

Fed. Road Div. No.	State	Federal Project No.	Sheet	Total Sheets
1	N.J.	11-FI-195 ⁽³⁾	1	84

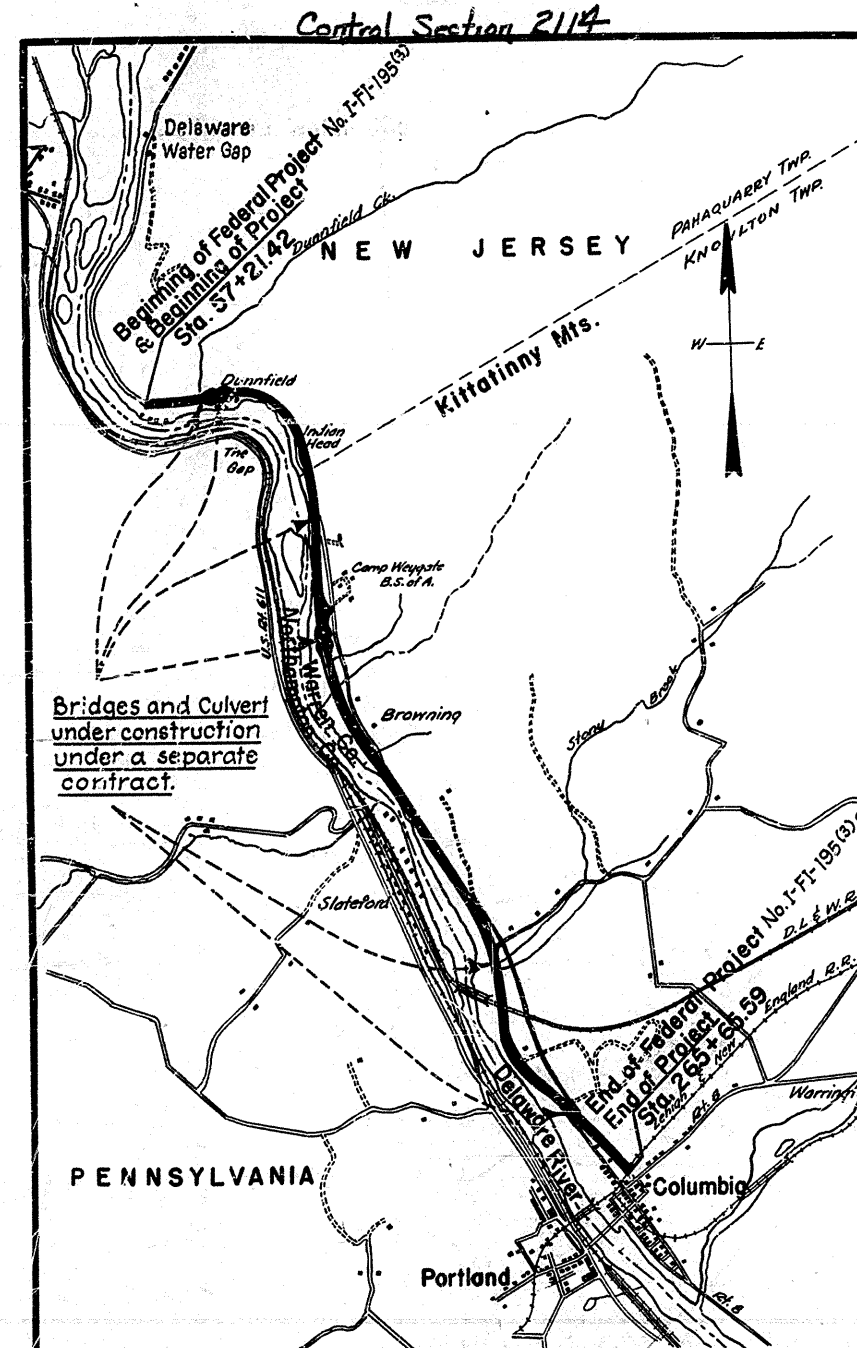
STATE OF NEW JERSEY
 HIGHWAY DEPARTMENT

PLANS OF
 ROUTE 46 (1953) SECTION 1B
 Dunnfield to Columbia

PAVING
 Pahaquarry and Knowlton Townships Warren County
 Scales as Indicated February 1953

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66	EARTHWORK CHART
67-84	CONSTRUCTION DETAILS

As Built



UTILITIES
NEW JERSEY POWER & LIGHT CO. DOVER, NEW JERSEY
BELL TELEPHONE CO OF PENNSYLVANIA 831 ADAM AVENUE, SCRANTON, PA.
BLUE MOUNTAIN TELEPHONE & TELEGRAPH CO. MAIN & WASHINGTON STS., BANGOR, PA.
DELAWARE, LACKAWANNA & WESTERN R.R. HOBOKEN, NEW JERSEY

LAYOUT & KEY MAP

SCALE: 1" = 1/2 MILE

LENGTH OF PROJECT-20844.17 LIN.FT.-3.948 MILES

LENGTH OF FEDERAL PROJECT-20844.17 LIN.FT.- 3.948 MILES

FEDERAL PROJECT NO.11-FI-195⁽³⁾

STANDARD HIGHWAY SPECIFICATIONS OF 1941 TO GOVERN

As Built Data Compiled By: *W.H. Wheeler*
Senior Engineer Hwy.

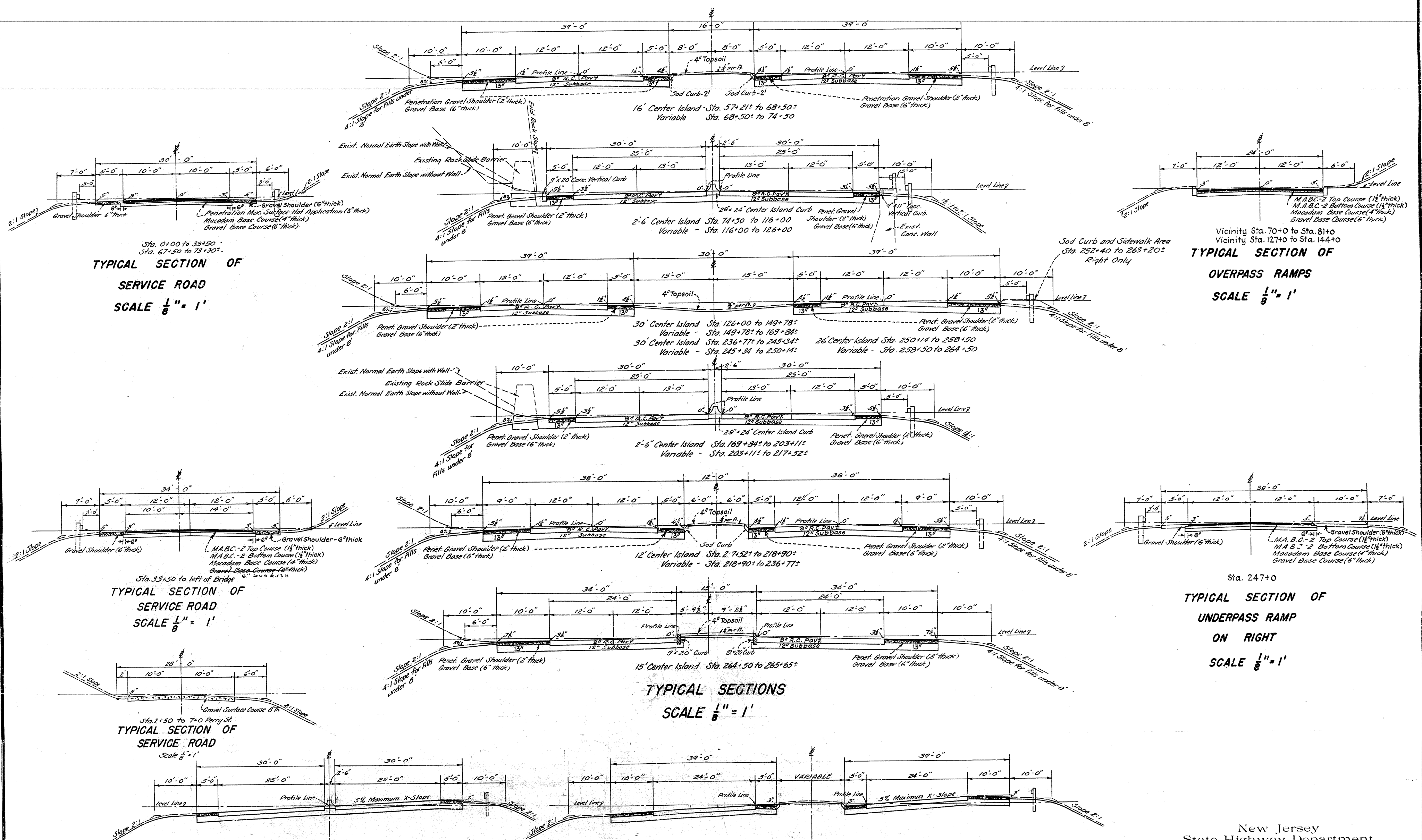
Submitted by: *O. Hubert Dittusche* 3-9-53
Director and Chief Road Engineer Date
 Approved by: *E. J. [Signature]* 3-9-53
State Highway Engineer Date
 Approved by: *C. V. [Signature]* 3-9-53
State Highway Commissioner Date

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
RECOMMENDED FOR APPROVAL	
DISTRICT ENGINEER	DATE
APPROVED	
DIVISION ENGINEER	DATE

1/84

22-24

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FOR GRADES IN SUPERELEVATION AREAS SEE GRADE SHEETS

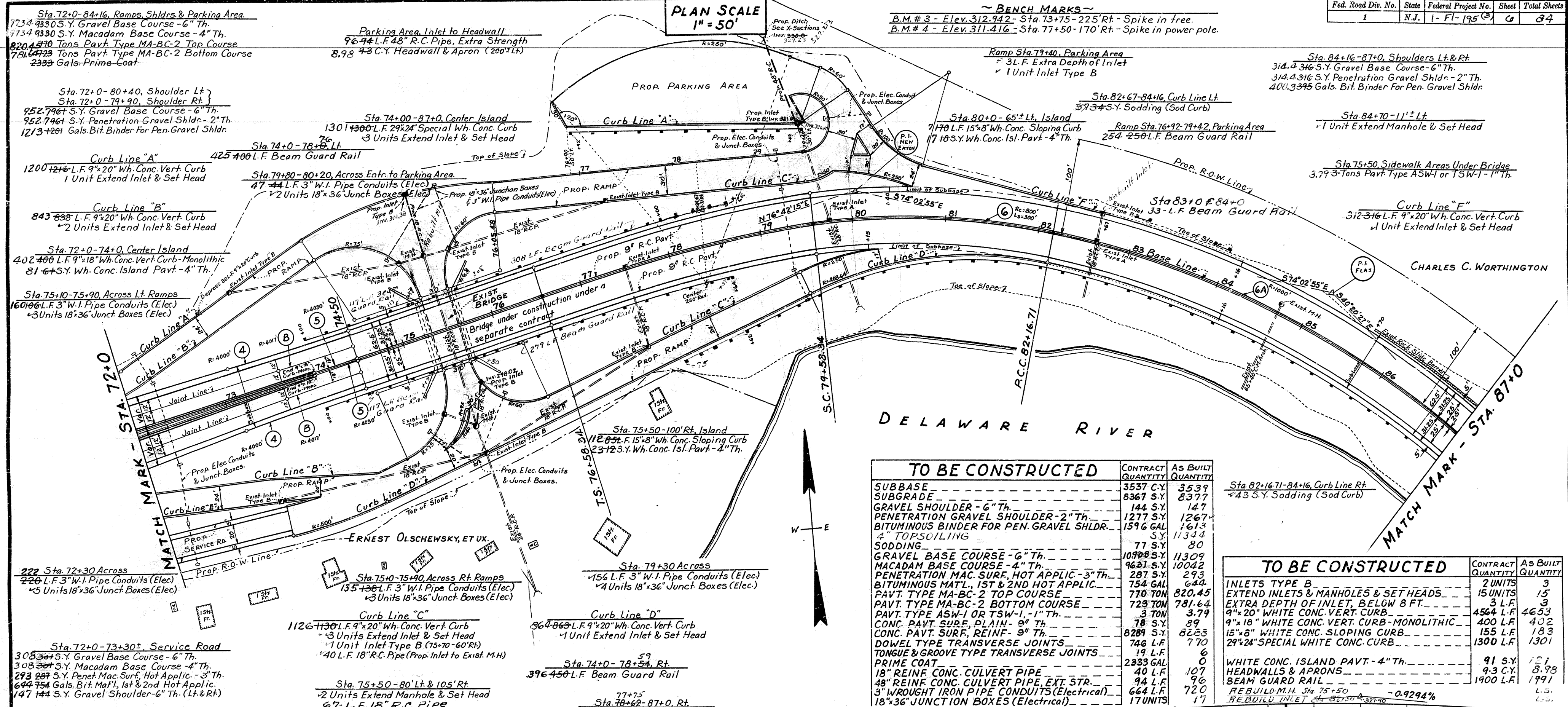
SECTIONS SHOWING METHOD OF SUPERELEVATION
SCALE 1" = 10'

New Jersey
State Highway Department
TYPICAL SECTIONS
ROUTE 46 (1953) SECTION 1B
Dunfield to Columbia
PAVING
Scales as Indicated

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PLAN SCALE
1" = 50'

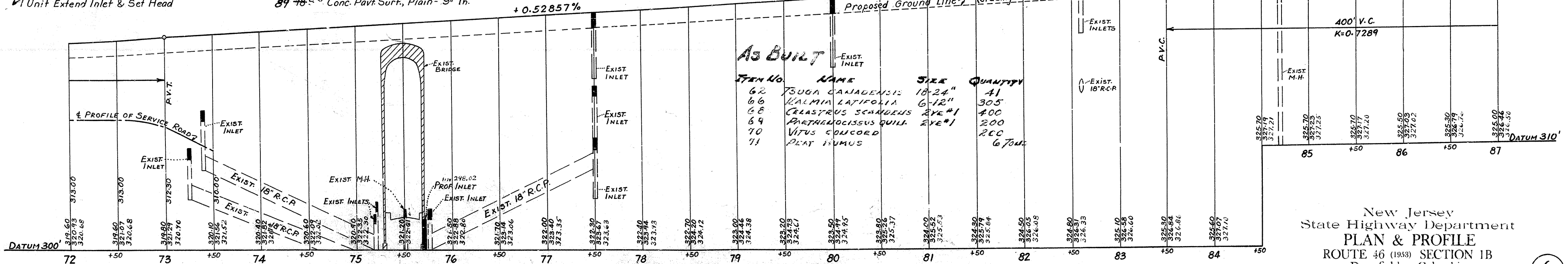
~ BENCH MARKS ~
B.M.# 3 - Elev. 312.942 - Sta. 73+75 - 225' Rt. - Spike in tree.
B.M.# 4 - Elev. 311.416 - Sta. 77+50 - 170' Rt. - Spike in power pole.



TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
SUBBASE	3537 C.Y.	3539
SUBGRADE	8367 S.Y.	8377
GRAVEL SHOULDER - 6" Th.	144 S.Y.	147
PENETRATION GRAVEL SHOULDER - 2" Th.	1277 S.Y.	1267
BITUMINOUS BINDER FOR PEN. GRAVEL SHLDR.	1596 GAL	1613
4" TOPSOILING	S.Y.	1134
SODDING	77 S.Y.	80
GRAVEL BASE COURSE - 6" Th.	10708 S.Y.	11309
MACADAM BASE COURSE - 4" Th.	9621 S.Y.	10042
PENETRATION MAC. SURF. HOT APPLIC. - 3" Th.	287 S.Y.	293
BITUMINOUS MATL., 1ST & 2ND HOT APPLIC.	754 GAL	644
PAVT. TYPE MA-BC-2 TOP COURSE	710 TON	820.45
PAVT. TYPE MA-BC-2 BOTTOM COURSE	723 TON	781.64
PAVT. TYPE ASW-1 OR TSW-1 - 1" Th.	3 TON	3.79
CONC. PAVT. SURF. PLAIN - 9" Th.	78 S.Y.	89
CONC. PAVT. SURF. REINF. - 9" Th.	8289 S.Y.	8253
DOWEL TYPE TRANSVERSE JOINTS	746 L.F.	770
TONGUE & GROOVE TYPE TRANSVERSE JOINTS	19 L.F.	6
PRIME COAT	2333 GAL	6
18" REINF. CONC. CULVERT PIPE	40 L.F.	107
48" REINF. CONC. CULVERT PIPE, EXT. STR.	94 L.F.	16
3" WROUGHT IRON PIPE CONDUITS (Electrical)	664 L.F.	720
18"x36" JUNCTION BOXES (Electrical)	17 UNITS	17

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
INLETS TYPE B	2 UNITS	3
EXTEND INLETS & MANHOLES & SET HEADS	15 UNITS	15
EXTRA DEPTH OF INLET, BELOW 8 FT.	3 L.F.	3
9"x20" WHITE CONC. VERT. CURB	4564 L.F.	4653
9"x18" WHITE CONC. VERT. CURB-MONOLITHIC	400 L.F.	402
15"x8" WHITE CONC. SLOPING CURB	155 L.F.	183
29"x24" SPECIAL WHITE CONC. CURB	1300 L.F.	1301
WHITE CONC. ISLAND PAVT. - 4" Th.	91 S.Y.	121
HEADWALLS & APRONS	4.3 C.Y.	8.98
BEAM GUARD RAIL	1900 L.F.	1991
REBUILD M.H. Sta 75+50		L.S.
REBUILD INLET Sta 82+50		L.S.

PROFILE OF PROPOSED PAVEMENT



PROFILE SCALES: - Hor. - 1" = 50'
Vert. - 1" = 5'

New Jersey
State Highway Department
PLAN & PROFILE
ROUTE 46 (1953) SECTION 1B
Dunfield to Columbia
PAVING
Scales as Indicated

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PLAN SCALE
1" = 50'

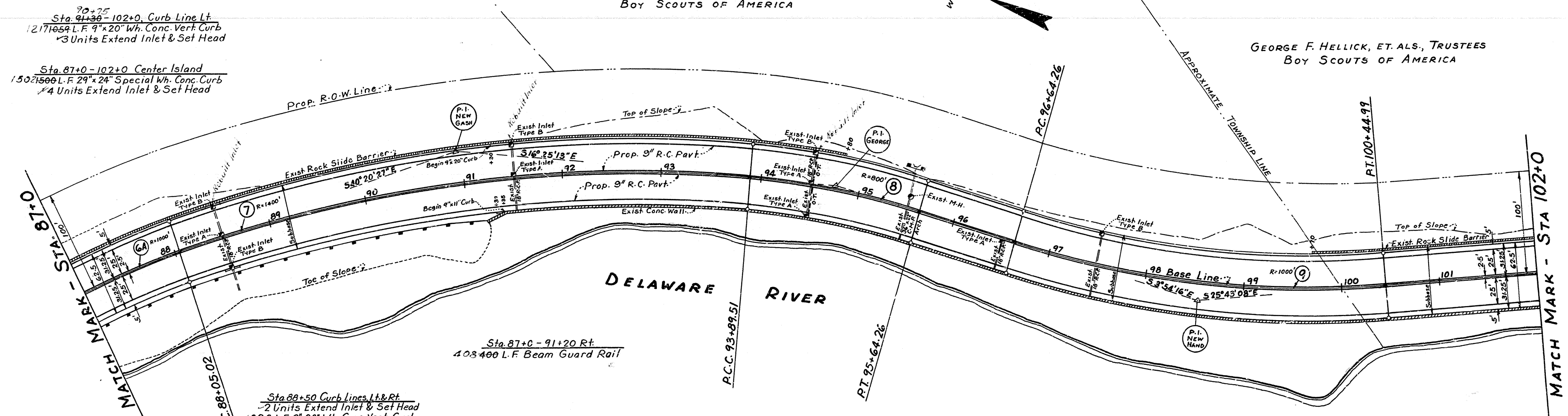
PAHAQUARRY TOWNSHIP

CHARLES C. WORTHINGTON

KNOWLTON TOWNSHIP

GEORGE F. HELICK, ET. ALS, TRUSTEES
BOY SCOUTS OF AMERICA

GEORGE F. HELICK, ET. ALS, TRUSTEES
BOY SCOUTS OF AMERICA



Sta 87+0-102+0 Curb Line Lt.
1271054 L.F. 9"x20" Wh. Conc. Vert. Curb
*3 Units Extend Inlet & Set Head

Sta 87+0-102+0 Center Island
15021500 L.F. 24"x24" Special Wh. Conc. Curb
*4 Units Extend Inlet & Set Head

Sta 88+50 Curb Lines Lt. & Rt.
-2 Units Extend Inlet & Set Head
1020 L.F. 9"x20" Wh. Conc. Vert. Curb

Sta 87+0-102+0 Shoulders Lt. & Rt.
-1667 S.Y. Gravel Base Course-6" Th.
-1667 S.Y. Penetration Gravel Shoulder-2" Th.
2123 2084 Gals. Bit. Binder For Pen. Gravel Shldr.

Sta 91+30-91+35 Curb Line Rt.
5 L.F. 9"x20" Wh. Conc. Vert. Curb

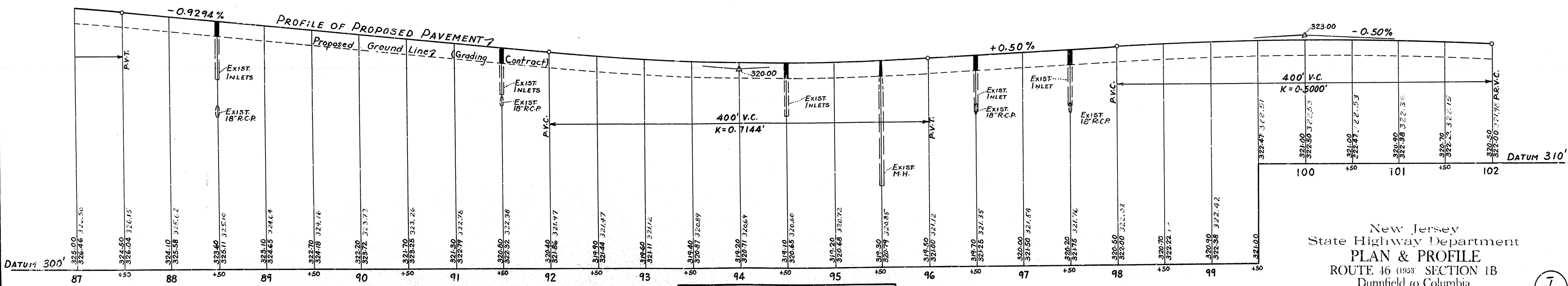
Sta 94+50 Across
-6 L.F. 6" C.M. Pipe-Perf. Ends
8.33 C.Y. Broken Stone or Washed Gravel

Sta 93+50 - 11' Lt.
-1 Unit Extend Manhole & Set Head
16 L.F. Beam Guard Rail
1.92 C.Y. Conc. H.W. and Apron

Sta 91+35-102+0 Curb Line Rt.
1081 1065 L.F. 9"x11" Wh. Conc. Vert. Curb
-1 Unit Extend Inlet & Set Head

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
SUBBASE	3615 C.Y.	3691
SUBGRADE	8334 S.Y.	8336
PENETRATION GRAVEL SHOULDER-2" Th.	1667 S.Y.	1667
BITUMINOUS BINDER FOR PEN. GRAVEL SHLDR.	2084 GAL	2123
GRAVEL BASE COURSE-6" Th.	1667 S.Y.	1667
CONC. PAVT. SURF. REINF.-9" Th.	8334 S.Y.	8336
DOWEL TYPE TRANSVERSE JOINTS	750 L.F.	750
BROKEN STONE OR WASHED GRAVEL	8 C.Y.	8.33
6" CORR. METAL PIPE, BIT. COATED, PERF. ENDS	6 L.F.	6
EXTEND INLETS & MANHOLES & SET HEADS	11 UNITS	11
9"x11" WHITE CONC. VERTICAL CURB	1065 L.F.	1081
9"x20" WHITE CONC. VERTICAL CURB	1084 L.F.	1227
24"x24" SPECIAL WHITE CONC. CURB	1500 L.F.	1502
BEAM GUARD RAIL	400 L.F.	424
HEADWALLS AND APRONS	C.Y.	1.92
1" TOPSOILING	S.Y.	1198
REBUILD INLETS Sta. 88+50, 91+50, 94+50		4.5

~ BENCH MARK ~
B.M.#7 - Elev. 309.993 - Sta. 90+15 - 60' Rt. - Spike in pole # P.Q.161



PROFILE SCALES:- Hor.-1"=50'
Vert.-1"=5'

New Jersey
State Highway Department
PLAN & PROFILE
ROUTE 46 (1953) SECTION 1B
Dumfries to Columbia
PAVING
Scale as Indicated

See Cross-Section Sheets # 37, 38

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