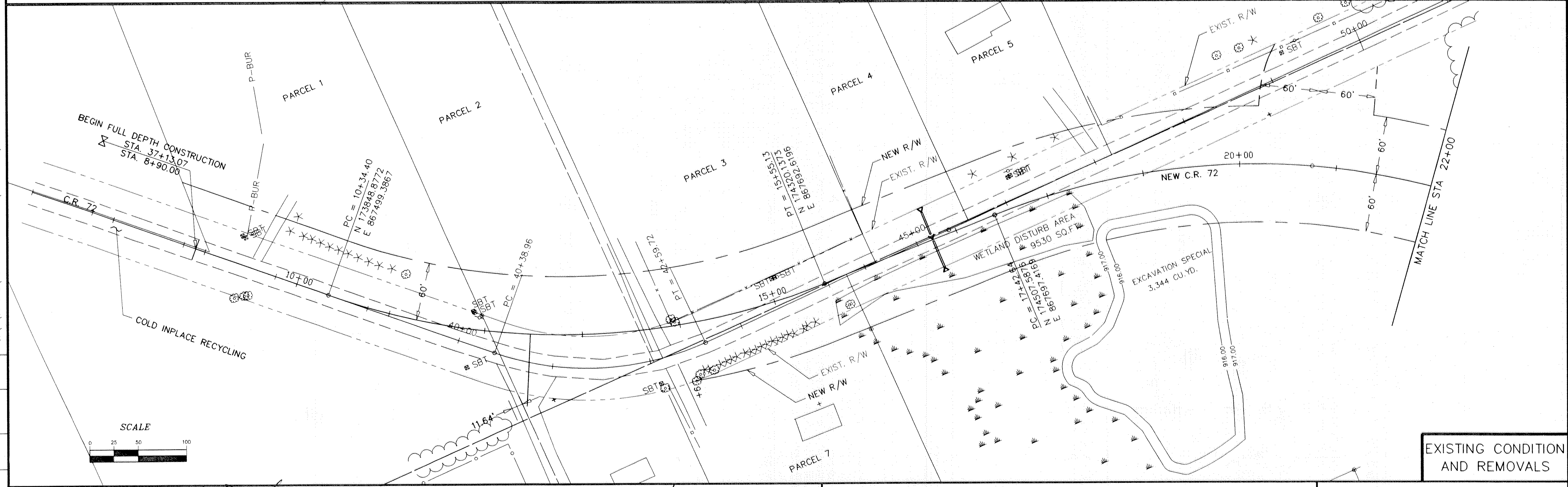
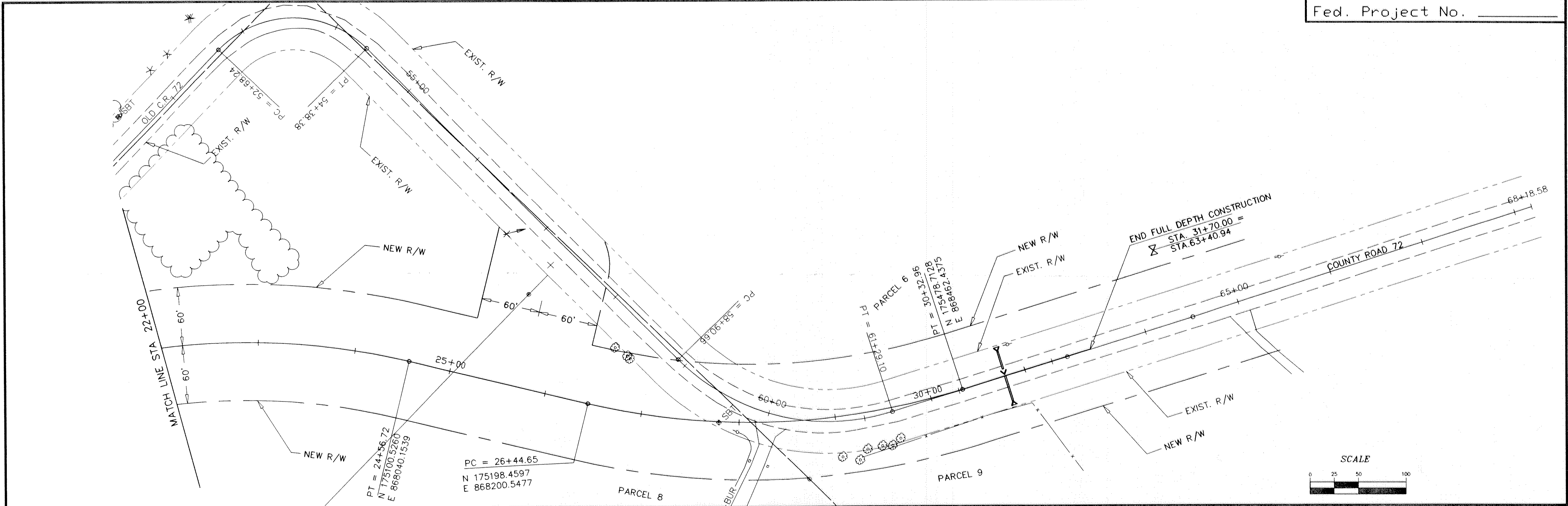
NOTE: NOT TO SCALE

### PLAN VIEW RIGHT TURN CONSTRUCTION



co. rd 72

REVISIONS	DATE	BY

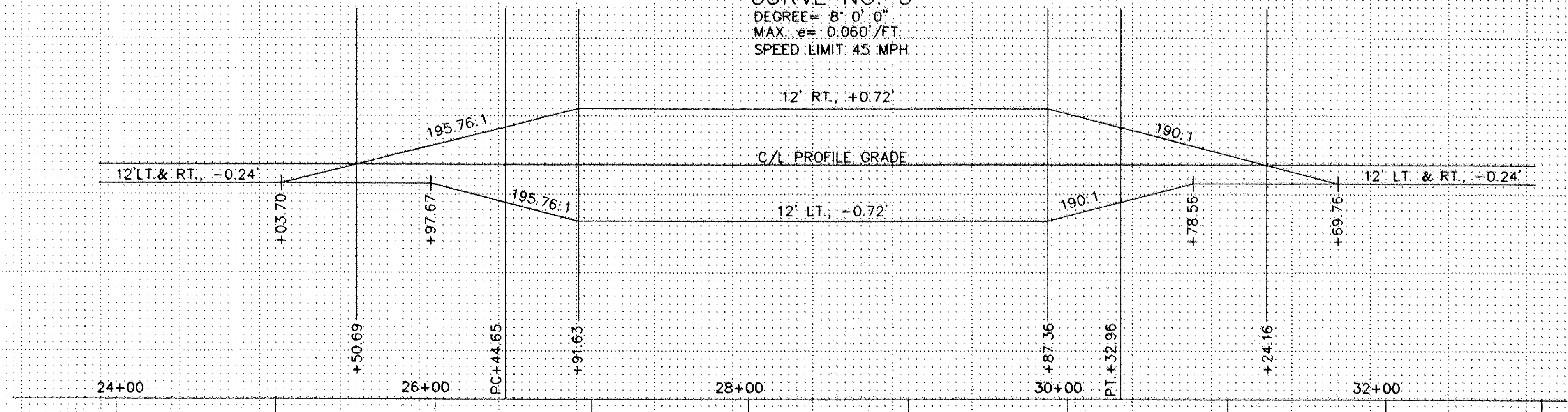


C:\PI\961872\REMOVE.DWG M.N. (98-16-96)

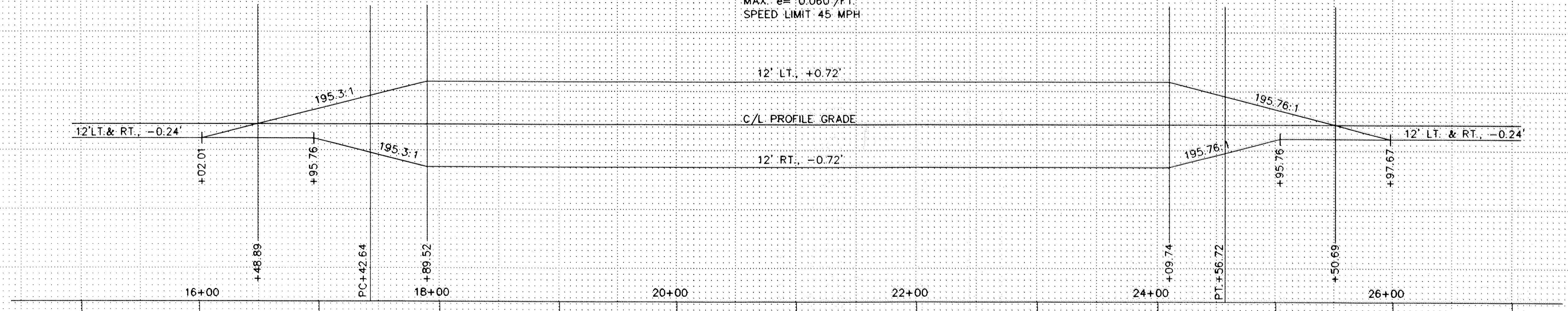
REVISIONS	DATE	BY

EXISTING CONDITION AND REMOVALS

**CURVE NO. 3**  
 DEGREE= 8° 0' 0"  
 MAX. e= 0.060'/FT.  
 SPEED LIMIT 45 MPH

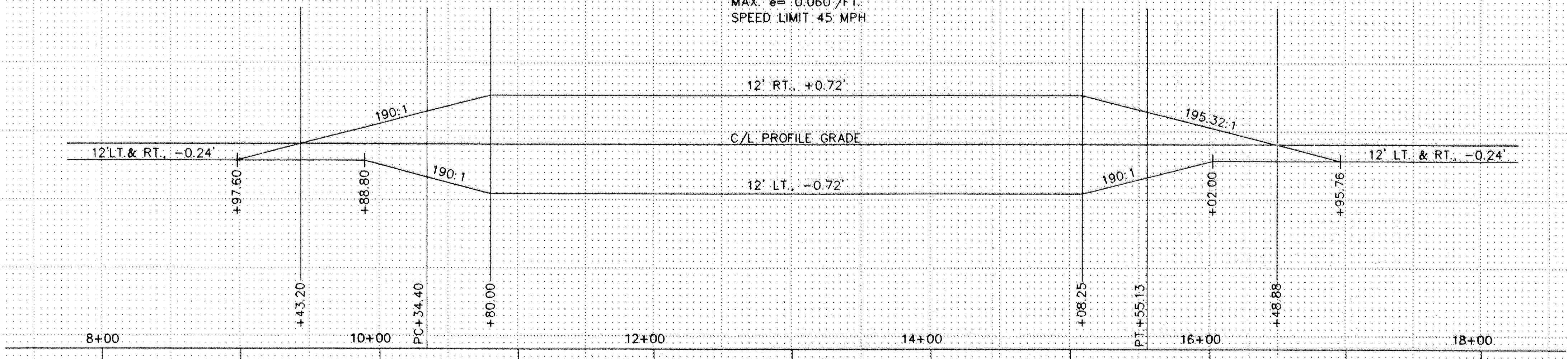


**CURVE NO. 2**  
 DEGREE= 8° 0' 0"  
 MAX. e= 0.060'/FT.  
 SPEED LIMIT 45 MPH



NOTE: SHOULDER SLOPE MATCH WITH DRIVING LINE SLOPE

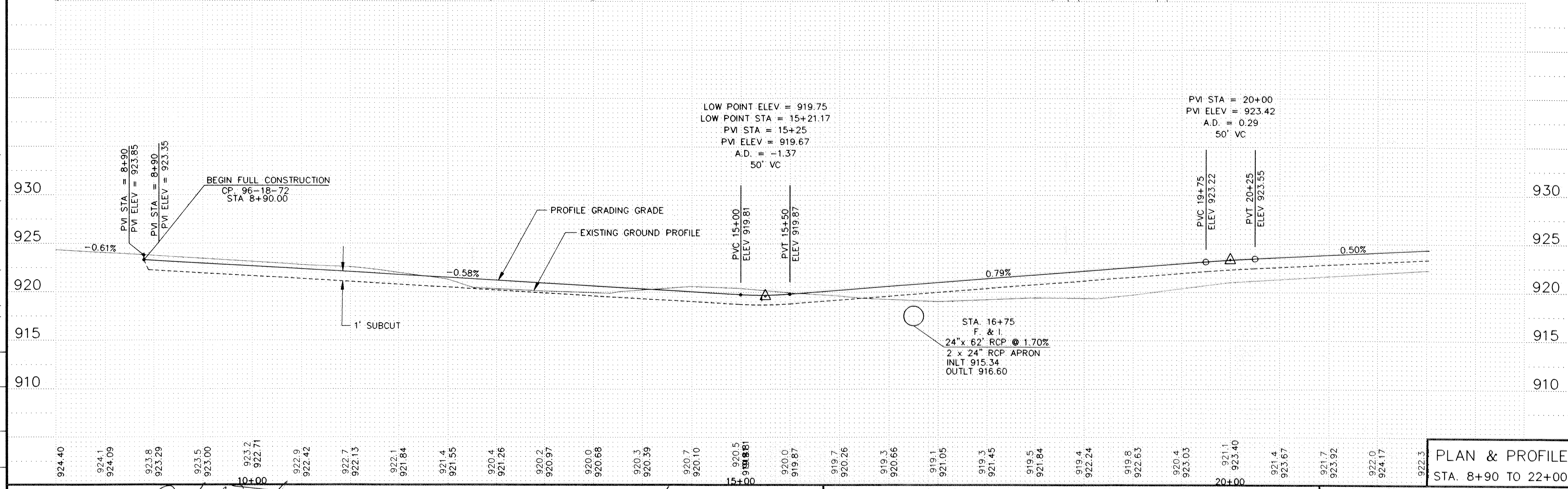
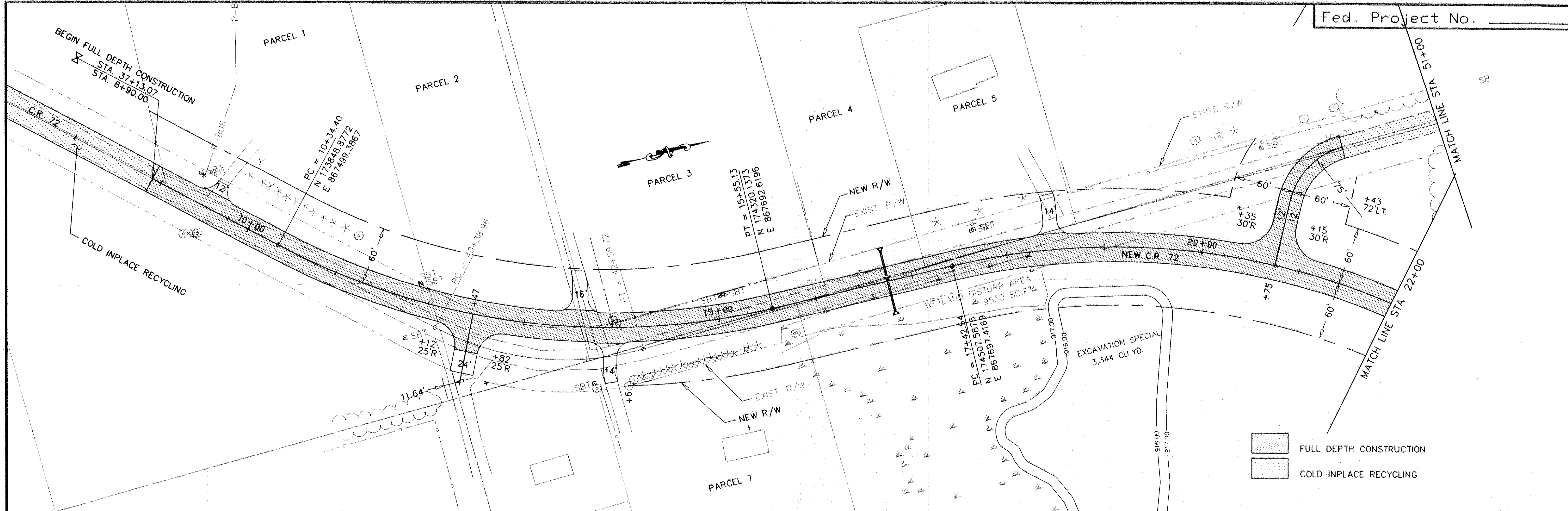
**CURVE NO. 1**  
 DEGREE= 8° 0' 0"  
 MAX. e= 0.060'/FT.  
 SPEED LIMIT 45 MPH



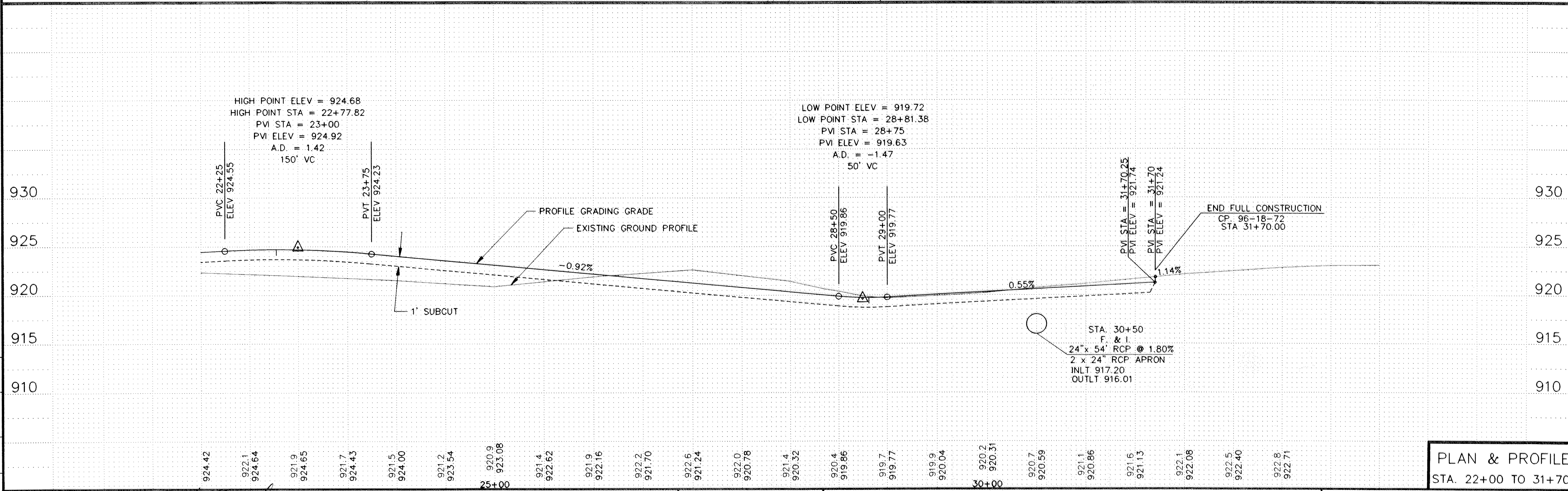
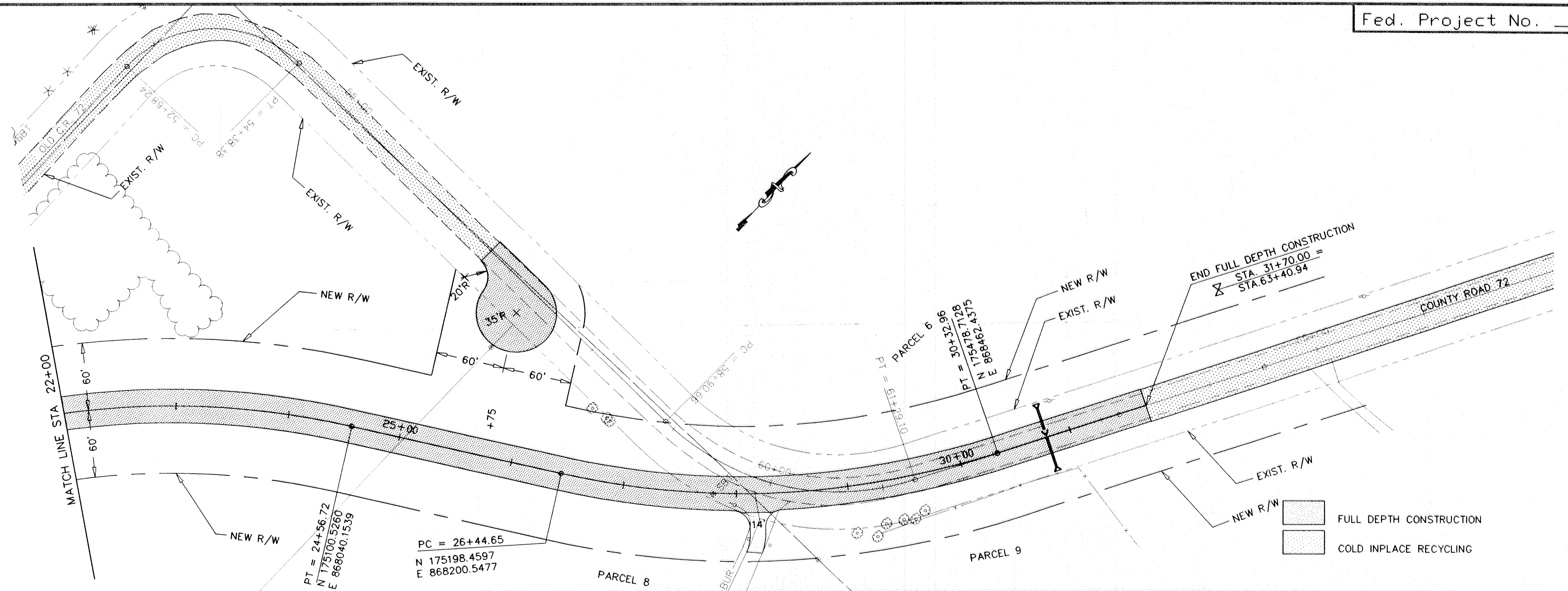
**SUPERELEVATION CHARTS**

REVISIONS	BY	DATE

FILE NAME: P:\961872\SUPER.DWG MN (08-16-96)



DATE	REVISIONS	BY



C:\P\961872\SH2.DWG M.N. (08-16-96)

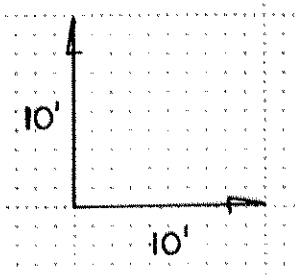
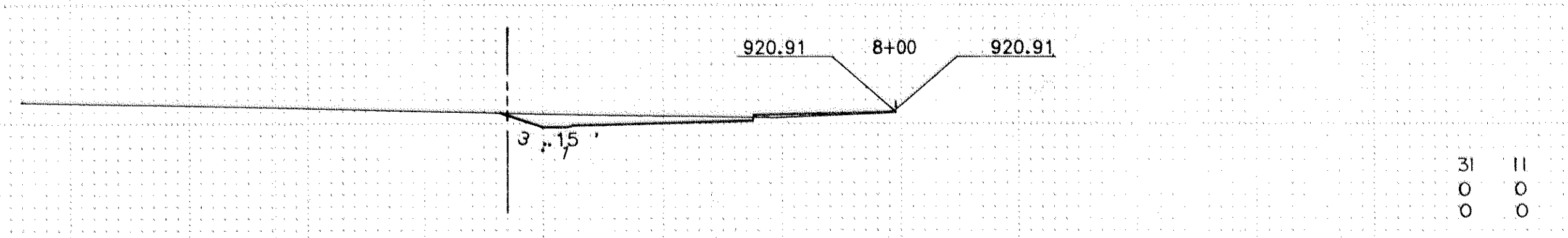
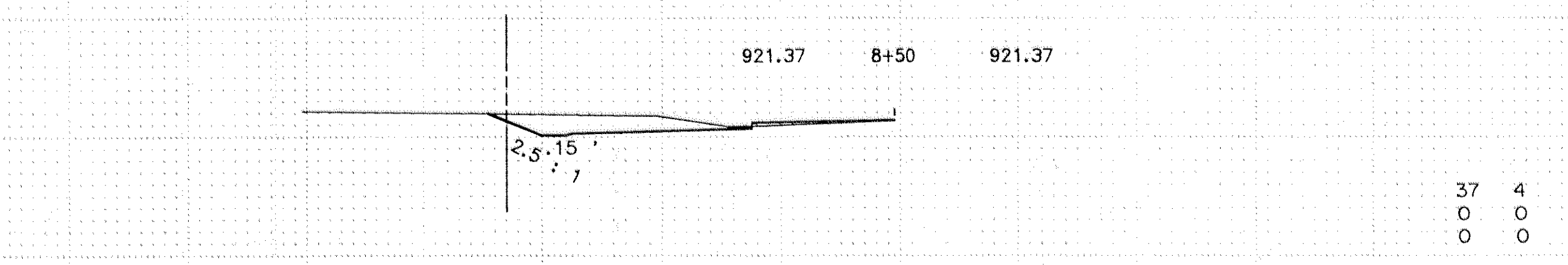
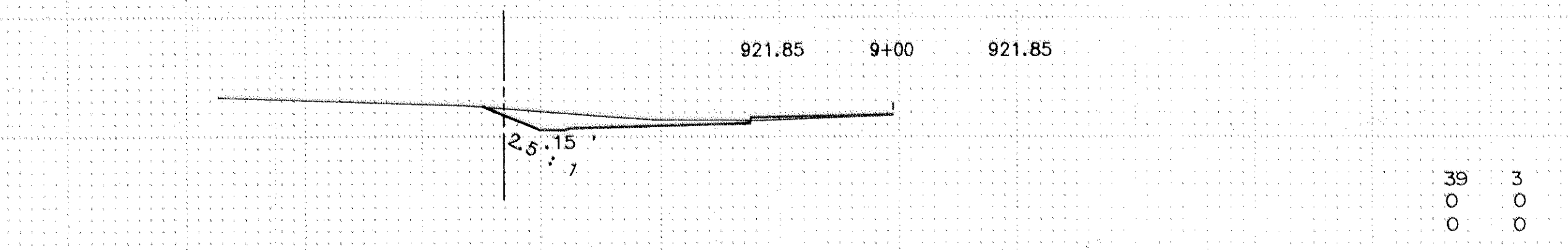
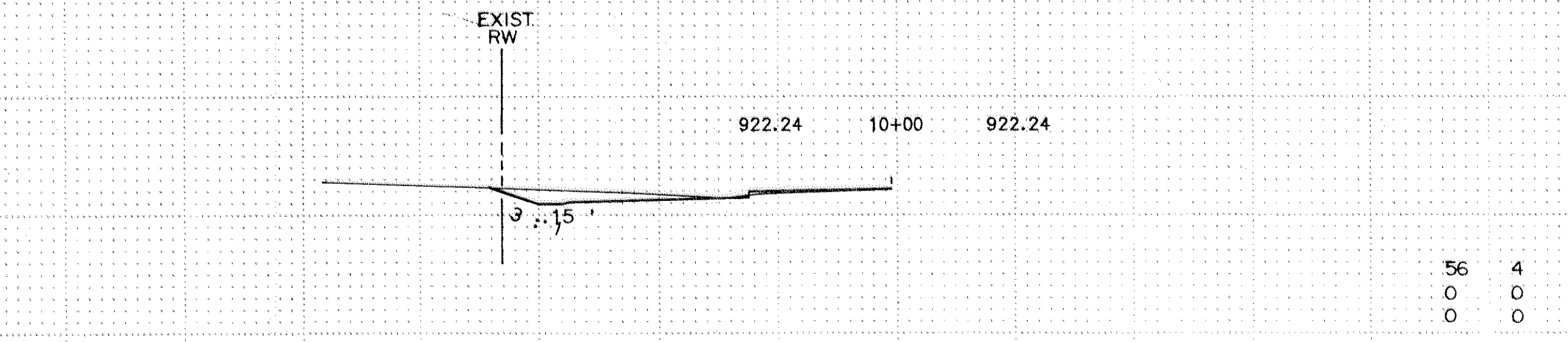
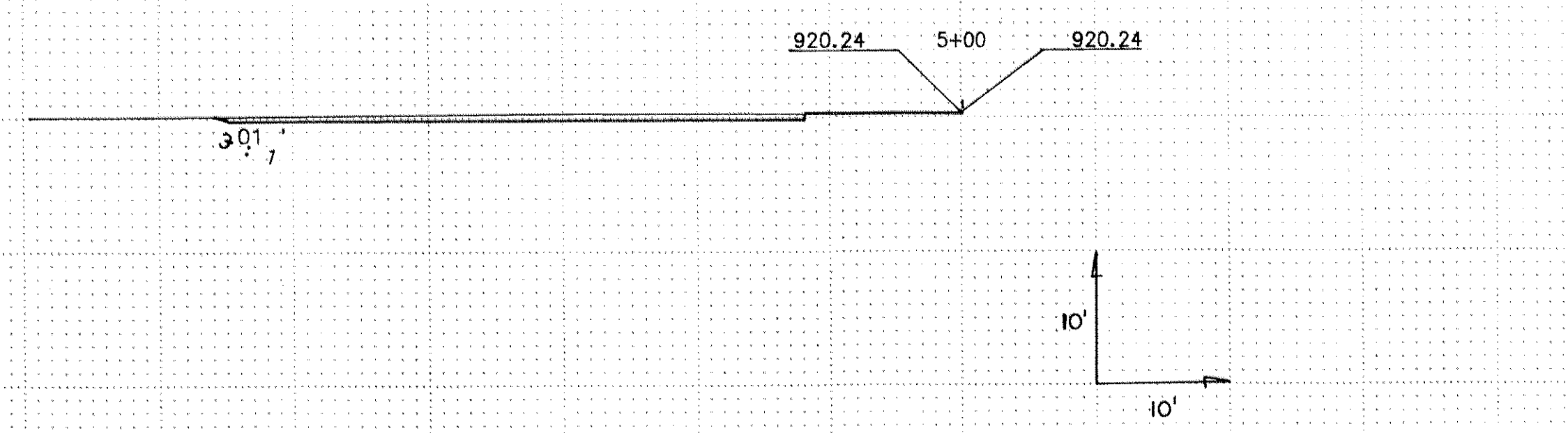
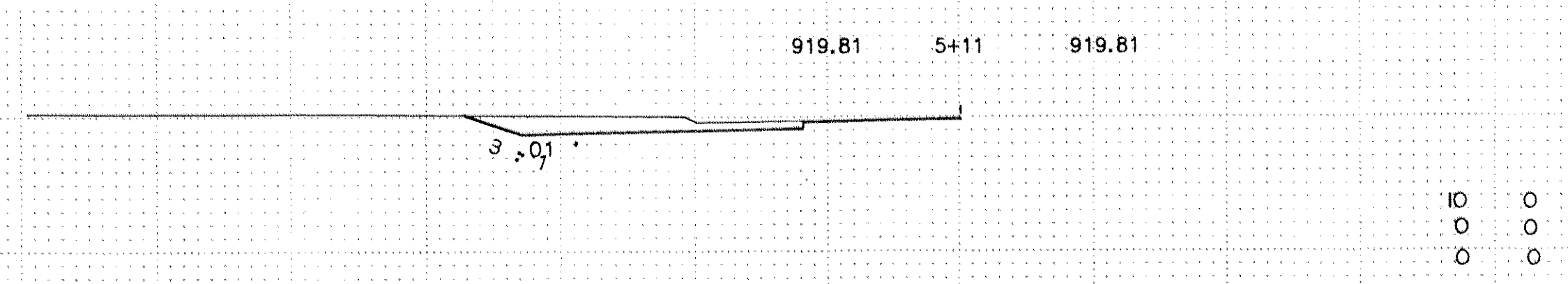
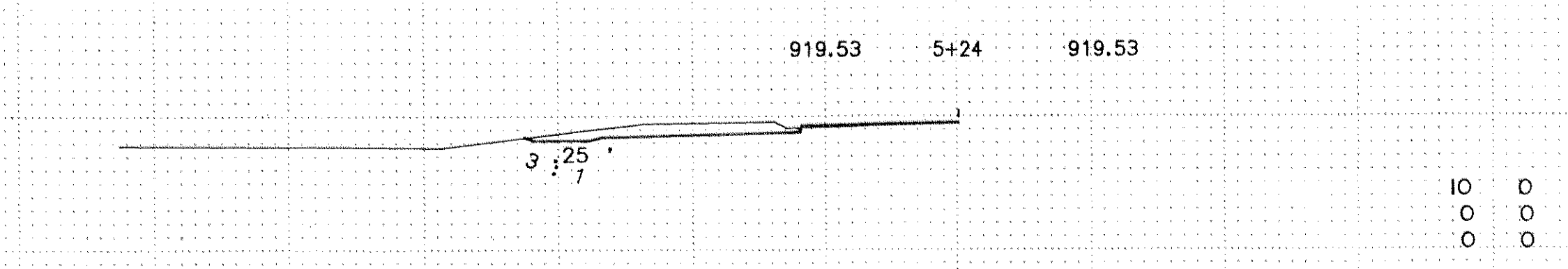
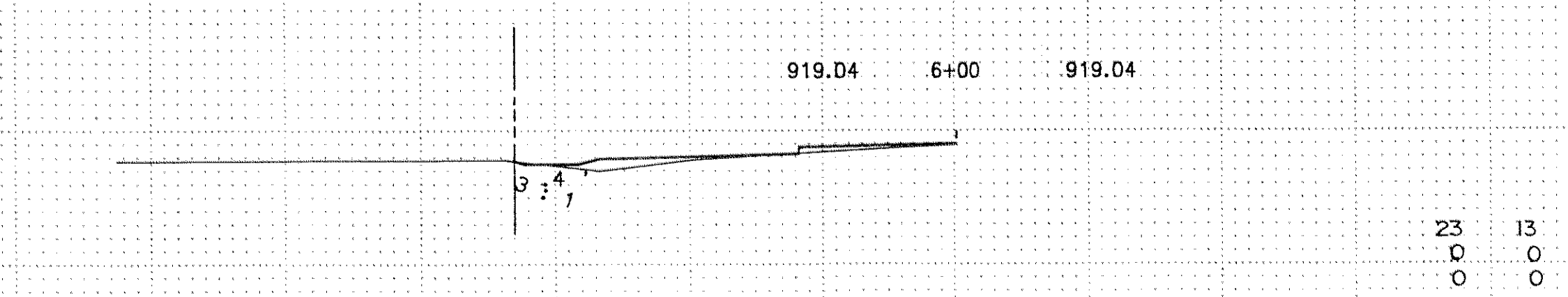
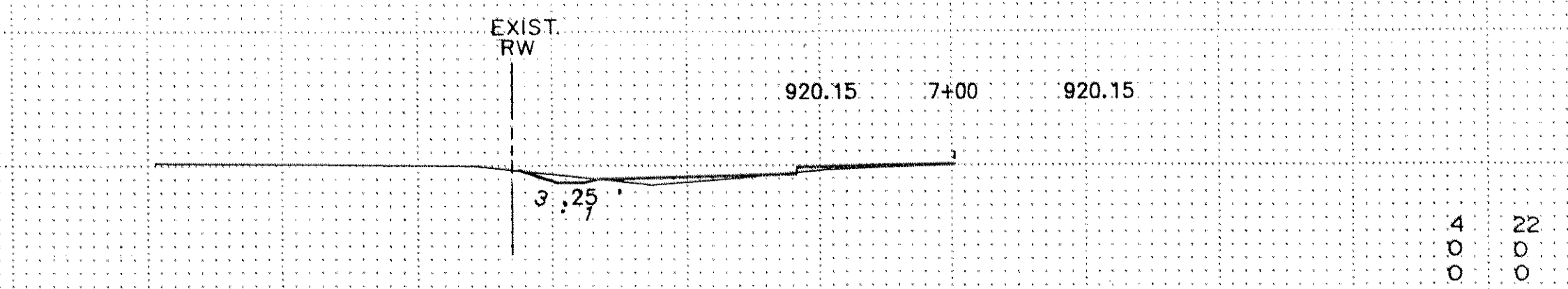
REVISIONS	DATE	BY

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

COMMON  
SUB  
MUCK

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

COMMON  
SUB  
MUCK

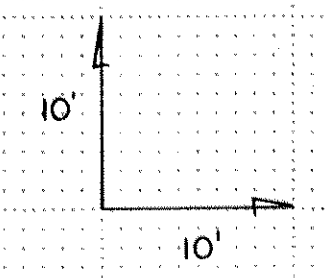
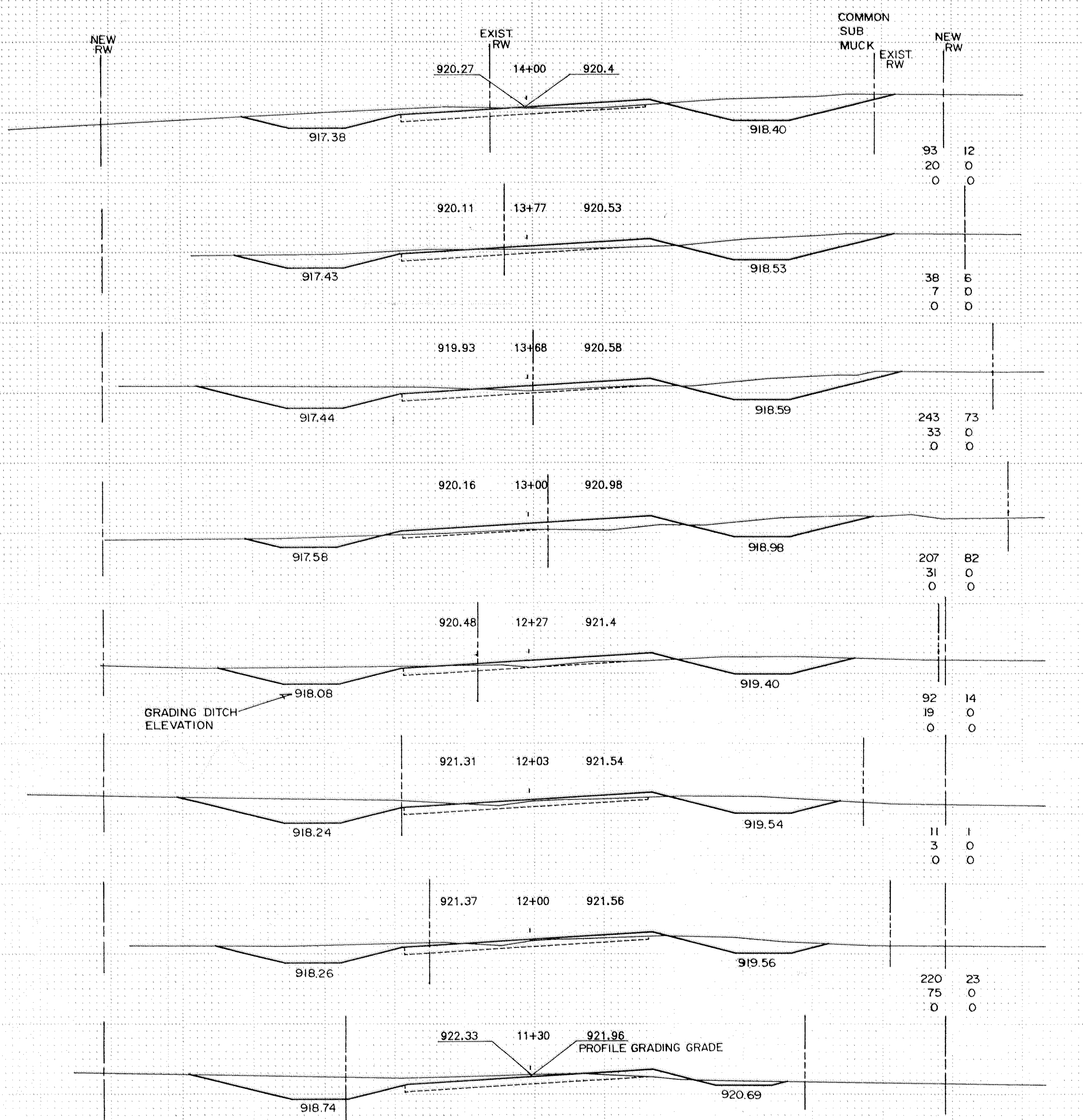
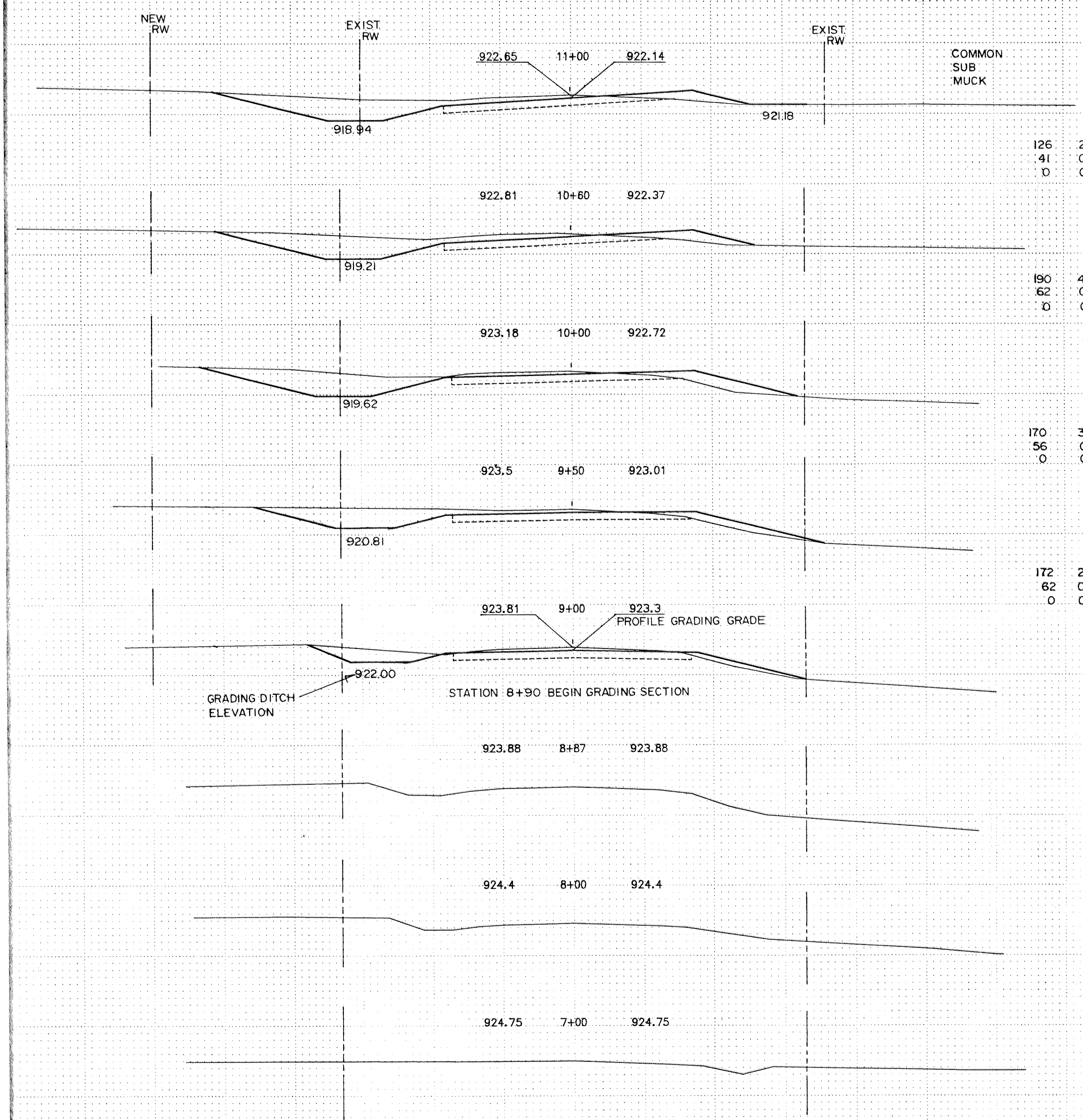


RIGHT TURN LANE AT C.S.A.H. 24

CROSS - SECTIONS  
STA. 5+00 TO STA. 10+00

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

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



GRADING DITCH ELEVATION

GRADING DITCH ELEVATION

STATION 8+90 BEGIN GRADING SECTION

PROFILE GRADING GRADE

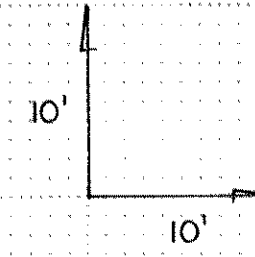
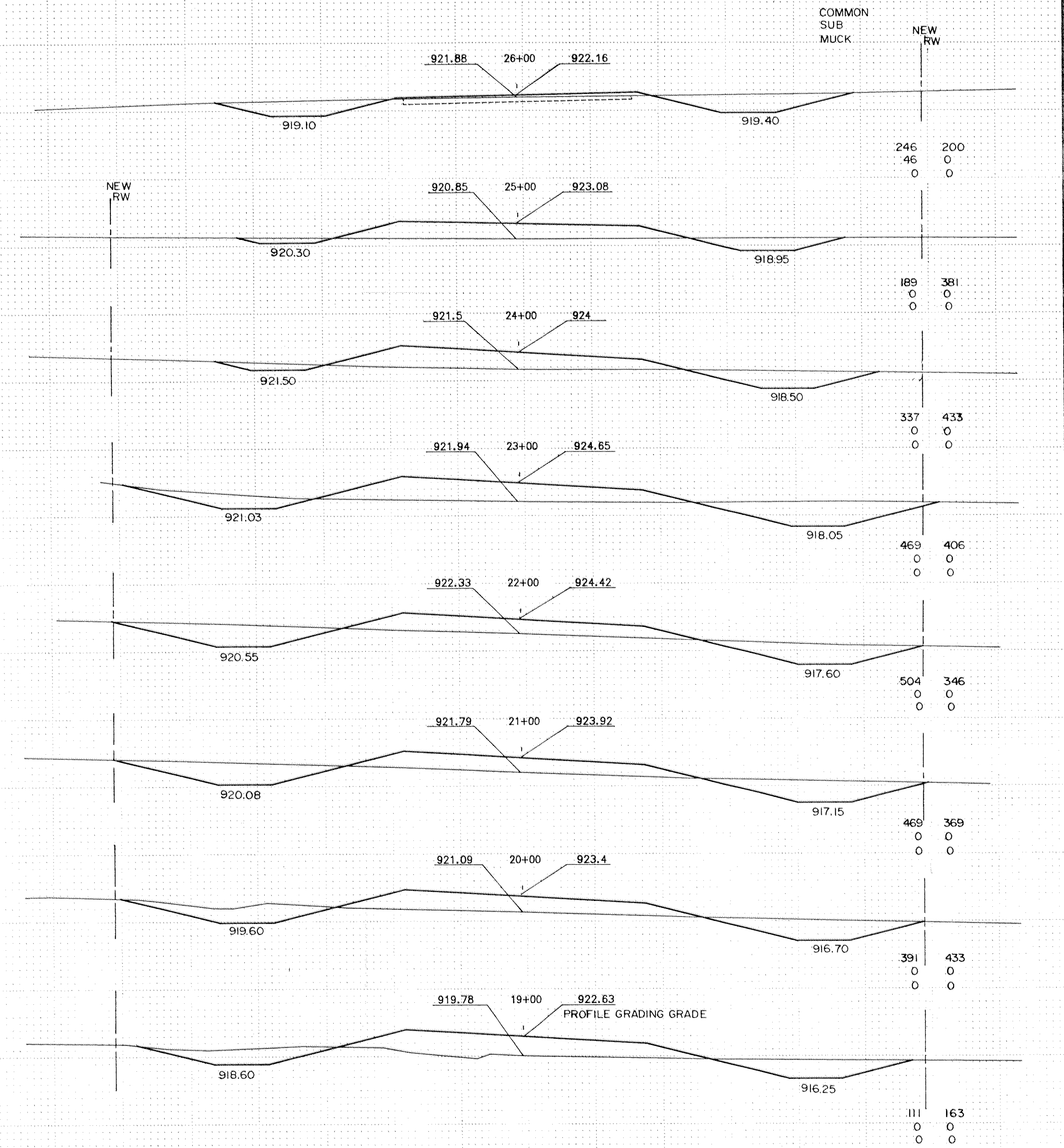
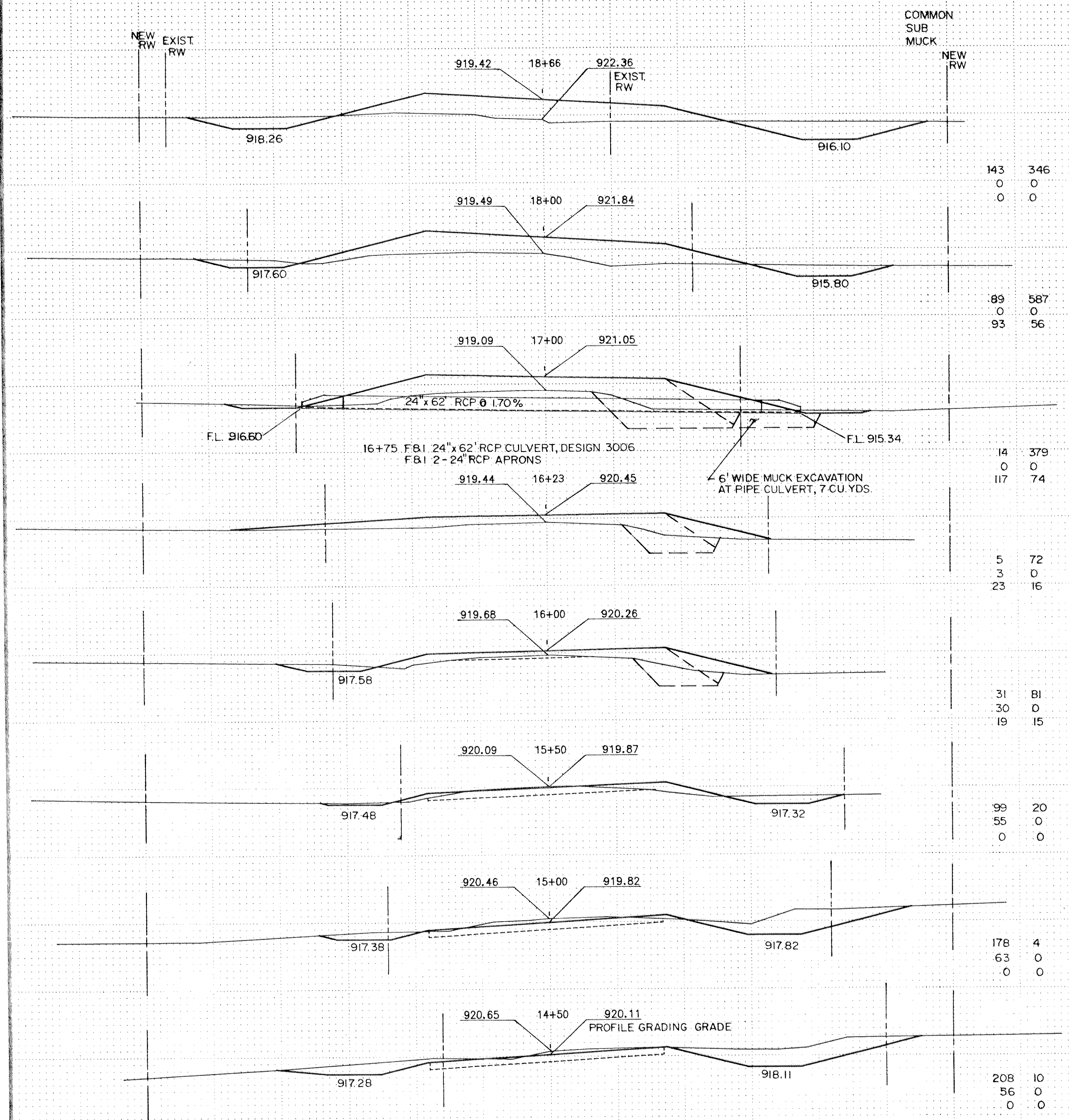
PROFILE GRADING GRADE

CROSS - SECTIONS

STA. 7+00 TO STA. 14+00

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

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



CROSS-SECTIONS  
 STA. 14+50 TO STA. 26+00

CP 96-18-72 8/2/96 m76

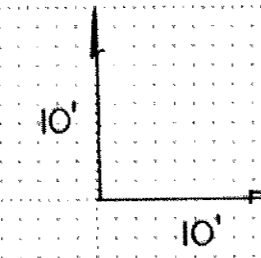
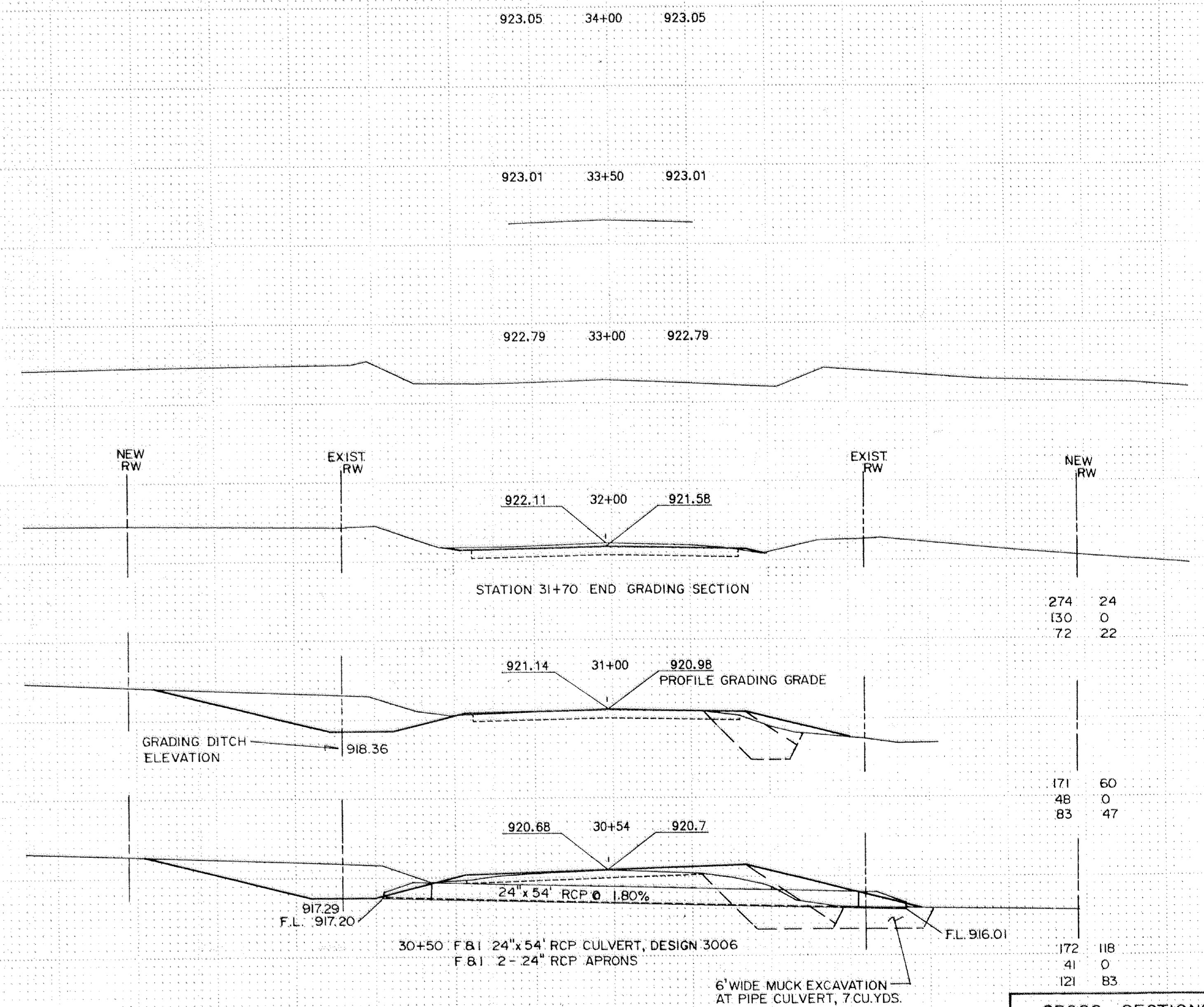
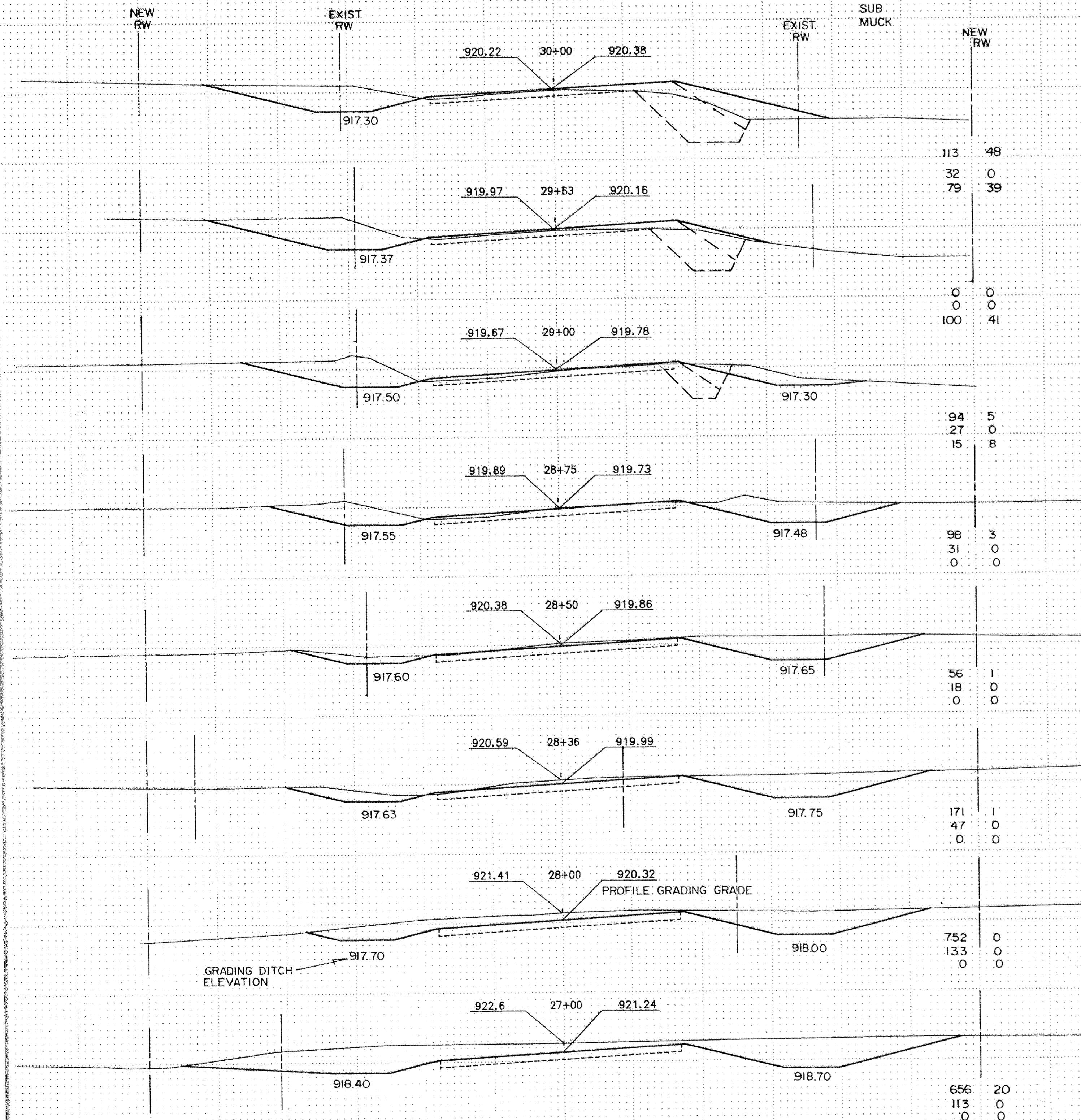


**EXCAVATION EMBANKMENT**  
 SUB-TOTALS CU.YDS. SUB-TOTALS CU.YDS.

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

COMMON  
 SUB  
 MUCK

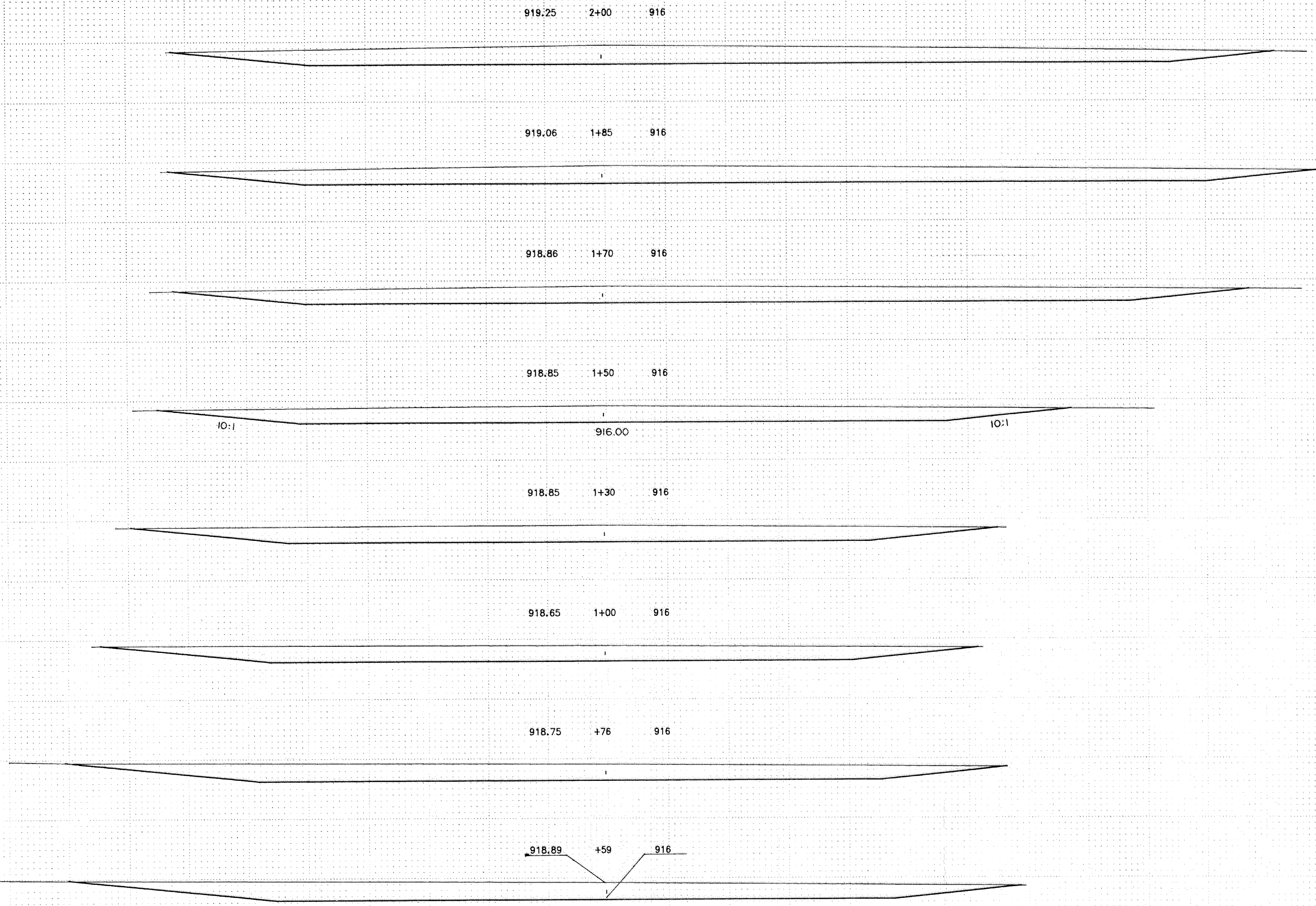
COMMON  
 SUB  
 MUCK



CROSS-SECTIONS  
 STA. 27+00 TO STA. 34+00

Copy Equipment Form #11

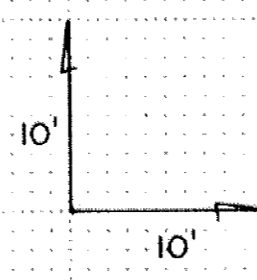
C.P. 96-18-72 8/2-196 717-



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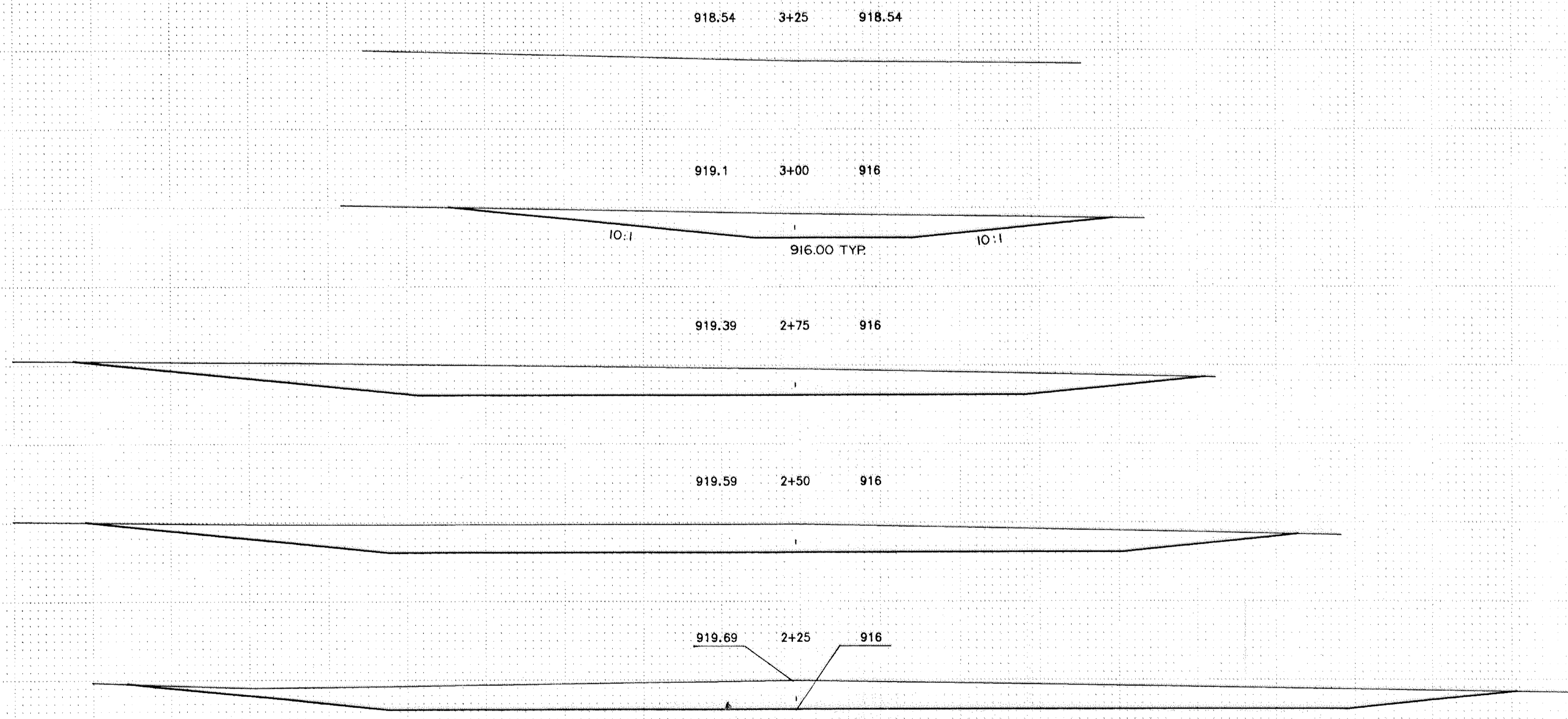
10:1

NOTE: WETLAND LIMITS AS PER PLAN  
BOTTOM ELEV. TO MATCH 916.00 CONTOUR  
10:1 SLOPES TO WETLAND LIMITS



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03/13/96



NOTE: WETLAND LIMITS AS PER PLAN  
BOTTOM ELEV. TO MATCH 916.00 CONTOUR  
10:1 SLOPES TO WETLAND LIMITS

