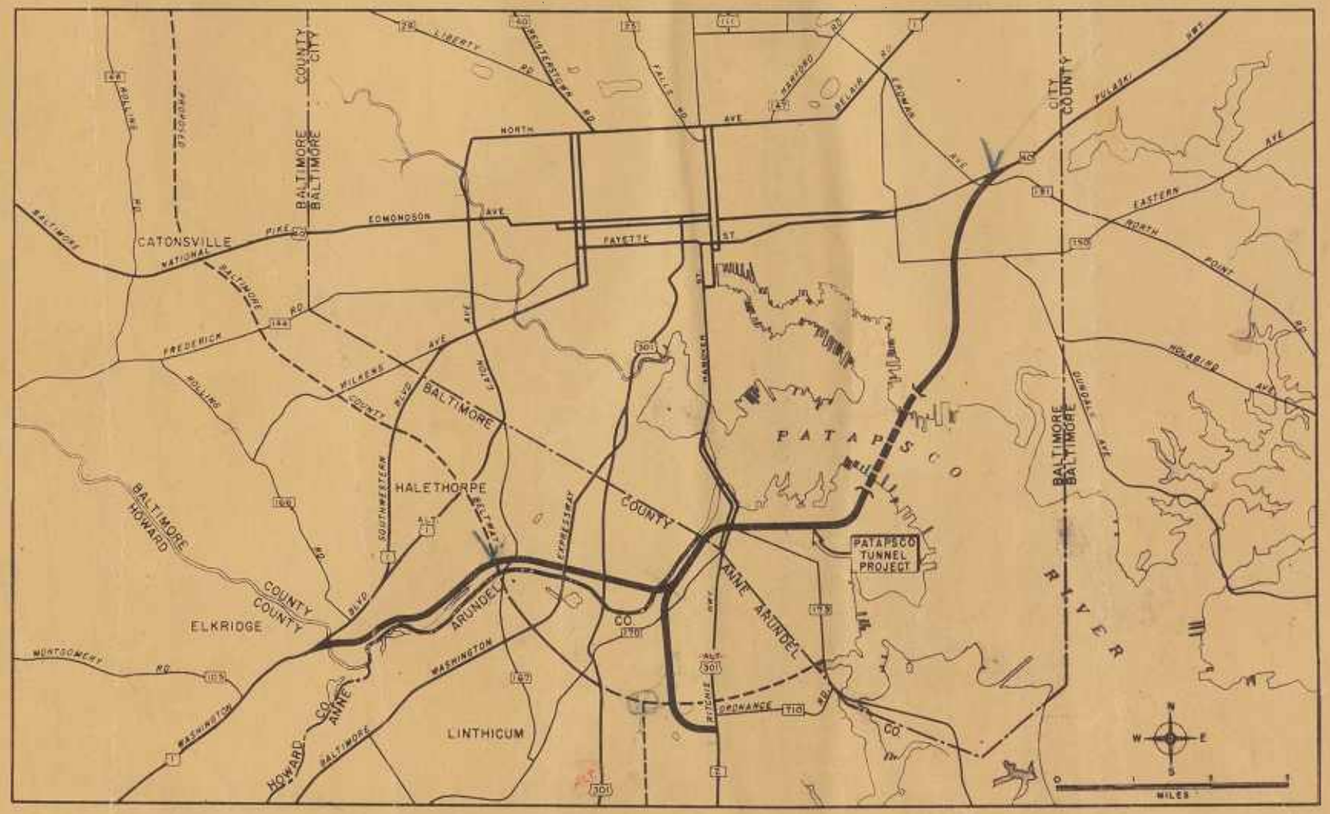
OPENED Nov. 30, 1957

STATE OF MARYLAND

STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT



J.E. GREINER COMPANY – CONSULTING ENGINEERS

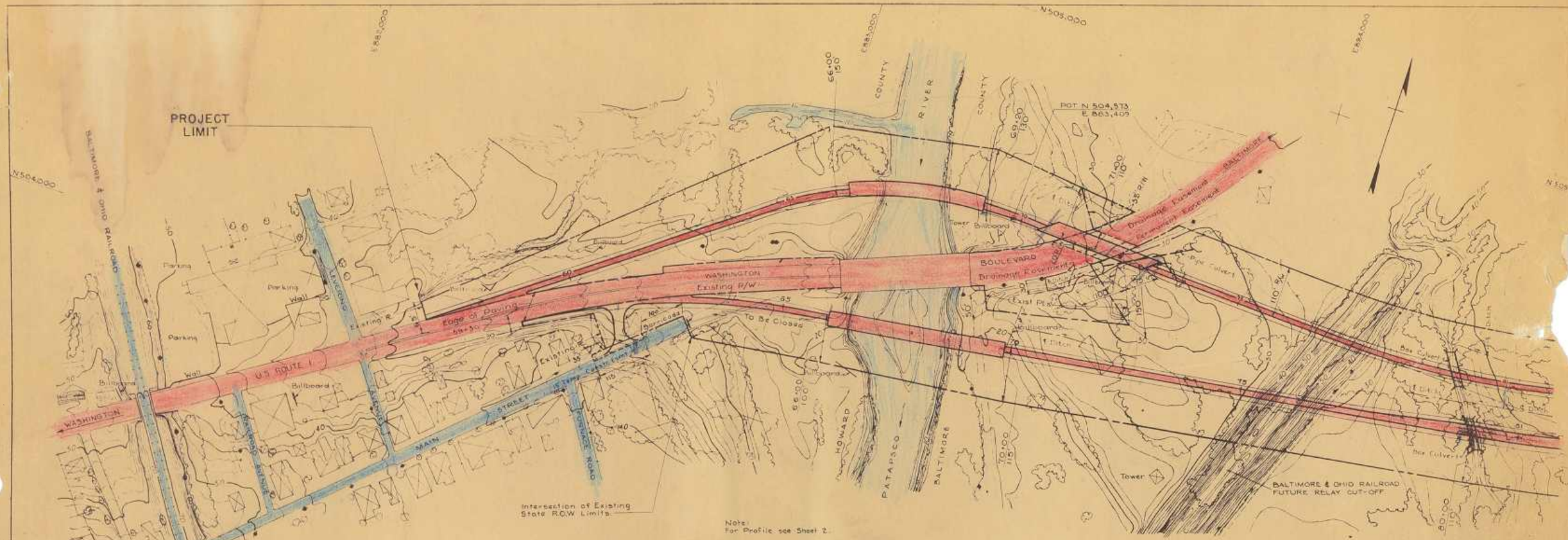
BALTIMORE, MARYLAND

SUBMITTED OCTOBER 8, 1954

J E GREINER CO

BY Herschel H. Allen

REVISED 16 MAY 55



LEGEND

CREEK OR STREAM	EXISTING PAVED ROADS	PROPOSED NEW OR RELOCATED ROAD (Surfaced Shoulders, Pavement, Structure)
RIVER	EXISTING DIRT ROADS	TUNNEL
LAKE OR POND	PROPOSED ROAD (OTHER PROJECTS)	RELOCATED RAILROAD TRACK
MARSH	RAILROAD TRACK	BOX CULVERT
WOODS	BRIDGE	PIPE CULVERT
INDEX CONTOUR (10 FT.)	POWER LINE OR POWER & TEL. LINE	RIGHT OF WAY LINE
INTERMEDIATE CONTOUR (2 FT.)	TRANSMISSION TOWERS	
DEPRESSION CONTOUR	BUILDINGS	
TRAIL	FENCE	

GENERAL NOTES

Datum: U.S.C. & G.S. Mean Sea Level Datum, 1929 - Sandy Hook.
Coordinates: Maryland Lambert Projection.
Stationing as shown is based on simple horizontal curves and does not take spiral transitions into consideration.
Topography as shown is based on an aerial survey made in March 1954.
Proposed drainage as shown includes pipe culverts, box culverts, ditches, and stream relocations. Inlets, manholes, and storm drains are not shown.
These strip maps were prepared to accompany the Civil Engineering Report dated October 8, 1954.

SCALE
100 0 100 200 300 400

No.	Revisions	By	Date
2	ROW dims added	C.F.D.	4-22-55
1	Horizontal Alignment & ROW Sta. 56 to 81	C.D.	4-4-55

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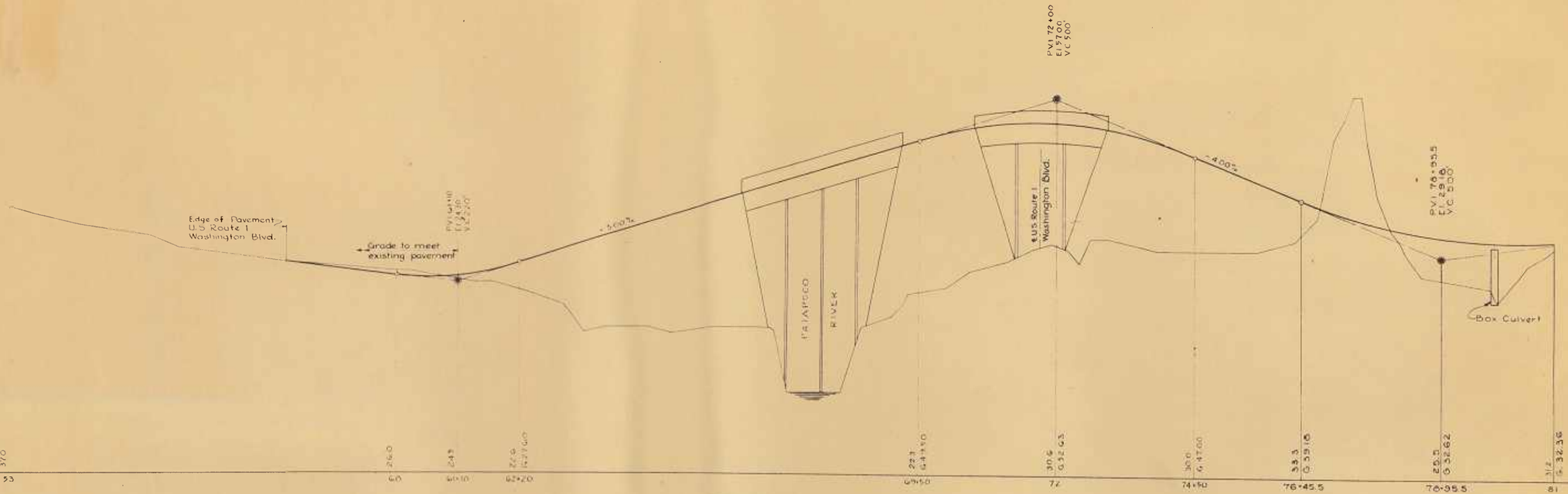
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

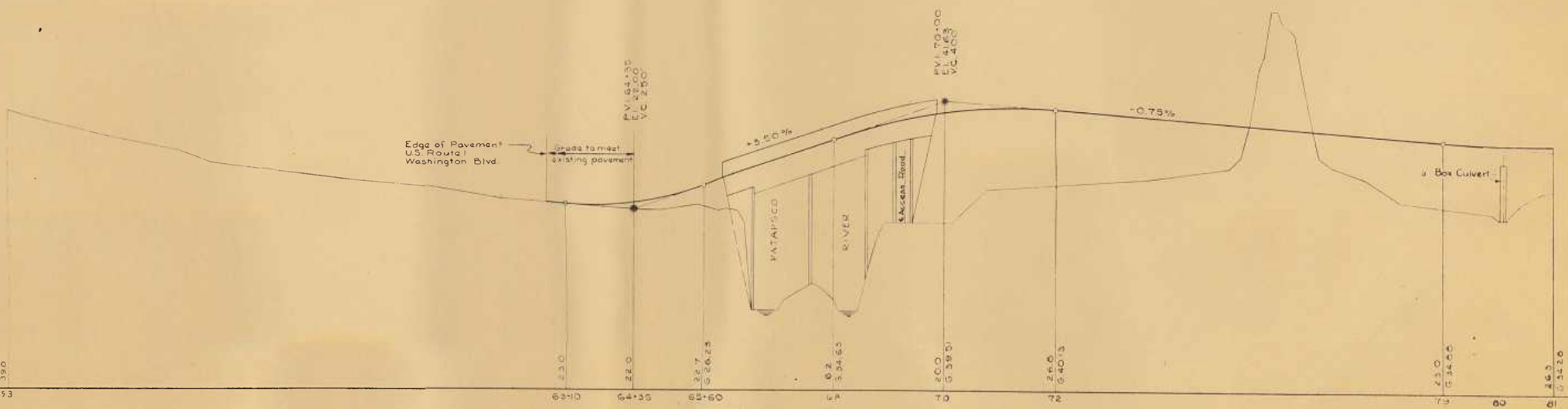
PATAPSCO TUNNEL PROJECT

PLAN - STA. 53+00 TO STA. 81+00

S.



SOUTHBOUND LANE



NORTHBOUND LANE

SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

1	Grade Line N.B.L. Sta 63 to 81 & S.B.L. Sta 76-81	A.V.C.	4-1-55

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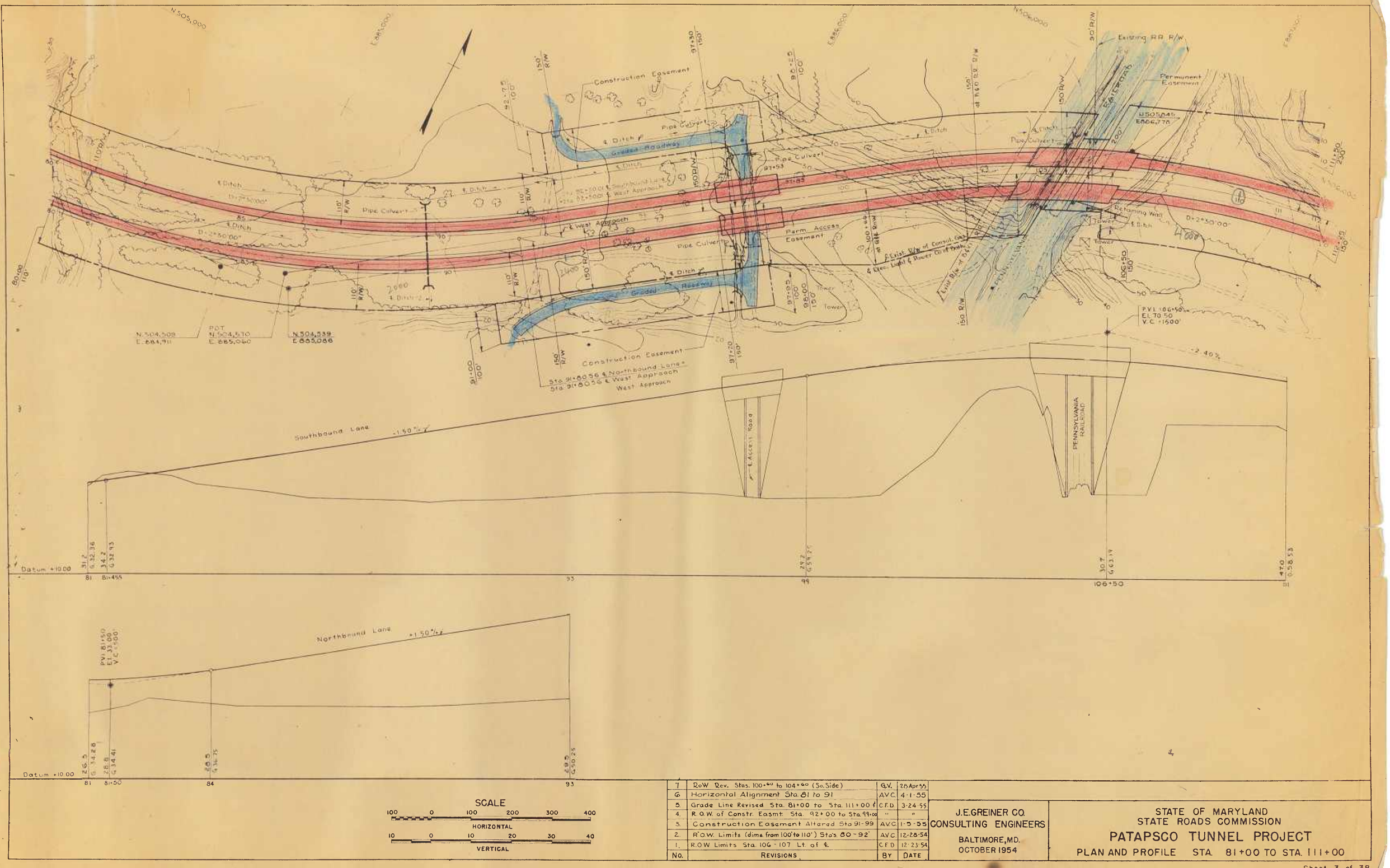
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT



SCALE

HORIZONTAL: 100 0 100 200 300 400

VERTICAL: 10 0 10 20 30 40

No.	Revisions	By	Date
7	RoW Rev. Stas. 100+60 to 104+60 (So. Side)	G.V.	28 Apr 55
6	Horizontal Alignment Sta. 81 to 91	A.V.C.	4-1-55
5	Grade Line Revised Sta. 81+00 to Sta. 111+00 ℄	C.F.D.	3-24-55
4	R.O.W. of Constr. Easmt: Sta. 92+00 to Sta. 99+00	"	"
3	Construction Easement Altered Sta 91-99	A.V.C.	1-5-55
2	R.O.W. Limits (dims. from 100' to 110') Sta's. 80 - 92'	A.V.C.	12-28-54
1	R.O.W Limits Sta. 106 - 107 Lt. of ℄	C.F.D.	12-23-54

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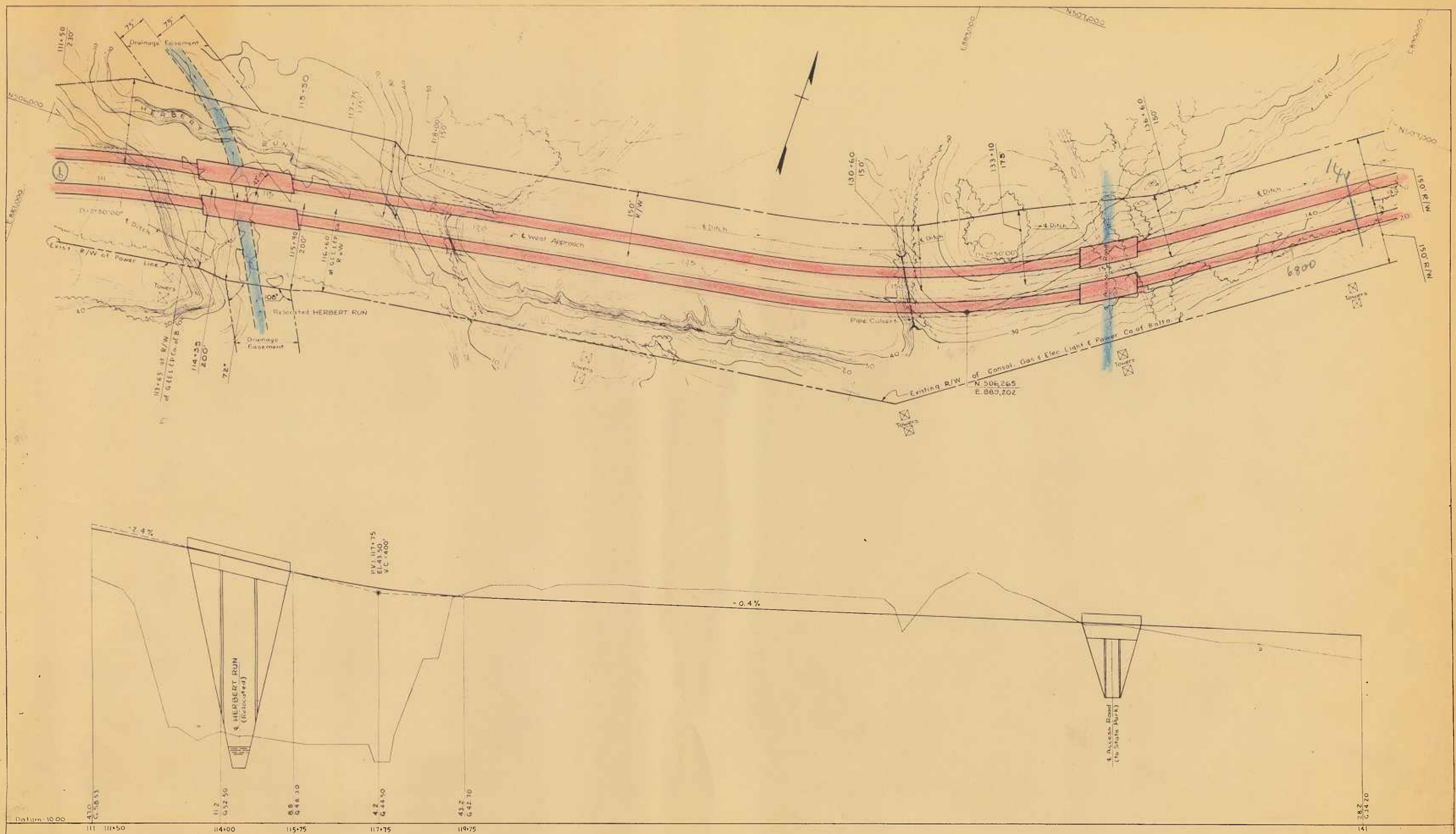
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE STA. 81+00 TO STA. 111+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No.	Revision	By	Date
3	R.O.W. Revised Stas 110 to 142 South of ℄	C.F.D.	4-29-55
2.	Grade Line Revised	C.F.D.	4-6-55
1.	R.O.W. Dimensions Sta. 115±, 133+10	A.V.C.	12-28-54

J.E. GREINER CO.
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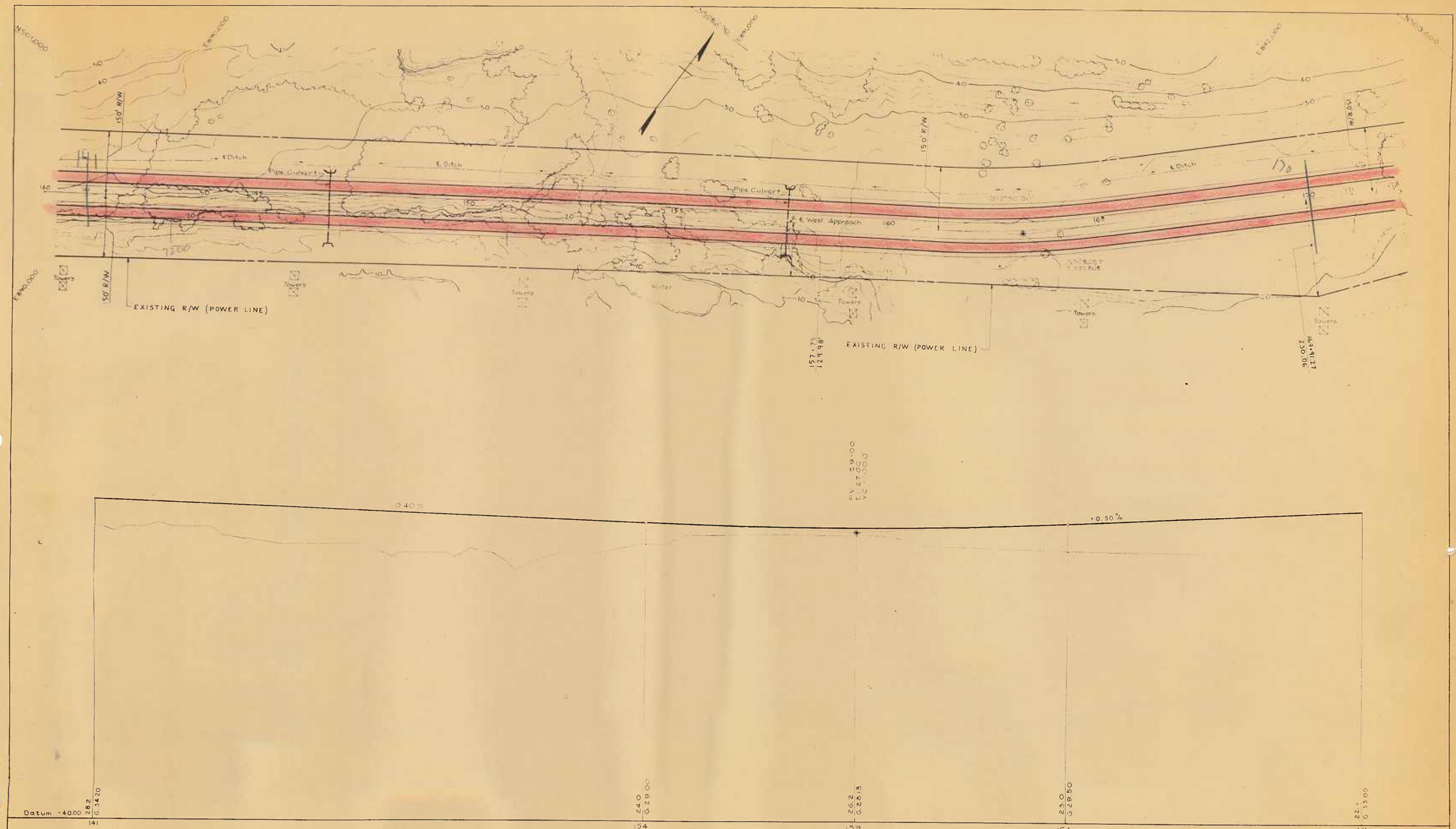
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 111+00 TO STA. 141+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

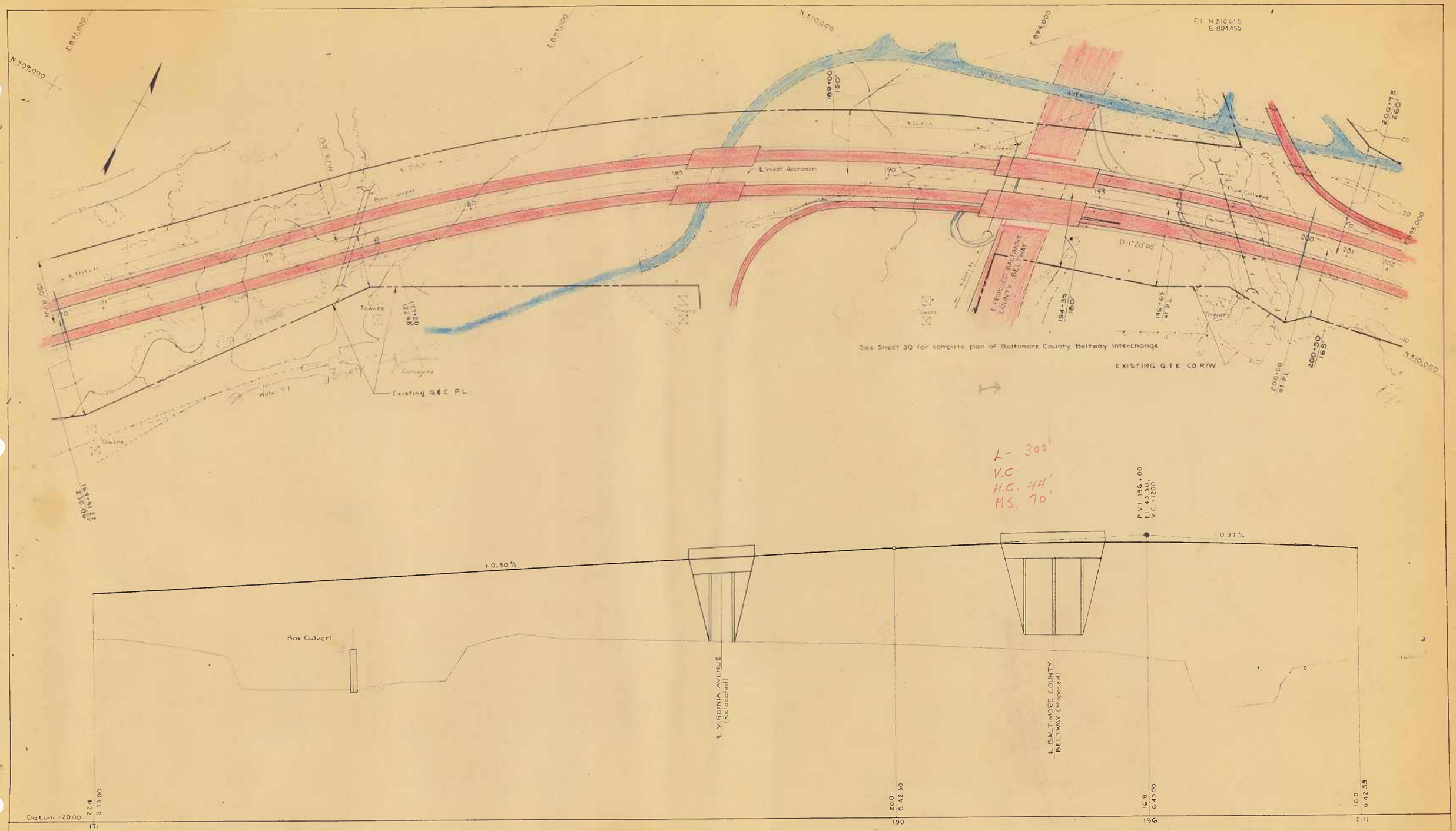
No.	Revisions	By	Date
2	RoW Dims Rev. Sta 157 to 172 South Side	C.F.D.	4-19-55
1	Grade Line Revised	C.F.D.	4-6-55

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 141+00 TO STA. 171+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No.	Revision	By	Date
2	R.o.W. Dims. Rev. Stas 170 to 185 South Side	C.F.D.	19 Apr 55
1.	R.O.W. Dims. Sta's. 170, 184-189, 200-50, 200-75	A.V.C.	12-28-54

J.E. GREINER CO.
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BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE - STA. 171+00 TO STA. 201+00

SCALE

100	0	100	200	300	400

HORIZONTAL

10	0	10	20	30	40

VERTICAL

1.	R.O.W. Dimension Sta's 204-208	A.V.C.	12-29-54
NO.	REVISIONS	BY	DATE

J. E. GREINER CO.
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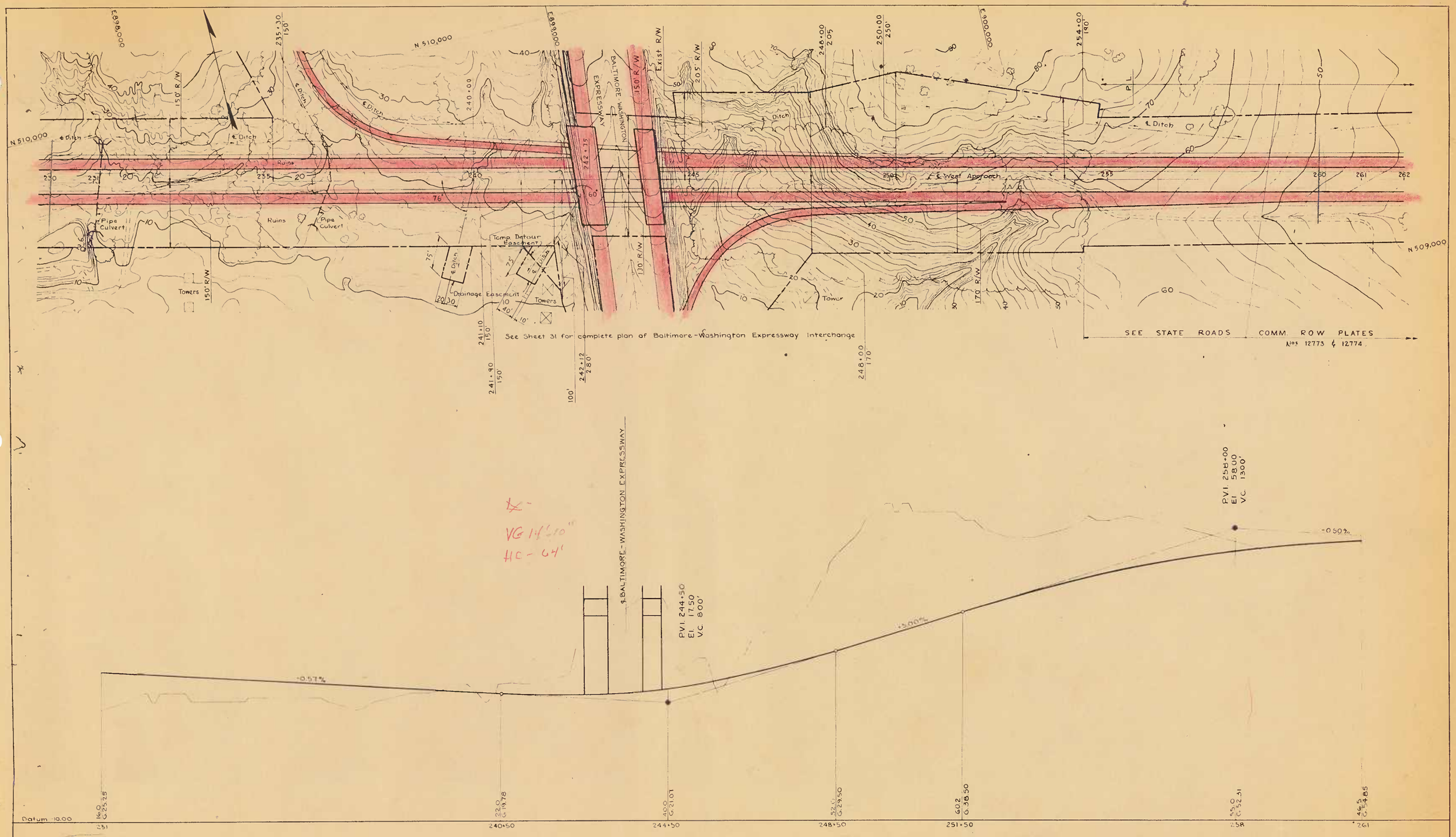
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
PLAN AND PROFILE — STA. 201+00 TO STA. 231+00



No.	Revisions	By	Date
2	S.R.C. Std. Plat Nos Rev.	GV	21 Apr 55
1	R.O.W. Dimensions Added		12 54

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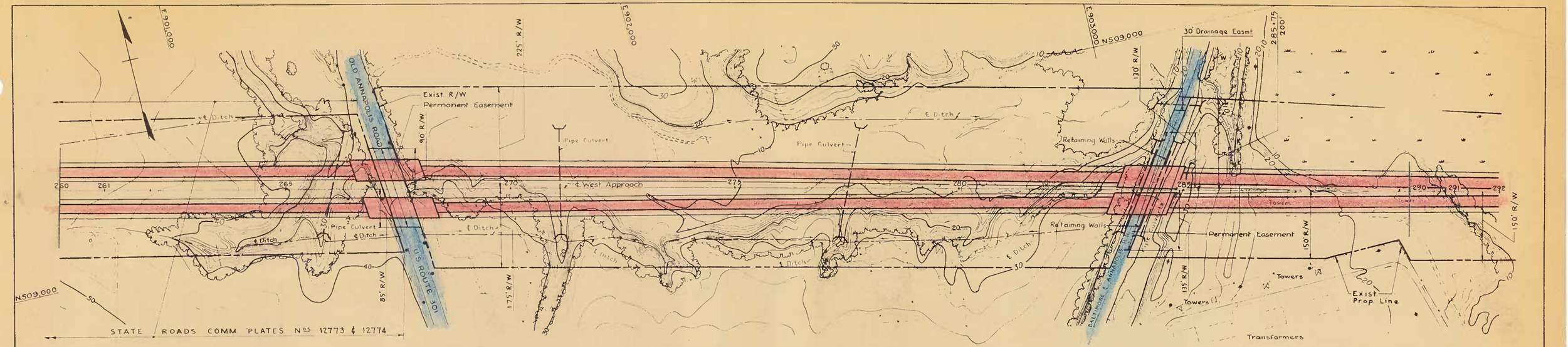
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

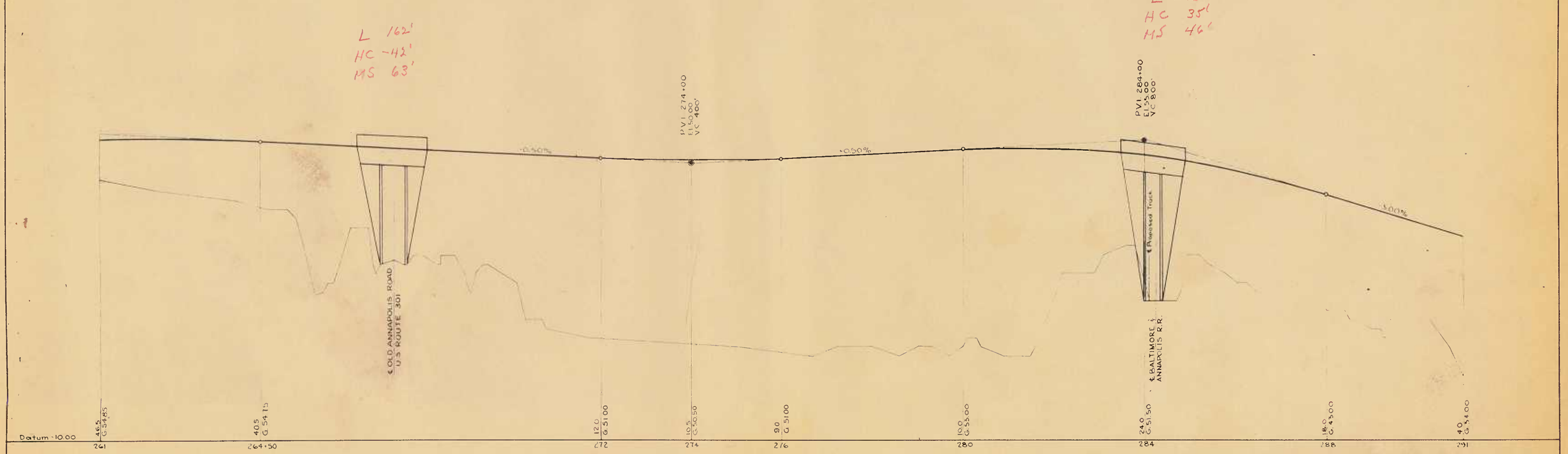
PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 231+00 TO STA. 261+00



L 162'
HC 42'
MS 63'

L - ~~162~~ 170'
HC 35'
MS 46'



SCALE
100 0 100 200 300 400
HORIZONTAL
10 0 10 20 30 40
VERTICAL

No.	Revisions	By	Date
2	S.R.C. Std Plat Nos Rev.	G.V.	21 Apr 55
1	R.O.W. Dimensions Added		12 - 54

J. E. GREINER CO.
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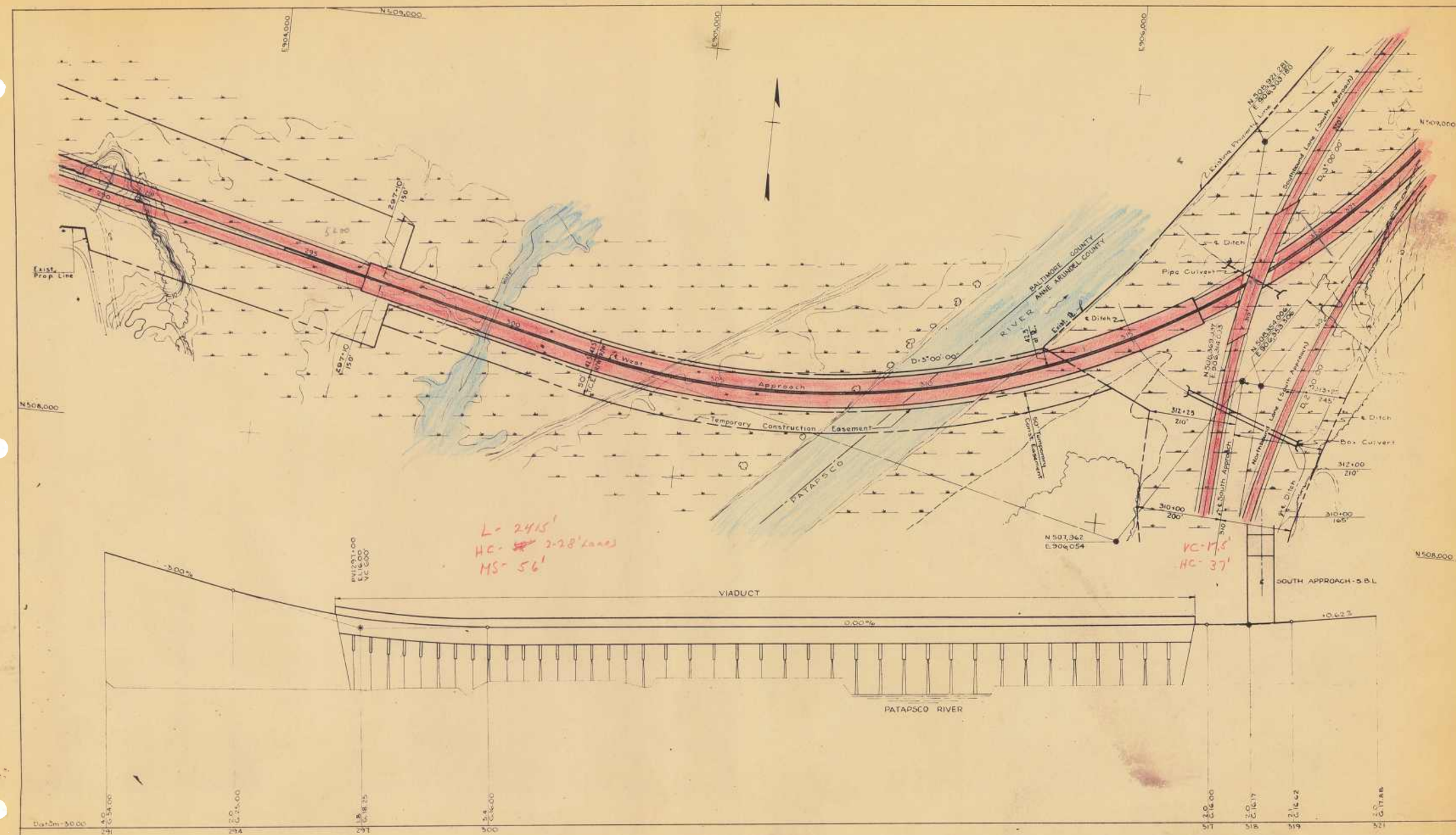
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 261+00 TO STA. 291+00



No.	REVISIONS	BY	DATE
4	South Approach Alignment Revised to Alternate Line B	F.C.G.	4-13-55
3	Alternate Line B N.B.L. Data Changed	A.V.C.	3-24-55
2	Alignment, Grades & R.O.W. Revised Sta's. 260-335	C.F.D.	2-1-55
1	R.O.W. Dimensions Sta's. 297 - 310	A.V.C.	12-28-54

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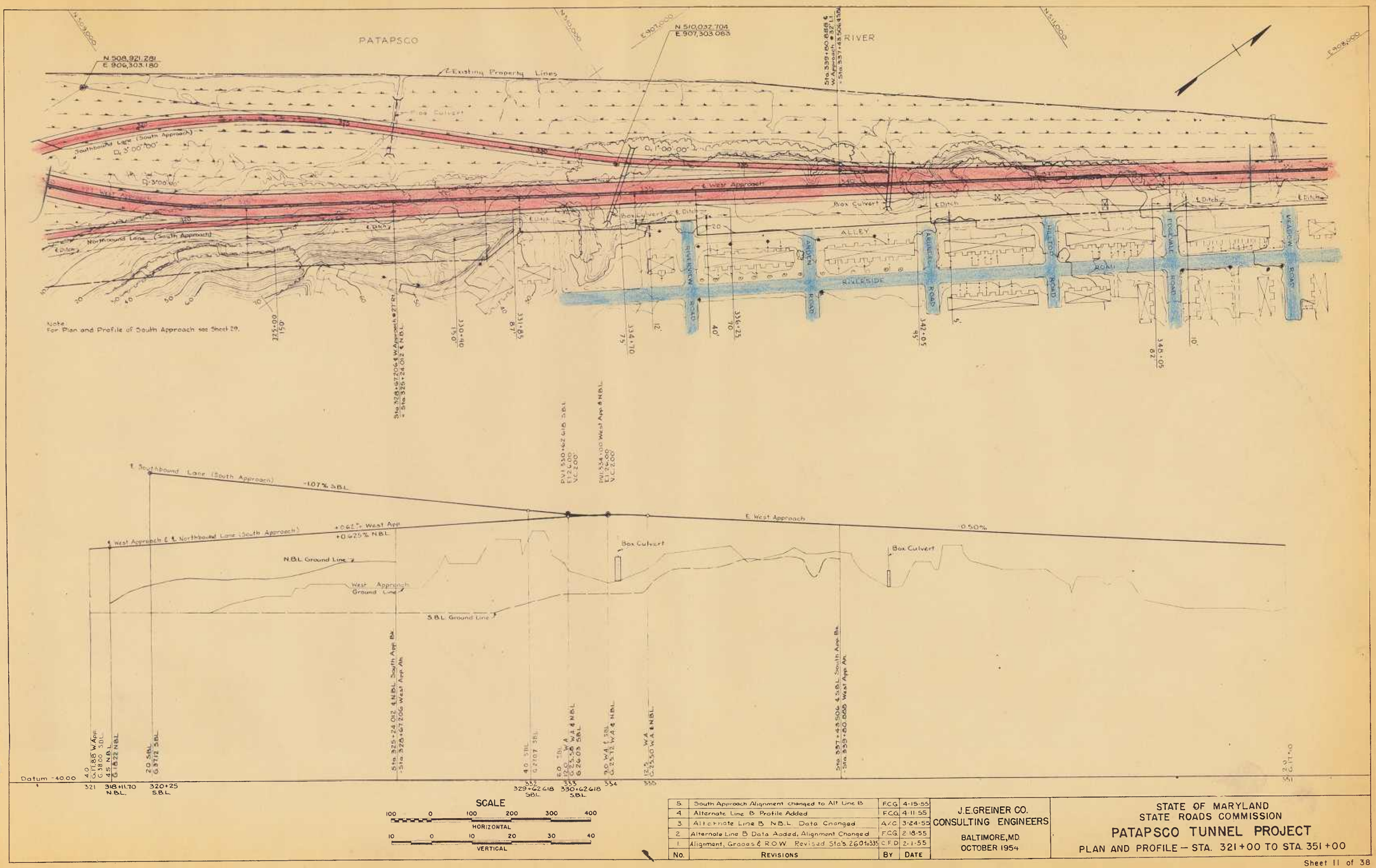
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
PLAN AND PROFILE - STA. 291+00 TO STA. 321+00



No.	Revisions	By	Date
5.	South Approach Alignment changed to Alt Line B	F.C.G.	4-15-55
4	Alternate Line B Profile Added	F.C.G.	4-11-55
3.	Alternate Line B N.B.L. Data Changed	A.V.C.	3-24-55
2.	Alternate Line B Data Added, Alignment Changed	F.C.G.	2-18-55
1.	Alignment, Grades & R.O.W. Revised Sta's. 2601 to 335	C.F.D.	2-1-55

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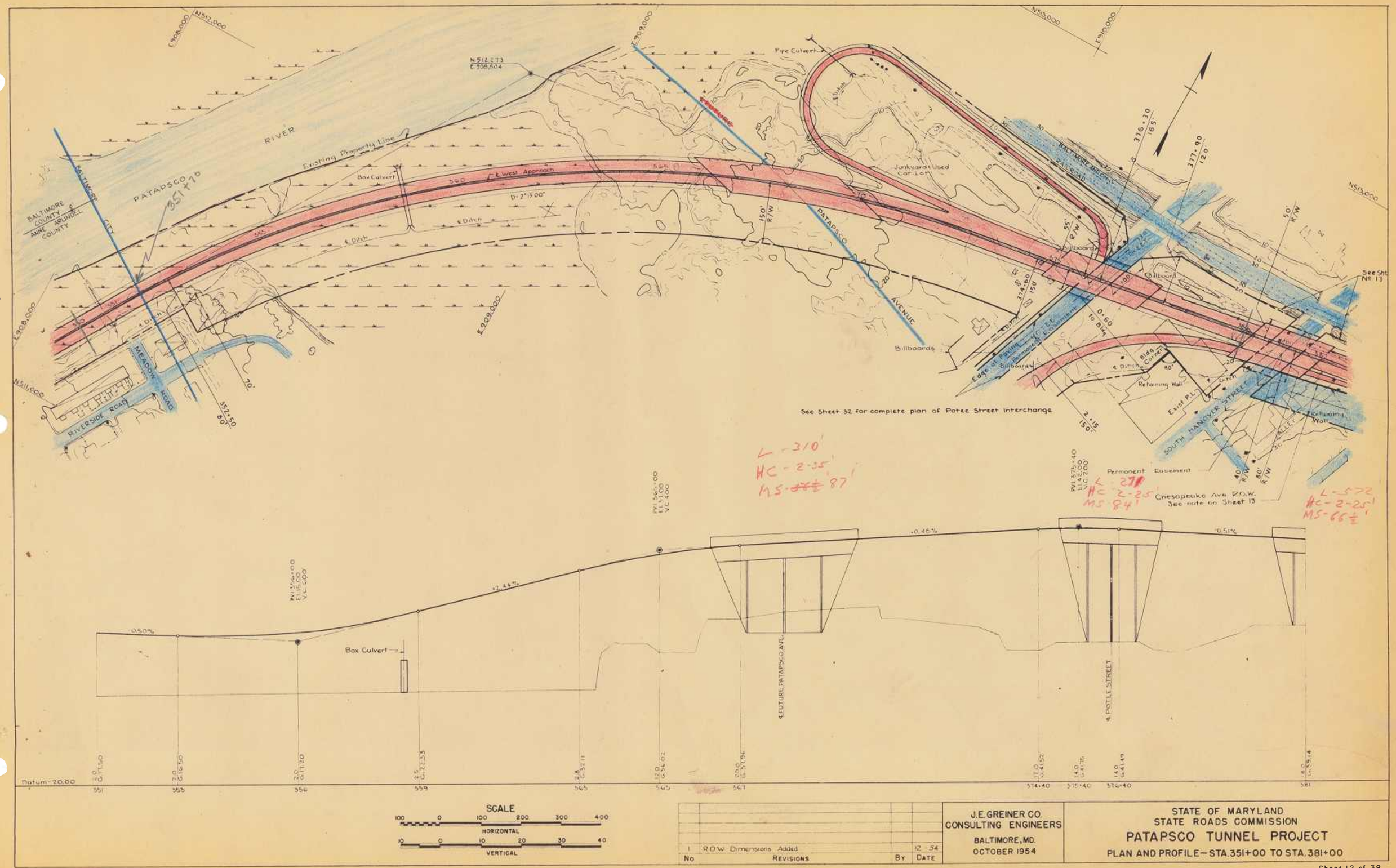
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 321+00 TO STA. 351+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No	Revisions	By	Date
1	R.O.W. Dimensions Added		12-54

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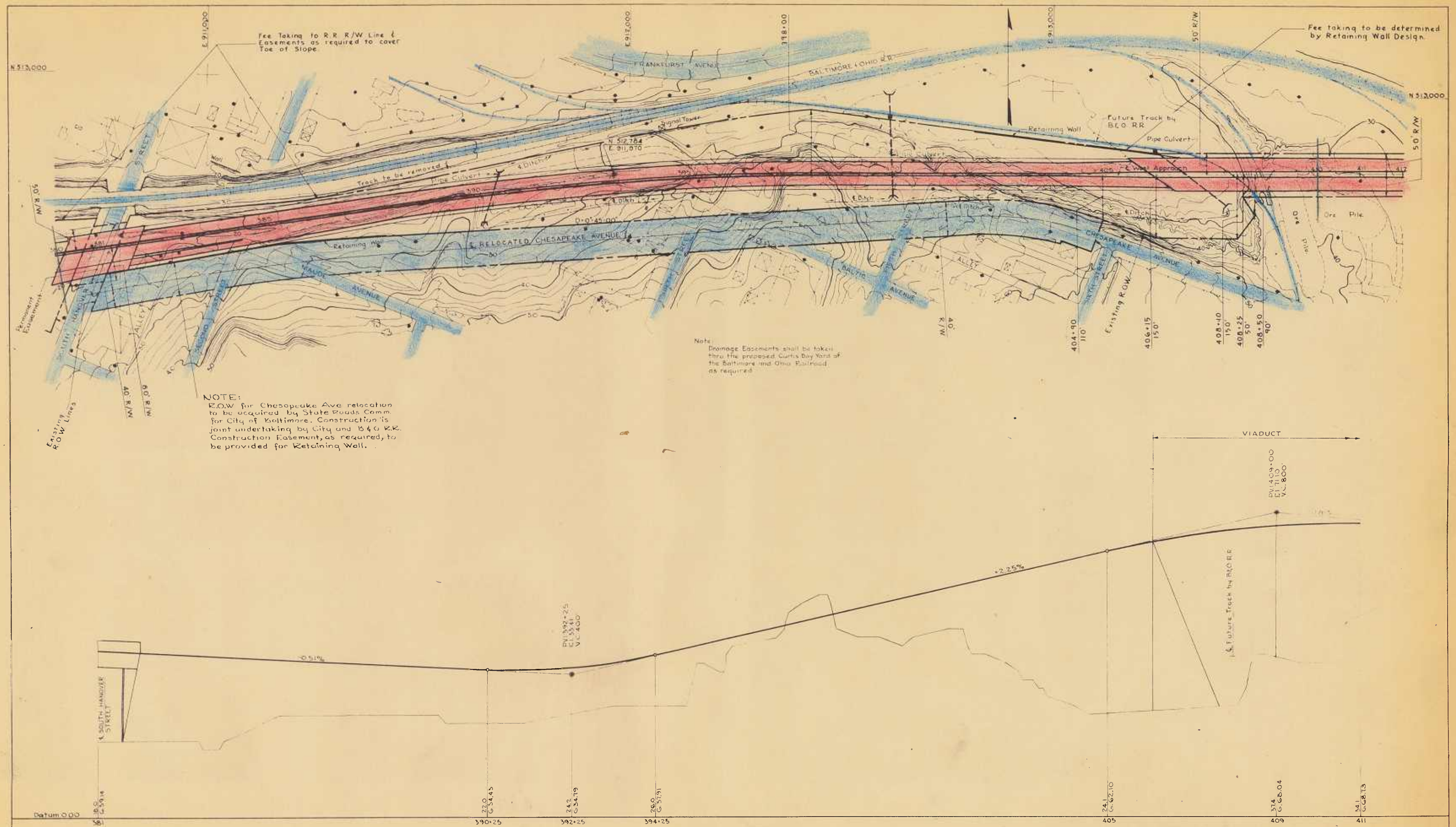
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 351+00 TO STA. 381+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

NO.	REVISIONS	BY	DATE
3.	Structure Revised Sta 409 to Sta 412	F.C.G.	4-21-55
2	R.O.W Revised Sta 409 to Sta 412, Both Sides	C.F.D.	4-12-55
1.	R.O.W. Revised Sta 409 to Sta. 412, North Side	C.F.D.	3-25-55

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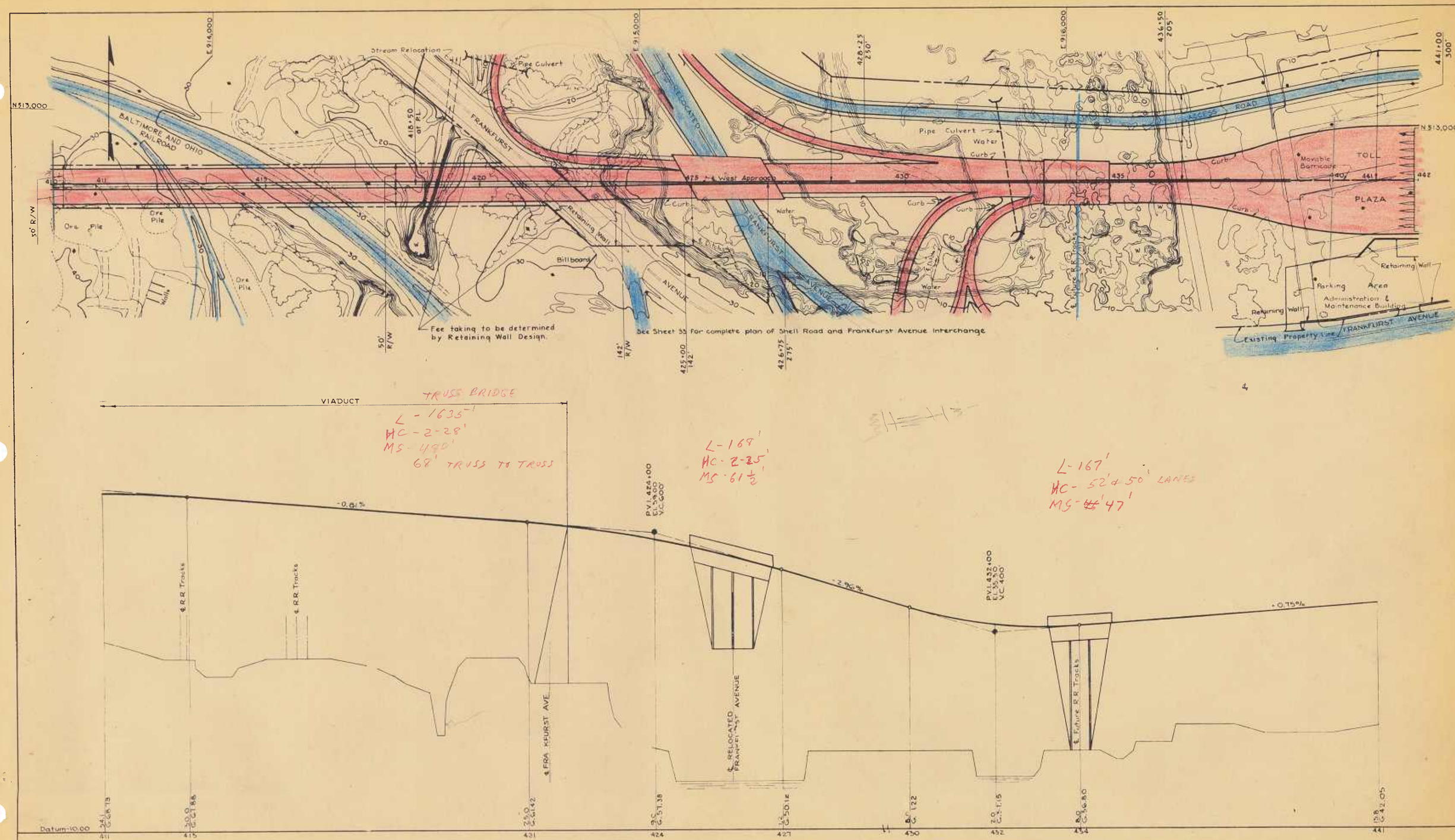
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA 381+00 TO STA. 411+00



NO	REVISIONS	BY	DATE
3.	Structure Revised Sta. 410 to Sta. 422	F.C.G.	4-21-55
2.	R.O.W. Revised Sta. 410 to Sta. 412, Both Sides	C.F.D.	4-12-55
1.	R.O.W. Revised Sta. 410 to Sta. 412, North Side	C.F.D.	3-25-55

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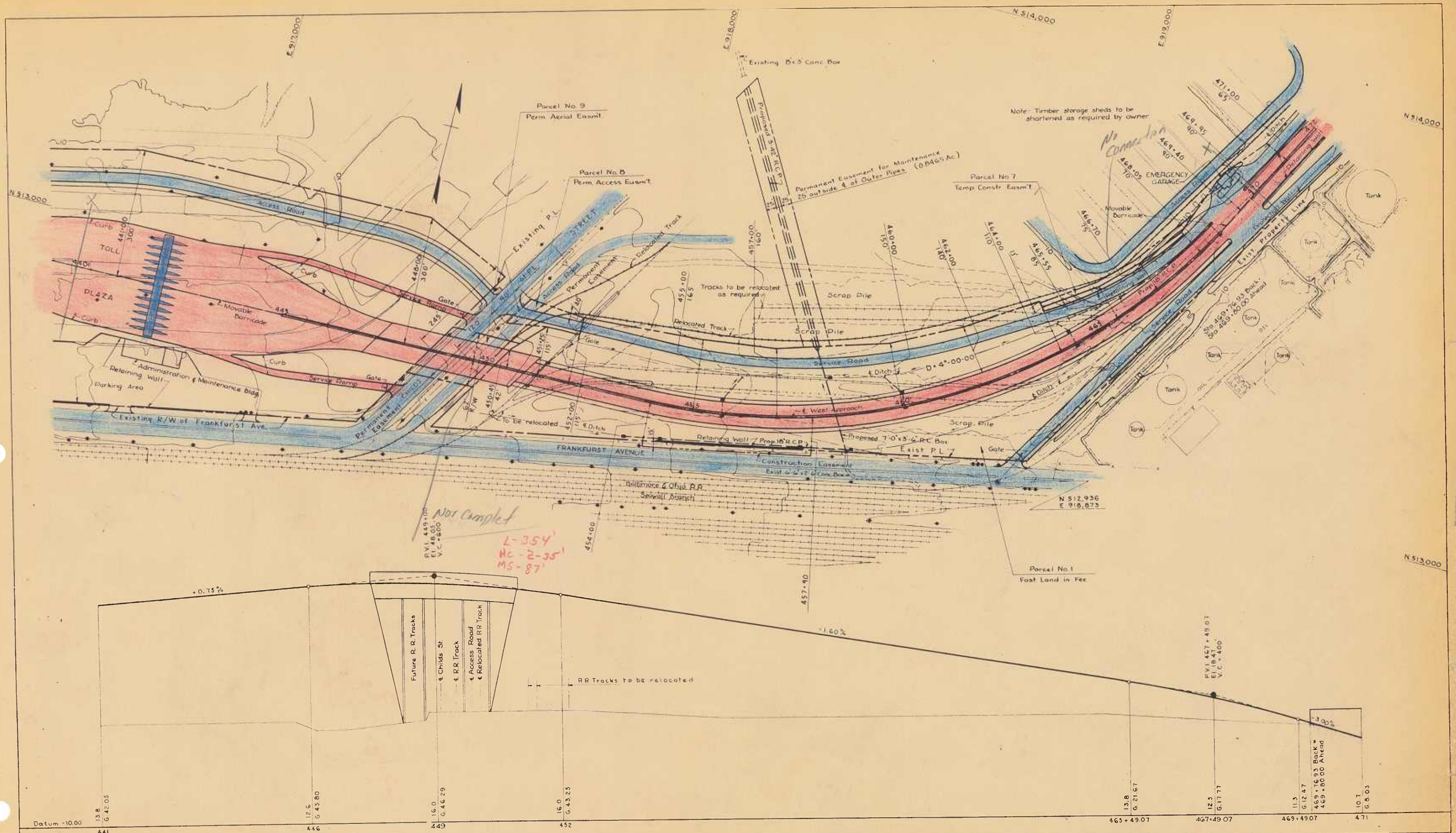
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
PLAN AND PROFILE — STA. 411+00 TO STA. 441+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date
2	R.O.W. & Drainage Revised	F.C.G.	4-21-55
1	R.O.W. Dimensions Added		12-54

J.E. GREINER CO.
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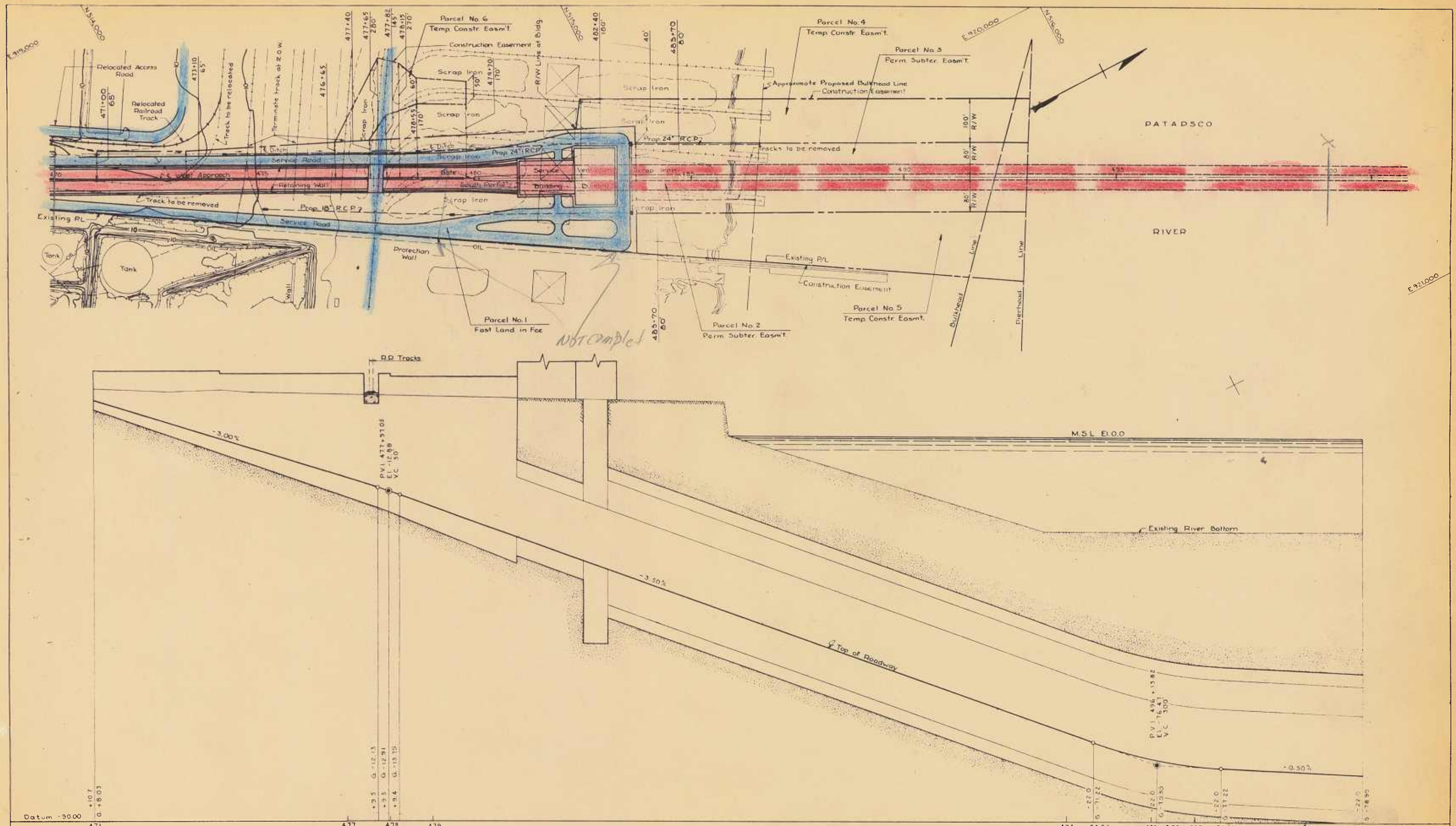
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 441+00 TO STA. 471+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date
2.	R.O.W. & Drainage Revised	FCG	4-21-55
1.	R.O.W. Dimensions Added		12-54

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OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 471+00 TO STA. 501+00

N 517,000

E 921,000

N 518,000

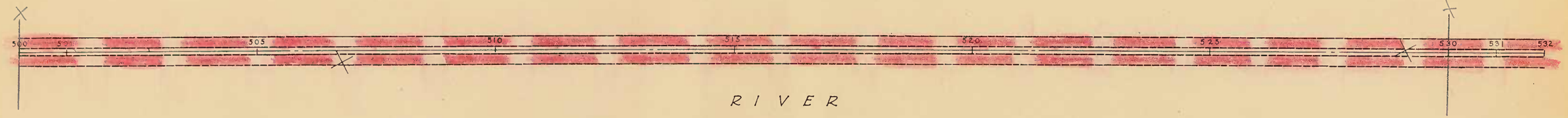
N 519,000

Flood

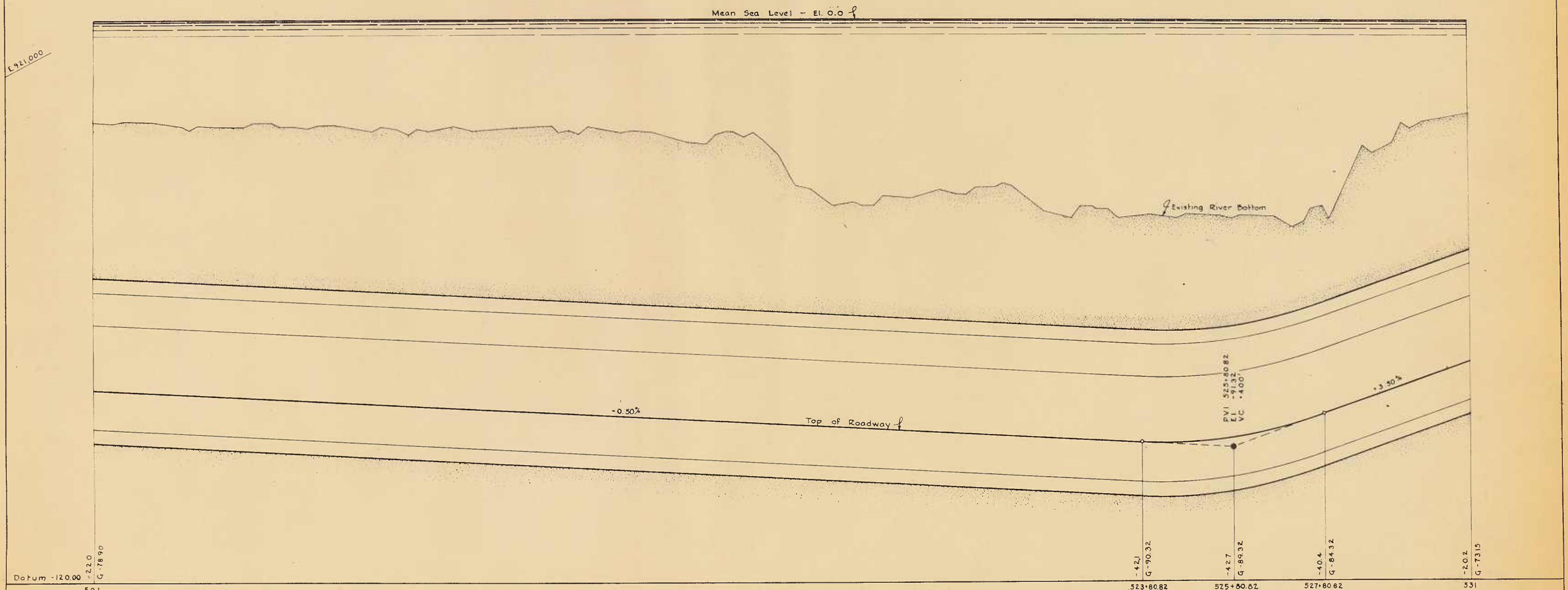
Ebb

E 922,000

PATAPSCO



RIVER



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

J.E. GREINER CO.
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BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 501+00 TO STA. 531+00

SCALE

HORIZONTAL: 100 0 100 200 300 400

VERTICAL: 10 0 10 20 30 40

No.	Revisions	By	Date
1	General Revisions	RHG	25Apr55

J.E. GREINER CO.
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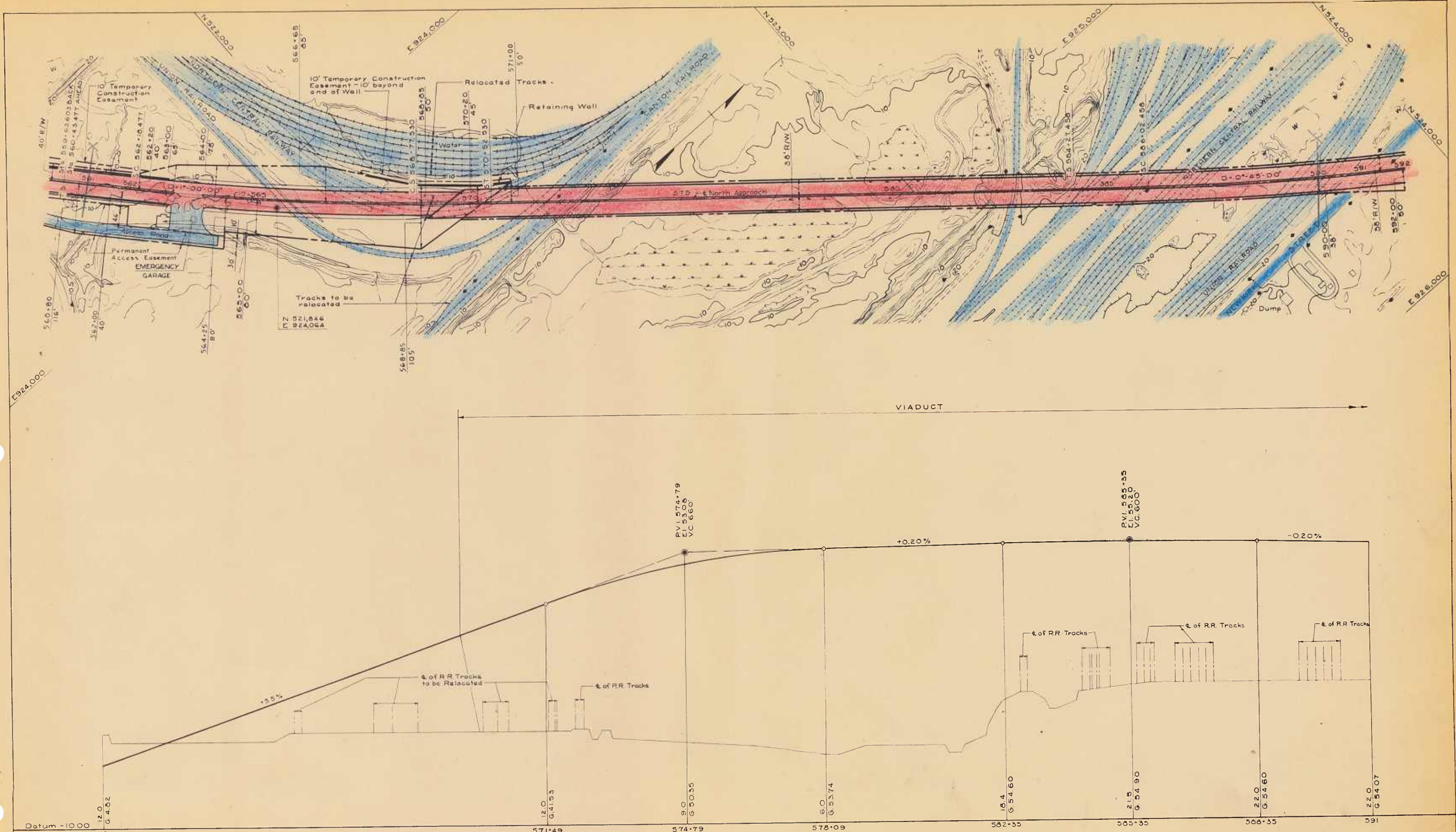
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 531+00 TO STA. 562+90



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No	Revisions	By	Date
5	Emergency Garage Added	RHG	4-22-55
4	R.o.W. Revised Sta's. 561 to 571	C.F.D.	4-13-55
3.	Abutment Location Revised to Sta. 569+45	A.V.C.	4-4-55
2.	Grade Line Revised Sta. 561 to 575	A.V.C.	4-4-55
1.	Horiz. Alignment & Grade Sta. 561 to 591	A.V.C.	3-14-55

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 561+00 TO STA. 591+00

NOTE:
Permanent Easements will be taken across Railroad Property and Existing Streets or Structures.

See Sheet 34 for complete plan of the Holabird Avenue Interchange

Dike Walls to be reconstructed as required to provide existing reservoir volume for Oil Storage Tanks.

Two pipe utility tunnels to be constructed according to location and details to be worked out with Standard Oil Company.

L - 335'
HC - 2-30'
MS - 177'

L - 154'
HC - 2-30'
MS - ~~3½~~ 73'
10' PAVED SHOULD FOR EACH LANE

SCALE
HORIZONTAL 100 0 100 200 300 400
VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date
3.	R.O.W. dims. Rev. Sta. 601 to Sta. 612 East of ℄	A.V.C.	5-10-55
2.	On-Ramp Revised	A.V.C.	4-7-55
1.	Grade, Alignment & R.O.W. Sta. 591 to 612	A.V.C.	3-14-55

J.E. GREINER CO.
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BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
PLAN AND PROFILE — STA. 591+00 TO STA. 621+00

E 926,000

Existing Property Corner

Billboard

Existing Property Corner

Tank

Retaining Wall

Existing P.L.

O'DONNELL

STREET

10' R/W

Existing P.L.

Retaining Wall

N 528,000

Existing P.L.

Permanent Easement

50' R/W

CANTON R.R.

D-0°15'00"
N 527,822
E 926,345

HUDSON

FAIT

FOSTER

FLEET

N 527,000

Existing P.L.

Construction Easement

QUAIL

STREET

Retaining Wall

Wall

E 926,000

BALTIMORE EASTERN TRANSIT CO.

AVENUE

North Approach

Permanent Easement

Existing P.L.

See Sheet 35 for complete plan of O'Donnell Street Interchange.

Existing P.L.

Existing P.L.

Retaining Wall

Construction Easement

ALLEY

RAPPALLO

STREET

AVENUE

Playpole

Existing P.L.

School

Drainage Easement

Tank

Retaining Wall

Existing Property Corner

R/W of Proposed O'Donnell Street

Two pipe utility tunnels to be constructed according to location and details to be worked out with Telephone Co.

Duct Walls to be reinforced concrete encased in concrete

L-182'
HC-2-25'-10' SHOULDERS
MS-91'

L-188'
HC-2-25 WITH 10' SHOULDERS
MS-66'

VC-14½'
HC-74'

VC-21'
HC-74

VC-14½'
HC-74

PVI 629+66
El 46.00
V.C. 600'

PVI 631+00
El 74.00
V.C. 800'

+2.00%

-0.56%

E. Fait Ave.

E. Foster Ave.

E. Fleet St.

E. Hudson St. (Note closed)

E. O'DONNELL ST

E. CANTON RAILROAD

E. Proposed Track

E. Existing Track

Note
Proposed profile contemplates lowering of O'Donnell St by City of Baltimore in conjunction with reconstruction and extension of that street

Datum +30.00		
621+00	51.3 G 68.80	
626+60	70.0 G 80.00	
629+60	68.2 G 84.08	
632+60	71.7 G 84.32	
647+00	104.2 G 76.24	
651	99.2 G 76.74	

SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date
1	R O W Dimensions Added		12-54

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 621+00 TO STA. 651+00

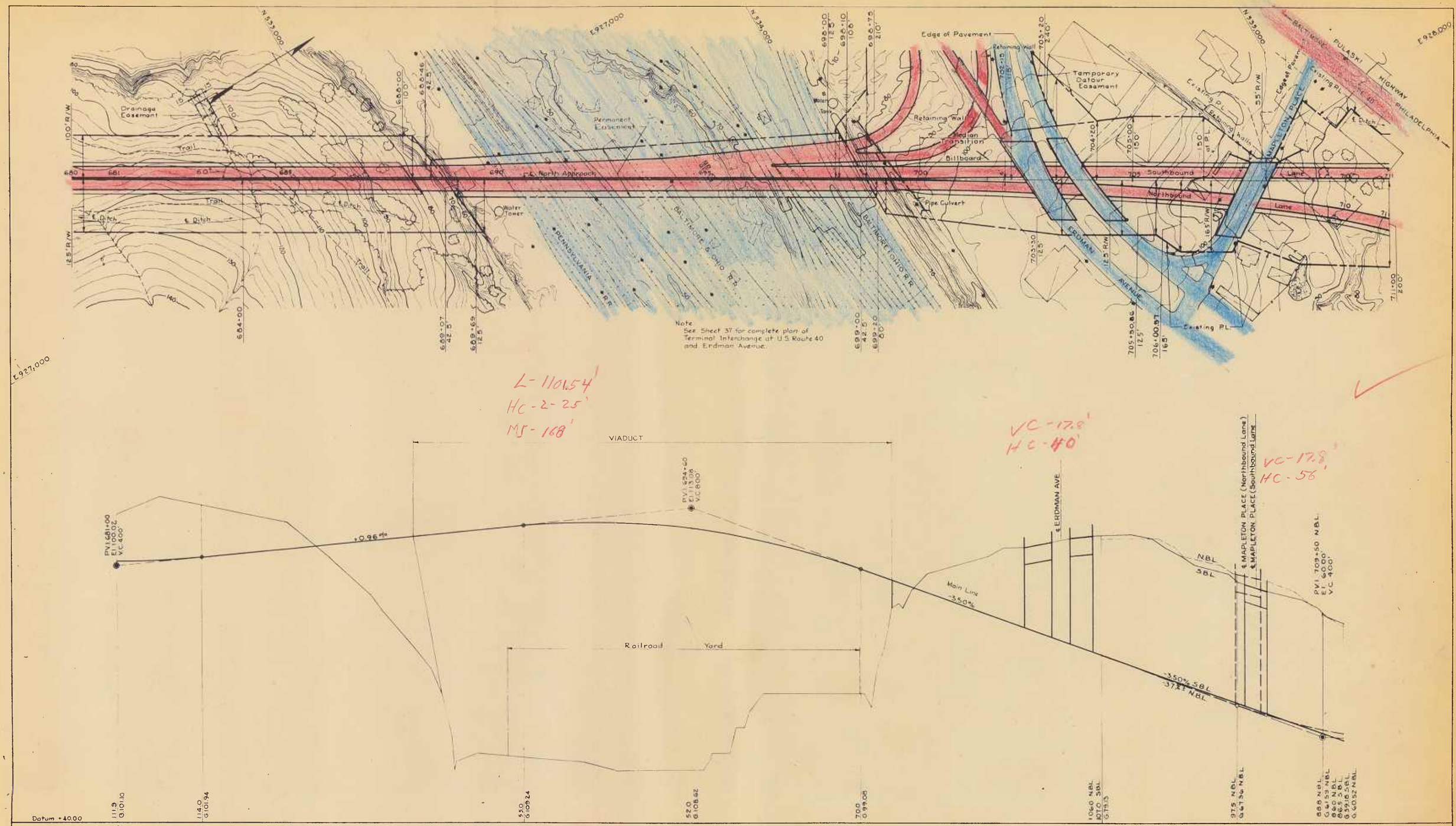
No	Revisions	By	Date
1.	ROW Dimension Sta. 676+00	AVC	12-29-54

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 651+00 TO STA. 681+00



SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

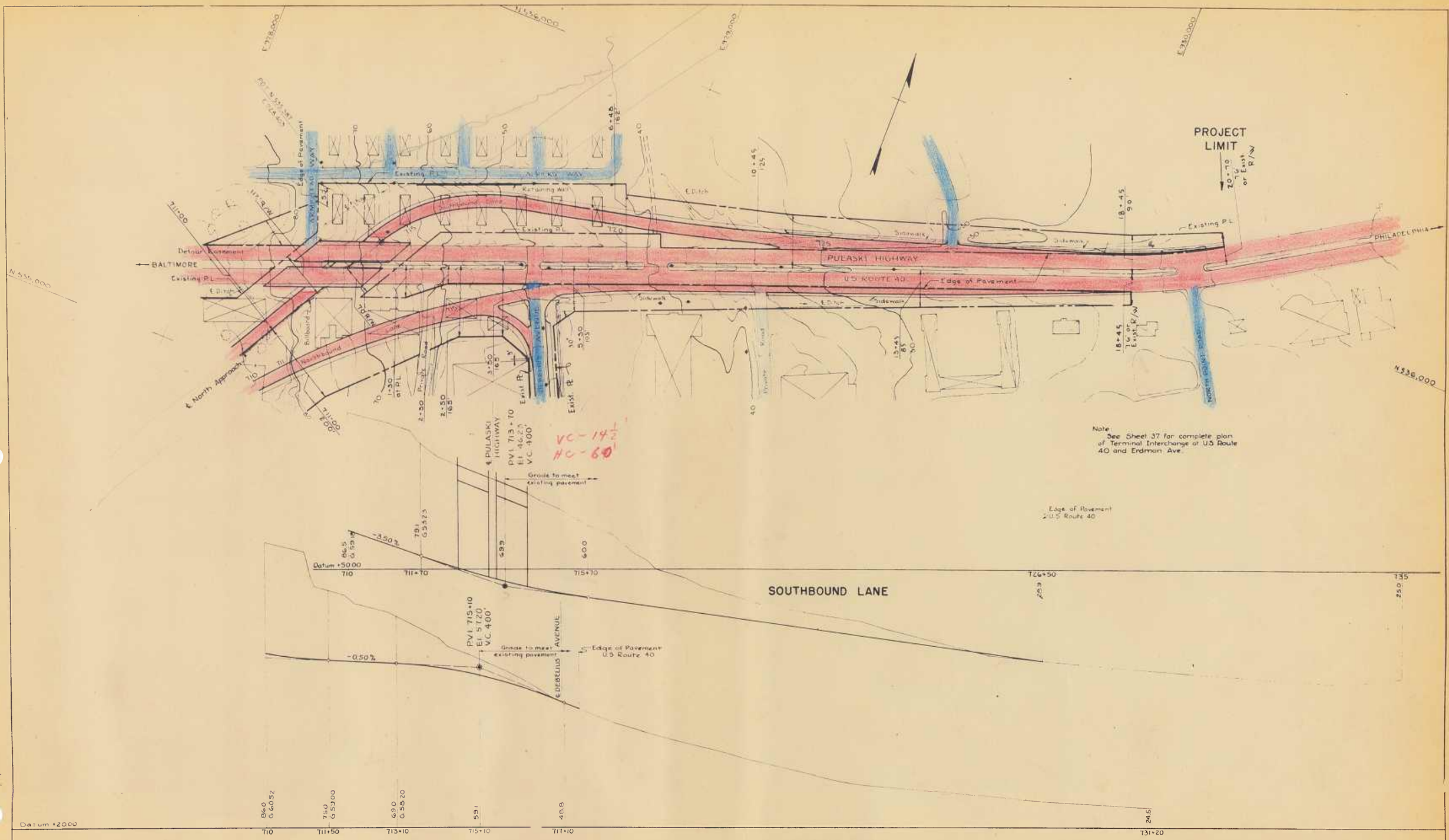
No.	Revisions	By	Date
2.	R.O.W. Dimensions Stas. 705 to 707 Rt. of ℄	G.V.	12-29-54
1.	R.O.W. Limits Sta's 705 to 707 Rt. of ℄	C.F.D.	12-23-54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE – STA. 681+00 TO STA. 710+00



Note
See Sheet 37 for complete plan of Terminal Interchange at U.S. Route 40 and Erdman Ave.

SCALE
HORIZONTAL 100 0 100 200 300 400
VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date
2	R.O.W. Revised Stas 5+30 to 20+70	C.H.D.	4-19-55
1	R.O.W. Limits Revised Sta 5+30 to 20+70	G.V.	3-21-55

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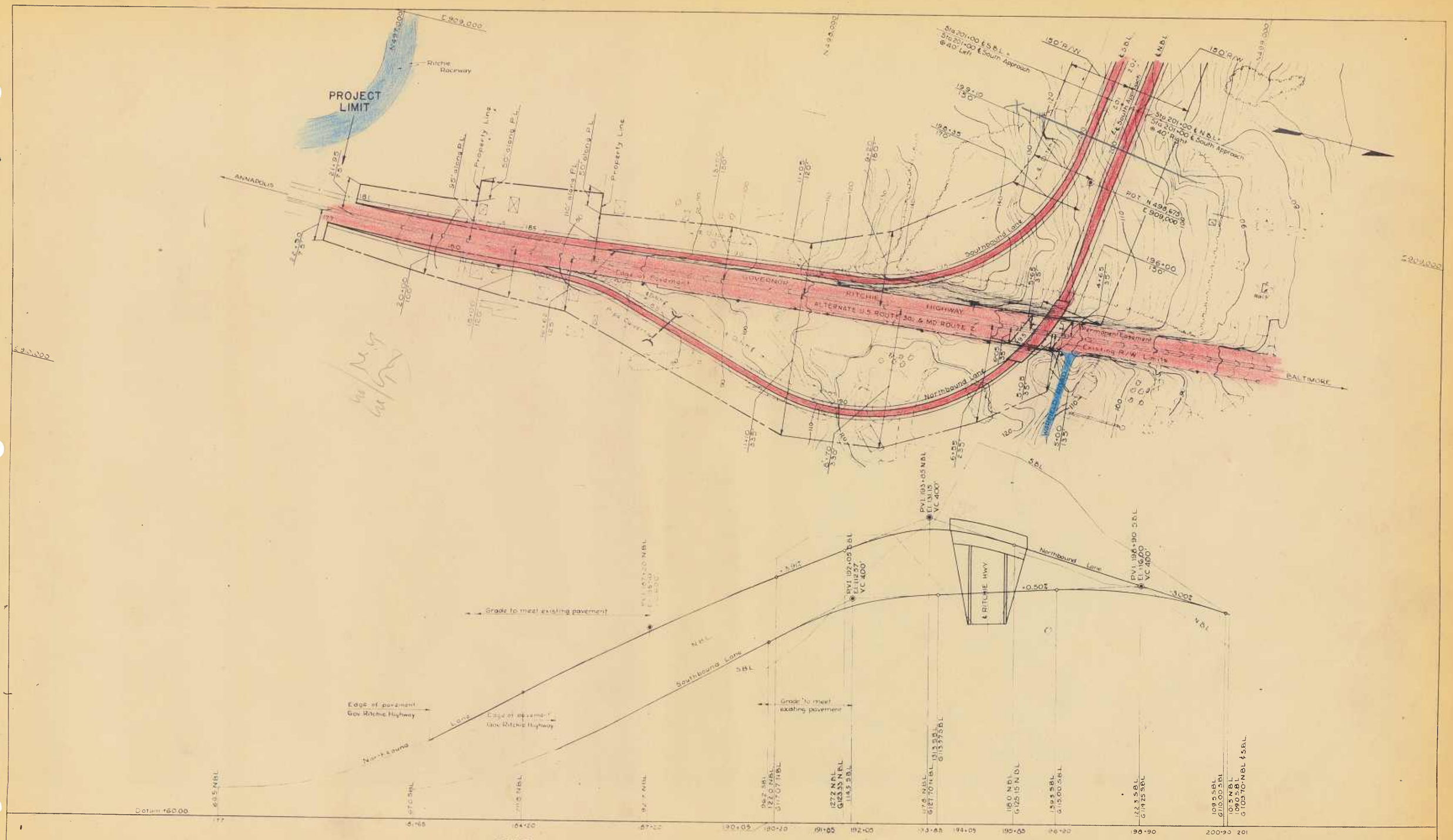
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

PLAN AND PROFILE — STA. 710+00 TO STA. 735+00



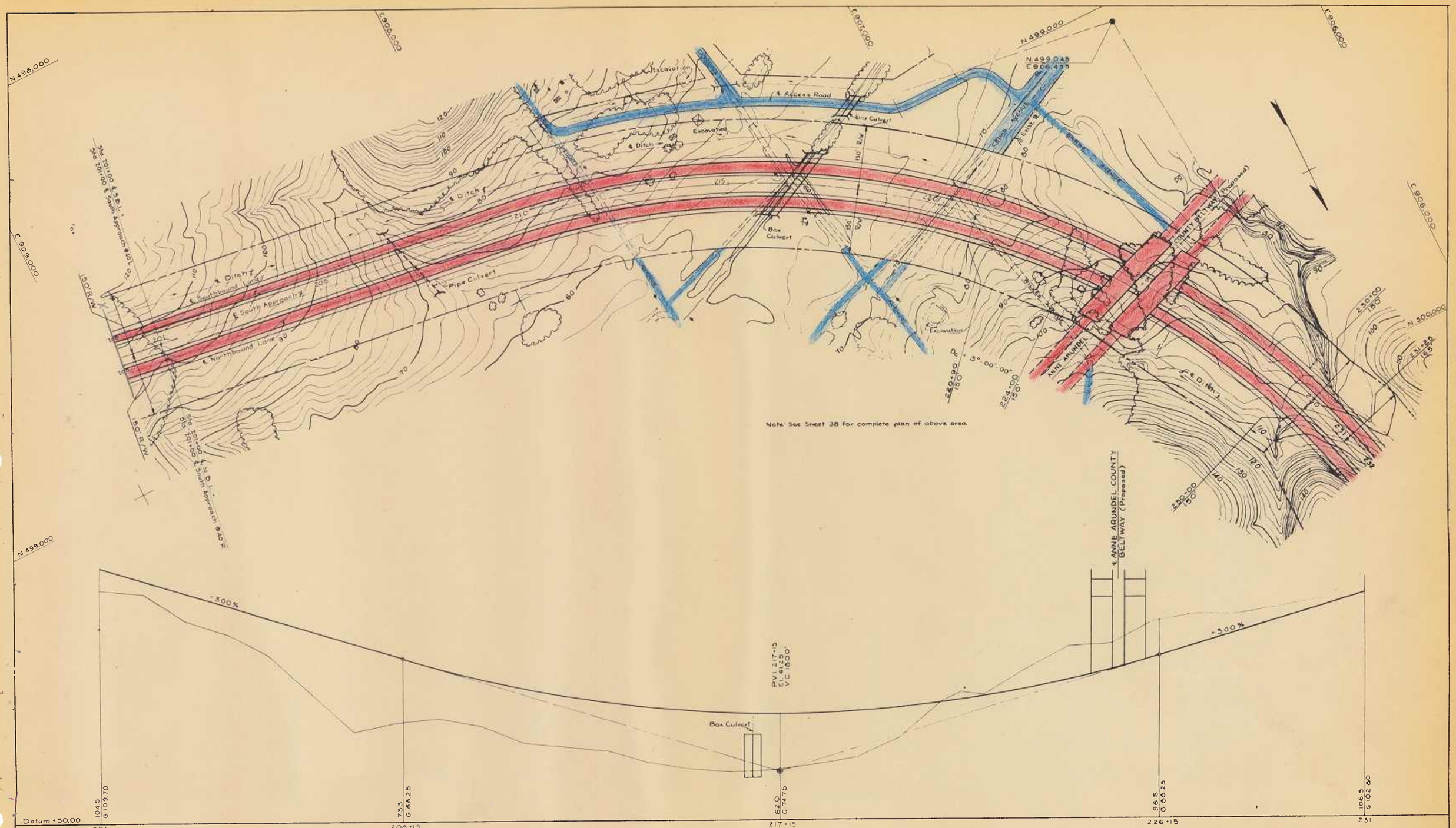
No	Revisions	By	Date
1	R.O.W. Dimensions Added		12 54

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)

PLAN AND PROFILE — STA. 177+00 TO STA. 201+00



No.	Revisions	By	Date
4	R.O.W. Revised Stas 215 to 220+90	C.F.D.	4-29-55
3	Cedar Ave. ℄ Access Road - Location & R.O.W. Changed	F.C.G.	3-30-55
2	Perm. Easement Added Stas. 210+90 - 221+50	G.V.	2-11-55
1	R.O.W. Dimension Sta's. 224, 231-25	A.V.C.	12-29-54

J. E. GREINER CO.
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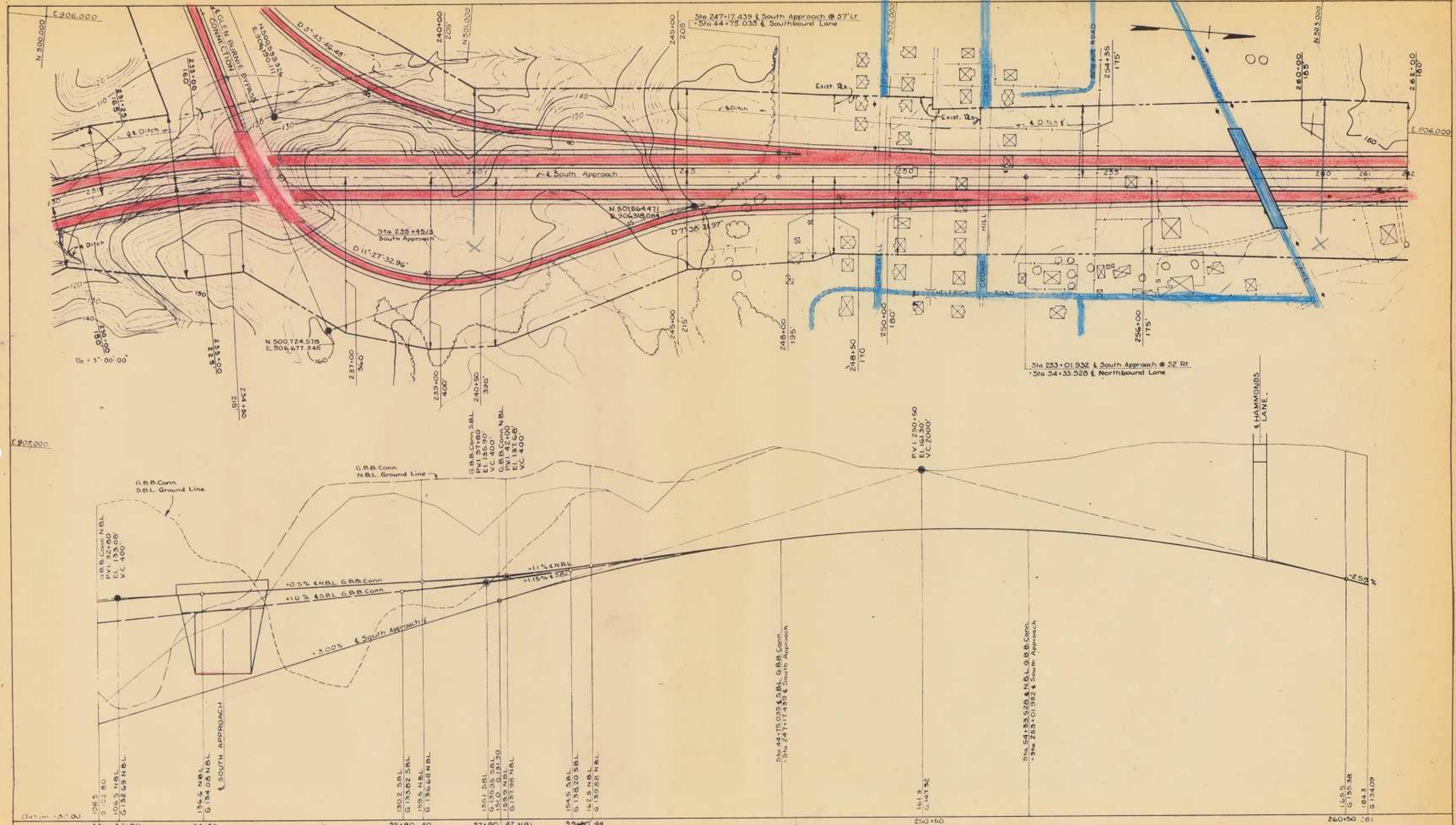
BALTIMORE, MD.
OCTOBER 1954

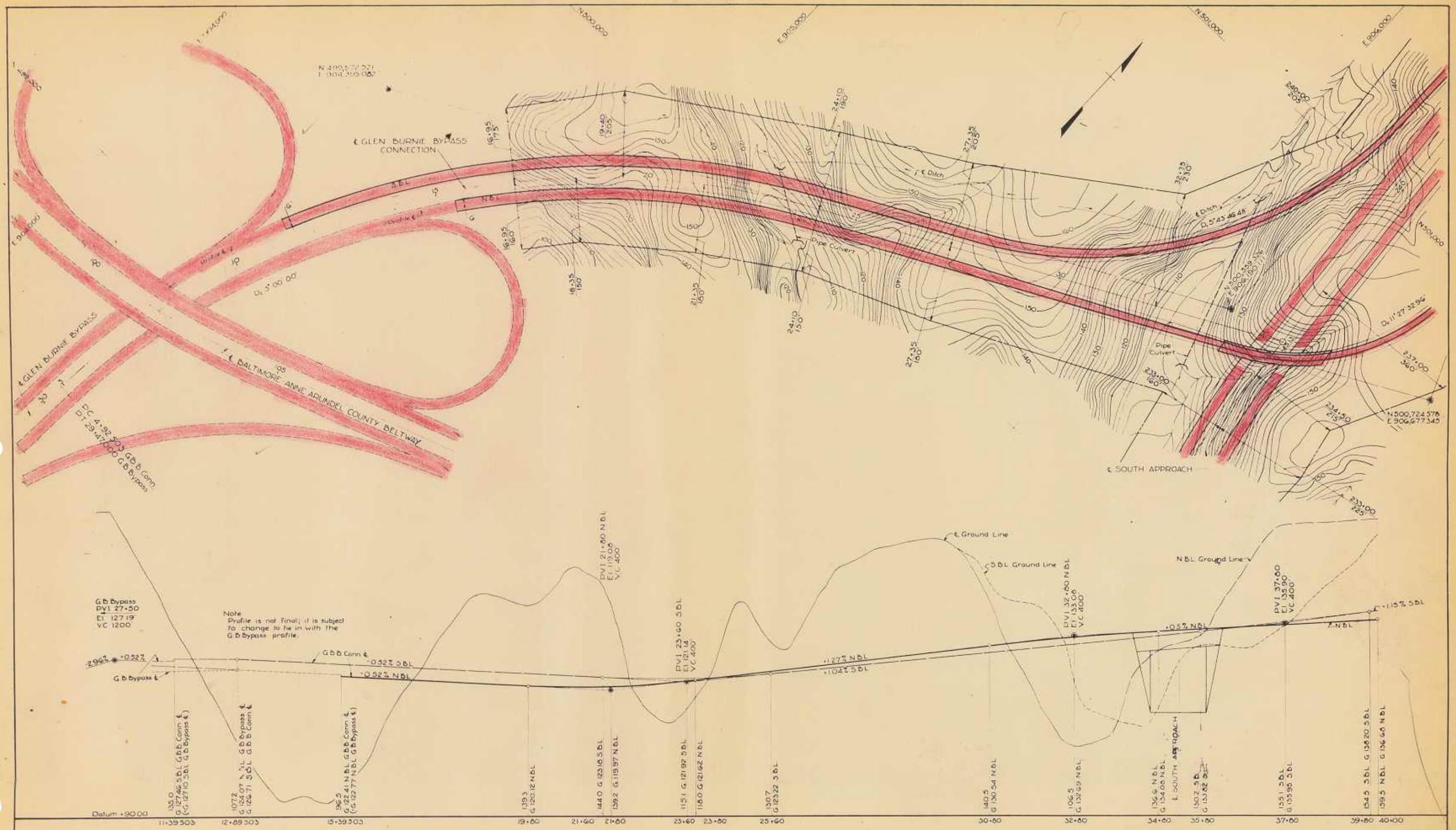
STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)
PLAN AND PROFILE — STA. 201+00 TO STA. 231+00



No.	Revisions	By	Date
6	Ramp Shoulders Added & R.O.W. Dimensions Revised	F.C.G.	4-22-55
5	South Approach Profile Changed to Alt. Line B Profile	F.C.G.	4-13-55
4	Glen Burnie Bypass Connection Profile Corrected	F.C.G.	4-1-55
3	Glen Burnie Bypass Connection Geometry & R.O.W.	F.C.G.	3-30-55
2	Profile for Alternate Line B, Glen Burnie Bypass Conn.	F.C.G.	2-18-55
1	R.O.W. Dimension Sta. 234+00	A.V.C.	12-29-54

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

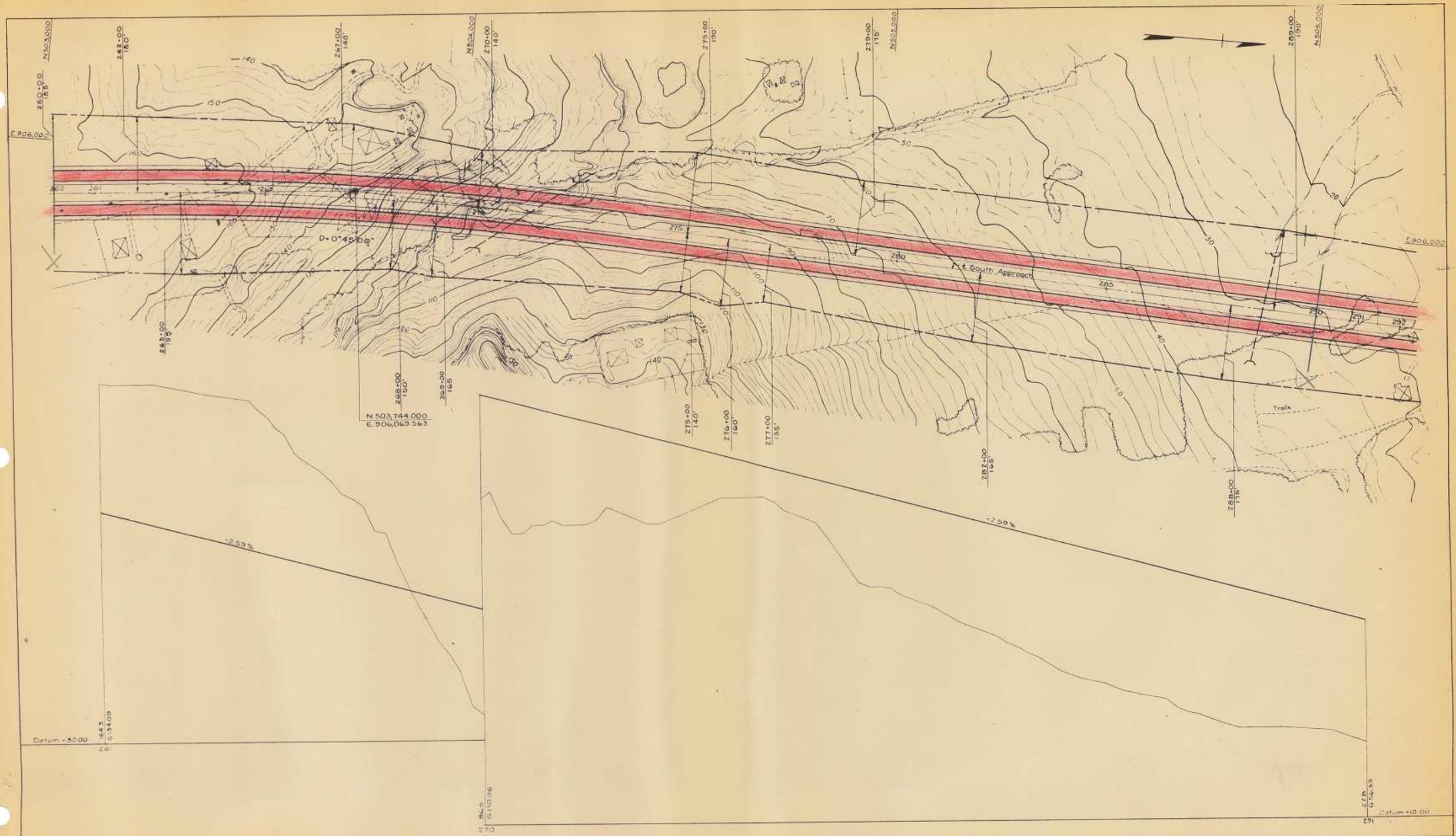
STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)
PLAN AND PROFILE – STA. 231+00 TO STA. 261+00



NO	REVISIONS	BY	DATE
2	Ramp Shoulders Added	FCG	4-22-55
1	Profile Corrected - G.B. Bypass Interchange Added	FCG	4-6-55

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)
PLAN AND PROFILE - STA. 4+92.503 TO STA. 40+00



SCALE

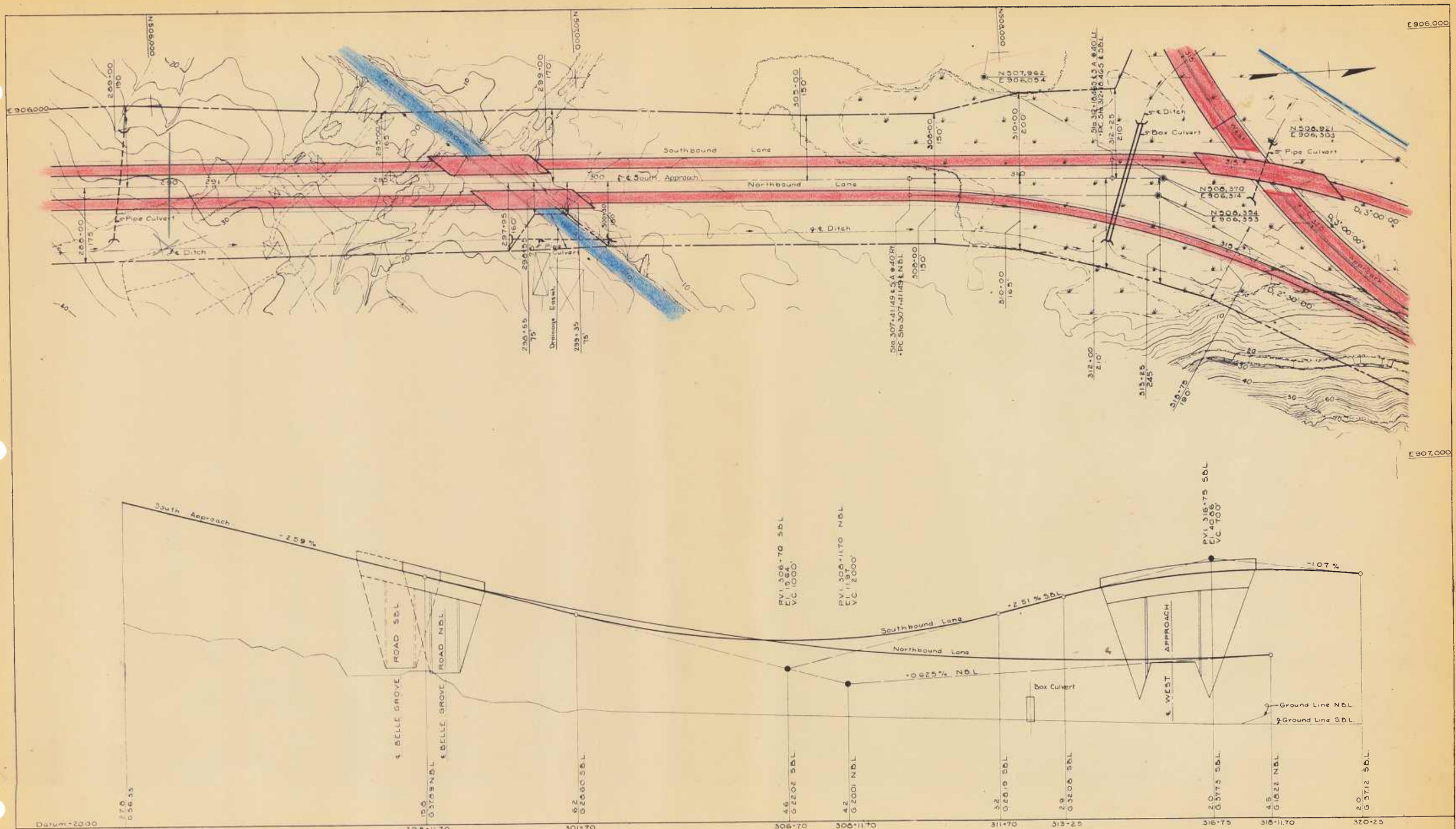
HORIZONTAL: 100 0 100 200 300 400

VERTICAL: 10 0 10 20 30 40

No	Revisions	By	Date
3.	South Approach Alignment & Profile changed to Alt B	F.C.G.	4-14-55
2.	Alternate Line B Data Added	F.C.G.	2-18-55
1.	Alignment, Grades & R.O.W. Revised Sta's 260 to 335	C.F.D.	2-1-55

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)
PLAN AND PROFILE — STA. 261+00 TO STA. 291+00



SCALE

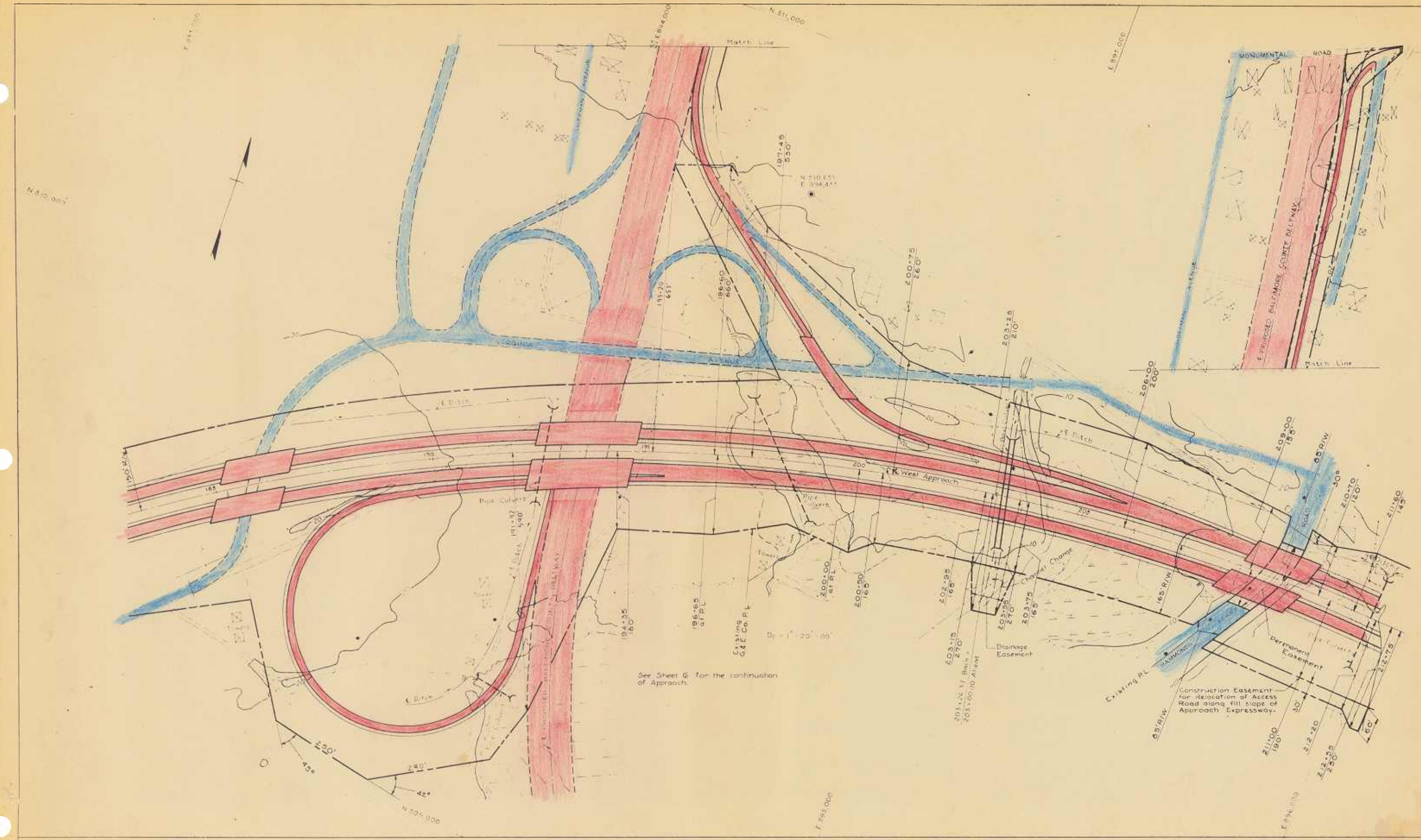
HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

NO	REVISIONS	BY	DATE
5.	South Approach Alignment Revised to Alternate Line B	AVC	4-22-55
4.	Alternate Line B Profile Revised	FCG	4-11-55
3.	Alternate Line B N.B.L Data Changed	AVC	3-24-55
2.	Alternate Line B Data Added: Alignment Changed	FCG	2-18-55
1.	Alignment, Grades & R.O.W. Revised Sta 260 to 355	C.F.D.	2-1-55

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
(SOUTH APPROACH)
PLAN AND PROFILE — STA. 291+00 TO STA. 321+00



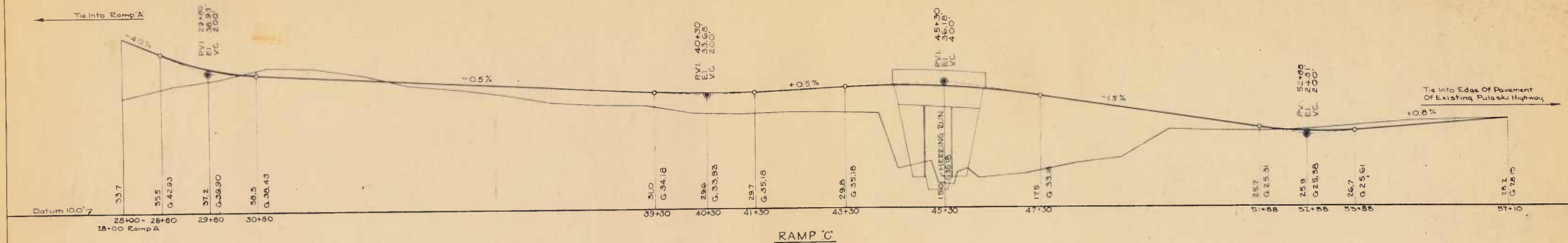
SCALE

100 0 100 200 300 400

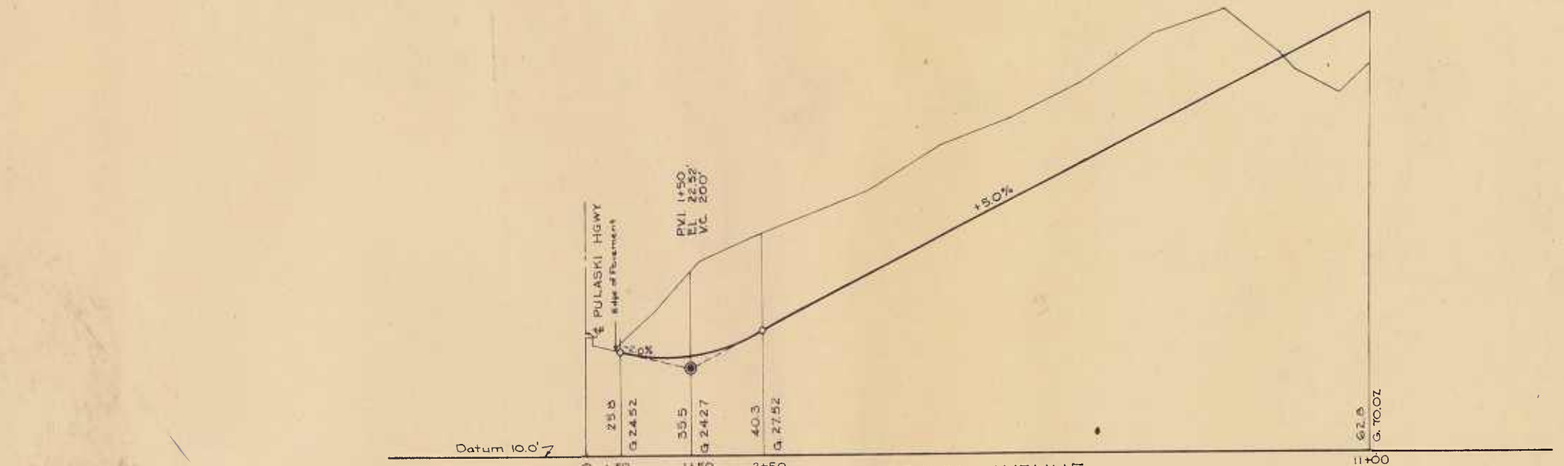
No.	Revisions	By	Date
3.	R.o.W. Limits Rev. @ Sta. 185 South of ℄	C.F.D.	4-19-55
2.	R.O.W. Dimensions at Beltway Interchange	C.F.D.	1-20-55
1.	R.O.W. Dimensions Sta. 204-208 R+of ℄	A.V.C.	12-28-54

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

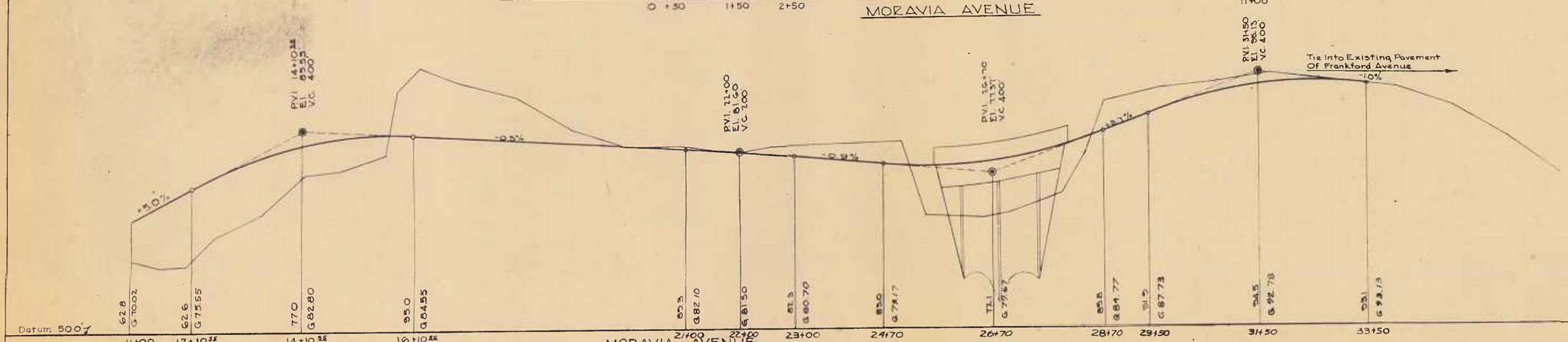
STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
BALTIMORE COUNTY BELTWAY INTERCHANGE



RAMP 'C'



MORAVIA AVENUE



MORAVIA AVENUE

SCALE

HORIZONTAL 100 0 100 200 300 400

VERTICAL 10 0 10 20 30 40

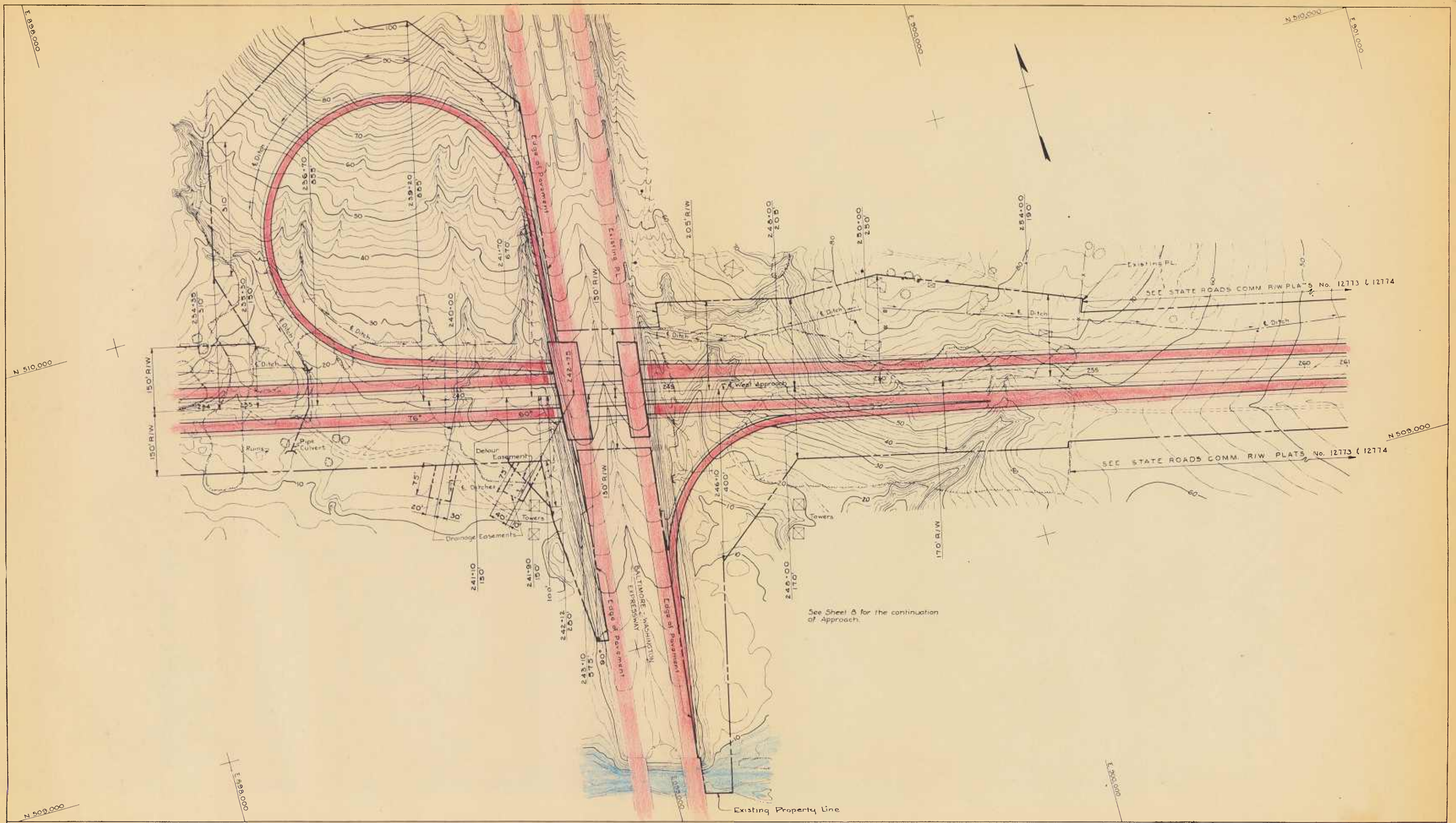
No.	REVISIONS	BY	DATE

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
PROFILE BOWLEY'S LANE INTERCHANGE

SHEET 7 OF 7



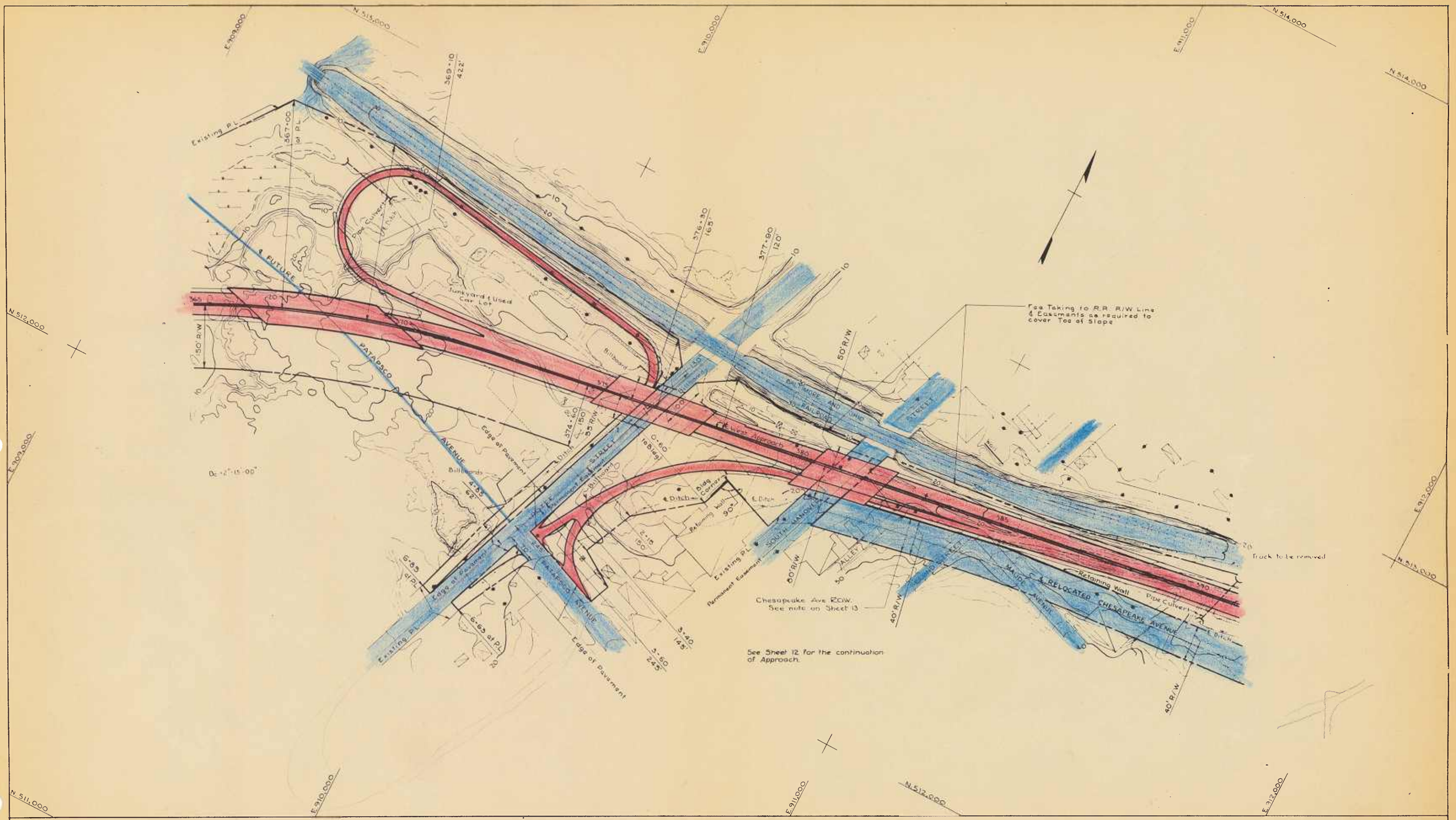
SCALE

100 0 100 200 300 400

No.	Revisions	By	Date
2	SRC Std RoW Plat Nos Rev	C.F.D.	4 22 55
1	R.O.W. Dimension Sta 239+20	AVC	12 29 54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
BALTIMORE-WASHINGTON EXPRESSWAY INTERCHANGE



SCALE

100 0 100 200 300 400

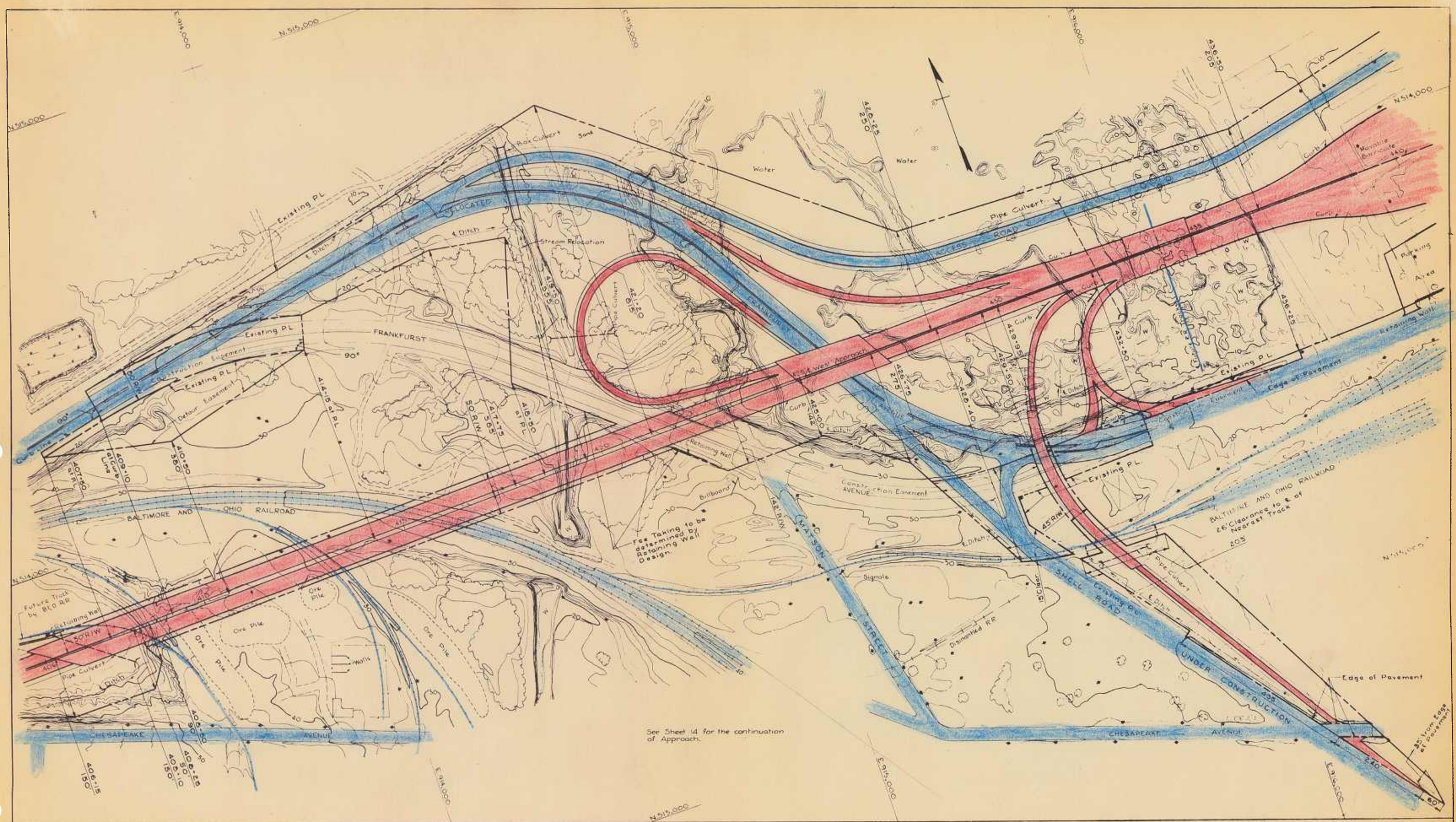
No	Revisions	By	Date
1	R.O.W. Dimension Added		12 54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

POTEE STREET INTERCHANGE



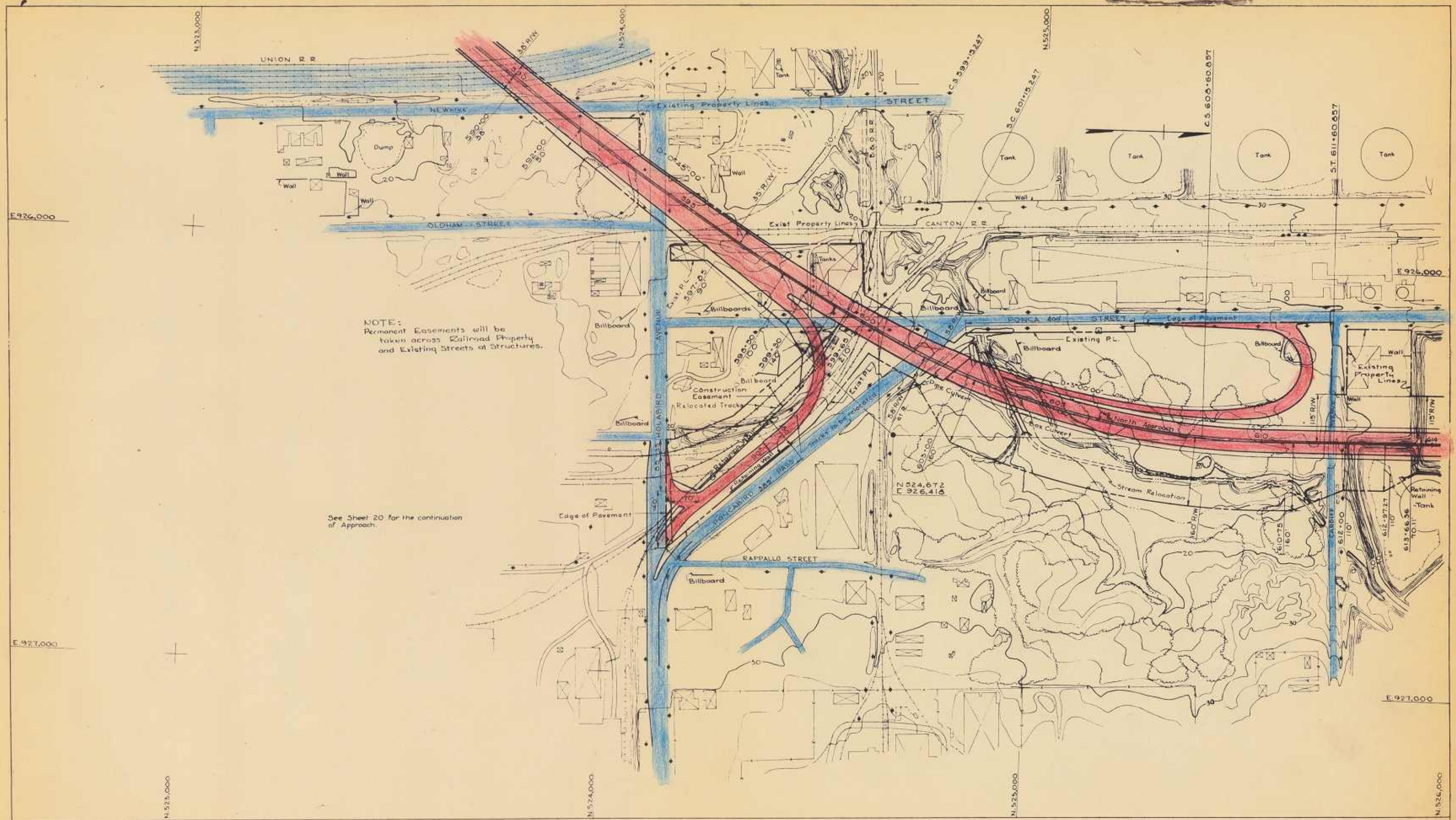
SCALE

100 0 100 200 300 400

No.	Revisions	By	Date
2	R.O.W. Limits Rev. Stas. 407+60 & 412+70	C.F.D.	4 19 55
1	R.O.W. Dimensions Added		12 54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

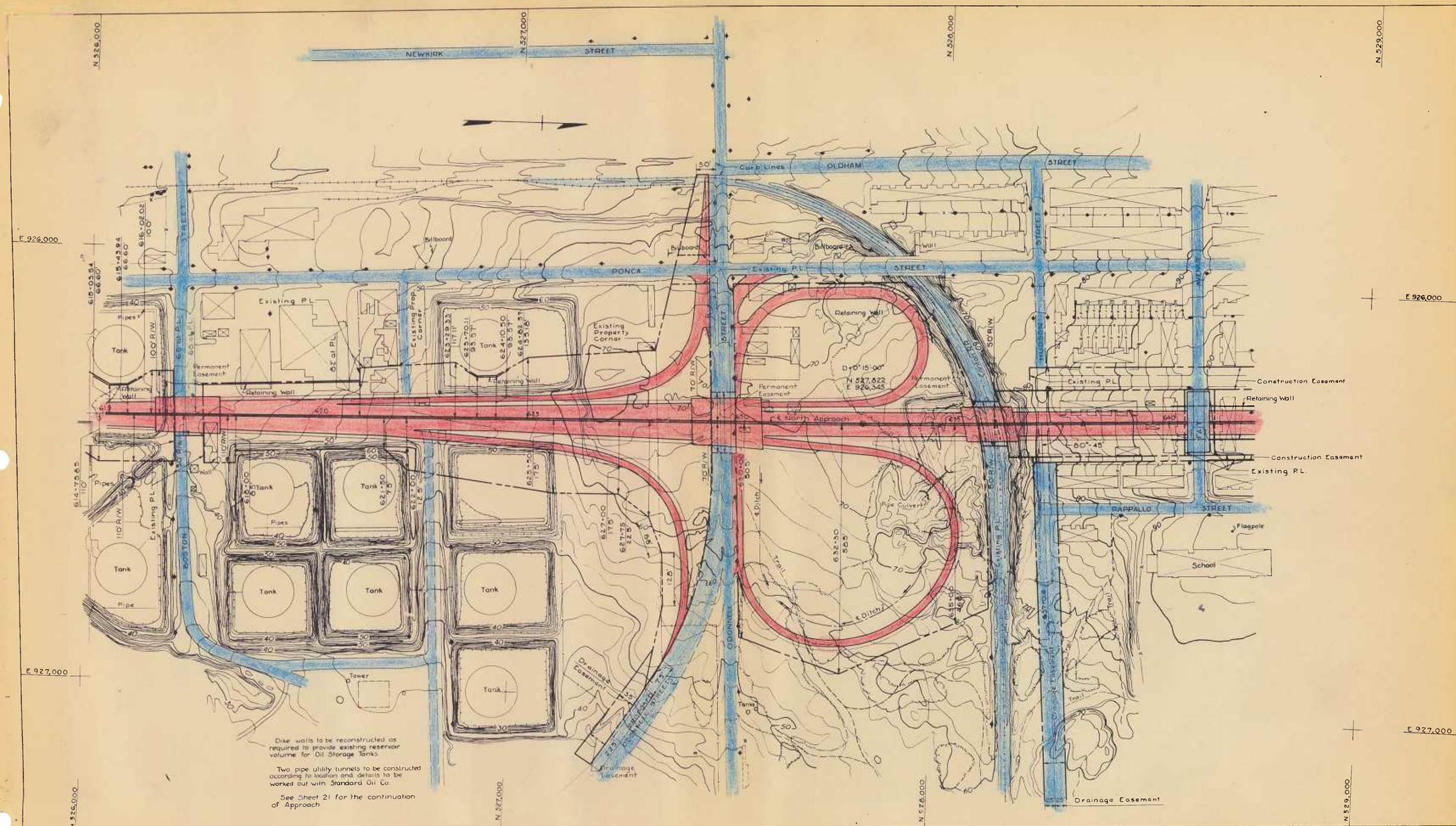
STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
SHELL ROAD & FRANKFURST AVENUE INTERCHANGE



No	Revisions	By	Date
4.	R.O.W. dims. Rev. Sta. 601 to Sta. 612. East of ℄	AVC	5-10-55
3.	R.O.W. dims. Rev. at Sta. 590 & one added at Sta. 605	GV	4-22-55
2.	On-Ramp Revised	AVC	4-6-55
1.	Horiz. Alignment & R.O.W. Sta. 590 to 612	AVC	3-14-55

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
HOLABIRD AVENUE INTERCHANGE



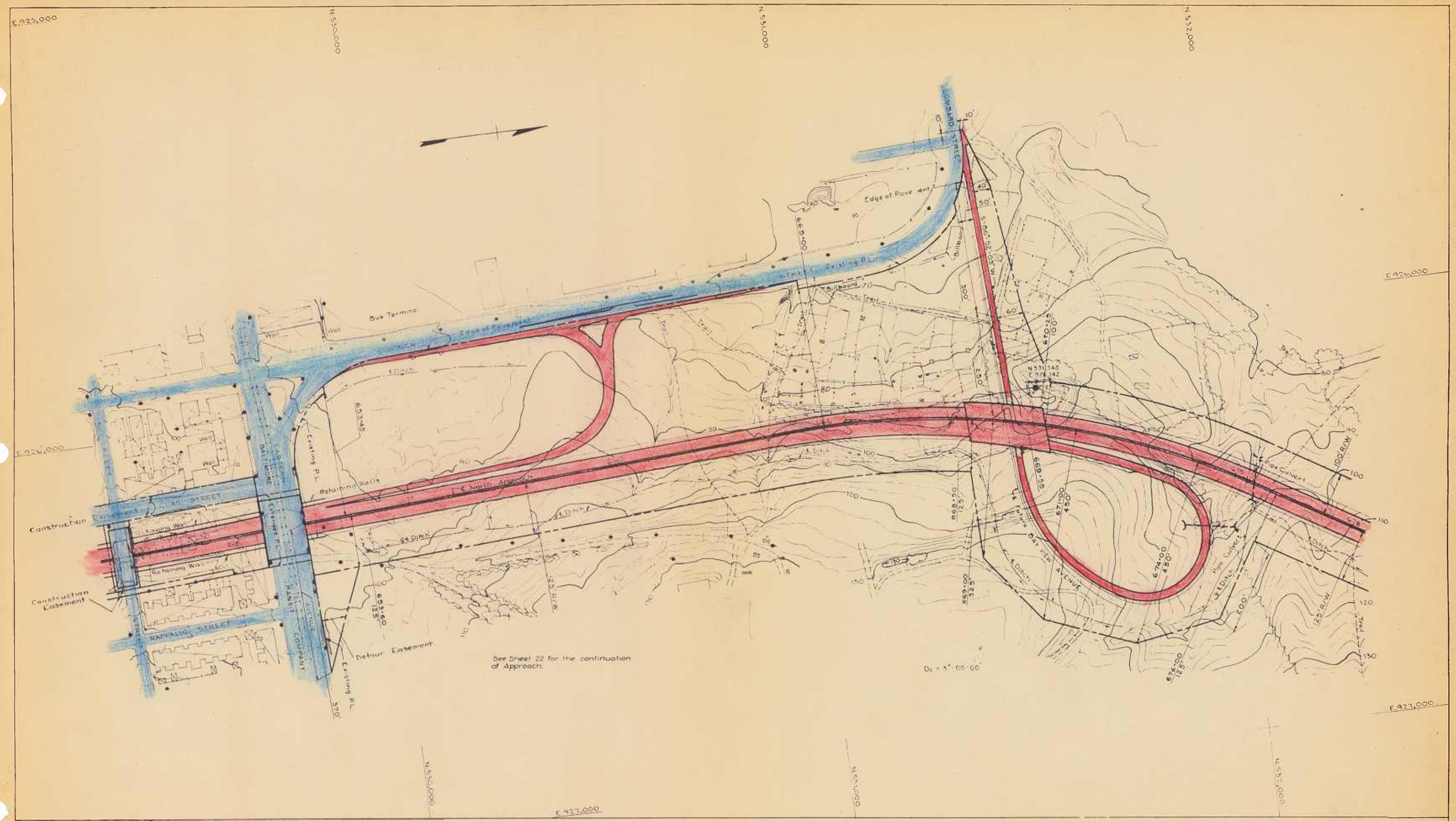
SCALE

100 0 100 200 300 400

No.	Revisions	By	Date
1.	R.O.W. Dimension Sta 635+00, 637+04	AVC	12-29-54

J.E.GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
O'DONNELL STREET INTERCHANGE



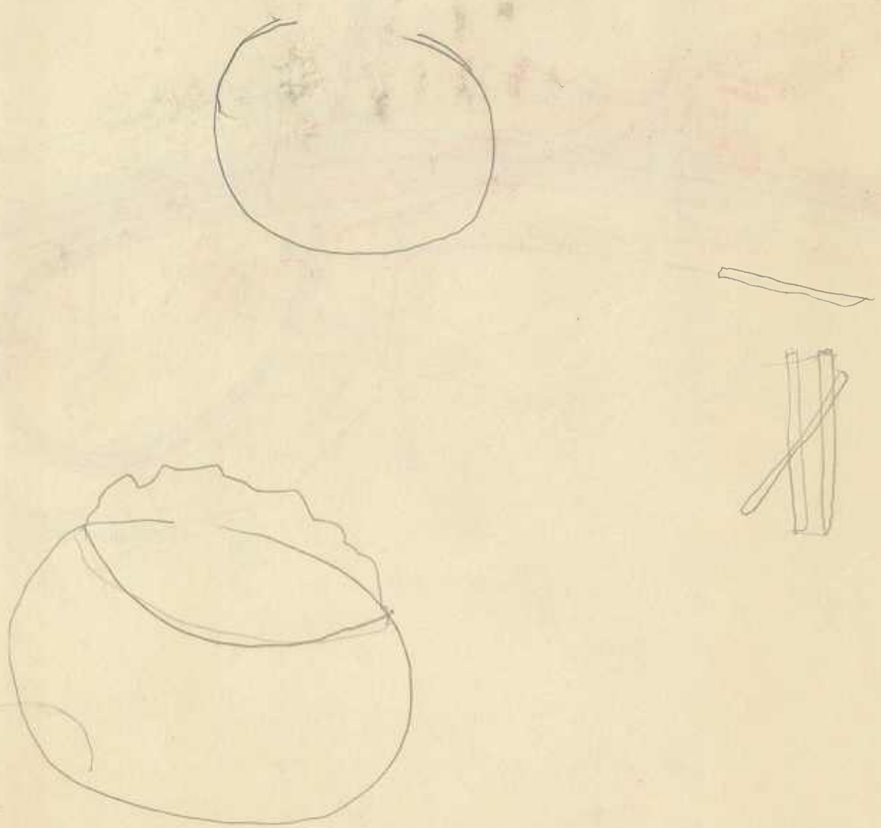
SCALE

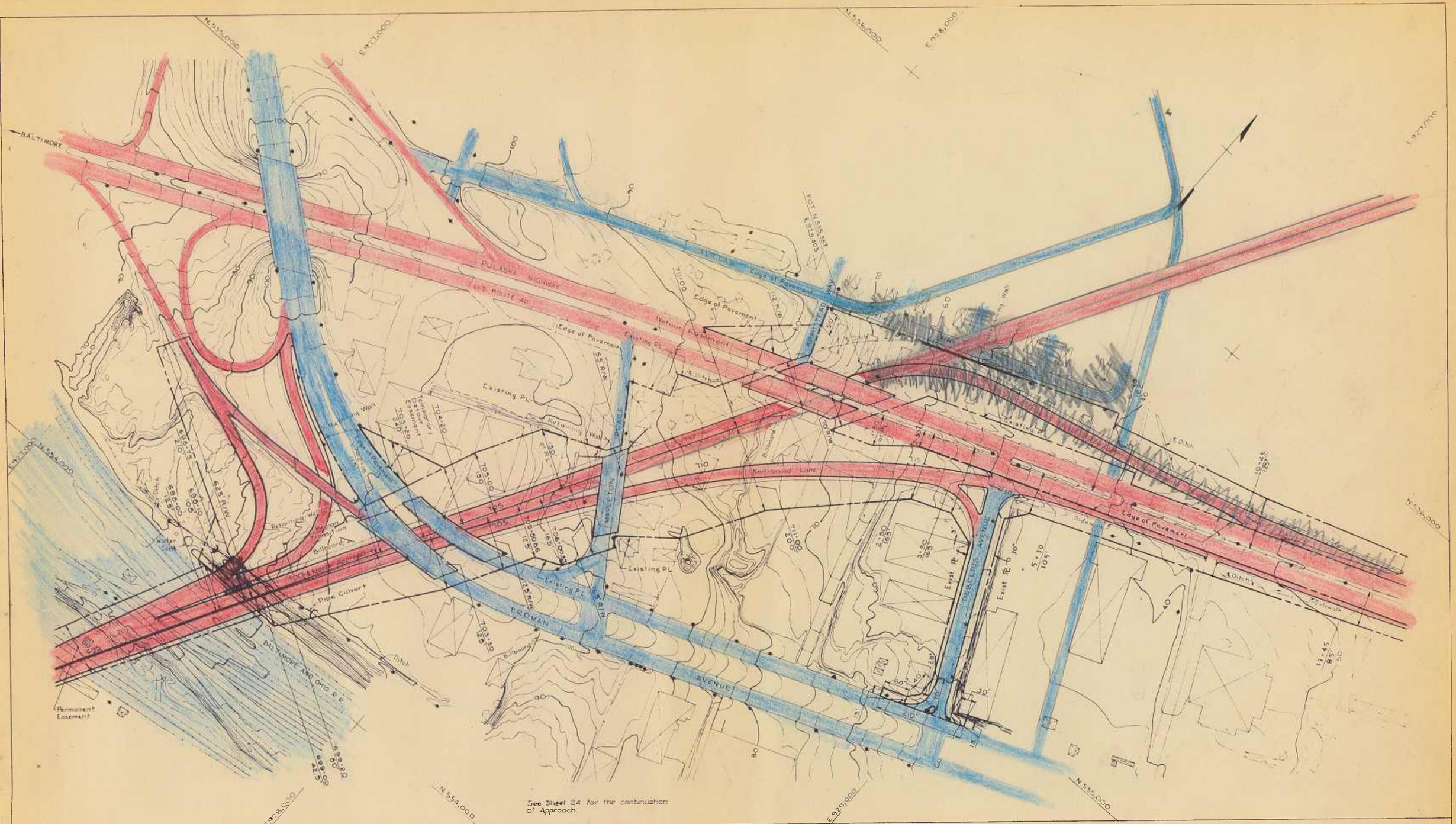
100 0 100 200 300 400

No.	Revisions	By	Date
1	R.O.W. Dimensions Added		12 54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
LOMBARD STREET INTERCHANGE





SCALE

100 0 100 200 300 400

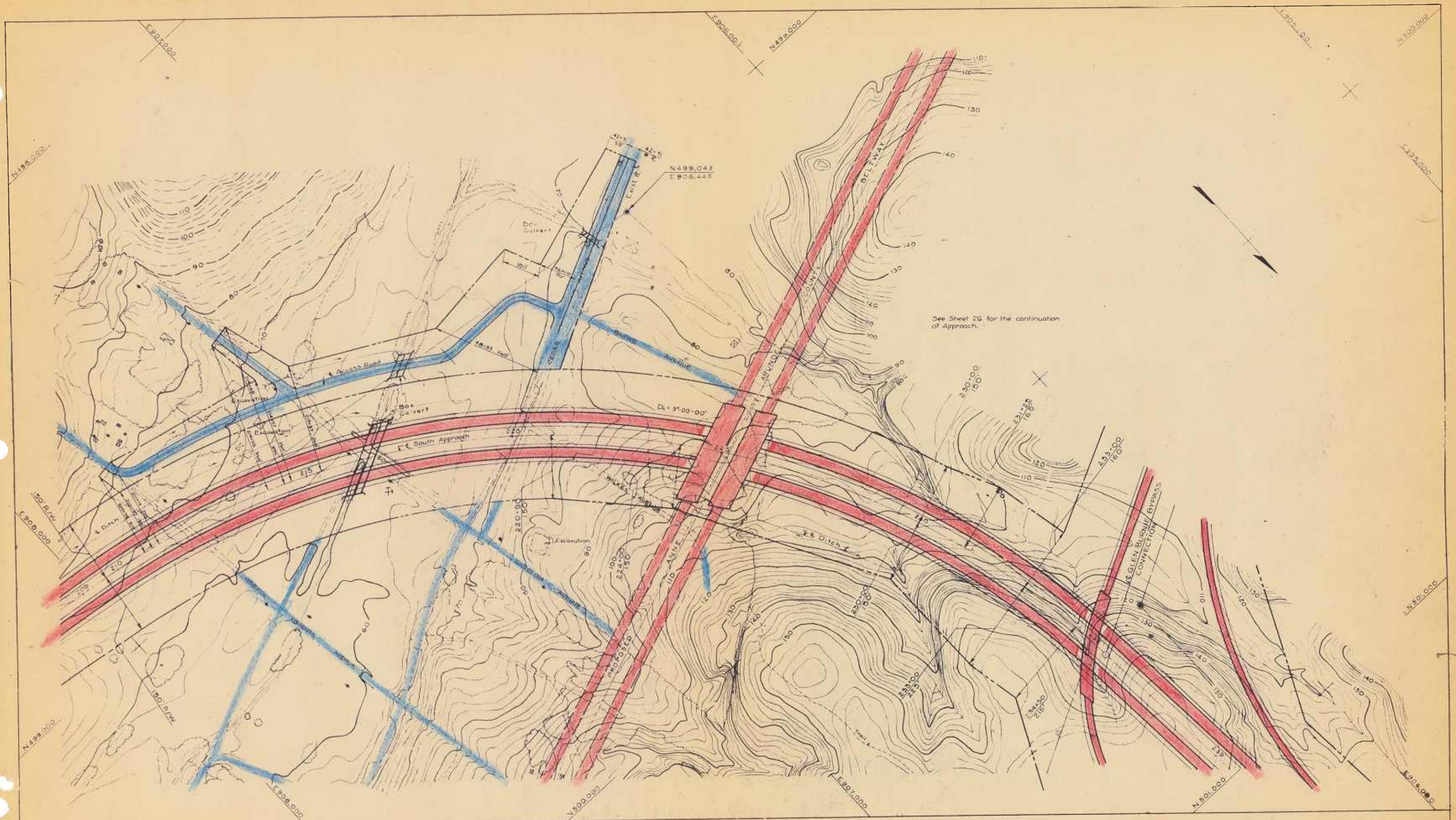
No	Revisions	By	Date
4	R.O.W. Revised Stas. 5+30 to 13+45	C.F.D.	4 1955
3	R.O.W. Limits Revised Sta 5+30 to 20+70	G.V.	22 Mar 55
2	R.O.W. Dimensions Sta's - 705 to 707 Rt of ℄	A.V.C.	12-29-54
1	R.O.W. Limits Sta's - 705 to 707 Rt of ℄	A.V.C.	12-22-54

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

STATE OF MARYLAND
STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

TERMINAL INTERCHANGE: U.S. ROUTE 40 AND ERDMAN AVENUE



SCALE

100 0 100 200 300 400

No.	Revisions	By	Date
3	R.o.W. Revised Stas. 215 to 220+90	C.F.D.	4-29-55
2	Cedar Ave., Access Road, Glen Burnie Bypass Conn.	F.C.G.	3-30-55
1	Perm. Easement Added Sta's. 210+90 - 221+50	G.V.	2-11-55

J. E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MD.
OCTOBER 1954

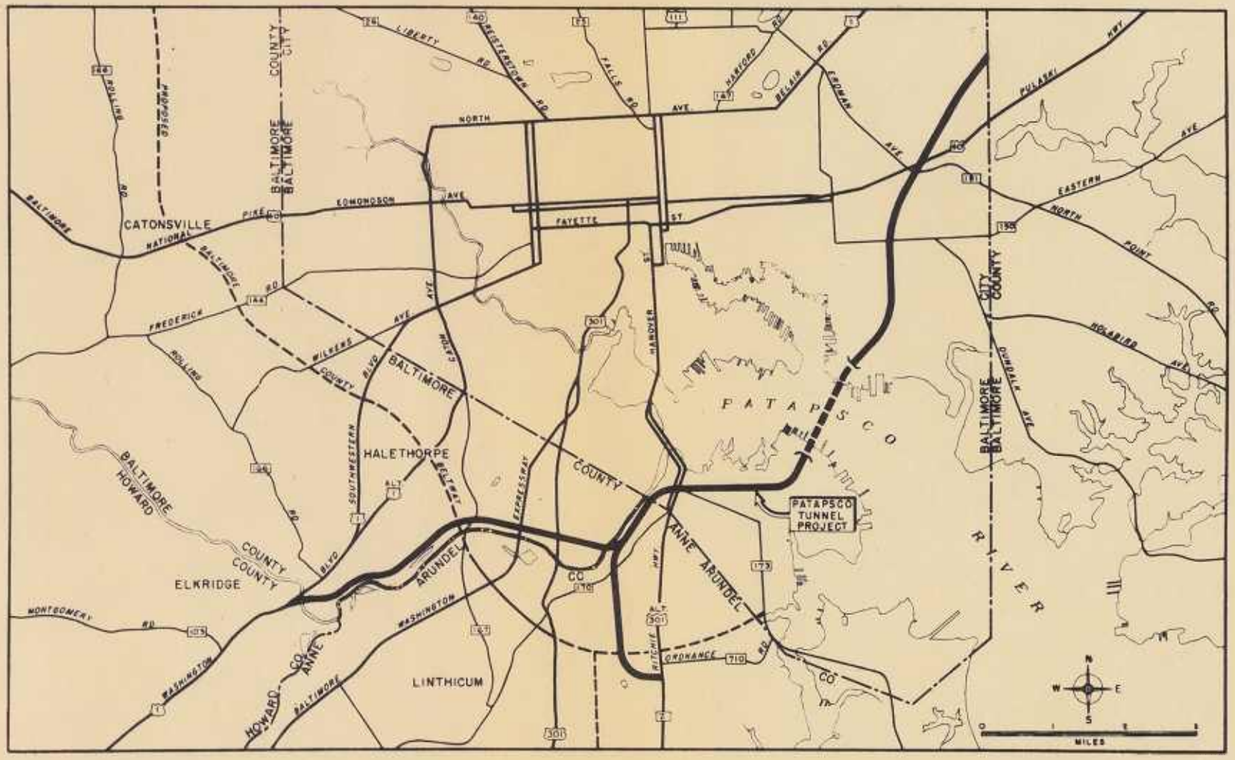
STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
ANNE ARUNDEL COUNTY BELTWAY CROSSING

STATE OF MARYLAND

STATE ROADS COMMISSION

PATAPSCO TUNNEL PROJECT

DESIGN SECTION D-7



J.E.GREINER COMPANY – CONSULTING ENGINEERS

BALTIMORE, MARYLAND

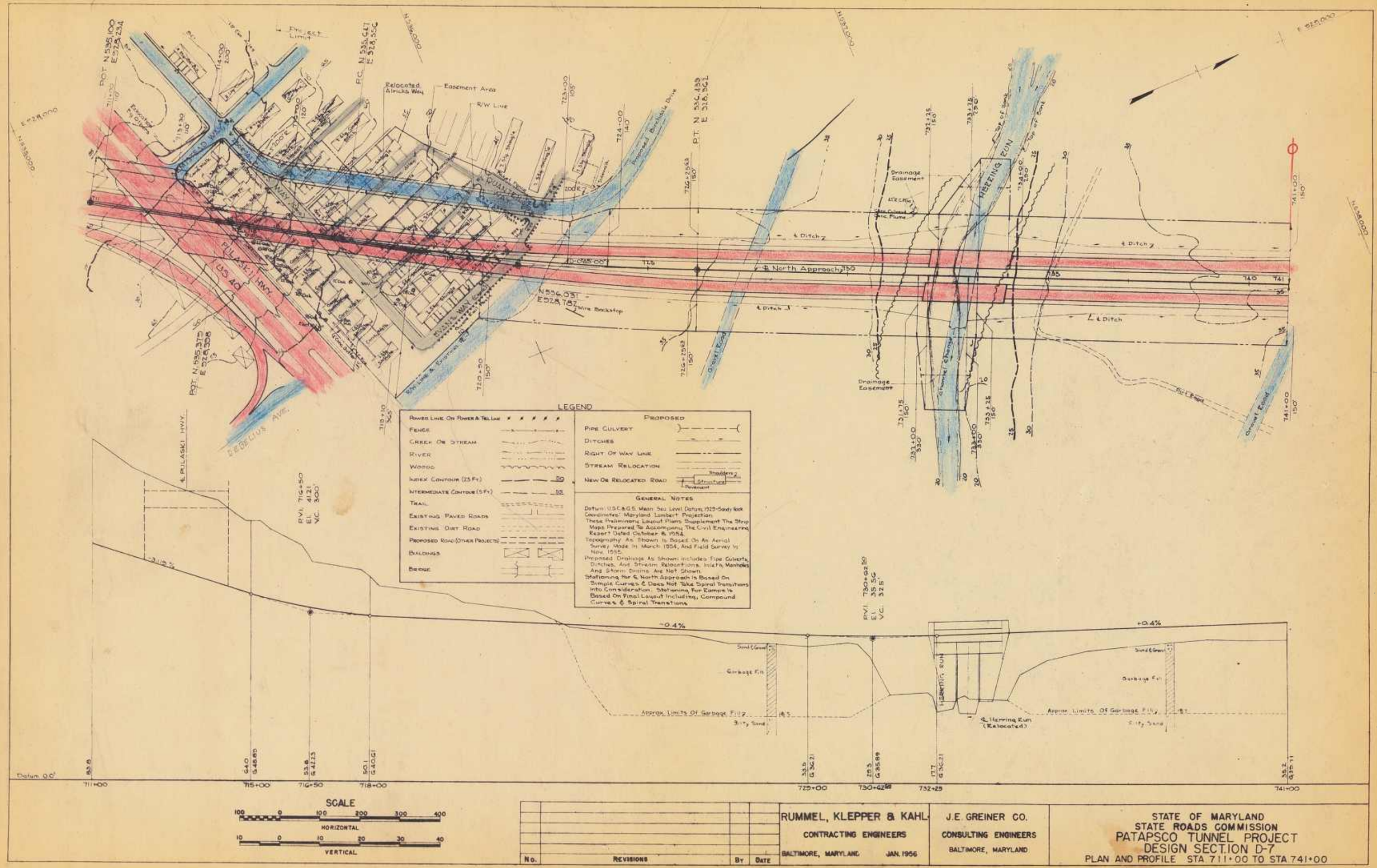
RUMMEL, KLEPPER & KAHL – CONTRACTING ENGINEERS

BALTIMORE, MARYLAND

SUBMITTED JANUARY 18, 1956.

RUMMEL, KLEPPER & KAHL

BY E.E. Rummel



LEGEND

Power Line Or Power & Tel Line	
Fence	
Creek Or Stream	
River	
Woods	
Index Contour (25 Ft.)	
Intermediate Contour (5 Ft.)	
Trail	
Existing Paved Roads	
Existing Dirt Road	
Proposed Road (Other Projects)	
Buildings	
Bridge	

PROPOSED

Pipe Culvert	
Ditches	
Right Of Way Line	
Stream Relocation	
New Or Relocated Road	Shoulders, Structure, Pavement

GENERAL NOTES

Datum: U.S.C.& G.S. Mean Sea Level Datum, 1929 - Sandy Hook
Coordinates: Maryland Lambert Projection
These Preliminary Layout Plans Supplement The Strip Maps Prepared To Accompany The Civil Engineering Report Dated October 8, 1954.
Topography As Shown Is Based On An Aerial Survey Made In March 1954, And Field Survey In Nov. 1955.
Proposed Drainage As Shown Includes Pipe Culverts, Ditches, And Stream Relocations. Inlets, Manholes And Storm Drains Are Not Shown.
Stationing For & North Approach Is Based On Simple Curves & Does Not Take Spiral Transitions Into Consideration. Stationing For Ramps Is Based On Final Layout Including, Compound Curves & Spiral Transitions

SCALE

HORIZONTAL 100 0 100 200 300 400

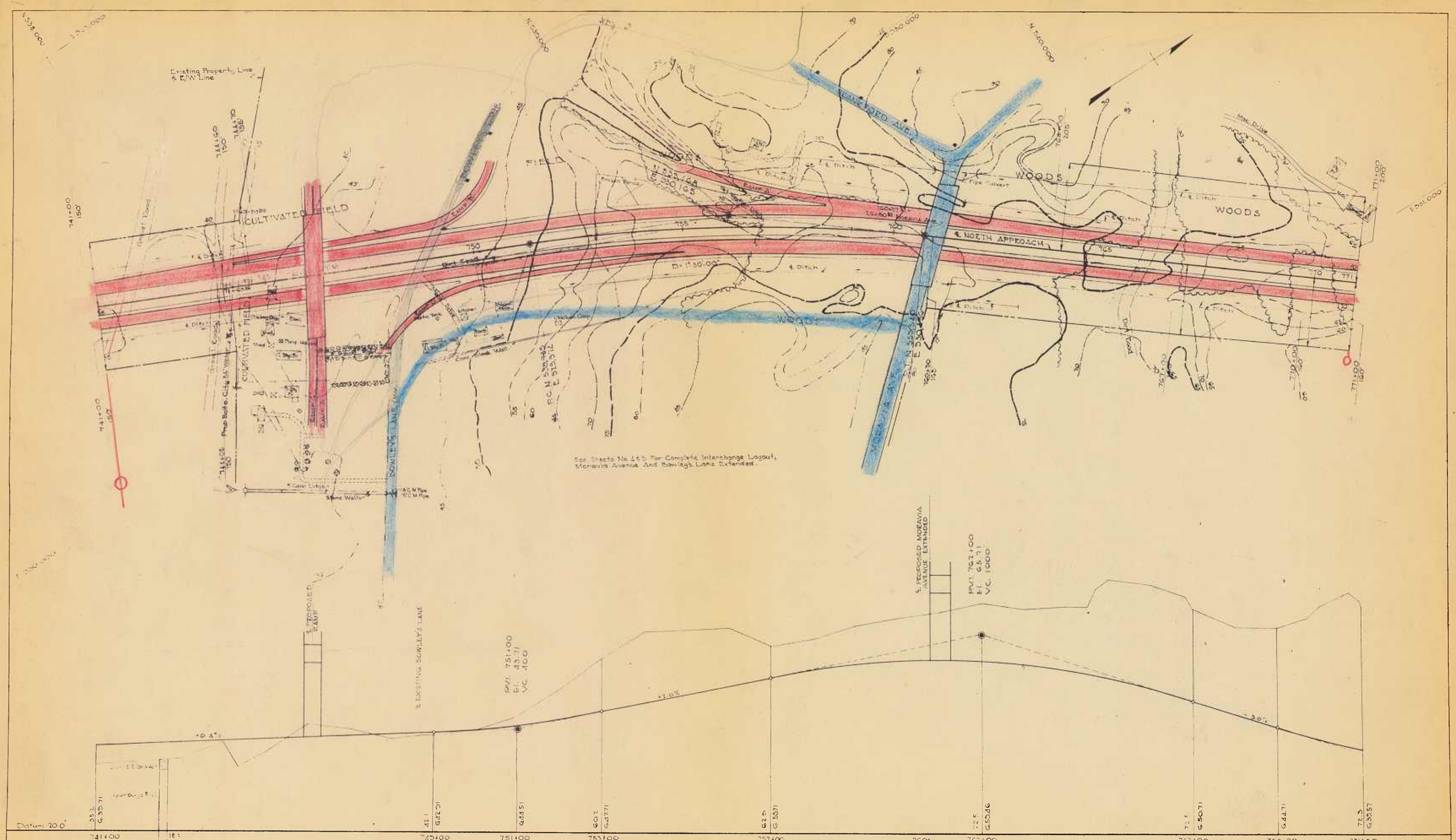
VERTICAL 10 0 10 20 30 40

No.	Revisions	By	Date

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
PLAN AND PROFILE STA 711+00 TO STA 741+00



SCALE

HORIZONTAL: 100 0 100 200 300 400

VERTICAL: 10 0 10 20 30 40

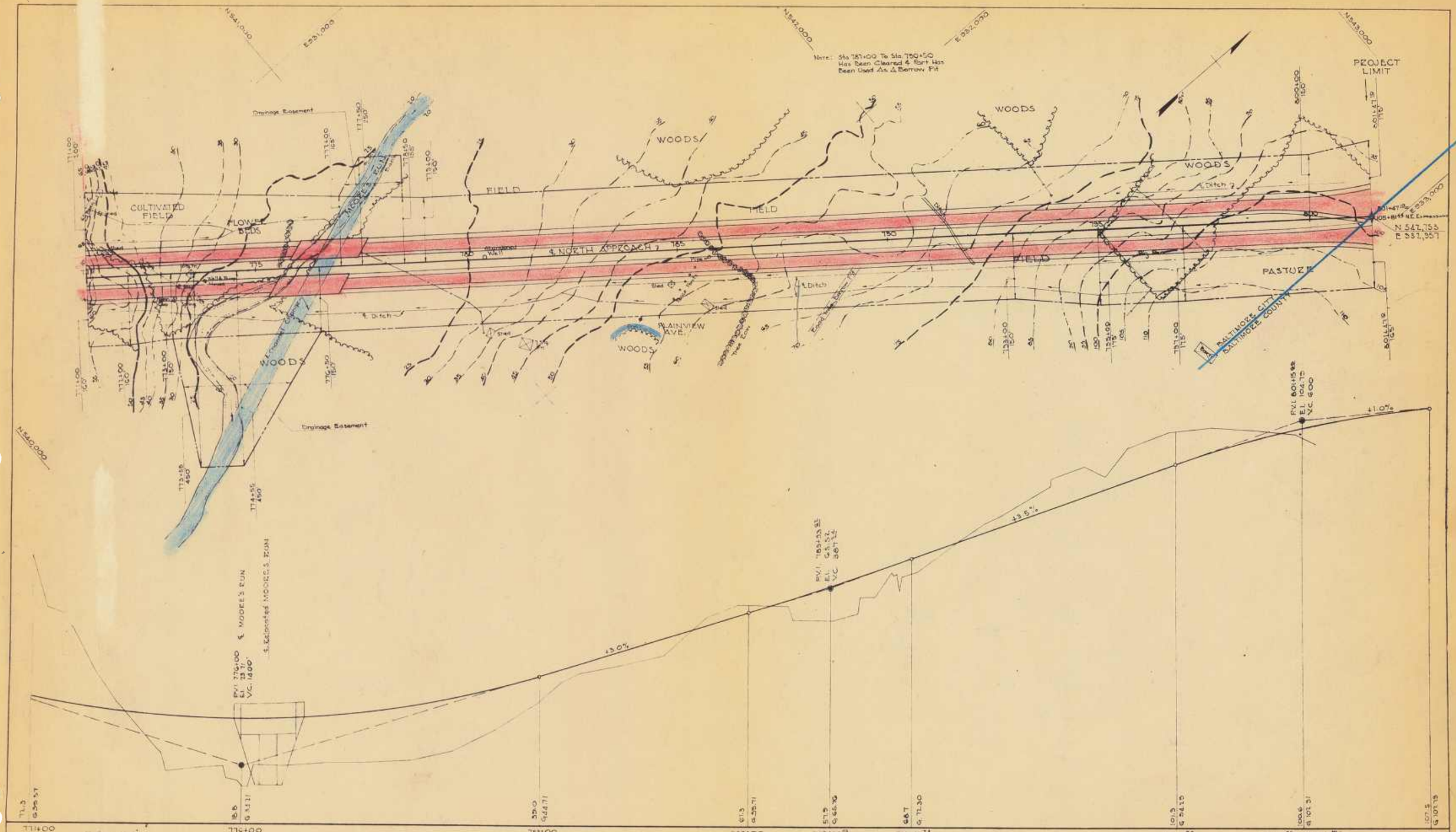
No.	Revisions	By	Date

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
PLAN AND PROFILE STA. 741+00 TO STA. 771+00

SHEET 2 OF 7

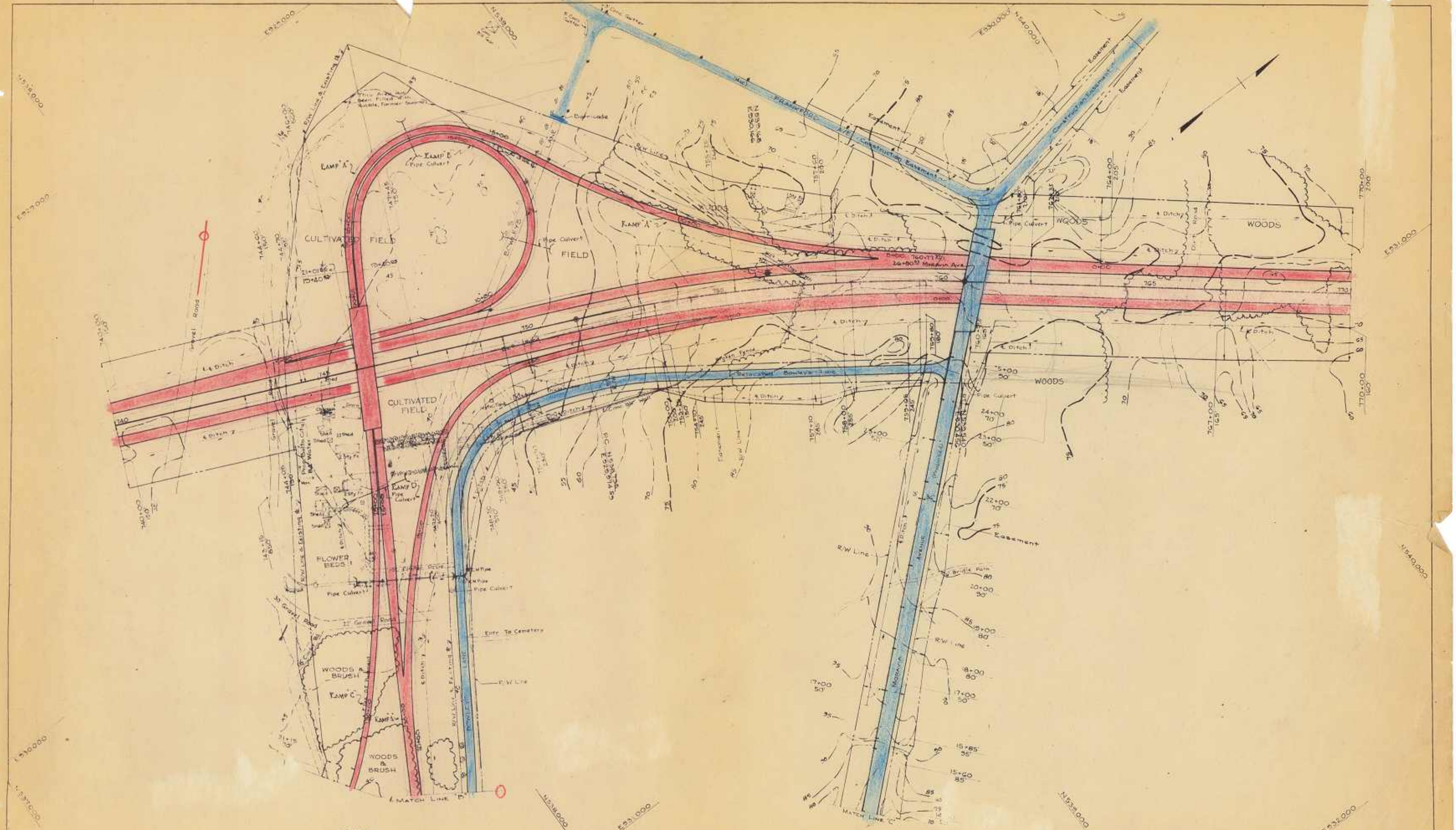


NO.	REVISIONS	BY	DATE

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
PLAN AND PROFILE STA 771+00 TO STA 801+47.10



No	Revisions	By	Date

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
BOWLEY'S LANE INTERCHANGE

No	Revisions	By	Date

RUMMEL, KLEPPER & KAHL
CONTRACTING ENGINEERS
BALTIMORE, MARYLAND JAN. 1956

J.E. GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

STATE OF MARYLAND
STATE ROADS COMMISSION
PATAPSCO TUNNEL PROJECT
DESIGN SECTION D-7
BOWLEY'S LANE INTERCHANGE

SHEET 5

Agreement
Dated

April 12th 195