

1. TITLE SHEET
2. QUANTITY SHEET
- 3-4. PLAN AND PROFILE SHEETS
5. PLATE PIPE DETAILS
6. BLANK
7. E-3 BRIDGE CONSTRUCTION APPROACH SIGNS 7/20/76
8. E-6 ON PROJECT CONSTRUCTION SIGNS 5/14/74 R
9. BLANK
10. BLANK
11. GUARD RAIL, THREE CABLE W/ LT. WOOD POSTS 4/17/73 R
12. G-7 ANCHOR FOR THREE CABLE GUARD RAIL 5/28/74 R
- 13-16 CROSS SECTIONS - CHANNEL LINE AT 21-32.23
- 17-24 CROSS SECTIONS - ROADWAY

NEWBURY SRS 2302 (9)
CONTRACTOR-EVERETT T. WALLACE INC.
CONTRACT DATED-29 MAY 1977
CONSTRUCTION BEGAN-3 MAY 1977
CONSTRUCTION COMPLETED-27 JUNE 1977
CONSTRUCTION ACCEPTED-27 JUNE 1977
RESIDENT ENGINEER-LEON R. TESSIER
GRANULAR BORROW-JOHN GEORGE PIT, NEWBURY, VT.
GRANULAR BACKFILL FOR STRUCTURES & SUB-BASE OF GRAVEL-REED PIT, NEWBURY, VT.
BITUMINOUS CONCRETE PAVEMENT-COOLEY ASPHALT, BARRE, VT.
CONCRETE-LAWRENCE SANGRAVO, ST. JOHNSBURY, VT.
REINFORCING STEEL-BETHELEHEM STEEL CO., BETHELEHEM, PENNSYLVANIA
CGMFA-LANE METAL PRODUCTS CO., BALLISTON, NY.
ACCGMP-LANE METAL PRODUCTS CO., BALLISTON, NY.
GUARD RAIL, ANCHORS FOR GUARD RAIL, SEED, FERTILIZER, HAY MULCH-LAFAYETTE-SH

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

BRIDGE PROJECT

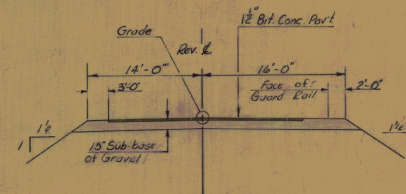
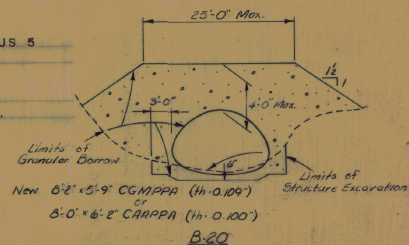
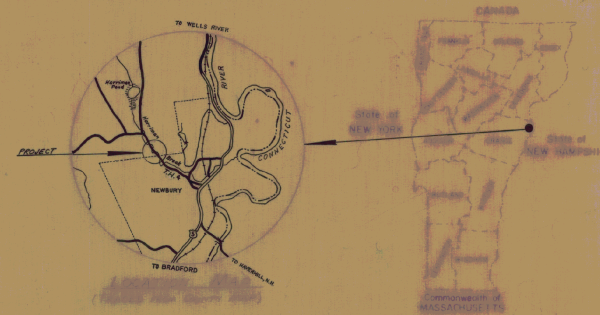
COUNTY OF ORANGE

TH 4 (CLASS 2) BRIDGES VC 20,61,46

SUBJECT LOCATION BEGINNING ON T.H. 4, 0.9 MILES WEST OF THE INTERSECTION WITH U.S. 5
AND PROCEEDING WESTERLY ALONG T.H. 4 FOR 0.3 MILES.

SECTION I - REPLACE B-20 WITH A NEW PLATE PIPE ARCH.
SECTION II - RELOCATE HARRIMAN BROOK FROM STA. 30+85 TO 36+80, ELIMINATING B-61 & B-46.
GUARD RAIL PLACEMENT AT BR. 21

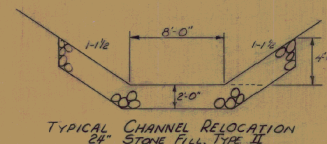
SECTION I	ROADWAY	150 FEET = 0.028 MILES
SECTION II	CHANNEL	595 FEET = 0.113 MILES



BUILT AS DESIGNED

Not to Scale

TRAFFIC		DATA	
1975 ADT.	115	1985 ADT.	145
1975 DHV	25	1985 DHV	35
D%	55		
T%	6		
V	35 MPH		
ACCIDENT	DATA, 5 YEAR PERIOD		



APPROVED _____ DATE _____
 ROW DIRECTOR
 NEWBURY
 PROJECT SRS 2302 (9)
 SHEET 1 OF 24 SHEETS

EARTHWORK

V.C.	% GRD	STATION	GRADES		CORR. V.C.	DIST.	AREA	CU. YDS.	UNCLASS. CHANNEL		STONE FILL		AREA	CU. YDS.	AREA	CU. YDS.
			ELEVATION						AREA	CU. YDS.	AREA	CU. YDS.				
			ON TAN.	ON V.C.												
		SECTION II														
		30+85							0		0					
		31+00				15			30	14			12			
		+30				30			163	197			81			
		32+00				30			112	253			81			
		33+00				100			182	433			83			
		34+00				100			189	576			85			
		35+00				100			280	869			163			
		36+00				100			224	933			163			
		+30				30			113	312			81			
		+80				30				63			24			
									0		0					

BRIDGE QUANTITY SHEET

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
BRIDGE DIVISION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN												TOTAL	FINAL
			CGMPPA	RDWY	CHANNEL											
	8'2"x5'9" CGMPPA @ STA 21+32.23															
203.15	Common Excavation	CY		75											75	97
203.32	Granular Borrow	CY	340												340	285
203.27	Unclassified Channel Excavation	CY	10												10	8
204.25	Structure Excavation	CY	260												260	211
204.30	Granular Backfill for Structures	CY	30												30	38
301.15	Sub-base of Gravel	CY		450											450	286
406.25	Bituminous Concrete Pavement	ton		61											61	47.73
501.25	Concrete Class B	CY	7												7	3.39
507.15	Reinforcing Steel	LB	70												70	80
511.15	8'2"x5'9" CGMPPA (H=0.109")	LS	1												1	1
613.11	Stone Fill Type II	CY	60												60	57
621.22	Guard Rail, Three Cable w/1 Wood Posts	LF		592											592	600
637.10	Maintenance of Traffic for Bridge Project	LS	1												1	1
621.66	Anchor For 3 C.G.R. w/1 Steel & Wood Posts	EA		4											4	4
	Channel Relocation Sta 30+40 to 36+75															
203.27	Unclassified Channel Excavation	CY			3660										3660	4357
202.20	Removal of Existing Superstructure	LS		2											2	2
406.25	Bituminous Concrete Pavement	ton		12											12	7.78
613.11	Stone Fill Type II	CY			775										775	761
301.15	Sub-base of Gravel @ 8'46 & 8'61	CY		40											40	126
601.67	14" A.C.G.M.P. (1044)	LS		86											86	70
621.66	Anchor For 3 C.G.R. w/1 Steel and Wood Posts	EA		2											2	0
621.22	Guard Rail, Three Cable w/1 Wood Posts	LF		656											656	0
601.10	Seed	lb		30											30	67
601.13	Fertilizer	lb		250											250	575
601.25	Hay Mulch	ton		1											1	2.50

BRIDGE (S) AT STATION (S)
LOCATION (S)

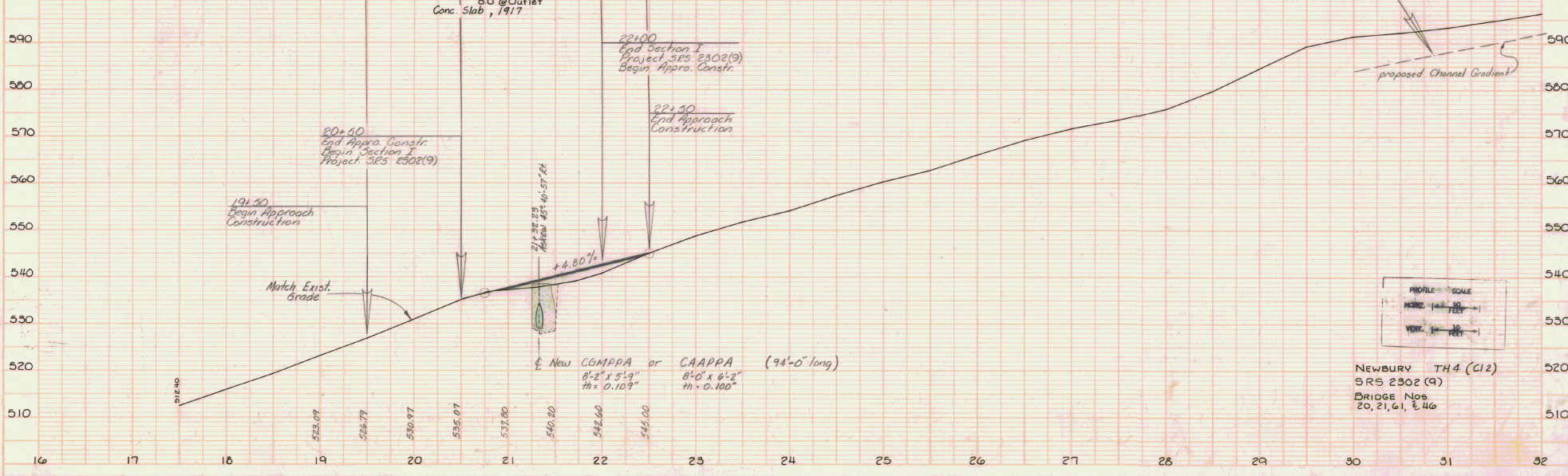
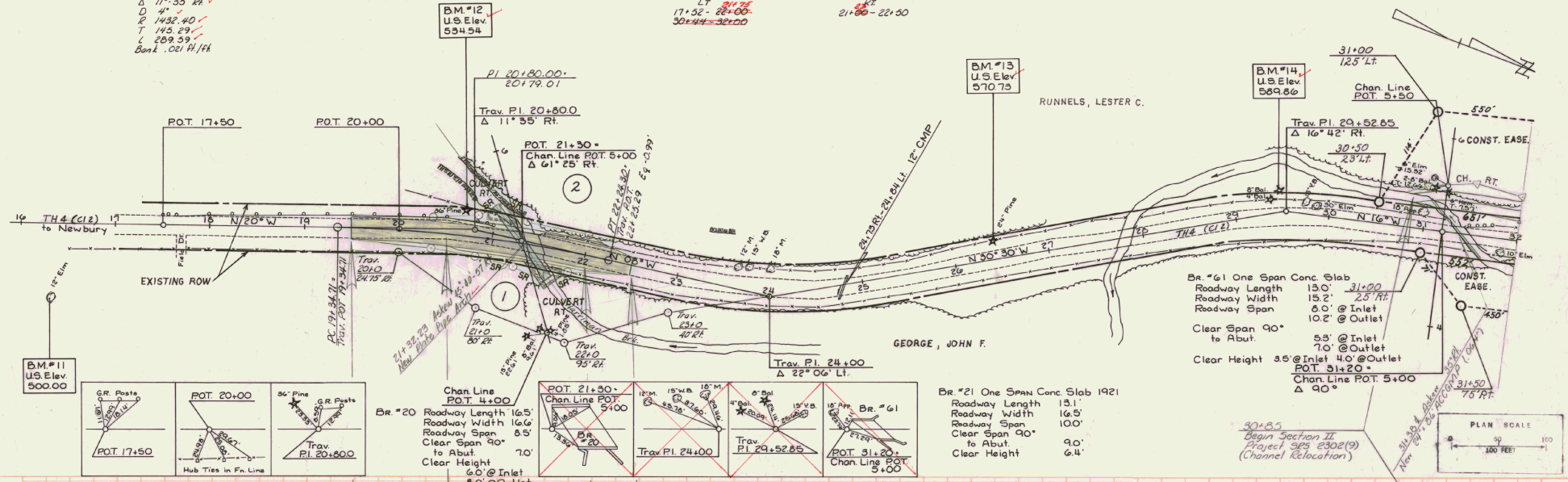
Prepared by: LADD
SUPERVISOR: R.S. Haver

Checked by: Newbury
BR OF

PROJECT NO. SRS 2302 (9)
SHEET NO. 2 OF 24

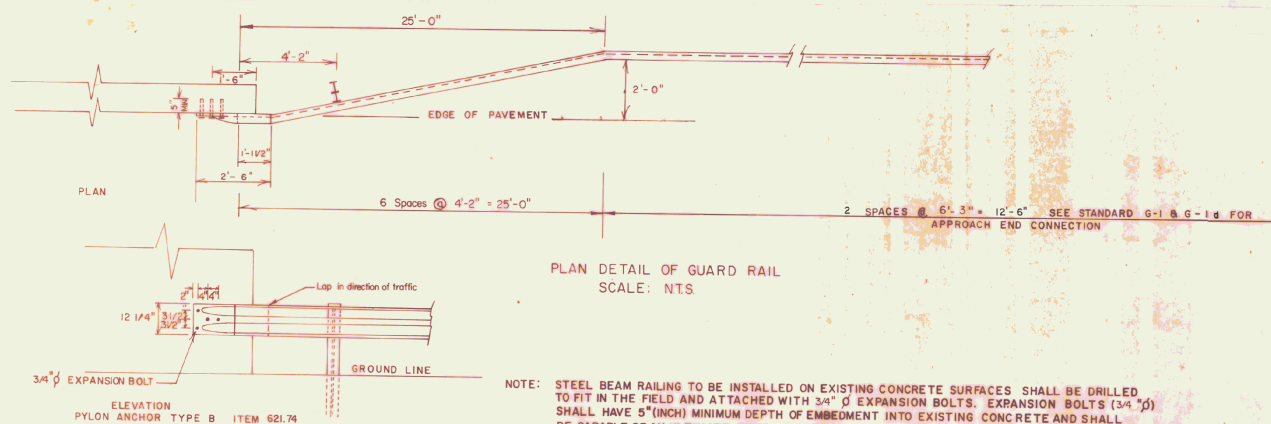
CURVE No. 1
 Δ 11° 35' RT
 D 4'
 R 1432.40
 T 145.29
 L 289.59
 Bank .021 H/H

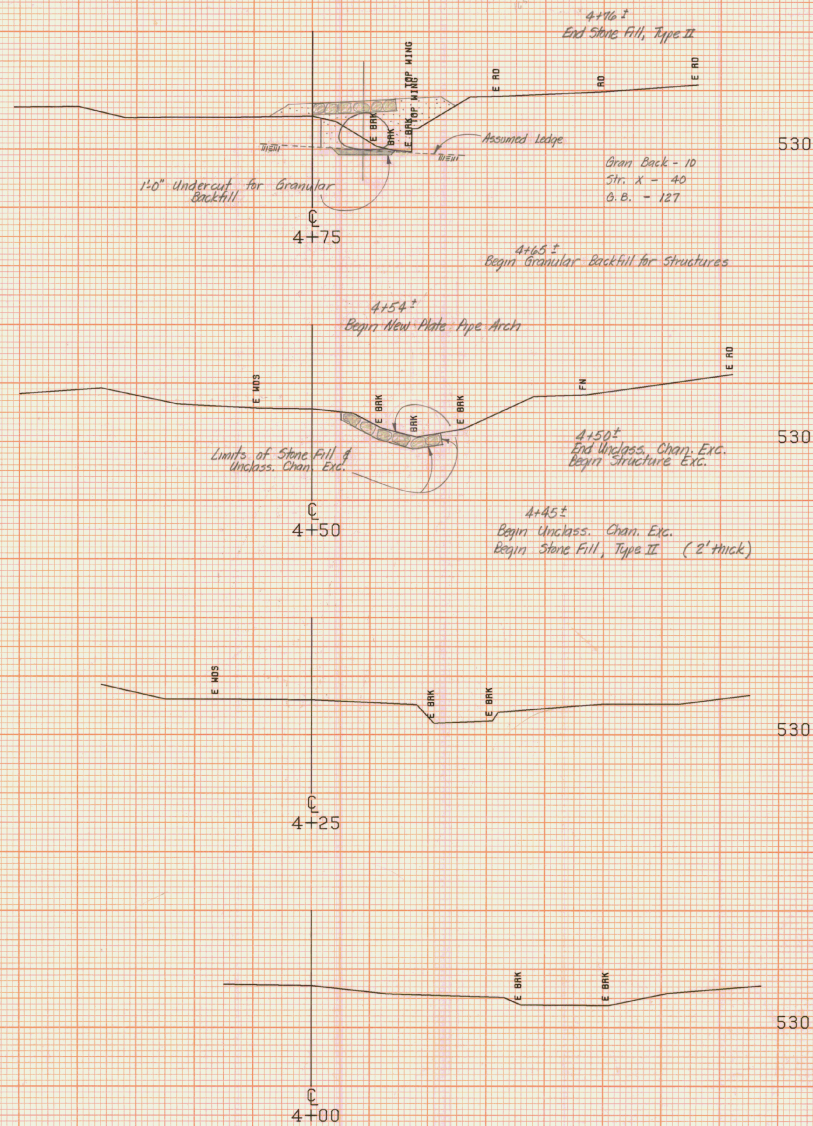
GUARD RAIL, THREE CABLE W/ LT. WOOD POSTS
 ITEM 621.22
 LT 211.75
 17+52 - 22+00
 30+44 - 32+00
 RT 21+00 - 22+50



NEWBURY TH4 (C12)
 SRS 2302 (9)
 BRIDGE Nos.
 20, 21, 61, & 46

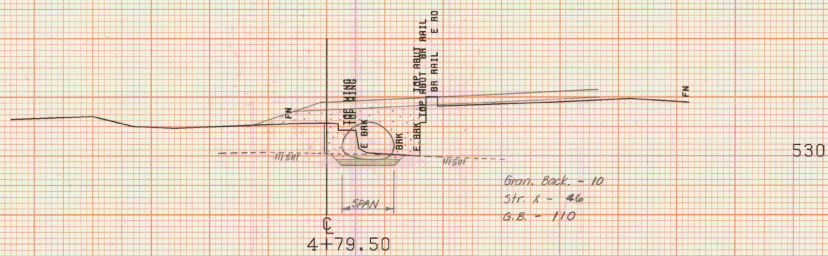
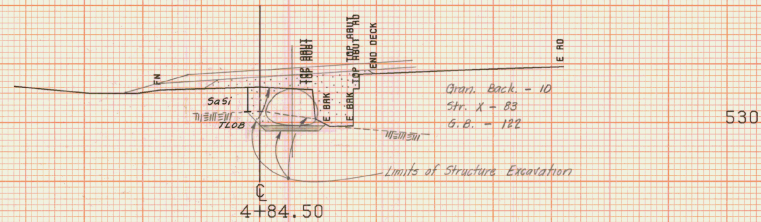
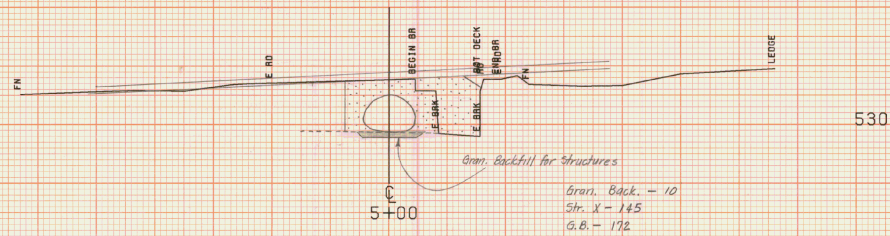
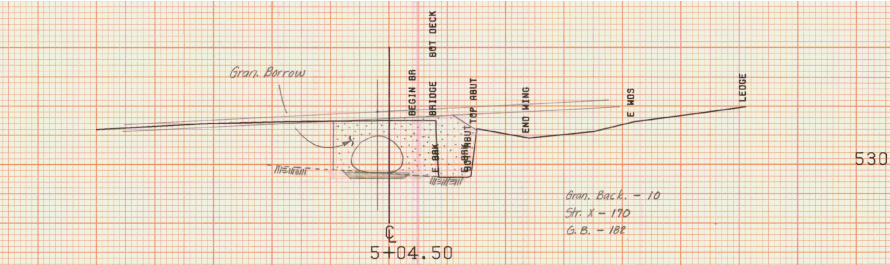
Sheet 4 of 24 Sheets





B20 CHANNEL SECTIONS

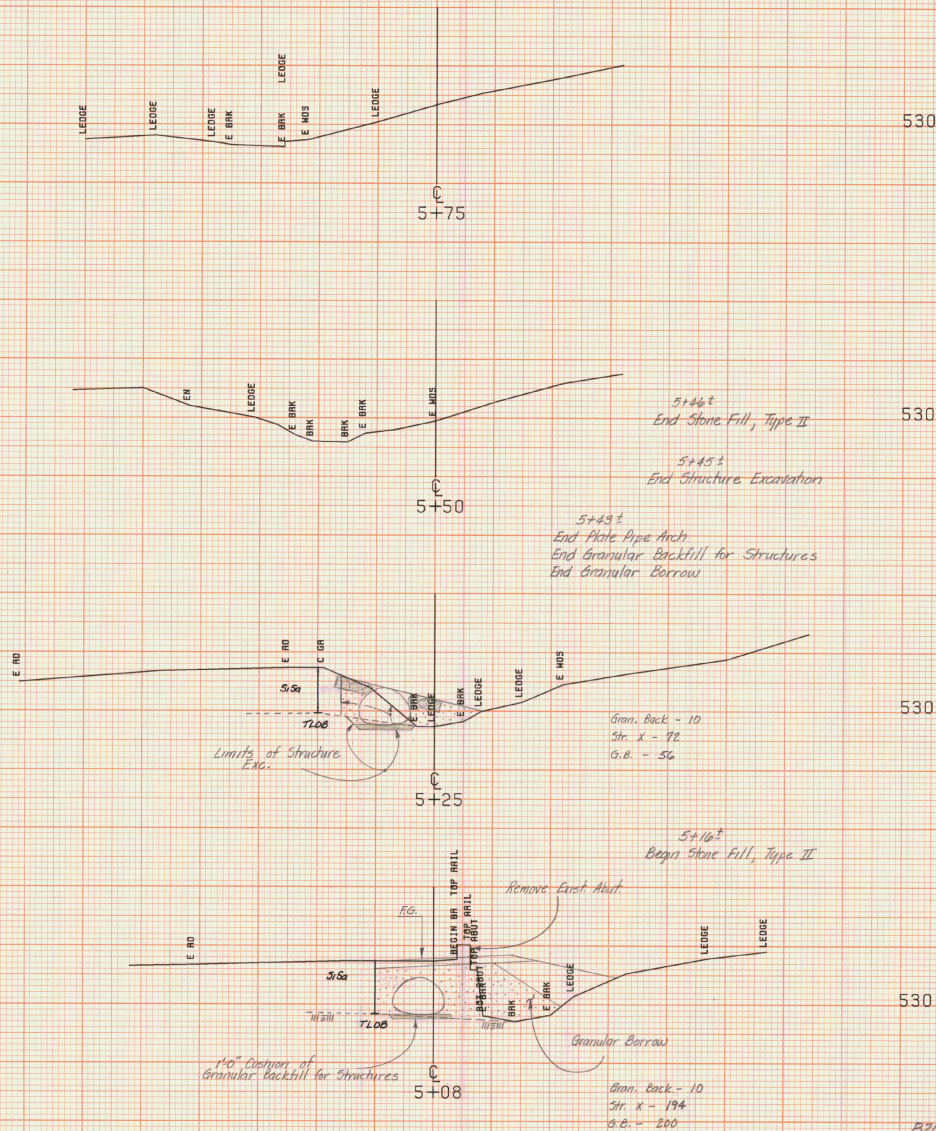
FROM STA. 4+00	TO STA. 4+75
PROJECT NAME	NEWMARY BR. NO. 20
NO.	SAS2302 (9)
SURVEYED BY	FALL
SHEET 13 OF 24 SHEETS	APR 75
	PLOTTED 04/15/75



B20 CHANNEL SECTIONS

FROM STA. 4+79.50 TO STA. 5+04.50
PROJECT NAME NEWBURY BR. NO. 30
NO. SRS2302 (9) PLOTTED 04/15/75
SURVEYED BY FALL APR 75
SHEET 14 OF 24 SHEETS

SCALE 1/8" = 1' 0"



530

530

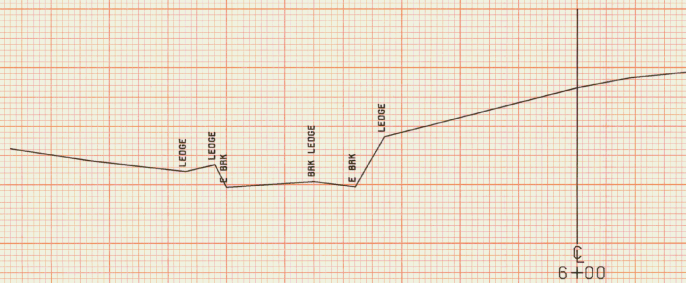
530

530

B20 CHANNEL SECTIONS

FROM STA. 5+08	TO STA. 5+75
PROJECT NAME	NEWBURY BR. NO. 20
NO.	SAS2302 (9)
SURVEYED BY	FALL
SHEET 10 OF 24 SHEETS	APR 75

SCALE 1/4" = 1' HORIZONTAL



520

B20 CHANNEL SECTIONS

FROM STA. 6+00	TO STA. 6+00
PROJECT NAME	NEWBURY BR. NO. 20
NO.	SAS2302 (9)
SURVEYED BY	FALL
SHEET 10 OF 24 SHEETS	PLOTTED 04/15/75 APR 75

SCALE 1" = 10 FEET

TRAY
L

526.79 match exist grade

19+50

523.09
523.09

19+00

519.24

18+50

18+00

17+52 Begin Guard Rail Three Cable
w/ 2 Wood Posts Then 6x6 EC

17+50

TRAY
L

520

PC 19+34.71
TAN. P.O.T. 19+34.71
D. 4" 24
Bank .081 FH/H

520

510

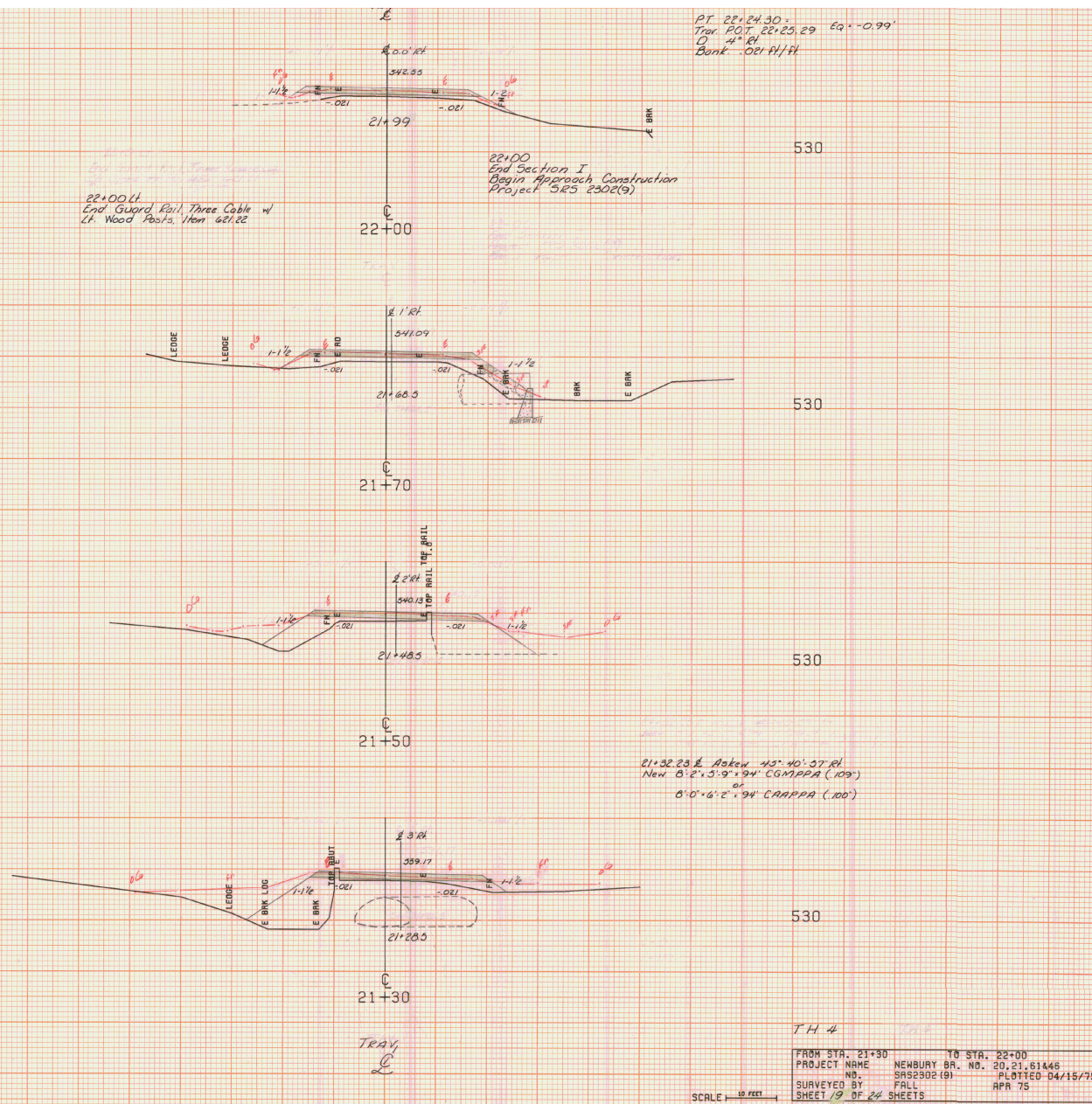
510

510

T.H. 4

FROM STA. 17+50	TO STA. 19+50
PROJECT NAME	NEWBURY BR. NO. 20, 21, 61446
NO.	SAS2302 (9)
SURVEYED BY	FALL
SHEET 17	OF 24 SHEETS
	PLOTTED 04/15/75
	APR 75

SCALE 1" = 10 FEET



TH 4

24+50

550

24+00

550

23+50

550

23+00

540

22+50

540

TH 4

22+50
End Approach Construction

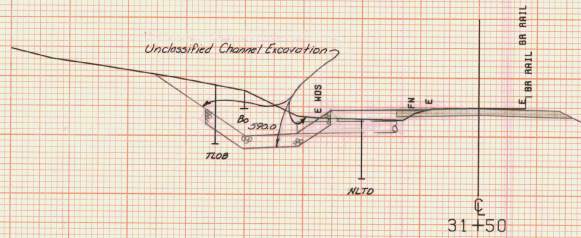
22+50 match existing Grade

22+44 ft
End Guard Rail Three Cable w/
4" Wood Posts, Item 62122

TH 4

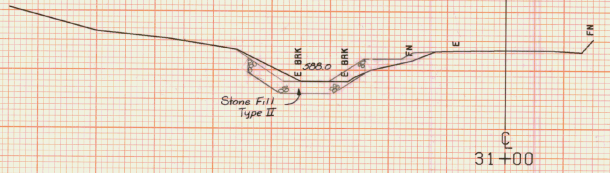
FROM STA. 22+50	TO STA. 24+50
PROJECT NAME	NEWBURY BR. NO. 20, 21, 81446
NO.	SAS2302(9)
SURVEYED BY	FALL
SHEET 20	OF 24 SHEETS

SCALE 1" = 10 FEET



590

31+38.5 Asken 35' Bl.
New 24'x36' ACCGMP (.064)

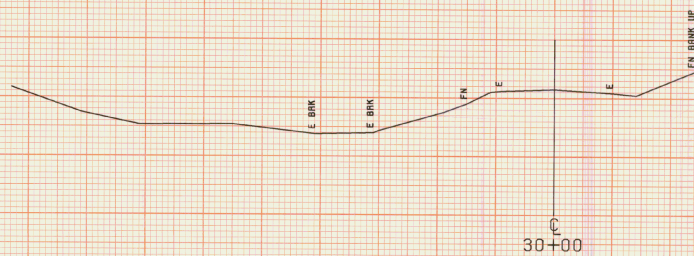


590

30+85
Begin Section II
Project 305-2302(9)
Channel Relocation

30+44 ft
Begin Guard Rail Three Cable w/
6 Wood Posts, Item 82122

590

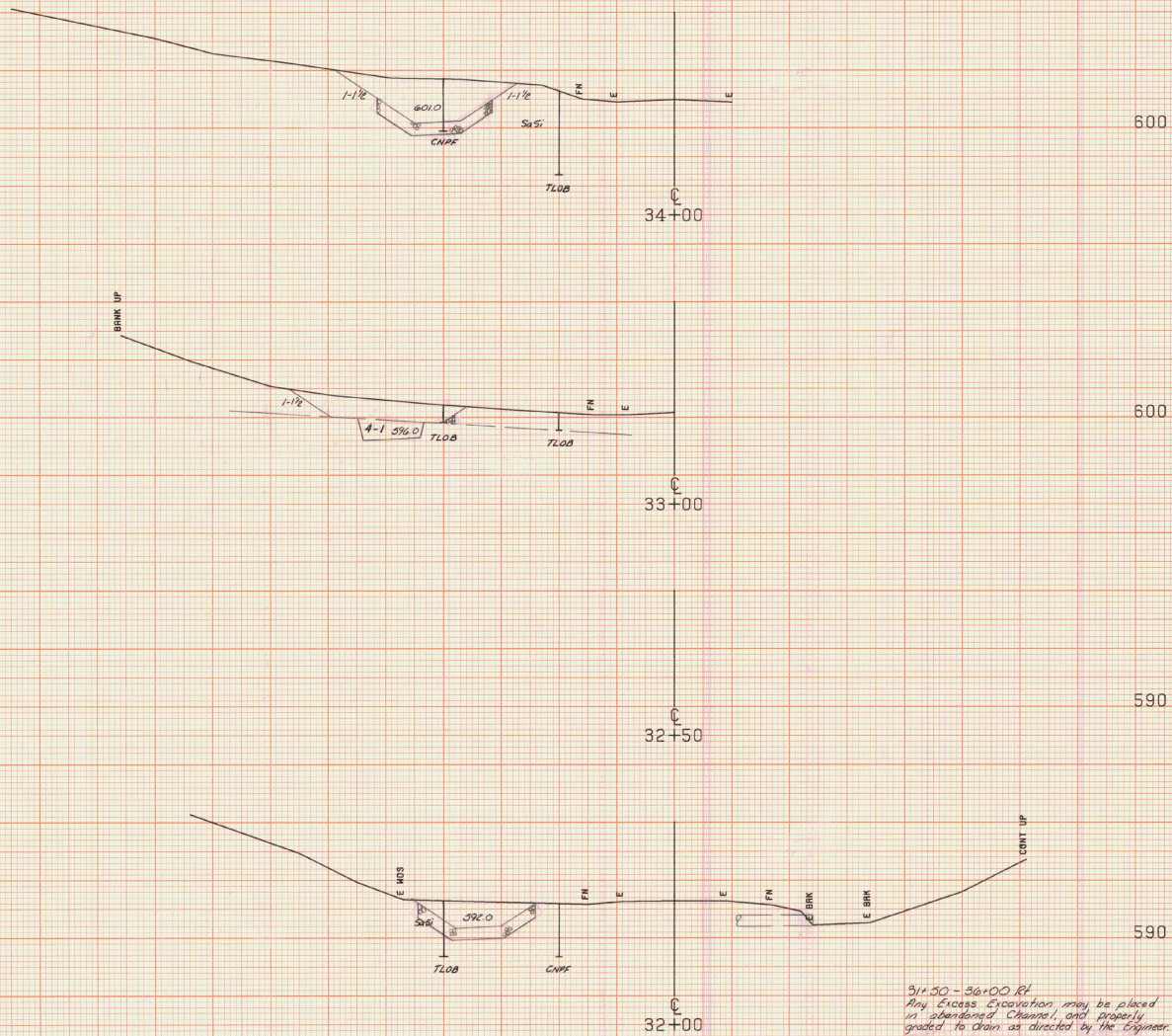


580

TH 4

FROM STA. 30+00	TO STA. 31+50
PROJECT NAME	NEWBURY BR. NO. 20.21.81448
NO.	SAS2302(9)
SURVEYED BY	FALL
SHEET 2 OF 24 SHEETS	PLOTTED 04/15/75

SCALE 1" = 10' FEET

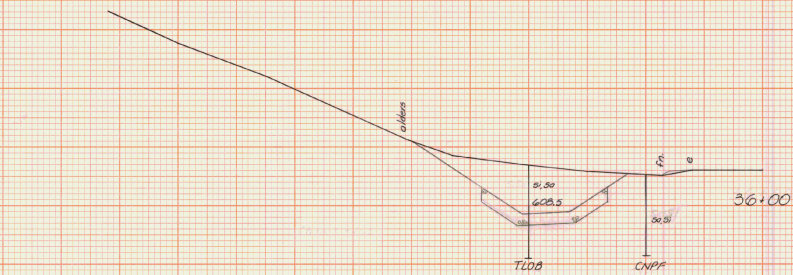


32+50 - 34+00 Rt.
Any Excess Excavation may be placed
in abandoned Channel, and properly
graded to drain as directed by the Engineer.

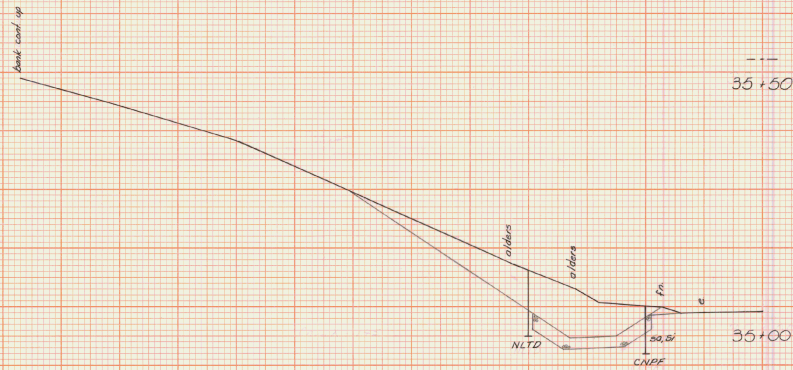
TH 4

FROM STA. 32+00	TO STA. 34+00
PROJECT NAME	NEWBURY BR. NO. 20, 21, 61446
NO.	SAS2902(9)
SURVEYED BY	FALL
SHEET 22	OF 24 SHEETS
	APR 75

SCALE 1" = 10 FEET



610



610

610

610

34+50

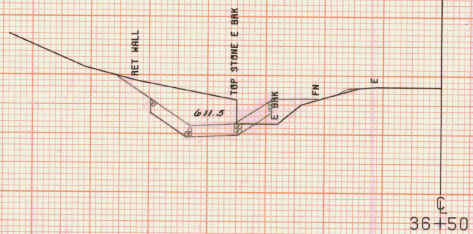
34+50

TH 4 11 4

STA	34+50	36+00
PROJECT	NEWBURY	Br. 2021/6/14
SRS	2302(9)	
SHEET	23	of 24 SHEETS
DATE	Fall	Apr. 73

37+00 LL
 End Guard Rail, Three Cable w/
 Lt. Wood Posts, Item 62122

36+80
 End Section II
 Project SPS 2302(9)
 Channel Relocation



620

610

610

TRAY
 ①
 2

TH 4

FROM STA. 36+50	TO STA. 37+50
PROJECT NAME	NEWBURY BR. NO. 20, 21, 61446
NO.	SPS2902(9)
SURVEYED BY	FALL
SHEET 24 OF 24 SHEETS	PLOTTED 04/15/75
	APR 75

SCALE 1" = 10 FEET

- INDEX OF SHEETS
1. TITLE SHEET
 2. QUANTITY SHEET
 - 3-4. PLAN AND PROFILE SHEETS
 5. PLATE PIPE DETAILS
 6. E-3 BRIDGE CONSTRUCTION APPROACH SIGNS
 7. E-6 ON PROJECT CONSTRUCTION SIGNS
 8. G-1 GUARD RAIL, STD. STEEL BEAM WITH STEEL POSTS, TYPE II
 - 9-12. CROSS SECTIONS-CHANNEL LINE AT 21+32.23
 - 13-20. CROSS SECTIONS-ROADWAY

STATE OF VERMONT DEPARTMENT OF HIGHWAYS



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF NEWBURY

COUNTY OF ORANGE

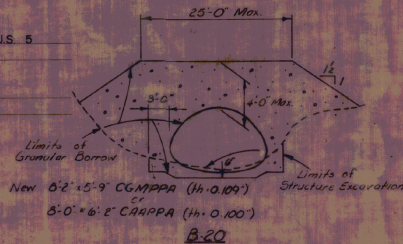
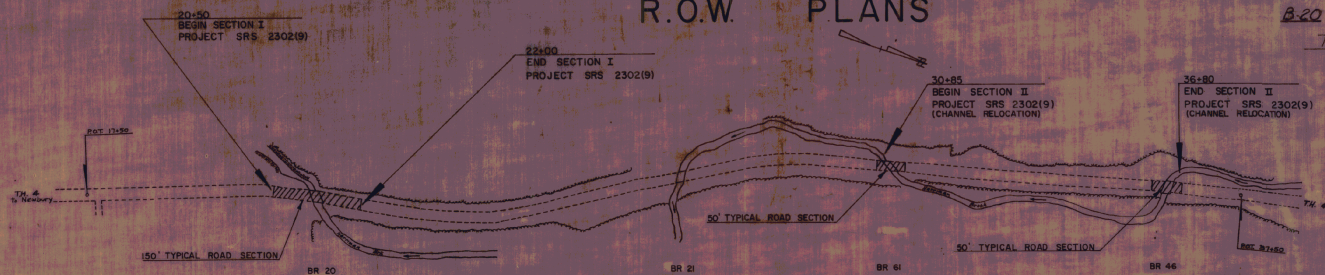
ROUTE NO. TH 4 (CLASS 2) BRIDGES NO. 20, 61, 46

PROJECT LOCATION: BEGINNING ON TH 4, 0.9 MILES WEST OF THE INTERSECTION WITH U.S. 6
AND PROCEEDING WESTERLY ALONG TH 4 FOR 0.3 MILES

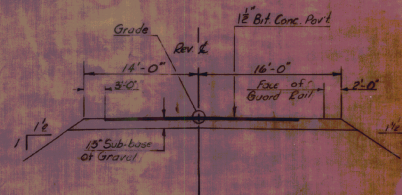
PROJECT DESCRIPTION: SECTION I - REPLACE B-20 WITH A NEW PLATE PIPE ARCH.
SECTION II - RELOCATE HARRIMAN BROOK FROM STA. 30+85 TO 36+80, ELIMINATING B-61 & B-46.

SECTION I ROADWAY 150 FEET = 0.028 MILES
SECTION II CHANNEL 595 FEET = 0.113 MILES

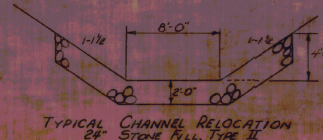
R.O.W. PLANS



TYPICAL BRIDGE SECTION
Not to Scale



TYPICAL ROADWAY SECTION
Not to Scale



TYPICAL CHANNEL RELOCATION
E4 Stone Fill, Type II

CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELLED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- F.A. CONST. IDENTIFICATION SIGNS
- PROPERTY LINE
- SLOW TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

TRAFFIC DATA

1975 ADT	115	1985 ADT	145
1975 DHV	25	1985 DHV	35
D%	55		
T%	6		
V	35 MPH		

ACCIDENT DATA, 5 YEAR PERIOD 1

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

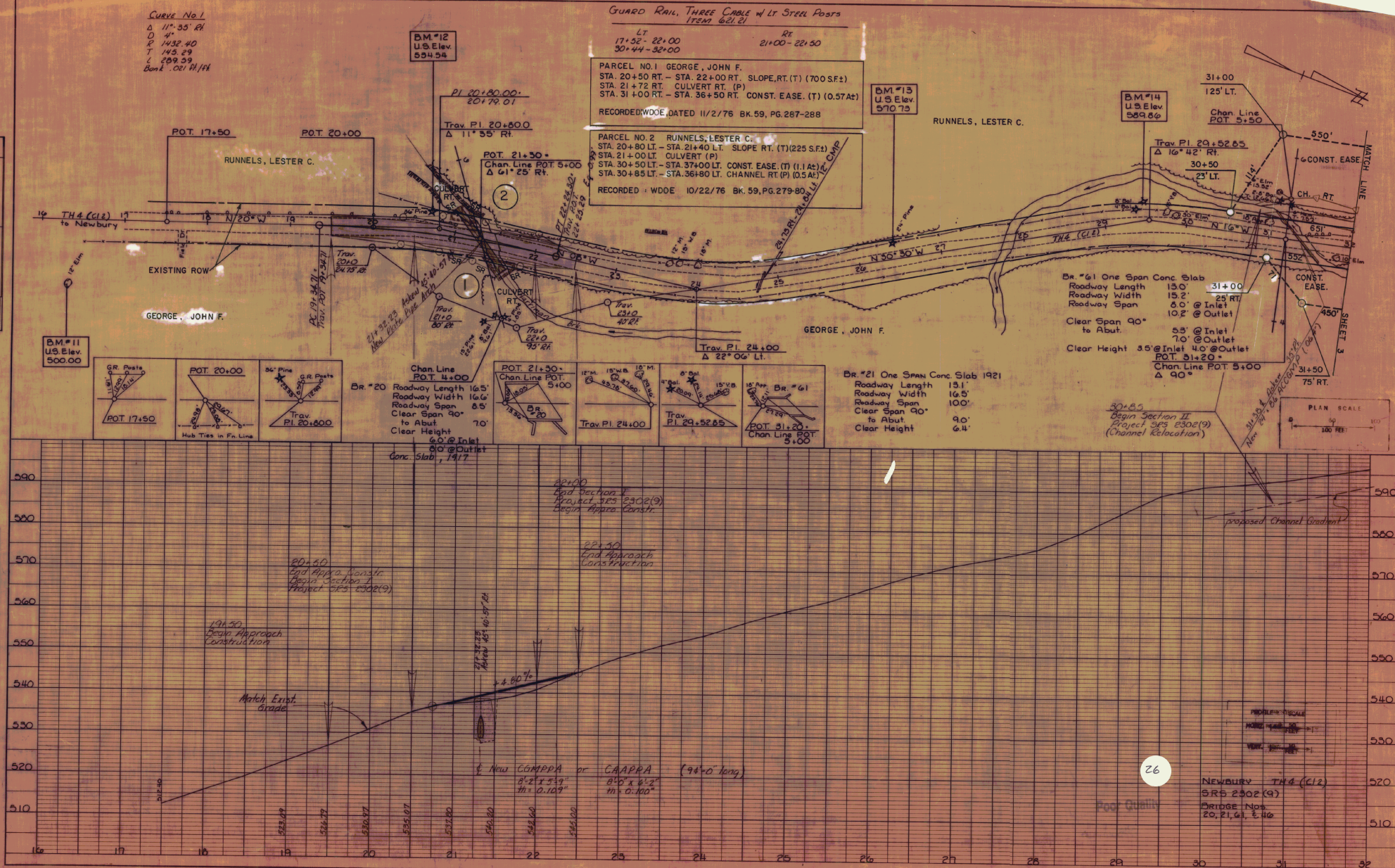
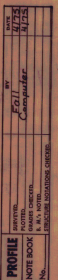
APPROVED: *E. H. Kitching* DATE 7-1-76
CHIEF ENGINEER

APPROVED: *M. J. P. [Signature]* DATE 7-1-76
DEPUTY CHIEF ENGINEER

NEWBURY
PROJECT SRS NY 2302(9) 40'

SHEET 1 OF 3 SHEETS

25

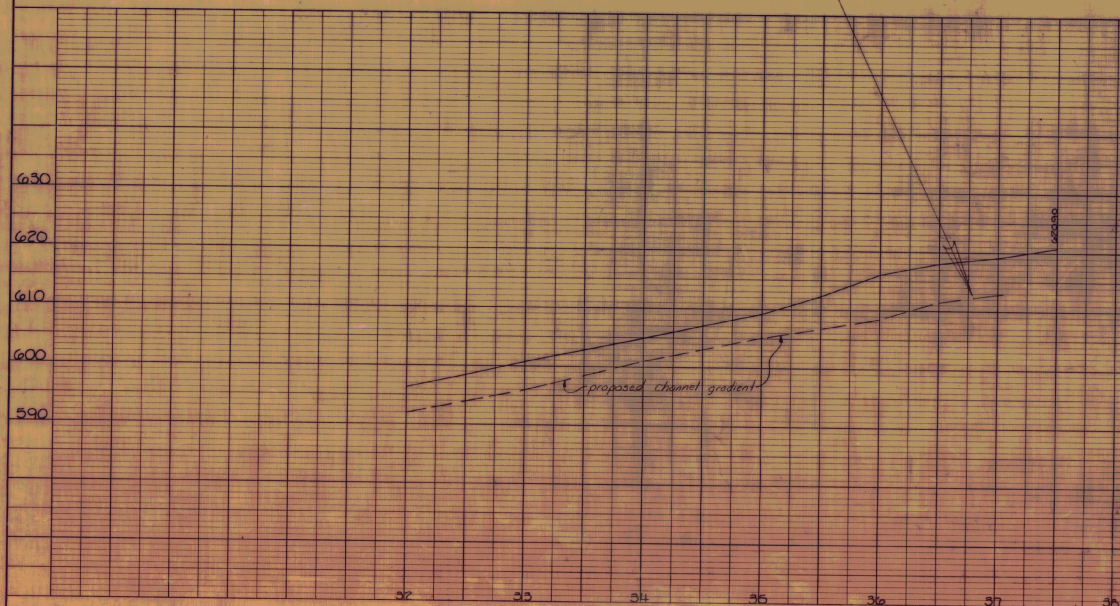
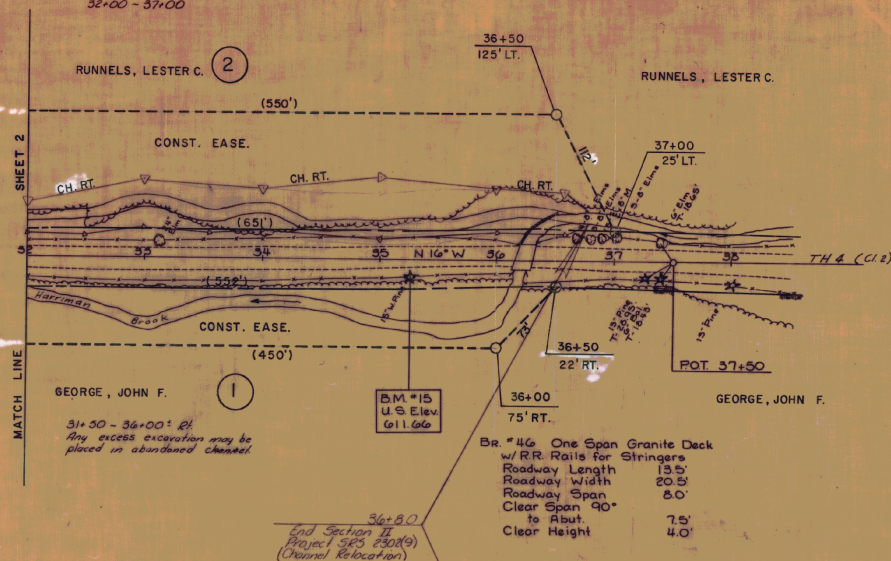


PLAN	DATE	BY	CHKD
	10/1/54	W. J. HARRIS	A. J. HARRIS
NOTE BOOK	REVISIONS		
	NO. 1		

PROFILE	DATE	BY	CHKD
	10/1/54	W. J. HARRIS	A. J. HARRIS
NOTE BOOK	REVISIONS		
	NO. 1		

GUARD RAIL, THREE CABLE W/ LT STEEL POSTS

ITEM 621.21
32+00 - 37+00 RT



27

NEWBURY TH &
SRS 2302(9)
BRIDGE NOS
20, 21, 21 & 40

Peer Quality